

1963

CENSUS OF  
MANUFACTURES



II

INDUSTRY  
STATISTICS

part 2

MAJOR GROUPS  
29 to 39 and 19

# CENSUS REGIONS AND GEOGRAPHIC DIVISIONS





# OF THE UNITED STATES





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# 1963 CENSUS OF MANUFACTURES

Volume II

## Industry Statistics

part 2

Major Groups 29 to 39 and 19



U.S. DEPARTMENT OF COMMERCE  
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## Acknowledgments

The 1963 Census of Manufactures was conducted under the direction of **Maxwell R. Conklin**, Chief, and **Owen C. Gretton**, Assistant Chief, of the Industry Division. Within the Industry Division, program responsibility along industry lines was shared by the following individuals who participated importantly in the entire census program: **Willis K. Jordan**, Foods, Textiles, and Apparel; **Cyril M. Wildes**, Lumber, Paper, and Chemicals; and **Paul F. Berard** and **Clarence H. Olsen**, Metals, Machinery, and Equipment. **Edward A. Robinson** was responsible for the concepts and definitions of establishment-type data, for preparation of the introductory text to the volumes, and for planning the content of the statistical tables in the area and subject reports.

**Louis J. Owen**, Assistant Chief for Production and Process Statistics, was responsible for the concepts followed in the product and materials inquiries and for the data on industrial water consumption and fuels and electric energy used. **Jack L. Ogus**, Assistant Chief for Statistical Methods, assisted by **Donald F. Clark**, was responsible for statistical methods and sampling techniques. **Elmer S. Biles** played an important role in developing the criteria for reviewing the tabulated data and supervised the review of the geographic statistics and much of the subject-volume materials for completeness and accuracy. **Frank A. Hanna**, a consultant to the Bureau of the Census, assisted in writing portions of the text.

**William Cooper** supervised the application of the system of industrial classification of establishments. **Robert Torene** made important contributions to the geographic statistics volume as well as to other phases of the census, and **William R. Gray** and **Kenneth R. Brimmer** made similar contributions to the product and materials inquiries. **Alan I. Blum** coordinated the work of the Division's professional staff at the Jeffersonville, Ind., Operations Office. The preparation of the manuscript for printing, within the Industry Division was the responsibility of **Angela R. Daly**.

Professional personnel in the commodity areas of the Industry Division developed the report forms for the various industries, reviewed the tabulations, and prepared the industry texts that accompanied the data. The respective areas and the individuals in charge during the census were as follows: Foods, **John S. Berube** and **Charles A. Nicholls**; Textiles, **Robert J. Nealon**; Apparel, **Evelyn W. Colburn**; Lumber and Furniture, **Robert E. Bates**; Paper, Printing, and Publishing, **Lawrence J. LaMoure**; Chemicals, **Reese R. Morgan**; Nonmetallic Minerals, **Keith B. Willis**; Primary Metals and Intermediate Metal Products, **Malcolm E. Bernhardt**; Machinery, **Conrad J. Jacobs**; and Electrical Machinery and Transportation Equipment, **Bernard B. Bernsten**. The names of the supporting statisticians in the commodity areas who made significant contributions are shown in the acknowledgment statements appearing in the 80 industry reports published separately prior to their assembly into the Industry Volume.

Systems and procedures used in processing the reports were developed in the former Economic Operations Division. **Marion D. Bingham**, Chief, and in the present Systems Division, **Sol Dolleck**, Chief, assisted by **Samuel Schweid**, **Nathan Lesowitz**, and **Jack Margolis**. **Mary H. Johnson** and **Roger O. Lepage**, assisted by **Paul E. Poissant**, developed and supervised the computer programing under the direction of **Eugene L. Wendt**. Clerical procedures were developed by **Joseph N. Brooks** and **William W. Perry** under the supervision of **Carl Mueller**. Quality control plans and procedures were developed by **George Minton**, **Maxwell R. Jeane**, and **John F. Powell**, under the direction of **Herman H. Fasteau**. **Robert D. Krook**, Executive Officer, Census Operations Office at Jeffersonville, Ind., assisted by **Gene P. King** and **Waller Wynne, Jr.**, was responsible for the phases of the processing operations performed there. Data processing and related operations were performed by the former Data Processing Systems Division under **Robert F. Drury**, Chief.

Staff members in other divisions and offices of the Census Bureau also made significant contributions to the 1963 census. **Arthur Horowitz**, in his capacity as Census of Manufactures Coordinator, made important contributions to the planning and operational phases of the work. **Murray Dessel** of the Economic Research and Analysis Division coordinated the overall processing of the large multiunit companies and provided the statistics on central administrative offices and auxiliaries. **Harold T. Goldstein** of that Division was responsible for coordinating industry coding concepts in manufactures with those followed in the business and mineral industries fields. **Conrad J. Thoren** and **George W. Morris** of the Geography Division supervised the preparation of the maps and charts. **Geraldine Censky** and **Frances Bresnahan** of the Administrative and Publications Services Division provided editorial supervision and publication planning.

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Library of Congress Card No. A66-7830

### SUGGESTED CITATION

U.S. Bureau of the Census, Census of Manufactures, 1963  
Volume II, Industry Statistics, Part II, Major Groups 29 to 39 and 19  
U.S. Government Printing Office, Washington, D.C., 1966

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For sale by the Superintendent of Documents, U.S. Government Printing Office,  
Washington, D.C., 20402, or any Department of Commerce field office. Price \$9.25



## Preface

This is one of a series of volumes presenting the final results of the 1963 Census of Manufactures. The quinquennial census for 1963 was a large-scale undertaking and its success depended upon important contributions from a large number of private and public individuals and organizations. An essential element in the census was the fine cooperation received from over 300,000 manufacturing establishments in completing the appropriate report forms.

The advice and counsel of trade associations, individual manufacturing companies, government agencies, and research organizations were most valuable in determining the content of the census reports, especially the product and materials inquiries. The Advisory Council on Federal Reports provided special assistance in determining the feasibility of collecting various types of data. Precensus exchanges of ideas with the Census advisory committees of the American Statistical Association, the American Economic Association, and the American Marketing Association contributed significantly to the planning phases of the census. Timely publicity was given the manufactures census by chambers of commerce, local newspapers, trade papers, and television and radio stations.

# 1963 Census of Manufactures Publication Program

Final results of the 1963 Census of Manufactures are published in three volumes, each containing a specific type of data.

## VOLUME I. SUMMARY AND SUBJECT STATISTICS

In addition to a summary chapter presenting the basic data historically for industries and geographic areas, separate chapters present data on a subject basis. Chapter titles are as follows:

1. General Summary
2. Size of Establishments
3. Type of Organization
4. Manufacturers' Inventories
5. Expenditures for Plant and Equipment
6. Power Equipment in Manufacturing Industries
7. Fuels and Electric Energy
8. Selected Materials Consumed
9. Selected Metalworking Operations
10. Water Use in Manufacturing
11. Concentration Ratios in Manufacturing Industries

Three special reports are also included in this volume: Manufacturing Activity in Government Establishments, Shipments of Defense Oriented Industries, and Origin of Exports of Manufactured Products. Each of the chapters in this volume was previously published as a separate report (Series MC63(1)—, numbers 1 to 10. Chapter 11 was issued as a special report for the Senate Subcommittee on Antitrust and Monopoly.)

## VOLUME II. INDUSTRY STATISTICS

This volume contains separate chapters for each of 80 groups of related industries which cover approximately 430 individual industries. Statistics are shown on detailed product shipments and materials consumption in terms of quantity and value, cost of fuels and electric energy, value added by manufacture, employment, payrolls, inventories, and capital expenditures. Selected statistics are included for earlier census years. This volume is published in two parts. Part 1 contains a general summary chapter and chapters for SIC Major Groups 20 to 28, as well as chapters for related industries within these major groups; Part 2 contains chapters for SIC Major Groups 29 to 39 and 19 as well as chapters for related industries within these major groups. A special report, Manufacturing Activity in Government

Establishments, is included in both parts of this volume. The 80 related-industry chapters were previously published as separate reports in series MC63(2)—, 19A to 39D.

## VOLUME III. AREA STATISTICS

This volume contains separate chapters for each State and the District of Columbia. The statistics include all-manufacturing totals for the State and its standard metropolitan statistical areas, counties, and cities with populations of 10,000 or more, with industry detail for the larger areas. The volume also includes a summary chapter presenting data for each of the nine geographic divisions and a special report, Manufacturing Activity in Government Establishments. Each State chapter was previously published as a separate report in Series MC63(3)—, 1 to 51.

## OTHER REPORTS

Two series of reports have been issued showing the number of manufacturing establishments in each of the approximately 430 manufacturing industries classified according to their employment size class and the State and county within which they are located. The first series places emphasis on the industry, showing data by location (State and county). Nine separate reports present data for 20 major industry groups. The second series places emphasis on the location showing data by industry. Nine reports—one for each of the nine geographic divisions of the United States—were published in this series. The series titles are as follows:

Location of Manufacturing Plants by Industry, County, and Employment Size (MC63(S)—3, numbers 1 to 9)

Location of Manufacturing Plants by County, Industry, and Employment Size (MC63(S)—4, numbers 1 to 9)

## The 1963 Census of Mineral Industries Publication Program

The 1963 Census of Mineral Industries was conducted jointly with the census of manufactures. This census was similar in scope and in publication program. Final results are published in two volumes, as follows:

Volume I. Summary and Industry Statistics, contains a summary chapter, 5 subject-type chapters, and 18 chapters showing related mineral industries.

Volume II. Area Statistics, contains separate chapters for each State (Delaware, Maryland, and the District of Columbia are combined).

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The chapters of this volume were published earlier as separate reports in the 1963 Census of Manufactures series MC63(2)-, 19A to 39D.

Data in this volume include all significant corrections uncovered after publication of the separate reports. The 1958 and other historical data include all significant corrections made since the latest publication of these figures.



## TABLE COLUMN HEADS: GENERAL SUMMARY TABLES

### TABLE 1. General Statistics for Operating Manufacturing Establishments: 1963 and Earlier Years

| Year<br>(Selected years,<br>1849 to 1963) | Establishments    |   | Proprietors<br>and partners<br>(number) | All employees     |                      | Production workers |                      |                    | Value added by<br>manufacture,<br>adjusted<br>(\$1,000) | Capital expend-<br>itures, new<br>(\$1,000) | Index of<br>industrial<br>production<br>1957-1959-<br>100 |
|---|-------------------|---|---|-------------------|----------------------|--------------------|----------------------|--------------------|---|---|---|
|   | Total<br>(number) | With 20<br>employees<br>or more<br>(number) |   | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |   |   |

### TABLE 2. Manufacturing Employment: 1963 and 1958

| Code | Major industry group<br>(2-digit major industry groups) | Year | All establishments    |                      | Operating manufacturing establishments |                      | Administrative offices and auxiliaries |                      |
|------|---|------|-----------------------|----------------------|--|----------------------|--|----------------------|
|      |   |      | Employees<br>(number) | Payroll<br>(\$1,000) | Employees<br>(number)                  | Payroll<br>(\$1,000) | Employees<br>(number)                  | Payroll<br>(\$1,000) |

### TABLE 3. General Statistics for Establishments, by Industry Groups and Industries: 1963 and 1958

| Code | Industry group and industry | 1963                  |                   |   |   |                   |                      |                    |                      |                    | Value added by<br>manufacture,<br>adjusted<br>(\$1,000) |
|------|-----------------------------|-----------------------|-------------------|---|---|-------------------|----------------------|--------------------|----------------------|--------------------|---|
|      |                             | Companies<br>(number) | Establishments    |   | Proprietors<br>and partners<br>(number) | All employees     |                      | Production workers |                      |                    |   |
|      |                             |                       | Total<br>(number) | With 20<br>employees<br>or more<br>(number) |   | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |

| 1963-Continued                     |                           |  |  |                      |                   |   | 1958                                |                   |                      |   |                                    | Code |  |
|------------------------------------|---------------------------|--|--|----------------------|-------------------|---|-------------------------------------|-------------------|----------------------|---|------------------------------------|------|--|
| Value of<br>shipments<br>(\$1,000) | Capital expenditures, new |  |  | Inventories end of-- |                   | Special-<br>ization<br>ratio<br>(percent) | Cover-<br>age<br>ratio<br>(percent) | All employees     |                      | Value added by<br>manufacture,<br>adjusted<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) |      | Capital<br>expenditures,<br>new<br>(\$1,000) |
|                                    | Total<br>(\$1,000)        | Structures<br>and additions<br>to plant<br>(\$1,000) | Machinery<br>and<br>equipment<br>(\$1,000) | 1963<br>(\$1,000)    | 1962<br>(\$1,000) |   |                                     | Total<br>(number) | Payroll<br>(\$1,000) |   |                                    |      |  |



**TABLE COLUMN HEADS: GENERAL SUMMARY TABLES--Continued**

**TABLE 4. Selected Statistics on Central Administrative Offices and Auxiliaries, by Major Industry Groups of Establishments Serviced: 1963**

| Code | Major industry group and central administrative offices and auxiliaries | Estab-lishments (number) | Employees (number) | Total payroll (\$1,000) | Code | Major industry group and central administrative offices and auxiliaries | Estab-lishments (number) | Employees (number) | Total payroll (\$1,000) |    |        |         |
|------|---|--------------------------|--------------------|-------------------------|------|---|--------------------------|--------------------|-------------------------|----|--------|---------|
| 20   | All industries, total.....  | 5,304                    | 726,477            | 6,615,494               | 29   | Petroleum and coal products--Con.                                       | 20                       | 264                | 1,585                   |    |        |         |
|      | Central administrative offices.....                                     | 3,567                    | 515,920            | 4,740,548               |      | Storage (warehouse).....  |                          |                    |                         | 18 | 243    | 2,370   |
|      | Research, development, or testing.....                                  | 551                      | 160,348            | 1,504,696               | 30   | Rubber and plastics products, n.e.c.                                    |                          |                    |                         | 72 | 11,757 | 106,739 |
|      | Storage (warehouse).....  | 485                      | 11,012             | 57,344                  |      | Central administrative offices....                                      | 50                       | 10,940             | 99,904                  |    |        |         |
|      | All other functions.....  | 701                      | 39,197             | 312,906                 |      | Research, development, or testing.                                      | 3                        | 723                | (D)                     |    |        |         |
|      | Food and kindred products.....  | 1,066                    | 71,496             | 596,779                 |      | Storage (warehouse).....  | 16                       | 81                 | 424                     |    |        |         |
|      | Central administrative offices....                                      | 625                      | 60,397             | 518,842                 |      | All other functions.....  | 3                        | 13                 | (D)                     |    |        |         |
|      | Research, development, or testing.                                      | 40                       | 4,369              | 35,017                  | 31   | Leather and leather products.....                                       | 73                       | 7,582              | 50,240                  |    |        |         |
|      | Storage (warehouse).....  | 113                      | 2,149              | 12,097                  |      | Central administrative offices....                                      | 51                       | 6,434              | 44,901                  |    |        |         |
|      | All other functions.....  | 288                      | 4,581              | 30,823                  |      | Research, development, or testing.                                      | 3                        | 29                 | (D)                     |    |        |         |

**TABLE 5. Detailed Statistics, by Industry Groups: 1963**

| Item<br>(See "Data Item Guide," page xiii, for items shown) | United States total | Food and kindred products (SIC 20) | Tobacco manu-factures (SIC 21) | Textile mill prod-ucts (SIC 22) | Apparel and related products (SIC 23) | Lumber and wood products (SIC 24) | Furniture and fixtures (SIC 25) |
|---|---------------------|------------------------------------|--------------------------------|---------------------------------|---------------------------------------|-----------------------------------|---------------------------------|
|---|---------------------|------------------------------------|--------------------------------|---------------------------------|---------------------------------------|-----------------------------------|---------------------------------|

**TABLE 6. Manufacturing Employment and Payroll for Geographic Areas: 1963, 1958, and 1954**

| Geographic area<br>(Data are shown for Divisions, States, and Standard Metropolitan Statistical Areas) | Year | All establishments |                   | Operating manufacturing establishments |                   | Administrative offices and auxiliaries |                   |
|--|------|--------------------|-------------------|--|-------------------|--|-------------------|
|  |      | Employees (number) | Payroll (\$1,000) | Employees (number)                     | Payroll (\$1,000) | Employees (number)                     | Payroll (\$1,000) |

**TABLE 7. General Statistics for Manufacturing Establishments by Geographic Areas: 1963 and Earlier Years**

| Geographic area | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture. adjusted (\$1,000) | Capital expendi-tures. new (\$1,000) | Comparative employment indexes        |  |   |
|-----------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|--------------------------------------|---------------------------------------|--|---|
|                 | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                      | Percent of U.S. employ-ment (percent) | Index of employ-ment change (1958-100) | U.S. index of employ-ment change (1958-100) |
|                 | United States: |                                    |                |                   |                    |                   |                 |  |                                      |                                       |  |   |
| 1963.....       | 311,921        | 102,272                            | 16,960,983     | 99,904,279        | 12,232,041         | 24,509,450        | 62,093,601      | 192,103,102                                    | 11,370,935                           | (X)                                   | (X)                                    | 106   |
| 1958.....       | 303,387        | 97,563                             | 16,025,219     | 78,348,893        | 11,681,143         | 22,679,219        | 49,605,180      | 141,540,618                                    | 9,543,528                            | (X)                                   | (X)                                    | 100   |
| 1954.....       | 286,814        | 90,470                             | 16,098,653     | 65,866,573        | 12,372,002         | 24,334,082        | 44,590,545      | 117,032,326                                    | 7,816,752                            | (X)                                   | (X)                                    | 100   |
| 1947.....       | 240,807        | (NA)                               | 14,293,963     | 39,695,558        | 11,917,884         | 24,316,465        | 30,243,971      | 74,290,475                                     | 5,998,099                            | (X)                                   | (X)                                    | 89  |
| 1939.....       | 173,802        | (NA)                               | 9,527,306      | 12,706,102        | 7,808,205          | (NA)              | 8,997,515       | 24,487,304                                     | (NA)                                 | (X)                                   | (X)                                    | 59  |
| 1929.....       | 206,663        | (NA)                               | 9,659,742      | 14,284,282        | 8,369,705          | (NA)              | 10,884,919      | 30,591,435                                     | (NA)                                 | (X)                                   | (X)                                    | 60  |
| 1919.....       | 270,231        | (NA)                               | 9,836,801      | 12,426,902        | 8,464,916          | (NA)              | 9,664,009       | 23,841,624                                     | (NA)                                 | (X)                                   | (X)                                    | 61  |
| 1909.....       | 264,810        | (NA)                               | 7,012,066      | 4,105,470         | 6,261,736          | (NA)              | 3,205,213       | 8,160,075                                      | (NA)                                 | (X)                                   | (X)                                    | 44  |
| 1899.....       | 204,754        | (NA)                               | 4,850,019      | 2,258,654         | 4,501,919          | (NA)              | 1,892,574       | 4,646,981                                      | (NA)                                 | (X)                                   | (X)                                    | 30  |

DIVISION AND STATE

# TABLE COLUMN HEADS: 2-DIGIT MAJOR GROUPS

## TABLE 1. General Statistics: 1963 and Earlier Years

| Year and item                                   | Establishments |                           | All employees |           | Production workers |           |           | Value added by manufacture, adjusted<br>(\$1,000) | Cost of materials<br>(\$1,000) | Value of shipments<br>(\$1,000) | Capital expenditures, new<br>(\$1,000) |
|---|----------------|---------------------------|---------------|-----------|--------------------|-----------|-----------|---|--------------------------------|---------------------------------|--|
|   | Total          | With 20 employees or more | Total         | Payroll   | Total              | Man-hours | Wages     |   |                                |                                 |  |
|   | (number)       | (number)                  | (number)      | (\$1,000) | (number)           | (1,000)   | (\$1,000) |   |                                |                                 |  |
| <b>ALL MANUFACTURING ESTABLISHMENTS, TOTAL:</b> |                |                           |               |           |                    |           |           |   |                                |                                 |  |
| 1963 . . . . .                                  | 38 587         | 14 549                    | 1 714 607     | 9 233 931 | 1 098 116          | 2 228 013 | 5 159 376 | 21 825 516  | 46 784 435                     | 68 466 487                      | 1 249 245                              |
| 1958 . . . . .                                  | 42 843         | 15 242                    | 1 771 469     | 8 064 425 | 1 152 762          | 2 309 576 | 4 548 860 | 17 700 906  | (NA)                           | 59 785 310                      | 1 021 204                              |
| 1954 . . . . .                                  | (NA)           | (NA)                      | 1 709 106     | 6 560 408 | 1 137 681          | 2 315 812 | 3 757 953 | 13 766 995  | (NA)                           | (NA)                            | 787 649                                |
| <b>ADMINISTRATIVE AND AUXILIARY UNITS:</b>      |                |                           |               |           |                    |           |           |   |                                |                                 |  |
| 1963 . . . . .                                  | 1 066          | 436                       | 71 496        | 596 779   | (X)                | (X)       | (X)       | (X)   | (X)                            | (X)                             | (X)                                    |
| 1958 . . . . .                                  | 873            | 352                       | 63 337        | 442 096   | (X)                | (X)       | (X)       | (X)   | (X)                            | (X)                             | (X)                                    |
| 1954 . . . . .                                  | (NA)           | (NA)                      | 62 515        | 360 309   | (X)                | (X)       | (X)       | (X)   | (X)                            | (X)                             | (X)                                    |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                |                           |               |           |                    |           |           |   |                                |                                 |  |
| 1963 . . . . .                                  | 37 521         | 14 113                    | 1 643 111     | 8 637 152 | 1 098 116          | 2 228 013 | 5 159 376 | 21 825 516  | 46 784 435                     | 68 466 487                      | 1 249 245                              |
| 1958 . . . . .                                  | 41 970         | 14 890                    | 1 718 132     | 7 622 329 | 1 152 762          | 2 309 576 | 4 548 860 | 17 700 906  | (NA)                           | 59 785 310                      | 1 021 204                              |
| 1954 . . . . .                                  | 42 373         | 13 648                    | 1 646 591     | 6 200 099 | 1 137 681          | 2 315 812 | 3 757 953 | 13 766 995  | (NA)                           | (NA)                            | 787 649                                |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                |                           |               |           |                    |           |           |   |                                |                                 |  |
| 1962 . . . . .                                  | (NA)           | (NA)                      | 1 682 697     | 8 592 490 | 1 119 225          | 2 287 220 | 5 059 706 | 20 870 394  | 46 037 120                     | 66 905 954                      | 1 234 541                              |
| 1961 . . . . .                                  | (NA)           | (NA)                      | 1 701 570     | 8 362 827 | 1 138 207          | 2 317 297 | 4 933 660 | 20 123 882  | 44 469 448                     | 64 590 841                      | 1 044 137                              |
| 1960 . . . . .                                  | (NA)           | (NA)                      | 1 719 309     | 8 210 415 | 1 154 513          | 2 347 651 | 4 856 884 | 19 753 156  | (NA)                           | (NA)                            | 1 034 146                              |
| 1959 . . . . .                                  | (NA)           | (NA)                      | 1 717 539     | 7 910 102 | 1 154 565          | 2 345 383 | 4 702 140 | 18 646 181  | (NA)                           | (NA)                            | 1 078 122                              |
| 1957 . . . . .                                  | (NA)           | (NA)                      | 1 687 615     | 7 141 257 | 1 133 212          | 2 304 005 | 4 243 838 | 16 346 999  | (NA)                           | (NA)                            | 922 575                                |
| 1956 . . . . .                                  | (NA)           | (NA)                      | 1 706 226     | 6 963 936 | 1 166 898          | 2 378 425 | 4 201 459 | 15 939 217  | (NA)                           | (NA)                            | 886 935                                |
| 1955 . . . . .                                  | (NA)           | (NA)                      | 1 674 255     | 6 543 568 | 1 154 115          | 2 343 504 | 3 940 184 | 14 790 062  | (NA)                           | (NA)                            | 797 712                                |

## TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Code | Industry group and geographic area<br>(2- and 3-digit industries shown by region, division, and State) | 1963              |                                       |                   |                      |                    |                      |                    | 1958  |  |                           |   |
|------|--|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|---|--|---------------------------|---|
|      |  | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted<br>(\$1,000) | Capital expenditures, new<br>(\$1,000) | All employees<br>(number) | Value added by manufacture, adjusted<br>(\$1,000) |
|      |  | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |  |                           |   |
| 20   | <b>FOOD AND KINDRED PRODUCTS, TOTAL . . .</b>  | 37 521            | 14 113                                | 1 643 111         | 8 637 152            | 1 098 116          | 2 228 013            | 5 159 376          | 21 825 516  | 1 249 245                              | 1 718 132                 | 1 770 096   |
|      | <b>NORTHEAST . . . . .</b>   | 9 102             | 3 141                                 | 373 163           | 2 054 640            | 243 316            | 495 740              | 1 193 597          | 5 147 479   | 248 888                                | 410 225                   | 4 313 219   |
|      | <b>NEW ENGLAND . . . . .</b>   | 2 358             | 741                                   | 75 754            | 375 957              | 47 876             | 96 988               | 207 014            | 910 797   | 43 160                                 | 85 183                    | 742 700   |
|      | MAINE . . . . .  | 341               | 122                                   | 11 657            | 45 055               | 8 931              | 17 583               | 29 579             | 109 239   | 5 693                                  | 11 462                    | 86 209  |
|      | NEW HAMPSHIRE . . . . .  | 150               | 41                                    | 2 944             | 14 092               | 1 579              | 3 353                | 6 565              | 31 474  | 1 564                                  | 3 129                     | 21 127  |
|      | VERMONT . . . . .  | 132               | 37                                    | 2 699             | 13 142               | 1 740              | 3 644                | 7 481              | 35 022  | 1 642                                  | 2 876                     | 34 294  |
|      | MASSACHUSETTS . . . . .  | 1 110             | 369                                   | 41 037            | 208 802              | 26 176             | 53 063               | 117 134            | 505 007   | 22 912                                 | 48 045                    | 409 697   |

## TABLE 3. Detailed Statistics: 1963

| Item<br>(See "Data Item Guide," page xviii, for items shown) | Food and kindred products (SIC 20) | Meat products (SIC 201) | Dairies (SIC 202) | Canned and frozen foods (SIC 203) | Grain mills (SIC 204) | Bakery products (SIC 205) | Sugar (SIC 206) | Candy and related products (SIC 207) | Beverages (SIC 208) | Miscellaneous foods and kindred products (SIC 209) |
|--|------------------------------------|-------------------------|-------------------|-----------------------------------|-----------------------|---------------------------|-----------------|--------------------------------------|---------------------|--|
|  |                                    |                         |                   |                                   |                       |                           |                 |                                      |                     |  |



# TABLE COLUMN HEADS: INDUSTRY CHAPTER TABLES

## TABLE 1. General Statistics: 1963 and Earlier Years

| Year | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|------|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|      |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |

## TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area<br>(Divisions and<br>States) | 1963              |  |                   |                      |                    |                          |                    |   |                                    |                                    |   | 1958                           |   |
|--|-------------------|--|-------------------|----------------------|--------------------|--------------------------|--------------------|---|------------------------------------|------------------------------------|---|--------------------------------|---|
|  | Establishments    |  | All employees     |                      | Production workers |                          |                    | Value<br>added by<br>manufac-<br>ture,<br>adjusted<br>(\$1,000) | Cost of<br>material s<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | All em-<br>ployees<br>(number) | Value<br>added by<br>manufac-<br>ture,<br>adjusted<br>(\$1,000) |
|  | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-<br>hours<br>(1,000) | Wages<br>(\$1,000) |   |                                    |                                    |   |                                |   |

## TABLE 3. Detailed Statistics: 1963

| Item<br><br>(See "Data Item Guide," page xiii, for items shown) | Food products<br>machinery<br>(SIC 3551) | Textile<br>machinery<br>(SIC 3552) | Woodworking<br>machinery<br>(SIC 3553) | Paper industries<br>machinery<br>(SIC 3554) | Printing trades<br>machinery<br>(SIC 3555) | Special industry<br>machines, n.e.c.<br>(SIC 3559) |
|---|--|------------------------------------|--|---|--|--|
|---|--|------------------------------------|--|---|--|--|

## TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item                                    | Estab-<br>lish-<br>ments,<br>total | Establishments with an average of— |                     |                       |                       |                       |                            |                            |                            |                                |                                |
|---|------------------------------------|------------------------------------|---------------------|-----------------------|-----------------------|-----------------------|----------------------------|----------------------------|----------------------------|--------------------------------|--------------------------------|
|   |                                    | 1 to 4<br>employees                | 5 to 9<br>employees | 10 to 19<br>employees | 20 to 49<br>employees | 50 to 99<br>employees | 100 to<br>249<br>employees | 250 to<br>499<br>employees | 500 to<br>999<br>employees | 1,000 to<br>2,499<br>employees | 2,500<br>employees<br>and over |
| INDUSTRY 3561.—PUMPS AND COMPRESSORS    |                                    |                                    |                     |                       |                       |                       |                            |                            |                            |                                |                                |
| Establishments.....number..             | 642                                | 198                                | 77                  | 100                   | 93                    | 47                    | 61                         | 38                         | 17                         | 10                             | 1                              |
| All employees:                          |                                    |                                    |                     |                       |                       |                       |                            |                            |                            |                                |                                |
| Total.....do....                        | 61,322                             | 336                                | 499                 | 1,361                 | 2,953                 | 3,356                 | 9,932                      | 13,256                     | 11,332                     | 18,297                         | (D)                            |
| Payroll.....\$1,000..                   | 395,769                            | 1,673                              | 2,708               | 7,409                 | 18,466                | 20,899                | 61,891                     | 84,939                     | 73,641                     | 124,143                        | (D)                            |
| Value added, adjusted.....do....        | 768,787                            | 3,715                              | 5,423               | 15,331                | 36,659                | 44,762                | 129,437                    | 167,692                    | 154,906                    | 210,862                        | (D)                            |
| Value of shipments.....do....           | 1,419,081                          | 7,455                              | 10,475              | 30,836                | 67,340                | 83,066                | 241,587                    | 305,129                    | 262,335                    | 410,858                        | (D)                            |
| Capital expenditures, new.....do....    | 28,417                             | 179                                | 205                 | 413                   | 727                   | 1,776                 | 4,305                      | 6,359                      | 5,633                      | 8,820                          | (D)                            |
| INDUSTRY 3562.—BALL AND ROLLER BEARINGS |                                    |                                    |                     |                       |                       |                       |                            |                            |                            |                                |                                |

**TABLE COLUMN HEADS: INDUSTRY CHAPTER TABLES--Continued**

**TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958**

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code<br>(4-digit) | Industry and census year | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|------------------------|--------------------------|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|                        |                          | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|                        |                          | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|                        |                          | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |

**TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963**

In thousands of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c)

miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code | Class of products and miscellaneous receipts      | All industries | Roasted coffee (SIC 2095) | Other industries | Prod. class code | Class of products and miscellaneous receipts      | All industries | Macaroni and spaghetti (SIC 2098) | Other industries |
|------------------|---|----------------|---------------------------|------------------|------------------|---|----------------|-----------------------------------|------------------|
|                  | ROASTED COFFEE INDUSTRY                           |                |                           |                  |                  | MACARONI AND SPAGHETTI INDUSTRY—Continued         |                |                                   |                  |
|                  | Total shipments and receipts of the industry..... | (X)            | 1,868,058                 | (X)              |                  | Secondary products .....                          | (X)            | 7,710                             | (X)              |
|                  | Primary products.....                             | 1,602,699      | 1,584,433                 | 18,266           |                  | Miscellaneous receipts.....                       | (X)            | 11,938                            | (X)              |
| 20951            | Roasted coffee, whole bean or ground.....         | 1,206,392      | 1,192,696                 | 13,696           | 99989            | Resales.....                                      | (X)            | 9,892                             | (X)              |
| 20952            | Concentrated coffee.....                          | 396,307        | 391,737                   | 4,570            |                  | Other receipts including commission receipts..... | (X)            | 2,046                             | (X)              |

**TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958**

| Product code | Product | Total production<br>(1,000 pounds) | Total shipments including interplant transfers |                    | Transfers to other plants of the same company |                    | Produced and consumed in same establishment<br>(1,000 pounds) |
|--------------|---------|------------------------------------|--|--------------------|---|--------------------|---|
|              |         |                                    | Quantity<br>(1,000 pounds)                     | Value<br>(\$1,000) | Quantity<br>(1,000 pounds)                    | Value<br>(\$1,000) |   |
|              |         |                                    |  |                    |   |                    |   |

(Column structure varies with the industry. Production and interplant transfers are shown if they are significant)

| Unit of measure | Production for all purposes including further manufacture (quantity) | Total shipments including interplant transfers |                    | Commercial shipments |                    | Unit of measure | Total shipments including interplant transfers |                    |          |                    |
|-----------------|--|--|--------------------|----------------------|--------------------|-----------------|--|--------------------|----------|--------------------|
|                 |  | Quantity                                       | Value<br>(\$1,000) | Quantity             | Value<br>(\$1,000) |                 | 1963   |                    | 1958     |                    |
|                 |  |  |                    |                      |                    |                 | Quantity                                       | Value<br>(\$1,000) | Quantity | Value<br>(\$1,000) |



**TABLE COLUMN HEADS: INDUSTRY CHAPTER TABLES--Continued**

**TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958**

| Product code | Product and year | Indexes (1954 = 100) |            |
|--------------|------------------|----------------------|------------|
|              |                  | Production           | Unit value |

**TABLE 6C. Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963**

| Code | Product class | 1963 | 1962 | 1961 | 1960 | 1959 | 1958 | 1954 | 1947 |
|------|---------------|------|------|------|------|------|------|------|------|
|------|---------------|------|------|------|------|------|------|------|------|

**TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958**

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area | Value of shipments | Product class and geographic area | Value of shipments | Product class and geographic area | Value of shipments |
|-----------------------------------|--------------------|-----------------------------------|--------------------|-----------------------------------|--------------------|
|-----------------------------------|--------------------|-----------------------------------|--------------------|-----------------------------------|--------------------|

**TABLE 7A. Materials by Kind: 1963 and 1958**

| Code | Material<br>(List of materials varies with each industry) | Basis | Unit of measure | 1963   |   |                             | 1958  |  |   |                             |   |
|------|---|-------|-----------------|--|---|-----------------------------|---|--|---|-----------------------------|---|
|      |   |       |                 | Total consumption of materials<br>(Quantity) | Consumption of materials received from other establishments |                             | Materials made and consumed in same plant<br>(Quantity) | Total consumption of materials<br>(Quantity) | Consumption of materials received from other establishments |                             | Materials made and consumed in same plant<br>(Quantity) |
|      |   |       |                 |  | Quantity  | Delivered cost<br>(\$1,000) |   |  | Quantity  | Delivered cost<br>(\$1,000) |   |

(Column structure varies. Production and consumption is shown if important in the industry)

| Unit of measure | 1963     |                             | 1958     |                             |
|-----------------|----------|-----------------------------|----------|-----------------------------|
|                 | Quantity | Delivered cost<br>(\$1,000) | Quantity | Delivered cost<br>(\$1,000) |



CONTENTS OF VOLUME II, INDUSTRY STATISTICS—DATA ITEM GUIDE TO TABLES IN EACH CHAPTER

(Asterisk (\*) indicates historical data also shown)

A - GENERAL STATISTICS

| Item   | Industry chapters<br>Part 1 - 20A to 28G<br>Part 2 - 29A to 39D and 19A<br>by 4-digit industry- |                       |                      |                                  | 2-Digit major industry group<br>summary chapters<br>Part 1 - 20 to 28<br>Part 2 - 29 to 39 and 19 |         |  | General summary Chapter 1<br>Part 1 only |         |                    |                             |
|--|---|-----------------------|----------------------|----------------------------------|---|---------|--|--|---------|--------------------|-----------------------------|
|  | As a whole  | Division<br>and State | Employ-<br>ment size | Degree of<br>special-<br>ization | Industry  |         | Division<br>and<br>State (2-<br>and 3-<br>digit) | Industry as a whole                      |         |                    | Division,<br>State,<br>SMSA |
|  |   |                       |                      |                                  | 2-digit   | 3-digit |  | All manu-<br>facturers                   | 2-digit | 2-, 3-,<br>4 digit |                             |
| <b>ALL MANUFACTURING ESTABLISHMENTS</b>  |   |                       |                      |                                  |   |         |  |  |         |                    |                             |
| Companies (number).....  | 1*3   |                       |                      |                                  |   |         |  |  |         | 3                  |                             |
| Establishments, total (number).....  |   |                       |                      |                                  | 1*  |         |  | 3*                                       |         |                    | 7*                          |
| Employment size (number).....  |   |                       |                      |                                  | 1*  |         |  | 3*                                       |         |                    | 7*                          |
| All employees:   |   |                       |                      |                                  |   |         |  |  |         |                    |                             |
| Average for year (number).....   |   |                       |                      |                                  | 1*  |         |  | 3*                                       | 2*      |                    | 6* 7*                       |
| Payroll, total for year (\$1,000).....   |   |                       |                      |                                  | 1*  |         |  | 3*                                       | 2*      |                    | 6* 7*                       |
| <b>ADMINISTRATIVE OFFICES AND AUXILIARIES<br/>SERVING MANUFACTURING ESTABLISHMENTS</b>   |   |                       |                      |                                  |   |         |  |  |         |                    |                             |
| Establishments, total (number).....  |   |                       |                      |                                  | 1*  |         |  | 3  | 4       | 3                  |                             |
| Employment size (number).....  |   |                       |                      |                                  | 1*  |         |  | 3  |         | 3                  |                             |
| All employees:   |   |                       |                      |                                  |   |         |  |  |         |                    |                             |
| Average for year (number).....   |   |                       |                      |                                  | 1*  |         |  | 3*                                       | 2*4     | 3*                 | 6*                          |
| Payroll, total for year (\$1,000).....   |   |                       |                      |                                  | 1*  |         |  | 3*                                       | 2*4     | 3*                 | 6*                          |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS</b>  |   |                       |                      |                                  |   |         |  |  |         |                    |                             |
| Primary product specialization ratio.....  | 1*3 5A*   |                       |                      |                                  |   |         |  |  |         | 3                  |                             |
| Coverage ratio.....  | 1*3 5A*   |                       |                      |                                  |   |         |  |  |         | 3                  |                             |
| Establishments, total (number).....  | 1*3   | 2                     | 1 2 3 4              | 8                                | 1*  | 3       | 2  | 1*                                       | 5       | 3                  |                             |
| Employment size (number).....  | 1*3   | 2                     | 1 2 3 4              |                                  | 1*  | 3       | 2  | 1*                                       | 5       | 3                  |                             |
| Proprietors and working partners (number).....   | 3   |                       |                      |                                  |   | 3       |  | 1*                                       | 5       | 3                  |                             |
| All employees:   |   |                       |                      |                                  |   |         |  |  |         |                    |                             |
| Average for year (number).....   | 1*3   | 2*                    | 4                    | 8                                | 1*  | 3       | 2*   | 1*                                       | 2*5     | 3                  | 6*                          |
| Payroll, total for year (\$1,000).....   | 1*3   | 2                     | 4                    | 8                                | 1*  | 3       | 2  | 1*                                       | 2*5     | 3*                 | 6*                          |
| Production workers:  |   |                       |                      |                                  |   |         |  |  |         |                    |                             |
| Average for the year (number).....   | 1*3   | 2                     |                      | 8                                | 1*  | 3       | 2  | 1*                                       | 5       | 3                  | 7*                          |
| By specified month (number).....   | 3   |                       |                      |                                  |   | 3       |  |  | 5       |                    | 7*                          |
| Man-hours, total (1,000).....  | 1*3   | 2                     |                      | 8                                | 1*  | 3       | 2  | 1*                                       | 5       | 3                  | 7*                          |
| By quarter (1,000).....  | 3   |                       |                      |                                  |   | 3       |  |  | 5       |                    |                             |
| Wages (\$1,000).....   | 1*3   | 2                     |                      | 8                                | 1*  | 3       | 2  | 1*                                       | 5       | 3                  | 7*                          |
| Cost of materials, etc., total (\$1,000).....  | 1*3   | 2                     |                      | 8                                |   | 3       |  |  | 5       |                    |                             |
| Materials, parts, containers, and<br>supplies consumed (\$1,000).....                    | 3   |                       |                      |                                  |   | 3       |  |  | 5       |                    |                             |
| Cost of resales (\$1,000).....   | 3   |                       |                      |                                  |   | 3       |  |  | 5       |                    |                             |
| Fuels consumed (\$1,000).....  | 3   |                       |                      |                                  |   | 3       |  |  | 5       |                    |                             |
| Electric energy:   |   |                       |                      |                                  |   |         |  |  |         |                    |                             |
| Purchased:   |   |                       |                      |                                  |   |         |  |  |         |                    |                             |
| Quantity (million kw.-hrs.).....   | 3   | 7B                    |                      |                                  |   | 3       |  |  | 5       |                    |                             |
| Cost (\$1,000).....  | 3   | 7B                    |                      |                                  |   | 3       |  |  | 5       |                    |                             |
| Generated less sold (million kw.-hrs.).....  | 3   | 7B                    |                      |                                  |   | 3       |  |  | 5       |                    |                             |
| Contract work (\$1,000).....   | 3   |                       |                      |                                  |   | 3       |  |  | 5       |                    |                             |
| Value of shipments (including resales),<br>total (\$1,000).....                          | 1*3 5A* 5B  | 2                     | 4                    | 8                                |   | 3       |  |  | 5       | 3*                 |                             |
| Value of resales (\$1,000).....  | 3 5B  |                       |                      |                                  |   | 3       |  |  | 5       |                    |                             |
| Miscellaneous receipts and contract<br>work (\$1,000).....                               | 5A* 5B  |                       |                      |                                  |   |         |  |  |         |                    |                             |
| Value added by manufacture, adjusted<br>(\$1,000).....                                   | 1*3   | 2*                    | 4                    | 8                                | 1*  | 3       | 2*   | 1*                                       | 5       | 3*                 | 7*                          |
| Manufacturers' inventories:  |   |                       |                      |                                  |   |         |  |  |         |                    |                             |
| Beginning of year, total (\$1,000).....  | 3   |                       |                      |                                  |   | 3       |  |  | 5       | 3                  |                             |
| Finished products, work-in-process,<br>materials, supplies, fuel, etc.<br>(\$1,000)..... | 3   |                       |                      |                                  |   | 3       |  |  | 5       |                    |                             |
| End of year, total (\$1,000).....  | 3   |                       |                      |                                  |   | 3       |  |  | 5       | 3                  |                             |
| Finished products, work-in-process,<br>materials, supplies, fuel, etc.<br>(\$1,000)..... | 3   |                       |                      |                                  |   | 3       |  |  | 5       |                    |                             |
| Expenditures for plant and equipment,<br>total (\$1,000).....                            | 3   |                       |                      |                                  |   | 3       |  |  | 5       |                    |                             |
| New, total (\$1,000).....  | 1*3   | 2                     | 4                    | 8                                | 1*  | 3       | 2  | 1*                                       | 5       | 3*                 | 7*                          |
| New structures and additions to plant<br>(\$1,000).....                                  | 3   |                       |                      |                                  |   | 3       |  |  | 5       | 3                  |                             |
| New machinery and equipment (\$1,000).....   | 3   |                       |                      |                                  |   | 3       |  |  | 5       | 3                  |                             |
| Used plant and equipment (\$1,000).....  | 3   |                       |                      |                                  |   | 3       |  |  | 5       |                    |                             |



CONTENTS OF VOLUME II, INDUSTRY STATISTICS—DATA ITEM GUIDE TO TABLES IN EACH CHAPTER

(Asterisk (\*) indicates historical data also shown)

B - PRODUCTS AND MATERIALS

| Item  | Total |              | By industry of establishment | By area |
|---|-------|--------------|------------------------------|---------|
| 1. PRODUCTS (Appear in industry chapters 20A to 39D and 19A of the industry to which they are primary):   |       |              |                              |         |
| Individual products (7-digit):  |       |              |                              |         |
| Quantity and value of shipments (production and interplant transfers if important).....   | 6A*   |              |                              |         |
| Product classes (5-digit):  |       |              |                              |         |
| Value of shipments.....(\$1,000)...   | 6A*   | 6C*          | 5B                           | 6D*     |
| Quantity of shipments (for a limited number of product classes).....  | 6A*   | 6C*          |                              |         |
| Product groups (4-digit) value.....(\$1,000)...   | 6A*   |              | 5B                           |         |
| Indexes of production (4-digit and 5-digit).....  |       | 6B*          |                              |         |
| 2. RELATIONSHIP OF VALUE OF SHIPMENTS FOR 4-DIGIT INDUSTRIES AND PRODUCTS:  |       |              |                              |         |
| Industry shipments, total.....(\$1,000)...  | 1*    | 2 3 4 5A* 5B |                              | 8       |
| Primary products of industry.....(\$1,000)...   |       | 5A* 5B       |                              |         |
| Secondary products of industry.....(\$1,000)...   |       | 5A* 5B       |                              |         |
| Miscellaneous receipts of industry (Resales, contract receipts, installation work, etc. shown separately where significant).....(\$1,000)...                    |       |              | 5B                           |         |
| Specialization ratio (percent of industry shipments accounted for by primary products).....   | 1*    | 3 5A*        |                              |         |
| Coverage ratio (percent of primary products shipped by establishments in the industry).....   | 1*    | 3 5A*        |                              |         |
| 3. MATERIALS CONSUMED (shown according to industry of establishments consuming them):   |       |              |                              |         |
| Total cost.....(\$1,000)...   |       |              | 2 3                          | 8       |
| Specific materials, quantity and cost (produced and consumed shown where important).....  |       |              | 3                            | 7A*     |
| Electric energy, cost and quantity.....   |       |              | 3                            | 7B      |
| Fuels, total.....(\$1,000)...   |       |              | 3                            | 7B      |
| By type (coal, coke, oil, gas, etc.).....(\$1,000)...   |       |              | 3                            | 7B      |
| Cost of contract work.....(\$1,000)...  |       |              | 3                            |         |
| Cost of resales.....(\$1,000)...  |       |              | 3                            |         |
| 4. HORSEPOWER OF PRIME MOVERS.....  |       |              |                              | 7B      |
| 5. SPECIAL REPORTS (e.g., machinery in place, departmental operations, methods of distribution, etc.) appear in some industry chapters, usually as table 9..... |       |              |                              | 9       |



# Industry Chapter Descriptions

Chapters in this volume are coded to industries as classified in the Standard Industrial Classification (SIC) system. Pages are numbered with a chapter identification prefix; for example, the chapter on Weaving Mills in Major

Group 22 will begin on page 22A–1. The list below shows the prefix identification for each chapter and the SIC industries included under each title. Chapters for both parts of this volume are shown.

## PART I

### Major Group 20—FOOD AND KINDRED PRODUCTS

#### 20A Meat Products

- 2011 Meat slaughtering plants
- 2013 Meat processing plants
- 2015 Poultry dressing plants

#### 20B Dairies

- 2021 Creamery butter
- 2022 Natural and process cheese
- 2023 Condensed and evaporated milk
- 2024 Ice cream and frozen desserts
- 2026 Fluid milk

#### 20C Canned and Frozen Foods

- 2031 Canned and cured seafoods
- 2032 Canned specialties
- 2033 Canned fruits and vegetables
- 2034 Dehydrated foods products
- 2035 Pickles, sauces, salad dressings
- 2036 Fresh or frozen packaged fish
- 2037 Frozen fruits and vegetables

#### 20D Grain Mills

- 2041 Flour mills
- 2042 Prepared animal feeds
- 2043 Cereal preparations
- 2044 Rice milling
- 2045 Blended and prepared flour
- 2046 Wet corn milling

#### 20E Bakery Products

- 2051 Bread and related products
- 2052 Biscuit, crackers, and cookies

#### 20F Sugar and Confectionery Products

- 2061 Raw cane sugar
- 2062 Cane sugar refining
- 2063 Beet sugar
- 2071 Confectionery products
- 2072 Chocolate and cocoa products
- 2073 Chewing gum

#### 20G Beverages

- 2082 Malt liquors
- 2083 Malt
- 2084 Wines and brandy
- 2085 Distilled liquor, except brandy
- 2086 Bottled and canned soft drinks
- 2087 Flavorings

#### 20H Fats and Oils

- 2091 Cottonseed oil mills
- 2092 Soybean oil mills
- 2093 Vegetable oil mills, n.e.c.
- 2094 Animal and marine fats and oils
- 2096 Shortening and cooking oils

#### 20I Miscellaneous Food Products

- 2095 Roasted coffee
- 2097 Manufactured ice
- 2098 Macaroni and spaghetti
- 2099 Food preparations, n.e.c.

### Major Group 21—TOBACCO MANUFACTURES

#### 21A Tobacco Products

- 2111 Cigarettes
- 2121 Cigars
- 2131 Chewing and smoking tobacco
- 2141 Tobacco stemming and redrying

### Major Group 22—TEXTILE MILL PRODUCTS

#### 22A Weaving Mills

- 2211 Weaving mills, cotton
- 2221 Weaving mills, synthetics
- 2231 Weaving, finishing mills, wool
- 2241 Narrow fabric mills

#### 22B Knitting Mills

- 2251 Women's hosiery, except socks
- 2252 Hosiery, n.e.c.
- 2253 Knit outerwear mills
- 2254 Knit underwear mills
- 2256 Knit fabric mills
- 2259 Knitting mills, n.e.c.

#### 22C Dyeing and Finishing Textiles, Except Wool Fabrics and Knit Goods

- 2261 Finishing plants, cotton
- 2262 Finishing plants, synthetic
- 2269 Finishing plants, n.e.c.

#### 22D Floor Covering Mills

- 2271 Woven carpets and rugs
- 2272 Tufted carpets and rugs
- 2279 Carpets and rugs, n.e.c.

#### 22E Yarn and Thread Mills

- 2281 Yarn mills, except wool
- 2282 Throwing and winding mills
- 2283 Wool yarn mills
- 2284 Thread mills

#### 22F Miscellaneous Textile Goods

- 2291 Felt goods, n.e.c.
- 2292 Lace goods
- 2293 Padding and upholstery filling
- 2294 Processed textile waste
- 2295 Coated fabric, not rubberized
- 2296 Tire cord and fabric
- 2297 Scouring and combing plants

2298 Cordage and twine  
2299 Textile goods, n.e.c.

2491 Wood preserving  
2499 Wood products, n.e.c.

### Major Group 23—APPAREL AND RELATED PRODUCTS

#### 23A Men's and Boys' Apparel

2311 Men's and boys' suits and coats  
2321 Men's dress shirts and nightwear  
2322 Men's and boys' underwear  
2323 Men's and boys' neckwear  
2327 Separate trousers  
2328 Work clothing  
2329 Men's and boys' clothing, n.e.c.

#### 23B Women's and Misses' Outerwear

2331 Blouses  
2335 Dresses  
2337 Women's suits, coats, and skirts  
2339 Women's outerwear, n.e.c.

#### 23C Women's and Children's Underwear; Headwear; Children's Outerwear

2341 Women's and children's underwear  
2342 Corsets and allied garments  
2351 Millinery  
2352 Hats and caps  
2361 Children's dresses and blouses  
2363 Children's coats and suits  
2369 Children's outerwear, n.e.c.

#### 23D Miscellaneous Apparel and Accessories

2371 Fur goods  
2381 Fabric dress and work gloves  
2384 Robes and dressing gowns  
2385 Waterproof outer garments  
2386 Leather and sheeplined clothing  
2387 Apparel belts  
2389 Apparel, n.e.c.

#### 23E Miscellaneous Fabricated Textile Products

2391 Curtains and draperies  
2392 Housefurnishings, n.e.c.  
2393 Textile bags  
2394 Canvas products  
2395 Pleating and stitching  
2396 Apparel findings  
2397 Schiffl machine embroideries  
2399 Textile products, n.e.c.

### Major Group 24—LUMBER AND WOOD PRODUCTS

#### 24A Logging Camps, Sawmills and Planing Mills

2411 Logging camps and contractors  
2421 Sawmills and planing mills  
2426 Hardwood dimension and flooring  
2429 Special product sawmills, n.e.c.

#### 24B Millwork, Plywood and Prefabricated Structural Wood Products

2431 Millwork plants  
2432 Veneer and plywood plants  
2433 Prefabricated wood products

#### 24C Wooden Containers and Miscellaneous Wood Products

2441 Nailed wooden boxes and shooK  
2442 Wirebound boxes and crates  
2443 Veneer and plywood containers  
2445 Cooperage

### Major Group 25—FURNITURE AND FIXTURES

#### 25A Household Furniture

2511 Wood furniture, not upholstered  
2512 Wood furniture, upholstered  
2514 Metal household furniture  
2515 Mattresses and bedsprings  
2519 Household furniture, n.e.c.

#### 25B Office, Public Building, Office and Store Fixtures and Miscellaneous Furniture

2521 Wood office furniture  
2522 Metal office furniture  
2531 Public building furniture  
2541 Wood partitions and fixtures  
2542 Metal partitions and fixtures  
2591 Venetian blinds and shades  
2599 Furniture and fixtures, n.e.c.

### Major Group 26—PAPER AND ALLIED PRODUCTS

#### 26A Pulp, Paper, and Board Mills

2611 Pulp mills  
2621 Paper mills, except building  
2631 Paperboard mills  
2661 Building paper and board mills

#### 26B Converted Paper and Paperboard Products, Except Containers and Boxes

2641 Paper coating and glazing  
2642 Envelopes  
2643 Bags, except textile bags  
2644 Wallpaper  
2645 Die cut paper and board  
2646 Pressed and molded pulp goods  
2647 Sanitary paper products  
2649 Converted paper products, n.e.c.

#### 26C Paperboard Containers and Boxes

2651 Folding paperboard boxes  
2652 Set-up paperboard boxes  
2653 Corrugated shipping containers  
2654 Sanitary food containers  
2655 Fiber cans, tubes, drums, etc.

### Major Group 27—PRINTING AND PUBLISHING

#### 27A Newspaper, Periodicals, Books, and Miscellaneous Publishing

2711 Newspapers  
2721 Periodicals  
2731 Books, publishing and printing  
2732 Book printing  
2741 Miscellaneous publishing

#### 27B Commercial Printing and Manifold Business Forms

2751 Printing, except lithographic (letterpress, gravure, and screen)  
2752 Printing, lithographic  
2753 Engraving and plate printing  
2761 Manifold business forms



**27C Greeting Cards, Bookbinding, and Service Industries**

- 2771 Greeting card manufacturing
- 2782 Blankbooks: looseleaf binders
- 2789 Bookbinding and related work
- 2791 Typesetting
- 2793 Photoengraving
- 2794 Electrotyping and stereotyping

**Major Group 28—CHEMICALS AND ALLIED PRODUCTS**

**28A Industrial Inorganic and Organic Chemicals**

- 2812 Alkalies and chlorine
- 2813 Industrial gases
- 2814 Cyclic (coal tar) crudes
- 2815 Intermediate coal tar products
- 2816 Inorganic pigments
- 2818 Organic chemicals, n.e.c.
- 2819 Inorganic chemicals, n.e.c.

**28B Plastics Materials, Synthetic Rubber, and Man-Made Fibers**

- 2821 Plastics materials and resins
- 2822 Synthetic rubber
- 2823 Cellulosic man-made fibers
- 2824 Organic fibers, noncellulosic

**28C Drugs**

- 2831 Biological products
- 2833 Medicinals and botanicals
- 2834 Pharmaceutical preparations

**28D Cleaning and Toilet Products**

- 2841 Soap and other detergents
- 2842 Polishes and sanitation goods
- 2843 Surface active agents
- 2844 Toilet preparations

**28E Paints and Allied Products and Gum and Wood Chemicals**

- 2851 Paints and allied products
- 2861 Gum and wood chemicals

**28F Agricultural Chemicals**

- 2871 Fertilizers
- 2872 Fertilizers, mixing only
- 2879 Agricultural chemicals, n.e.c.

**28G Miscellaneous Chemical Products**

- 2891 Glue and gelatin
- 2892 Explosives
- 2893 Printing Ink
- 2895 Carbon black
- 2899 Chemical preparations, n.e.c.

**PART II**

**Major Group 29—PETROLEUM AND COAL PRODUCTS**

**29A Petroleum Refining and Related Industries**

- 2911 Petroleum refining
- 2951 Paving mixtures and blocks
- 2952 Asphalt felts and coatings
- 2992 Lubricating oils and greases
- 2999 Petroleum and coal products, n.e.c.

**Major Group 30—RUBBER AND PLASTICS PRODUCTS, N.E.C.**

**30A Rubber and Miscellaneous Plastics Products**

- 3011 Tires and inner tubes
- 3021 Rubber footwear
- 3031 Reclaimed rubber
- 3069 Rubber products, n.e.c.
- 3079 Plastics products, n.e.c.

**Major Group 31—LEATHER AND LEATHER PRODUCTS**

**31A Tanning; Footwear; Industrial Leather Goods**

- 3111 Leather tanning and finishing
- 3121 Industrial leather belting
- 3131 Footwear cut stock
- 3141 Shoes, except rubber
- 3142 House slippers

**31B Leather Gloves; Luggage; and Miscellaneous Leather Goods**

- 3151 Leather gloves
- 3161 Luggage
- 3171 Handbags and purses
- 3172 Small leather goods
- 3199 Leather goods, n.e.c.

**Major Group 32—STONE, CLAY, AND GLASS PRODUCTS**

**32A Glass Products**

- 3211 Flat glass
- 3221 Glass containers
- 3229 Pressed and blown glass, n.e.c.
- 3231 Products of purchased glass

**32B Cement and Structural Clay Products**

- 3241 Cement, hydraulic
- 3251 Brick and structural tile
- 3253 Ceramic wall and floor tile
- 3255 Clay refractories
- 3259 Structural clay products, n.e.c.

**32C Pottery and Related Products**

- 3261 Vitreous plumbing fixtures
- 3262 Vitreous china food utensils
- 3263 Fine earthenware food utensils
- 3264 Porcelain electrical supplies
- 3269 Pottery products, n.e.c.

**32D Concrete, Plaster, and Cut Stone Products**

- 3271 Concrete block and brick
- 3272 Other concrete products
- 3273 Ready mixed concrete
- 3274 Lime
- 3275 Gypsum products
- 3281 Cut stone and stone products

**32E Abrasive, Asbestos, and Miscellaneous Nonmetallic Mineral Products**

- 3291 Abrasive products
- 3292 Asbestos products
- 3293 Gaskets and insulations
- 3295 Minerals, ground or treated
- 3296 Mineral wool
- 3297 Nonclay refractories
- 3299 Nonmetallic products, n.e.c.



Major Group 33—PRIMARY METAL INDUSTRIES

- 33A Blast Furnaces, Steel Works, and Rolling and Finishing Mills**  
3312 Blast furnaces and steel mills  
3313 Electrometallurgical products  
3315 Steel wire drawing, etc.  
3316 Cold finishing of steel shapes  
3317 Steel pipe and tube
- 33B Iron and Steel Foundries**  
3321 Gray iron foundries  
3322 Malleable iron foundries  
3323 Steel foundries
- 33C Smelting and Refining of Nonferrous Metals and Alloys**  
3331 Primary copper  
3332 Primary lead  
3333 Primary zinc  
3334 Primary aluminum  
3339 Primary nonferrous metals, n.e.c.  
3341 Secondary nonferrous metals
- 33D Nonferrous Metal Mill and Foundry Products**  
3351 Copper rolling and drawing  
3352 Aluminum rolling and drawing  
3356 Rolling and drawing, n.e.c.  
3357 Nonferrous wire drawing, etc.  
3361 Aluminum castings  
3362 Brass, bronze, copper castings  
3369 Nonferrous castings, n.e.c.
- 33E Forgings and Miscellaneous Primary Metal Industries**  
3391 Iron and steel forgings  
3392 Nonferrous forgings  
3399 Primary metal industries, n.e.c.

Major Group 34—FABRICATED METAL PRODUCTS

- 34A Metal Cans, Cutlery, Hand Tools, and General Hardware**  
3411 Metal cans  
3421 Cutlery  
3423 Hand and edge tools  
3425 Hand saws and saw blades  
3429 Hardware, n.e.c.
- 34B Heating Apparatus, Except Electric, and Plumbing Fixtures**  
3431 Metal Plumbing fixtures  
3432 Plumbing fittings, brass goods  
3433 Heating equipment, except electric
- 34C Fabricated Structural Metal Products**  
3441 Fabricated structural steel  
3442 Metal doors, sash, and trim  
3443 Boiler shop products  
3444 Sheet metal work  
3446 Architectural metal work  
3449 Miscellaneous metal work, n.e.c.
- 34D Screw Machine Products, Bolts, Metal Stampings, and Metal Services**  
3451 Screw machine products  
3452 Bolts, nuts, rivets, and washers  
3461 Metal stampings  
3471 Plating and polishing  
3479 Metal coating, engraving, etc.

- 34E Fabricated Metal Products, N.E.C.**  
3481 Fabricated wire products, n.e.c.  
3491 Metal barrels, drums, and pails  
3492 Safes and vaults  
3493 Steel springs  
3494 Valves and pipe fittings  
3496 Collapsible tubes  
3497 Metal foil and leaf  
3498 Fabricated pipe and fittings  
3499 Fabricated metal products, n.e.c.

Major Group 35—MACHINERY, EXCEPT ELECTRICAL

- 35A Engines and Turbines and Farm Machinery and Equipment**  
3511 Steam engines and turbines  
3519 Internal combustion engines  
3522 Farm machinery and equipment
- 35B Construction, Mining, and Materials Handling Machinery and Equipment**  
3531 Construction machinery  
3532 Mining machinery and equipment  
3533 Oil field machinery  
3534 Elevators and moving stairways  
3535 Conveyors  
3536 Hoists, cranes, and monorails  
3537 Industrial trucks and tractors
- 35C Metalworking Machinery and Equipment**  
3541 Metal-cutting machine tools  
3542 Metal-forming machine tools  
3544 Special dies and tools  
3545 Machine tool accessories  
3548 Metalworking machinery, n.e.c.
- 35D Special Industry Machinery, Except Metalworking Machinery**  
3551 Food products machinery  
3552 Textile machinery  
3553 Woodworking machinery  
3554 Paper industries machinery  
3555 Printing trades machinery  
3559 Special industry machines, n.e.c.
- 35E General Industrial Machinery and Equipment**  
3561 Pumps and compressors  
3562 Ball and roller bearings  
3564 Blowers and fans  
3565 Industrial patterns  
3566 Power transmission equipment  
3567 Industrial furnaces and ovens  
3569 General industry machines, n.e.c.
- 35F Office, Computing, and Accounting Machines**  
3571 Computing and related machines  
3572 Typewriters  
3576 Scales and balances  
3579 Office machines, n.e.c.
- 35G Service Industry Machines and Machine Shops**  
3581 Automatic vending machines  
3582 Commercial laundry equipment  
3585 Refrigeration machinery  
3586 Measuring and dispensing pumps  
3589 Service industry machines, n.e.c.  
3599 Miscellaneous machinery

Major Group 36—ELECTRICAL MACHINERY

**36A Electrical Transmission, Distribution, and Industrial Apparatus**

- 3611 Electric measuring instruments
- 3612 Transformers
- 3613 Switchgear and switchboards
- 3621 Motors and generators
- 3622 Industrial controls
- 3623 Electric welding apparatus
- 3624 Carbon and graphite products
- 3629 Electric industrial goods, n.e.c.

**36B Household Appliances**

- 3631 Household cooking equipment
- 3632 Household refrigerators
- 3633 Household laundry equipment
- 3634 Electric housewares and fans
- 3635 Household vacuum cleaners
- 3636 Sewing machines
- 3639 Household appliances, n.e.c.

**36C Electric Lighting and Wiring Equipment**

- 3641 Electric lamps
- 3642 Lighting fixtures
- 3643 Current carrying devices
- 3644 Noncurrent carrying devices

**36D Communication Equipment, Including Radio and TV, and Electron Components and Accessories**

- 3651 Radio and TV receiving sets
- 3652 Phonograph records
- 3661 Telephone; telegraph apparatus
- 3662 Radio, TV communications equipment
- 3671 Electron tubes, receiving type
- 3672 Cathode ray picture tubes
- 3673 Electron tubes, transmitting
- 3674 Semiconductors
- 3679 Electronic components, n.e.c.

**36E Miscellaneous Electrical Machinery, Equipment and Supplies**

- 3691 Storage batteries
- 3692 Primary batteries, dry and wet
- 3693 X-ray apparatus and tubes
- 3694 Engine electrical equipment
- 3699 Electrical products, n.e.c.

Major Group 37—TRANSPORTATION EQUIPMENT

**37A Motor Vehicles and Equipment**

- 3713 Truck and bus bodies
- 3715 Truck trailers
- 3717 Motor vehicles and parts

**37B Aircraft and Parts**

- 3721 Aircraft
- 3722 Aircraft engines and parts
- 3723 Aircraft propellers and parts
- 3729 Aircraft equipment, n.e.c.

**37C Ship and Boat Building, Railroad and Miscellaneous Transportation Equipment**

- 3731 Ship building and repairing
- 3732 Boat building and repairing
- 3741 Locomotives and parts
- 3742 Railroad and street cars
- 3751 Motorcycles, bicycles, and parts
- 3791 Trailer coaches
- 3799 Transportation equipment, n.e.c.

Major Group 38—INSTRUMENTS AND RELATED PRODUCTS

**38A Instruments; Surgical, Dental and Ophthalmic Goods**

- 3811 Scientific instruments
- 3821 Mechanical measuring devices
- 3822 Automatic temperature controls
- 3831 Optical instruments and lenses
- 3841 Surgical and medical instruments
- 3842 Surgical appliances and supplies
- 3843 Dental equipment and supplies
- 3851 Ophthalmic goods

**38B Photographic Equipment; Clocks, Watches and Watchcases**

- 3861 Photographic equipment
- 3871 Watches and clocks
- 3872 Watchcases

Major Group 39—MISCELLANEOUS MANUFACTURING

**39A Jewelry, Silverware, and Plated Ware**

- 3911 Jewelry, precious metal
- 3912 Jewelers' findings and materials
- 3913 Lapidary work
- 3914 Silverware and plated ware

**39B Musical Instruments and Parts; Toys, and Sporting and Athletic Goods**

- 3931 Musical instruments and parts
- 3941 Games and toys
- 3942 Dolls
- 3943 Children's vehicles
- 3949 Sporting and athletic goods

**39C Office Supplies, Costume Jewelry and Miscellaneous Notions**

- 3951 Pens and mechanical pencils
- 3952 Lead pencils and art goods
- 3953 Marking devices
- 3955 Carbon paper and inked ribbons
- 3961 Costume jewelry
- 3962 Artificial flowers
- 3963 Buttons
- 3964 Needles, pins, and fasteners

**39D Miscellaneous Manufacturing Industries**

- 3981 Brooms and brushes
- 3982 Hard surface floor coverings
- 3983 Matches
- 3984 Candles
- 3987 Lamp shades
- 3988 Morticians' goods
- 3992 Furs, dressed and dyed
- 3993 Signs and advertising displays
- 3995 Umbrellas, parasols, and canes
- 3999 Miscellaneous products, n.e.c.

Major Group 19—ORDNANCE AND ACCESSORIES

**19A Ordnance and Accessories**

- 1911 Guns, howitzers, and mortars
- 1925 Complete guided missiles
- 1929 Ammunition, n.e.c.
- 1931 Tanks and tank components
- 1941 Sighting and fire control equipment
- 1951 Small arms, 30 mm, and under
- 1961 Small arms ammunition
- 1999 Ordnance and accessories, n.e.c.





# Introduction

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## I. GENERAL

### 1. ROLE OF THE CENSUS OF MANUFACTURES

The census of manufactures provides a detailed profile of the largest sector of the American economy. That census obtains, from every manufacturing plant with one employee or more, information on its input of labor and materials, its output of products, its location, and the legal form of organization of the owning firm. This information is obtained in sufficient detail to permit its classification by industry, by size of plant, by the homogeneity of its output and, where desirable, by type of operation, extent of vertical integration, kind of equipment, relationship to other plants of the same firm, and other characteristics.

The census of manufactures is conducted simultaneously with the censuses of mineral industries, wholesale and retail trade and selected services, and transportation.<sup>1</sup> This has facilitated the statistical coverage of the entire range of activities of most enterprises and a consequent improvement in the capability of the Bureau of the Census to deal effectively with the statistical problems of identifying establishments which support manufacturing activity, such as central administrative offices, auxiliaries, and sales branches; and to classify entire enterprises into industrial categories.

<sup>1</sup>The 1963 censuses covered the United States, Guam, and the Virgin Islands. Separate censuses of manufactures and business for 1963 were also conducted in Puerto Rico jointly with the Commonwealth Government. The statistics from 1958 onward include establishments in Alaska and Hawaii which achieved statehood in 1959.

15. Materials
16. Products
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19. Duplication in Cost of Materials and Value of Products
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29. Abbreviations

General statistics information (i.e., total employment, payroll, production-worker employment, man-hours, wages, cost of materials, value of shipments, inventories, capital expenditures, and value added by manufacture) from the census of manufactures is published by industry, by area, by employment size of establishment, by degree of product specialization within plant, and by type of ownership. Information is supplied on the detailed industrial characteristics of each State and large standard metropolitan statistical area (SMSA); overall measures of manufacturing activity are shown at the county and individual city level down to cities of 10,000 or more population. This information constitutes a periodic inventory of the Nation's manufacturing economy that provides a benchmark for measuring the changes in that structure.

The census of manufactures also provides a benchmark from which more frequent surveys can be developed on a scientific sample basis. In fact, the present legislation specifying that censuses be conducted every 5 years authorizes an annual survey of manufactures on a sample basis during the intervening years. At the end of each 5-year census, a new sample is drawn relying on the overall characteristics described by the census itself. The sample, constituting about one-fifth of the establishments but with complete coverage of all large ones, provides an annual updating of the census of manufactures in terms of broad measures of economic activity. It provides the same basic measures of economic activity of the plant such as employment, payrolls, value of shipments, value added by manufacture, as does the census of manufactures, but contains

less detailed information on products, materials consumption, and equipment.<sup>2</sup>

The census of manufactures not only is a benchmark for many of the surveys conducted by the Census Bureau itself on a more frequent basis but also is the means of updating other important indicators of the economic activity. It provides very important information on the manufacturing segment used in the national income accounts. Census data on materials consumed and product output are basic to the manufactures sector of the input-output studies of the Office of Business Economics. The information derived from the census of manufactures is also used by the Federal Reserve Board in cooperation with the Census Bureau to develop indexes of industrial production for census years. This index is used as a benchmark for the monthly Federal Reserve Index of Industrial Production—a key monthly indicator of current economic activity.

<sup>2</sup> Since the annual survey of manufactures is a sample, the cross-classifications by industry and by area are fewer than in the census of manufactures. At the U.S. level, statistics are published in the annual survey for practically all of the 425 industries. However, at the State and SMSA levels, statistics are published only for 3-digit and 2-digit industry groupings, respectively. At the county level, information is published for about 10 percent of the 3,000 counties. These 300-odd counties are the larger ones in terms of manufacturing activity and account for about 80 percent of total manufacturing employment. No information is published at the city level.

The concurrent collection of comparable data on wholesale and retail trades, selected services, manufacturing, and minerals in the censuses beginning with 1954 has permitted the Census Bureau to develop its Enterprise Statistics Program, which relates census company-level data to the establishment data. Thus, a measurement of the integration and diversification of the American enterprise system becomes available. Likewise, through the Enterprise Statistics Program, it is possible to link census establishment-based data on a modified basis to other statistical systems such as the Internal Revenue Service's "Statistics of Income" for corporations.

## 2. ECONOMIC SIGNIFICANCE OF MANUFACTURING SECTOR

Manufacturing is the largest sector in the country's economy. In 1963, manufacturing establishments employed approximately 17 million persons of a civilian labor force of 75 million. During the 35-year period, 1929 to 1963, income originating in manufacturing has averaged 30 percent of national income (see table A). Wholesale and retail trade, the next largest sector, averaged about 15 percent.

The need for frequent and comprehensive statistics on manufactures derives as

TABLE A. National Income, Total and Amounts Originating in Durable and Nondurable Manufactures, for Selected Years

(Dollar values in billions)

| Year      | National income | National income originating in-- |                             |                          |   |  |
|-----------|-----------------|----------------------------------|-----------------------------|--------------------------|---|--|
|           |                 | Manufacturing                    |                             |                          | Manufacturing as a percent of national income | Durable goods industries as a percent of total manufacturing |
|           |                 | Total                            | Nondurable goods industries | Durable goods industries |   |  |
| 1963..... | 481.9           | 143.8                            | 57.5                        | 86.3                     | 30  | 60   |
| 1962..... | 457.7           | 137.0                            | 55.6                        | 81.4                     | 30  | 59   |
| 1961..... | 427.3           | 125.1                            | 52.8                        | 72.3                     | 29  | 58   |
| 1960..... | 414.5           | 125.8                            | 52.2                        | 73.6                     | 30  | 59   |
| 1959..... | 400.0           | 124.0                            | 51.1                        | 72.9                     | 31  | 59   |
| 1958..... | 367.8           | 107.7                            | 45.7                        | 62.0                     | 29  | 58   |
| 1957..... | 366.1           | 116.3                            | 46.4                        | 69.9                     | 32  | 60   |
| 1956..... | 350.8           | 113.1                            | 46.2                        | 66.8                     | 32  | 59   |
| 1955..... | 331.0           | 107.9                            | 44.0                        | 63.8                     | 33  | 59   |
| 1954..... | 303.1           | 94.6                             | 39.7                        | 54.0                     | 31  | 58   |
| 1953..... | 304.7           | 100.4                            | 40.3                        | 60.1                     | 33  | 60   |
| 1952..... | 291.4           | 92.5                             | 38.2                        | 54.3                     | 32  | 59   |
| 1951..... | 278.0           | 90.2                             | 38.4                        | 51.8                     | 32  | 57   |
| 1950..... | 241.1           | 76.2                             | 33.3                        | 42.9                     | 32  | 56   |
| 1949..... | 217.5           | 64.8                             | 30.5                        | 34.2                     | 30  | 53   |
| 1947..... | 199.0           | 59.5                             | 28.0                        | 31.5                     | 30  | 53   |
| 1943..... | 170.3           | 58.3                             | 19.6                        | 38.6                     | 34  | 66   |
| 1939..... | 72.6            | 18.1                             | 9.1                         | 9.0                      | 25  | 50   |
| 1935..... | 57.2            | 13.4                             | 7.3                         | 6.1                      | 23  | 46   |
| 1933..... | 40.3            | 7.7                              | 4.9                         | 2.8                      | 19  | 36   |
| 1932..... | 42.8            | 7.3                              | 5.2                         | 2.1                      | 17  | 29   |
| 1929..... | 86.8            | 21.9                             | 10.6                        | 11.3                     | 25  | 52   |

Source: Survey of Current Business, August 1965, pp. 42-45, and July 1966, p. 15.



TABLE B. National Income by Industry Division for Selected Years

| Industry                                   | 1929  | 1933  | 1939  | 1947  | 1954  | 1958  | 1963  |
|--|-------|-------|-------|-------|-------|-------|-------|
| In billions of dollars                     |       |       |       |       |       |       |       |
| All industries, total.....                 | 86.8  | 40.3  | 72.6  | 199.0 | 303.1 | 367.8 | 481.9 |
| Manufacturing.....                         | 21.9  | 7.7   | 18.1  | 59.5  | 94.6  | 107.8 | 143.8 |
| Nondurable goods.....                      | 10.6  | 4.9   | 9.1   | 28.0  | 39.7  | 45.7  | 57.5  |
| Durable goods.....                         | 11.3  | 2.8   | 9.0   | 31.5  | 54.9  | 62.0  | 86.3  |
| Wholesale and retail trade.....            | 13.5  | 5.6   | 12.6  | 37.6  | 48.3  | 58.2  | 73.3  |
| Government and government enterprises..... | 5.1   | 5.3   | 8.5   | 18.7  | 36.1  | 46.9  | 64.8  |
| Services.....                              | 8.8   | 5.1   | 7.6   | 18.1  | 27.8  | 38.4  | 54.1  |
| Finance, insurance, and real estate.....   | 12.8  | 5.9   | 8.0   | 16.1  | 32.0  | 40.9  | 53.6  |
| Contract construction.....                 | 3.8   | 0.8   | 2.3   | 8.4   | 15.6  | 19.0  | 24.1  |
| Transportation.....                        | 6.6   | 3.0   | 4.6   | 11.6  | 14.6  | 16.6  | 20.0  |
| Agriculture, forestry, and fisheries.....  | 8.5   | 3.9   | 6.0   | 18.9  | 16.4  | 18.0  | 18.6  |
| Electric, gas and sanitary services.....   | 1.6   | 1.3   | 1.8   | 2.8   | 5.9   | 7.4   | 10.3  |
| Communication.....                         | 1.1   | 0.7   | 1.1   | 2.3   | 5.1   | 7.0   | 9.8   |
| Mining.....                                | 2.1   | 0.6   | 1.6   | 4.2   | 5.3   | 5.7   | 6.0   |
| Rest of the world.....                     | 0.8   | 0.3   | 0.3   | 0.8   | 1.6   | 2.0   | 3.4   |
| Percent of total                           |       |       |       |       |       |       |       |
| All industries, total.....                 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 | 100.0 |
| Manufacturing.....                         | 25.2  | 19.1  | 24.9  | 29.8  | 31.2  | 29.2  | 29.8  |
| Nondurable goods.....                      | 12.2  | 12.2  | 12.5  | 14.0  | 13.0  | 12.4  | 12.0  |
| Durable goods.....                         | 13.0  | 6.8   | 12.4  | 15.8  | 18.1  | 16.8  | 17.8  |
| Wholesale and retail trade.....            | 15.5  | 13.9  | 17.3  | 18.8  | 15.9  | 15.8  | 15.2  |
| Government and government enterprises..... | 5.8   | 13.2  | 11.7  | 9.3   | 11.9  | 12.7  | 13.4  |
| Services.....                              | 10.1  | 12.7  | 10.4  | 9.0   | 9.1   | 10.4  | 11.2  |
| Finance, insurance, and real estate.....   | 14.7  | 14.5  | 11.0  | 8.1   | 10.5  | 11.1  | 11.0  |
| Contract construction.....                 | 4.4   | 1.9   | 3.2   | 4.2   | 5.1   | 5.1   | 5.0   |
| Transportation.....                        | 7.6   | 7.5   | 6.3   | 5.8   | 4.8   | 4.5   | 4.2   |
| Agriculture, forestry, and fisheries.....  | 9.7   | 9.6   | 8.3   | 9.4   | 5.4   | 4.8   | 3.8   |
| Electric, gas and sanitary services.....   | 1.8   | 3.1   | 2.4   | 1.4   | 1.9   | 2.0   | 2.1   |
| Communication.....                         | 1.2   | 1.7   | 1.4   | 1.1   | 1.6   | 1.9   | 2.0   |
| Mining.....                                | 2.4   | 1.5   | 2.2   | 2.1   | 1.7   | 1.5   | 1.2   |
| Rest of the world.....                     | 0.9   | 0.8   | 0.4   | 0.4   | 0.5   | 0.5   | 0.6   |

Source: Survey of Current Business, August 1965, pp. 42-45 and July 1966, p. 15.

much from its sensitivity to cyclical influences as from its relative size. Cyclical changes in income originating in manufacturing tend to be relatively larger than in the economy as a whole.

Within manufacturing, durable goods industries accounted for about 57 percent of all manufactures for that period. However, they tend to be more volatile than nondurable goods, accounting for a smaller percentage of all manufactures during periods of contraction and a larger percentage during periods of expansion. Of the census years since 1919, only 1925, 1935, 1939, 1947, and 1963 have not included some part of a period of contraction and a consequent underrepresentation of durable goods in the total. (See table B.)

#### Geographic Location of Manufactures.—

The preponderance of manufacturing in the United States is predominantly in the Northeast as is shown in table C, page 4. Over the years, however, there has been a shift to the South and West.

#### Size Distribution of Manufacturing Plants.—

Most manufacturing establishments require a substantial amount of capital and ordinarily a considerable volume of business for efficient operation. While there are many small plants, they account for relatively little of the Nation's production. Thus, as shown in table D, half the plants have less than 10 employees but they account for only 3 percent of the value added by manufacture.

### 3. EARLIER CENSUSES

The census of manufactures for 1963 is the 27th such census for the United States. The first census of manufactures covered 1809 and, with the exception of 1829, a census was taken at 10-year intervals in connection with the decennial census of population up to and including 1899. It was conducted at 5-year intervals from 1904 through 1919, and every other year from 1921 through 1939. The census was suspended during World War II, but it was resumed for 1947. Legislation enacted in 1948 provided for a census every 5 years, cov-



TABLE C. Operating Manufacturing Establishments Employment by Divisions and as a Percent of the United States  
Total for Selected Years

| Geographic division          | Employment<br>(1,000) | Percent | Employment<br>(1,000) | Percent | Employment<br>(1,000) | Percent |
|------------------------------|-----------------------|---------|-----------------------|---------|-----------------------|---------|
|                              | 1963                  |         | 1958                  |         | 1947                  |         |
| United States,<br>total..... | 16,234                | 100.0   | 15,423                | 100.0   | 14,294                | 100.0   |
| New England.....             | 1,379                 | 8.5     | 1,360                 | 8.8     | 1,475                 | 10.3    |
| Middle Atlantic.....         | 3,811                 | 23.5    | 3,882                 | 25.2    | 3,954                 | 27.7    |
| East North Central.....      | 4,264                 | 26.3    | 4,084                 | 26.5    | 4,323                 | 30.2    |
| West North Central.....      | 975                   | 6.0     | 933                   | 6.0     | 786                   | 5.5     |
| South Atlantic.....          | 2,068                 | 12.7    | 1,844                 | 12.0    | 1,524                 | 10.7    |
| East South Central.....      | 874                   | 5.4     | 767                   | 5.0     | 635                   | 4.5     |
| West South Central.....      | 838                   | 5.2     | 771                   | 5.0     | 551                   | 3.9     |
| Mountain.....                | 279                   | 1.7     | 225                   | 1.5     | 140                   | 1.0     |
| Pacific.....                 | 1,746                 | 10.8    | 1,554                 | 10.1    | 914                   | 6.4     |
|                              | 1939                  |         | 1929                  |         | 1899                  |         |
| United States,<br>total..... | 9,527                 | 100.0   | 10,198                | 100.0   | 5,077                 | 100.0   |
| New England.....             | 1,121                 | 11.8    | 1,246                 | 12.2    | 897                   | 17.7    |
| Middle Atlantic.....         | 2,758                 | 29.0    | 3,003                 | 29.4    | 1,732                 | 34.1    |
| East North Central.....      | 2,693                 | 28.3    | 2,949                 | 28.9    | 1,177                 | 23.2    |
| West North Central.....      | 491                   | 5.2     | 567                   | 5.6     | 297                   | 5.8     |
| South Atlantic.....          | 1,111                 | 11.7    | 1,000                 | 9.8     | 483                   | 9.5     |
| East South Central.....      | 410                   | 4.3     | 417                   | 4.1     | 188                   | 3.7     |
| West South Central.....      | 331                   | 3.5     | 341                   | 3.3     | 122                   | 2.5     |
| Mountain.....                | 89                    | 0.9     | 119                   | 1.2     | 48                    | 1.0     |
| Pacific.....                 | 523                   | 5.5     | 556                   | 5.5     | 133                   | 2.6     |

Note: Detailed figures may not add to totals because of independent rounding.

ering the years ending in "3" and "8," and authorized an annual sample survey for interim years.<sup>3</sup> An annual survey of manufactures has been conducted for the intercensal years beginning with 1949 and is a continuing part of the Bureau's program. Table 1, General Summary, provides national totals for manufactures for the censuses and annual surveys since 1849.

The census of manufactures was the public's only source of reliable statistical information on manufactures during the 19th century. During the current century, particularly since the first world war, more frequent statistical series on many aspects of manufactures have been developed. However, the census of manufactures continues to play an essential

<sup>3</sup>The census originally scheduled to cover 1953 was conducted for 1954 on the basis of special legislation authorizing this change. A census covering 1958 and this census covering 1963 were conducted under the legislation of 1948. In an effort to spread its workload more evenly over the decennial period, the Bureau of the Census, in 1964, asked for and obtained legislation (P.L. 88-532) specifying that subsequent censuses of manufactures would cover the years ending in "2" and "7." Consequently, the next census of manufactures is scheduled for 1967.

role in the Nation's statistical program, since it remains the only source of comprehensive information on the detailed industrial and geo-

TABLE D. Cumulative Percentage of Number of Manufacturing Establishments and Value Added by Manufacture by Size Class 1963

| Size class                            | Number of<br>establish-<br>ments | Value added<br>by manufac-<br>ture |
|---------------------------------------|----------------------------------|------------------------------------|
| All establishments.....               | 100.0                            | 100.0                              |
| Establishments with an average<br>of— |                                  |                                    |
| 1 to 4 employees.....                 | 36.5                             | 1.1                                |
| 5 to 9 employees.....                 | 52.3                             | 2.7                                |
| 10 to 19 employees.....               | 67.6                             | 5.9                                |
| 20 to 49 employees.....               | 83.0                             | 13.3                               |
| 50 to 99 employees.....               | 90.5                             | 21.5                               |
| 100 to 249 employees.....             | 96.2                             | 36.5                               |
| 250 to 499 employees.....             | 98.4                             | 49.8                               |
| 500 to 999 employees.....             | 99.4                             | 63.0                               |
| 1,000 to 2,499 employees.....         | 99.8                             | 78.2                               |
| 2,500 employees and over.....         | 100.0                            | 100.0                              |

graphical structure of the manufacturing sector which is closely comparable over long periods of time.

#### 4. DEFINITION OF MANUFACTURING

Manufacturing is the mechanical or chemical transformation of inorganic or organic substances into new products. The assembly of component parts of products is also considered to be manufacturing if the resulting product is neither a structure nor other fixed improvement. These activities are usually carried on in plants, factories, or mills, which characteristically use power-driven machines and materials-handling equipment.

Manufacturing production is usually carried on for the wholesale market, for transfer to other plants of the same company, or to the order of industrial users rather than for direct sale to the household consumer. However, some manufacturers (e.g., baking, milk bottling, etc.) sell chiefly at retail to household consumers through the mail, through house-to-house routes, or through salesmen. Some activities of a service nature (enameling, binding, platemaking, etc.) are included in manufacturing when they are performed primarily for the trade; but they are considered nonmanufacturing when they are performed primarily to the order of the household consumer. On the other hand, some manufacturing industries include business firms which do not undertake physical production but perform only the entrepreneurial functions of buying the materials, designing, and marketing the product, and have the actual production done on contract (e.g., apparel jobbers).

In addition to the production of goods and manufacturing services, manufacturing plants engage in related and diverse supporting activities. These activities encompass the acquisition of materials to be processed, their movement into the manufacturing facility, their storage at the manufacturing site, the operation and maintenance of plant and equipment, the design of flow of work through the production process, and necessary arrangements for shipment of output to customers. Also included are a host of subsidiary activities associated with the conduct of the establishment as a manufacturing entity; e.g., management and policy formation, product and market orientation, engineering and quality control, record-keeping and accounting, physical security of plant and equipment, and the like. Such subsidiary activities may be performed by personnel located at the manufacturing facility or at an auxiliary unit serving one or more manufacturing locations of the same company. Where these activities are carried on at a different physical location or are performed for more than one plant, they are excluded from the figures for operating manufacturing establishments and are included in the data shown for

central administrative offices and auxiliaries (see sections 8 (form NC-X6) and 11 of the text).

The following types of activities, while having many of the characteristics usually found in manufacturing, are considered as nonmanufacturing and, therefore, are excluded from the census:

(a) Processing on farms when the raw materials are grown on the farm and the manufacturing activities (poultry dressing, milk and butter production, logging) are on a small scale without extensive use of paid labor. Also custom milling, cotton ginning, egg hatching, and similar activities closely associated with agriculture are excluded.

(b) Mineral preparation such as the crushing, screening, and concentrating of ores. However, mining performed as a secondary activity in conjunction with manufacturing is included in the census; for example, stone and clay mining at cement, lime, and clay products plants.

(c) Custom work to the individual order of household consumers. Examples are custom tailoring, wood-working, lettering on monuments, setting of diamonds, and the making of orthopedic appliances.

(d) Repair and other service activities, except specified services performed "for the trade." Repair shops of railroads are also excluded.

(e) Production of coke for own use by establishments owned by public utility companies.

On the other hand, the census of manufactures excludes manufacturing at locations which are not primarily manufacturing plants: (1) Manufacturing by retail establishments which sell most of their products on the premises directly to household consumers, e.g., retail bakeries, ice cream stores, and feed stores; (2) manufacturing by construction contractors at the site, e.g., production of paving mixtures; and (3) manufacturing by educational, eleemosynary, and penal institutions.

Conversely, it is not unusual for manufacturing establishments to engage also in nonmanufacturing activities such as repair work, merchandising of products without further processing, and installation work. Ordinarily, these nonmanufacturing receipts are small in relation to the manufacturing activities and, therefore, it is not difficult to determine that the establishments should be included in the manufactures area. However, if the nonmanufacturing activities account for a significant proportion of total receipts of an establishment, the classification of that establishment



into the appropriate major economic sector is more difficult.

In the 1963 economic censuses, an establishment engaged in a combination of manufacturing and merchandising was assigned either to the manufacturing or the trade industries depending on which of these activities was estimated to account for the larger share of its "value added" or "income produced." This criterion, even though based on an approximation, was considered preferable to reported dollar volume of receipts from each type of activity in determining the primary industry, since manufacturing requires considerably more man-hours, salaries and wages, and other inputs per dollar of receipts than either wholesaling or retailing. However, in classifying establishments engaged in manufacturing and also in mining, repair work, installation, construction or other nonmanufacturing services, dollar receipts were used as the basis of classification because these activities require substantially comparable inputs per dollar of receipts.

Data were obtained on the manufacturing activities during 1963 of establishments owned and operated by the Federal Government (military arsenals, Navy yards, etc.) and of Federal and State prisons for the purpose of presenting complete information on manufacturing operations in the United States. Statistics on the employment, value added by manufacture, and products manufactured by the Department of Defense establishments and the quantity and value of products made in Federal and State prisons are shown in a separate chapter in each manufactures volume. These data are not included in any of the individual industry or industry group totals or area statistics appearing in the census of manufactures volumes. However, information on government-owned, privately operated establishments is included throughout the statistical tables in the appropriate industry on the same basis as privately owned and operated plants.

## 5. THE STANDARD INDUSTRIAL CLASSIFICATION (SIC)

The specific industry coding and groupings in the 1963 Census of Manufactures follow the structure of the *Standard Industrial Classification Manual*, published by the Bureau of the Budget. This manual, which is a classification structure for the entire national economy, was first issued in 1939.<sup>4</sup> In the

<sup>4</sup> For the manufacturing industries, a revised manual was issued in 1945 which, with minor modifications, was used in the 1947 Census of Manufactures. For the 1954 census, the classification structure used in 1947 was again employed, again with minor modifications. In 1957, the SIC system was extensively revised for manufacturing industries and historical comparability of some data was seriously affected. This revision and its effects on census series are described in the introduction and appendixes to the 1958 census volumes. A minor revision of the SIC between 1958 and 1963 introduced some 4-digit industry changes but none of them crossed 3-digit group lines. Also, there were some amendments in industry titles, definitions, and index items, and additions to the index items in the SIC Manual.

manufacturing sector, the manual built upon the Bureau of the Census manufacturing industry classifications developed over the years. The SIC was developed for use in classifying establishments by type of activity in which they are engaged in order to facilitate the collection, tabulation, and publication of data relating to establishments and to promote uniformity and comparability in the presentation of statistical data by government agencies, trade associations, research organizations, and others.

The SIC divides all activities into broad industrial divisions (manufacturing, mining, retail trade, agriculture, etc.). It further subdivides each division into major industry groups, then into industry groups, and finally into detailed industries. The numbering system provides flexibility, permitting use of classification at various levels of detail according to the specific needs and uses desired. Employing a decimal system of coding, the Major Industry Group is assigned two digits (Major Group 20 for Food and Kindred Products), the Industry Group, three digits (Group 201 for Meat Products), and the industry, four digits (Industry 2011 for Meat Packing Plants). Thus, for each 4-digit industry, it is possible to identify the Industry Group to which it belongs by the first three digits of its code and, by its first two digits, the Major Industry Group. For the manufacturing division, the 21 2-digit SIC Major Groups (19 to 39) are subdivided into 149 3-digit SIC Groups (191 to 398) and into 427 4-digit industries (1911 to 3999). While the SIC contains 427 industries, the Bureau of the Census combines three industries in the automotive area into one, for a total of 425 industries.

Most of the 425 manufacturing industries are defined in terms of a specific group of related products. Usually, the products are made of similar materials and by similar processes, and are competitive. In determining the boundaries of product-defined industries,<sup>5</sup> it is essential that each industry comprise a group of establishments whose output of products defining the industry (primary products) accounts for a relatively high proportion of the total shipments of the industry as well as of the total shipments of these primary products by establishments in all manufacturing industries. Some industries are defined in terms of the processes or equipment used regardless of the final product of the establishment. A small number of industries are basically defined by material used as well as final product of the plant.

<sup>5</sup> Frequently the business world and other data users look at a group of products from more than one point of view. For example, modern high-speed computers are classified as office machines. This describes the purpose of the product. In a physical sense, however, such computers would be described as electronic devices. Similarly, paper bags, wooden boxes, glass bottles, tin cans, and steel barrels may all be classified as containers or they may be individually grouped with other products of similar materials such as converted paper products, wood products, glass products, etc.



There are wide differences among industries in the extent to which the establishments classified in the industry (a) account for the total production of commodities "primary" to the industry, (b) produce products or services "belonging" to other industries (i.e., secondary products), and (c) use similar materials or processes. (See sections 15, 16, 18, and 24). While these variations are frequently construed to be shortcomings, the fact is that the limitations observed in the classification structure arise from the inherent complexity of our economic system and from the disparity in the methods of production among the individual producing units of which it is comprised. The data collected in the census of manufactures provide a statistical basis for a critical evaluation of the classification system; i.e., for assessing the boundaries between industries, the growth and decline of industries, and the impact of technological change on the classification of industries. Consequently, the census is the primary instrument for effecting revisions in the SIC manufacturing sector.<sup>6</sup>

No general-purpose system of industrial classification can hope to satisfy all users of census data. Some business users will be interested primarily in data relating only to themselves and to their competitors in the production of a narrow range of products; others will wish data relating to all products, including complementary and substitutable products, competing in a particular market; others may wish data relating to the consumers of one or more types of materials. Some may be interested only in the data for plants producing a specific product; others only for those plants producing a "full line" of products. The large number of SIC industries provides the analyst with the "building blocks" for obtaining useful approximations, if not "clean" data, relevant to many of these problems. But, at best, a single general-purpose system of classification can satisfy these diverse needs only partially; a point is soon reached beyond which the adaptation of a system to serve one use somewhat better will reduce its ability, often disproportionately, to serve an alternative use.

Accordingly, users of data frequently regroup detailed SIC industries into broad groupings along lines different from those in the SIC 2- and 3-digit categories. The Federal Reserve Board for many years has made combinations to stress such criteria as durable, nondurable, consumers, producers, finished, intermediate goods, etc. Other public and private agencies also recombine the detailed classes. By and large, the 4-digit industries are susceptible to allocation to such categories, while the 2-digit SIC groups are not.

<sup>6</sup> See *Industry Classification and Sector Measures of Industrial Production* by James W. McKie, Bureau of the Census Working Paper No. 20, 1965. and *Historical Comparability of Census of Manufactures Industries, 1929-1958* by Harold T. Goldstein, Bureau of the Census Working Paper No. 9, 1959.

To increase the usefulness or improve the editing of the data, the Census Bureau frequently has further classified the basic 4-digit SIC industries into "subindustries." This device is employed where there are wide disparities in the operating ratios of the plants in the industry because of differences in the degree of intraplant vertical integration, technology, methods of distribution, geographic location, types of materials used, etc. This technique was used for about 65 manufacturing industries for editing purposes and many were regarded as sufficiently significant to be used for publication: For example, the bakery industry (SIC 2051) is subdivided into wholesale bakeries, chain-store bakeries, home-service bakeries, and retail multi-outlet bakeries; many apparel industries (Group 23) are subclassified into manufacturers, contractors, jobbers; the lumber industry (2421) by degree of integration, etc.

To provide a further measurement of variations within 4-digit industries, the Bureau also subclassifies establishments by the degree to which they produce the primary products or specific classes of primary products of the 4-digit industry. This is in effect a subindustry classification based on degree of product specialization. (See section 24 for a more complete discussion of product specialization data.)

## 6. ESTABLISHMENT BASIS OF REPORTING

The census of manufactures is conducted on an establishment basis. That is, a company operating establishments at more than one location is required to submit a report for each location; also, a company engaged in distinctly different lines of activity at one location is required to submit separate reports if the plant records permit such a separation and if the activities are substantial in size.

Census tabulations of establishment reports, therefore, differ substantially from those prepared on a company basis; i.e., from consolidated reports which combine various types of activities at different locations (thereby yielding a net sales figure for the industry exclusive of interplant transfers but making meaningful geographic tabulations of employment and value added impossible). These consolidated reports also include nonmanufacturing activities of companies primarily engaged in manufacturing. Census figures will also differ to some extent from other tabulations based on establishment reports where the definition of an establishment, as to location and line of activity, is not applied in the same manner.

The requirement that distinct lines of activity at the same location be separately reported was selectively applied where the establishment produced and shipped significant amounts of products classified in different SIC



industries. In widely varying degrees, this product overlap exists in many manufacturing establishments. Generally, the amounts involved are not of serious proportion so that the filing of separate reports would not be warranted as a practical matter, even if feasible. However, there are a number of locations at which large numbers of employees are engaged in each of two or more distinct lines of manufacturing as defined in the SIC. Frequently, companies organize their operations and their records separately where diverse activities are large and choose to report them as separate plants. When they do not do so on their own initiative, the Census Bureau requests separate reports. For the most part, companies have responded favorably, particularly for very large operations where failure to "split out" the different activities would significantly distort the relationship of the industry and product statistics. Not infrequently, though, the two groups of products were made on the same production lines by many of the same employees and could not be distinguished sufficiently in the companies' records to provide establishment-type reporting.

SIC industry definitions take account of special situations where otherwise separately classifiable activities are frequently combined at one location. For example, in the lumber area the definition of industry 2421, Sawmills and Planing Mills, General, recognizes the situation that sawmills may include logging operations. Similarly, in the pulp and paper area, pulp mills operated in combination with paper mills are included in one report.

In 1963 and 1958, as in earlier years, a minimum size limit was set for including establishments in the census. Reports were required from all establishments employing one or more persons at any time during the census year. The same size limitation has applied since 1947 in censuses and annual surveys of manufactures. In the 1939 and earlier censuses, establishments with less than \$5,000 value of products were excluded. The change in the minimum size limit in 1947 has not appreciably affected the historical comparability of earlier census figures except for data on number of establishments for a few industries.

A special study of manufacturing plants with no employees in 1958 was made to analyze the amount of manufacturing activity conducted by these very small establishments. While there were over 50,000 manufacturing establishments in this category in that year, they had only about one-quarter of 1 percent of the total value of shipments of all manufacturing.

The SIC coding system operates in such a way that the definitions become progressively narrower with successive additions of numerical digits. At one extreme are

the 21 very broad 2-digit groups and at the other about 10,000 individual 7-digit products. In between are approximately 150 3-digit groups, 425 4-digit industries, and 1,100 5-digit product classes. The 7-digit products and 5-digit product classes are considered the primary products of the industry with the same first four digits as the product code. Accordingly, an establishment is classified in a particular industry if its production of the primary products of that industry exceeds in value its production of products of any other single industry. The industry code assigned to the establishments is derived from a summation of values for 7-digit product codes to their 4-digit industry and the selection of the largest such value as the establishment's industry classification. However as mentioned earlier, the industry classification of an establishment may be determined not only by the products it makes but also by the processes employed or materials used in making those products.

While some establishments produce only the primary products of the industry in which they are classified, it rarely happens that all the establishments in an industry specialize to this extent. Therefore, the general statistics (employment, payrolls, inventories, value added by manufacture, total value of shipments, capital expenditures, etc.) shown for an industry (tables 1 to 4 of the industry chapters in Volume II) reflect not only the primary activities of the establishments in that industry but also their activities of a secondary nature. The product statistics in table 6 of the industry chapters represent the total output of specific products whether they are produced by establishments classified in the same industry as the product or not. For this reason, in relating the industry statistics in the industry chapters, especially the industry total value of shipments (tables 1 to 4), to the product statistics (table 6), the composition of the industry's output as shown in tables 5A and 5B should be considered.

The extent to which industry and product statistics may be matched with each other is measured by the two ratios which are computed from these tables 5A and 5B. The first of the ratios, called the primary product specialization ratio, describes the proportion of product shipments (both primary and secondary) of the industry represented by primary products. The second, defined as the coverage ratio, is the proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

In many industries, establishments making products falling into the same industry category use a wide variety of processes and materials to produce them. Also, within the same industry classification based on end products, may be included those establishments which are vertically integrated and those

which put only the finishing touches on an already highly fabricated purchased item. For example, in the refrigeration industry, there are instances of almost complete process integration in which the production of the compressor and condensing unit, electric motor, and even the castings for those intermediate products, as well as the stamping of the case and the final assembly, are all carried on at one plant. In other plants, the condensing unit, the motor, and the case may be purchased and merely assembled into the finished product.

In some instances, nonintegrated plants have been placed in separate industry categories from the integrated plants. In many industries, the census provides separate statistics on departmental operations or on the production of intermediate commodities made and used in the producing plant. When an industry includes plants which ship a significant proportion of their output to other plants of the same company, separate figures are usually shown on the interplant transfers.

These differences in the integration of production processes, types of operations, and types of materials used should be taken into account when relating the general items (employment, payrolls, value added, etc.) to the product and materials data. For those industries where the integrated type of operations is of consequence, that fact is pointed out in the explanatory text for the industry.

In many industries, there are some large plants with a product-mix such that the value of secondary products is as large as or larger than the value of primary products. In the Annual Survey of Manufactures (ASM), these plants are prevented from shifting back and forth among industries because of only minor shifts in products by the application of a "resistance formula" in assigning industry classifications.

The formula gives approximately equal weight to the need for statistical measurement of change in an industry and the measurement of an industry's status at a point in time.

The resistance technique for large establishments was introduced for the first time in the quinquennial census in 1963 and was applied to certainty cases in the ASM panel for 1963.

The 1963 industrial classification of an ASM plant with 100 employees or more was allowed change from that assigned in 1962 where—

- (1) The new primary activity constituted 60 percent or more of its total value of shipments, or
- (2) The new primary activity, while less than 60 percent, was at least twice as great as the old primary activity in the current year, or

- (3) The new primary activity, if it did not meet either of the first two conditions, exceeded the old primary activity by at least 20 percent in both the current and the preceding year.

Where the establishment's industry classification coded in the "annual survey" manner differed from that developed independently from the 1963 census report, the annual survey code took precedence, except where additional census tests not available in the annual survey justified the census code (e.g., type of materials consumed, type of operations, special inquiries).

## 7. GEOGRAPHIC AREAS

**Census Regions, Divisions, and States.—**For over a century, the Census Bureau has presented data for States and major sections of the United States related not only by geographic proximity but also by similarities of agriculture, industry, and social characteristics. Since the 1909 Census of Manufactures, the present nine Census geographic divisions have been used. Beginning with the 1939 census, the nine divisions were grouped further into four broad geographic regions: Northeast, South, North Central, and West.

Not only are these State groupings convenient for the summary presentation of data below the U.S. level, but they are essential to presenting a maximum of geographic information for those individual industries in which application of the census disclosure law precludes the publication of individual State data. (See the discussion in section 28, Confidentiality of Data for Individual Companies.) The relative importance of manufacturing among the States and divisions is shown in table E.

In Volume III, Area Statistics, industry detail is shown wherever possible under the rules of confidentiality at the regional, State, county, and standard metropolitan statistical area (SMSA) levels, in addition to the all-manufacturing totals. The level of industry detail shown for each area is as follows:

State—2-, 3-, and 4-digit industry detail;

County—2- and 3-digit industry totals, but only for those industry groups which have 500 employees or more in the industry group in the county;

City—information only at the all-manufacturing level for cities of 10,000 or more population according to the 1960 Census of Population or later special censuses conducted by the Bureau of the Census.

**Standard Metropolitan Statistical Areas.—**The SMSA's for which data are shown are those defined by the Bureau of the Budget



TABLE E. Value Added by Manufacture, Adjusted, by Divisions and States: 1963 and 1958

(Value in millions of dollars)

| Division and State           | 1963                                 |         | 1958                                 |         | Division and State            | 1963                                 |         | 1958                                 |         |
|------------------------------|--------------------------------------|---------|--------------------------------------|---------|-------------------------------|--------------------------------------|---------|--------------------------------------|---------|
|                              | Value added by manufacture, adjusted | Percent | Value added by manufacture, adjusted | Percent |                               | Value added by manufacture, adjusted | Percent | Value added by manufacture, adjusted | Percent |
| United States, total.....    | 192,103                              | 100     | 141,541                              | 100     | South Atlantic--<br>Continued |                                      |         |                                      |         |
| New England.....             | 13,589                               | 7.1     | 10,440                               | 7.4     | Virginia.....                 | 3,046                                | 1.6     | 2,123                                | 1.5     |
| Maine.....                   | 786                                  | 0.4     | 628                                  | 0.4     | West Virginia....             | 1,887                                | 1.0     | 1,269                                | 0.9     |
| New Hampshire....            | 636                                  | 0.3     | 491                                  | 0.4     | North Carolina...             | 4,567                                | 2.4     | 3,078                                | 2.2     |
| Vermont.....                 | 309                                  | 0.2     | 236                                  | 0.2     | South Carolina...             | 2,111                                | 1.1     | 1,360                                | 1.0     |
| Massachusetts....            | 6,404                                | 3.3     | 5,128                                | 3.6     | Georgia.....                  | 3,254                                | 1.7     | 2,102                                | 1.5     |
| Rhode Island....             | 959                                  | 0.5     | 756                                  | 0.5     | Florida.....                  | 2,352                                | 1.2     | 1,411                                | 1.0     |
| Connecticut.....             | 4,496                                | 2.3     | 3,200                                | 2.3     | East South Central.           | 9,383                                | 4.9     | 6,389                                | 4.5     |
| Middle Atlantic....          | 43,560                               | 22.7    | 34,814                               | 24.6    | Kentucky.....                 | 2,548                                | 1.3     | 1,769                                | 1.2     |
| New York.....                | 19,559                               | 10.2    | 15,892                               | 11.2    | Tennessee.....                | 3,303                                | 1.7     | 2,207                                | 1.6     |
| New Jersey.....              | 9,957                                | 5.2     | 7,500                                | 5.3     | Alabama.....                  | 2,515                                | 1.3     | 1,770                                | 1.3     |
| Pennsylvania....             | 14,044                               | 7.3     | 11,423                               | 8.1     | Mississippi.....              | 1,017                                | 0.5     | 642                                  | 0.5     |
| East North Central.          | 56,326                               | 29.3    | 40,962                               | 28.9    | West South Central.           | 10,942                               | 5.7     | 7,791                                | 5.5     |
| Ohio.....                    | 15,506                               | 8.1     | 11,472                               | 8.1     | Arkansas.....                 | 961                                  | 0.5     | 592                                  | 0.4     |
| Indiana.....                 | 7,727                                | 3.7     | 5,502                                | 3.9     | Louisiana.....                | 1,916                                | 1.0     | 1,430                                | 1.0     |
| Illinois.....                | 14,640                               | 7.6     | 11,664                               | 8.2     | Oklahoma.....                 | 979                                  | 0.5     | 725                                  | 0.5     |
| Michigan.....                | 13,090                               | 6.8     | 8,364                                | 5.9     | Texas.....                    | 7,086                                | 3.7     | 5,045                                | 3.5     |
| Wisconsin.....               | 5,363                                | 2.8     | 3,960                                | 2.8     | Mountain.....                 | 3,472                                | 1.8     | 2,244                                | 1.6     |
| West North Central.          | 11,809                               | 6.1     | 8,870                                | 6.3     | Montana.....                  | 236                                  | 0.1     | 191                                  | 0.1     |
| Minnesota.....               | 2,806                                | 1.5     | 2,050                                | 1.4     | Idaho.....                    | 366                                  | 0.2     | 256                                  | 0.2     |
| Iowa.....                    | 2,287                                | 1.2     | 1,684                                | 1.2     | Wyoming.....                  | 82                                   | 0.1     | 63                                   | 0.1     |
| Missouri.....                | 4,296                                | 2.2     | 3,251                                | 2.3     | Colorado.....                 | 1,194                                | 0.6     | 782                                  | 0.5     |
| North Dakota....             | 72                                   | 0.1     | 63                                   | 0.1     | New Mexico.....               | 150                                  | 0.1     | 108                                  | 0.1     |
| South Dakota....             | 140                                  | 0.1     | 114                                  | 0.1     | Arizona.....                  | 627                                  | 0.3     | 360                                  | 0.2     |
| Nebraska.....                | 747                                  | 0.4     | 536                                  | 0.4     | Utah.....                     | 711                                  | 0.4     | 417                                  | 0.3     |
| Kansas.....                  | 1,460                                | 0.8     | 1,171                                | 0.8     | Nevada.....                   | 106                                  | 0.1     | 68                                   | 0.1     |
| South Atlantic....           | 21,134                               | 11.0    | 14,355                               | 10.1    | Pacific.....                  | 22,112                               | 11.5    | 15,666                               | 11.1    |
| Delaware.....                | 658                                  | 0.3     | 420                                  | 0.3     | Washington.....               | 3,029                                | 1.6     | 2,167                                | 1.5     |
| Maryland.....                | 3,001                                | 1.6     | 2,394                                | 1.7     | Oregon.....                   | 1,575                                | 0.8     | 1,222                                | 0.9     |
| District of<br>Columbia..... | 257                                  | 0.1     | 198                                  | 0.1     | California.....               | 17,163                               | 8.9     | 12,048                               | 8.5     |
|                              |                                      |         |                                      |         | Alaska.....                   | 85                                   | 0.1     | 65                                   | 0.1     |
|                              |                                      |         |                                      |         | Hawaii.....                   | 261                                  | 0.1     | 165                                  | 0.1     |

Note: Detailed figures may not add to the totals because of independent rounding.

in 1964.<sup>7</sup> An SMSA is a county or group of contiguous counties (except in New England) which contains at least one central city of 50,000 inhabitants or more or "twin cities" with a combined population of at least 50,000. In addition to the county or counties, containing such a city or cities, contiguous counties are included in an SMSA if, according to certain criteria, they are essentially metropolitan in character and are socially and economically integrated with the central city. In New England, towns and cities rather than counties are the units used in defining an SMSA. Thus an area may contain not only highly industrialized counties but also adjoining counties which, though primarily residential in character, con-

tribute significantly to the industrial counties' labor force and are socially and economically integrated with the central city.

Each SMSA is designated by the name of the principal city of the area. In addition to the name of the principal city, the area title may include one or two additional city names.

Industry group (2- and 3-digit) statistics as well as all-manufacturing totals are published for SMSA's with 40,000 to 190,000 manufacturing employees. Detailed industry (4-digit) statistics are published for SMSA's with more than 190,000 employees. These industry statistics for each area are presented in table 6 in the report for each State. There are 75 SMSA's with more than 40,000 employees, and 15 with more than 190,000.

<sup>7</sup> Executive Office of the President, Bureau of the Budget, *Standard Metropolitan Statistical Areas, 1964*.

#### **Assignment of Geographic Area Codes.—**

In the census of manufactures, as in the entire economic census, each individual establishment (plant) was assigned a geographic code that indicated the State, the county, and the city in which it was located. Most manufacturing activities require a permanent structure and fixed equipment so that the location of a plant usually can be specified with little or no ambiguity. Plants which straddle boundary lines are classified as located within the more populous of the two areas in which some part of the plant is located.

In previous censuses, the geographic code was assigned manually to every report after a clerical review of the physical location reported by the respondent. In 1963, the report form was precoded by high-speed electronic equipment prior to mailing through the use of an extensive file of addresses classified by place. Only those reports which indicated differences between the mailing address and the reported physical location were manually coded after receipt.

### **8. THE CENSUS REPORT FORMS**

The diversity of manufacturing activities in the United States made it necessary to use about 200 different report forms to collect information on the products shipped and materials used by the 425 manufacturing industries. In order to obtain the data essential to the census in a manner consistent with cost considerations and reportability by the respondent, it was decided to require detail information only from larger plants. For the numerous smaller plants, typically having less detailed records and representing a very minor portion of manufacturing activity, data requirements were limited to a relatively few key items on a series of short forms. All plants in the annual survey of manufactures sample reported on standard forms irrespective of their employment size. Using the administrative records of the Social Security Administration in conjunction with existing Bureau of the Census records, it was possible to determine correctly, in most cases, the specific questionnaire each manufacturing establishment should receive.

Information was obtained on all 1963 report forms regarding the physical location, Social Security employer identification number, company affiliation, and legal form of ownership. These kinds of information were necessary to assure control over the completeness of coverage (see section 9, Development of the Mailing List), and also permitted the classification of each establishment by geographic location and type of organization. (See section 26, Special Reports.)

**Standard Forms.—**All ASM establishments and all of the larger non-annual survey establishments received the standard (long) form which contained the full census detail.

Each standard form called for the same general items regardless of the industry: Total employment, total payrolls, production-worker employment and man-hours by quarter, production-worker wages, material costs, value of shipments, fuel and electric energy costs, inventories by type, and capital expenditures by type. However, the forms differed in the detailed inquiries on the quantity and value of products shipped and the quantity and cost of individual materials consumed. There were also miscellaneous inquiries such as type of operation and equipment used, departmental inquiries, special details on delivery operations, etc., that were unique to an individual industry or industry groups.

Information on the gross book value of total fixed assets in place (structures and equipment combined) at the end of 1962 and at the end of 1963, and on rental expenditures for buildings and for equipment during 1963 was requested of establishments in the 1963 Annual Survey of Manufactures sample panel. This special information will be published beginning with the 1964 Annual Survey of Manufactures.

**Short Forms.—**A short form was mailed to establishments with less than 6 employees except in a few industries where it was sent to those with less than 10 employees. This form required considerably less detail; e.g., total employment and payrolls without any detail on production workers, cost of materials as a grand total, and value of shipments in terms of broad classes of products. No information was requested on inventories or capital expenditures.

However, for the few industries in which small plants account for a significant proportion of the total value of shipments or employment, special modifications were made to collect some detail on the individual products shipped and less frequently on the types of materials used. These industries consisted of logging and sawmills, concrete products, dairy products, meat products, and several printing and publishing industries.

**Form MA-101, Manufacturing Plants Under Construction During 1963.—**This form was designed to obtain data on capital expenditures by large manufacturing firms for new plants under construction during 1963 but not yet in operation at the end of the year. It was mailed to all multiestablishment companies with 250 employees or more. It was also mailed to any other company which indicated on one of its establishment report forms, in a special check-box section, that it had a plant under construction but not yet in operation. Each such plant was coded geographically and to a 4-digit industry from the description given of its expected activity. The information obtained on form MA-101 was integrated into



new capital expenditures figures in all tables of the 1963 Census of Manufactures. (For further discussion, see section 22, Expenditures for Plant and Equipment.)

**Form NC-X6, Central Administrative Offices and Auxiliary Establishments.**—Separate reports were required from each multi-establishment company which indicated that it was operating a separate central administrative office or auxiliary (i.e., a warehouse, a research laboratory, a garage, a repair shop, etc.) serving one or more of its operating establishments. Each auxiliary establishment for which a report on form NC-X6 was submitted was classified as to the nature of the activity it performed and as to the 2-digit industry category of the establishment(s) which it primarily served. The form requested information on employment as of March 15 and payrolls for the year, as well as a percentage breakdown of its employment total, by the type of activity that the employees were performing—administrative work, research and development work, warehousing, direct selling, etc. In addition to this information, the report form also collected data on the total sales that were made for the company from the central office or auxiliary, the cost of research and development work done, value of inventories held, and the capital expenditures for structures and equipment.

The information on the central administrative offices (CAO) and auxiliaries has been tabulated separately and appears as part of the Census Bureau's report, *Enterprise Statistics 1963, Part 2, Central Administrative Offices and Auxiliaries*. In that publication, information will appear not only by 2-digit industry of the establishments served but also by type of function performed and industry category of owning company. In the census of manufactures, the employment and payrolls of central administrative offices and auxiliaries serving manufacturing have been added to the

figures for operating establishments into the State, county, standard metropolitan statistical area, and city all-manufacturing totals. Whenever industry detail is provided, the employment and payroll at the central administrative offices and auxiliaries appear as a separate 2-digit industry category at the end of the list of industries. In the manufacturing sector, in 1963, there were approximately 5,300 such establishments which accounted for 726 thousand employees with payrolls of \$6.6 billion, representing 4 percent and 7 percent, respectively, of the totals of all manufacturing employment and payrolls. It should be noted also that employment of CAO's has been increasing more rapidly than employment of operating establishments, partially the result of the tendency of larger companies to centralize operations formerly carried on a decentralized basis at each plant. (See table F.)

**Other Related Forms in the 1963 Economic Censuses:**

**Form NC-KL, Company Summary Report Form.**—This form requested, for the consolidated company, information on payrolls, employment, sales or receipts, inventories, capital expenditures, value of assets, and rental payments. It was restricted to companies with 250 employees or more in the industries included in the economic censuses.

Based on information filed on the establishment reports of the multiestablishment companies, the entire company was classified into 1 of 179 enterprise industry categories developed by grouping the Standard Industrial Classification industries. A special report, *Enterprise Statistics, 1963, Part 1, General Report on Industrial Organization*, provides tables showing the characteristics and diversification of these multiestablishment companies as derived from the information on census establishment reports.

TABLE F. Comparison of Employment and Payrolls at Operating Manufacturing Establishments and Central Administrative Offices and Other Auxiliaries Serving Them

| Period               | Operating establishments |                               | Central administrative offices and auxiliaries <sup>1</sup> |                               |                                    |          |
|----------------------|--------------------------|-------------------------------|---|-------------------------------|------------------------------------|----------|
|                      | Employees<br>(1,000)     | Payrolls<br>(billion dollars) | Employees<br>(1,000)  | Payrolls<br>(billion dollars) | As a percent of total <sup>1</sup> |          |
|                      |                          |                               |   |                               | Employees                          | Payrolls |
| 1963.....            | 16,234                   | 93.3                          | 726   | 6.6                           | 4.3                                | 6.6      |
| 1958.....            | 15,423                   | 73.9                          | 602   | 4.5                           | 3.8                                | 5.7      |
| 1954.....            | 15,645                   | 63.0                          | 453   | 2.9                           | 2.8                                | 4.4      |
| Percentage increase: |                          |                               |   |                               |                                    |          |
| 1958 to 1963.....    | 6                        | 26                            | 20  | 47                            | (X)                                | (X)      |
| 1954 to 1958.....    | -1                       | 17                            | 33  | 54                            | (X)                                | (X)      |

X Not applicable.

<sup>1</sup>The total is the sum of operating establishments plus auxiliaries.



*Form CB-51, Wholesale Sales Branches and Sales Offices of Manufacturing Companies.*—As part of the census of business, information was collected on the sales branches and sales offices of manufacturing companies. In addition to figures on employment and payrolls, these forms requested information on inventories held at and sales, by merchandise line, from these locations. The merchandise lines in the census of business for these wholesale branches and offices are very similar to the classes of products used in the manufacturing area. The totals of the two areas cannot be directly compared inasmuch as the sales from the sales branches and offices include products which were bought and resold as well as those of the company's own manufacture.

*Special Surveys Relating to the 1963 Census of Manufactures.*—In addition to the information collected on the standard 1963 census of business, manufactures, and mineral industries forms, additional information was collected on special survey forms. The census of manufactures publications also contain the data collected in these various special but related surveys, as described below. The publications, described below, appear as chapters in Volume I, Summary and Subject Statistics.

*Form MC-D3, Department of Defense Establishments, and MC-D4, Penal Institutions* were used to collect information on government-owned and government-operated manufacturing establishments. These forms were used to collect information on two types of establishments: (1) Manufacturing facilities owned and operated by the Department of Defense, and (2) prison industries (Federal, District of Columbia, and State). The data were prepared with the cooperation of the Department of Defense, the Department of Justice, and the District of Columbia and State prison systems. For Department of Defense installations, information is provided on employment, man-hours, payrolls, cost and value of work done, by industry group and by State. For prison industries, however, only product data is included in the census of manufactures reports. For a detailed description of the methods used to collect this information and the data presented, see the Special Report, Manufacturing Activity in Government Establishments, at the end of this volume.

*Form MC-D12, Supplementary Inquiries for 1962.*—In order to reduce the burden of the 1963 census on the respondent and the Census Bureau, information on horsepower rating of equipment in place by type of equipment, fuels consumed by the type of fuel, and electric energy was collected for 1962 and restricted to those establishments included in the annual survey of manufactures. In previous censuses, this information had been requested

on the standard census forms. Information is published on these items by industry, by State, and by standard metropolitan statistical area. Within State or standard metropolitan statistical area, 2-digit industry detail is provided wherever possible. For details on this special survey, see Volume I, Summary and Subject Statistics, chapters 6 and 7.

*Form MA-175, Report on Shipments to or Receipts for Work Done for the Federal Government Agencies and Their Contractors and Suppliers for 1963.*—To measure the impact of government procurement on the economy and on geographic areas, form MA-175 was mailed to approximately 2,500 annual survey of manufactures establishments accounting for over 95 percent of all shipments and receipts of 30 defense-oriented industries which account for the major portion of government procurement. The survey provided information on the value of products shipped to or receipts for work done for Federal agencies, their contractors, subcontractors and suppliers. The information was further subdivided into shipments or receipts on government prime contracts and to other manufacturers in the ultimate performance of Federal Government contracts.

Information on employment and value of shipments by class of product and by Federal agency is provided. Likewise, information is available for States and SMSA's by broad industry groups within each geographic area wherever possible.

*Special Survey Form MA-161, Origin of Exports of Manufactured Products.*—This report form was mailed to a special subsample of the annual survey of manufactures plants with 100 employees or more and exporting more than \$25 thousand per year. The report provides information on the value of manufacturers' exports by State, standard metropolitan statistical area, and by industry of the producing plant.

*MC-D13, Industrial Water Use, 1964.*—This special survey, although collecting data for the year 1964, was conducted as part of the 1963 Census of Manufactures. The form was mailed to approximately 10,000 establishments which had indicated on their census of manufactures form consumption of 20 million gallons or more of water in 1963. Information is provided on water intake and discharge by industry and by area.

## 9. DEVELOPMENT OF THE MAILING LIST

The manufacturing plants included in the census of manufactures were identified as part of the overall program to develop the mailing list for the 1963 censuses of business, manufactures, and mineral industries.

The Internal Revenue Service (IRS) maintains a comprehensive list of names and addresses of legal entities with one employee or more which are required to file quarterly tax returns under the Federal Insurance Contributions Act. To each of these legal entities, IRS has assigned a unique employer identification (EI) number. Arrangements were made to obtain this list of EI numbers for the selection of those companies which were to be included in the 1963 censuses of business, manufactures, and mineral industries. Since this list contained many companies not within the scope of the economic censuses, it was matched to a similar list of EI numbers maintained by the Social Security Administration (SSA). In cooperation with IRS, the SSA assigns an industry code to every EI number based on information reported by the taxpayer when he applied for an EI number. Only those EI numbers with industry codes within scope of the economic censuses were included in the basic mailing list.

This list of EI numbers provided the industry code necessary to select the current report form and a payroll size code to determine whether a standard or a short form was to be mailed. However, the list was defective in one basic respect: The EI number applies to a legal entity and not to an individual establishment, the basic unit for which census data is required.

Therefore, it was necessary to supplement this list by contacting all known or possible multiestablishment companies to obtain a list of their individual plants or business locations. In January of 1963, a prec canvass form (NC-X1, Listing of Establishments) was sent to all companies that had indicated in the 1958 Census of Manufactures or the 1962 Annual Survey of Manufactures that they were operating at more than one location. In addition, all "apparent" single-establishment companies in the IRS-SSA file of EI numbers with sizeable employment were included in this prec canvass.

For the known multiestablishment companies, the Census Bureau prelisted the establishments as they had been last reported to the Census Bureau (the 1958 census except for the manufacturing companies which had reported for their manufacturing establishments in the 1962 Annual Survey of Manufactures). The company was requested to update this list by deleting closed locations, correcting the addresses, reporting the current EI numbers used for each plant, as well as adding any locations operated but not already included in the listing. The EI numbers reported for these multiestablishment companies were excluded from the list of EI numbers obtained from IRS-SSA prior to mailing the 1963 census report forms. Thus, the 1963 Census of Manufactures list for single-establishment companies was obtained from the IRS-SSA, but the list of plants of mul-

tiunit companies was obtained directly from those companies by a special precensus survey.

While the IRS-SSA list was generally adequate in providing sufficient industry and size information to determine the proper form for mailing, a number of the EI numbers did not have precise industry or size information associated with them. A special form (NC-X3, General Report) was mailed to all such companies in the 1963 censuses of business, manufactures, and mineral industries. Since it was assumed that these establishments were quite small, only limited statistics were required. On the basis of the information reported, these establishments were coded and included in the basic tabulations. If the NC-X3 indicated substantial activity, the company was recontacted with a standard census form.

The 1963 census was distributed and returned by mail. The very large complex multiestablishment companies were mailed their report forms in November 1963 to give them as much lead time as possible to meet the substantial demands of the 1963 census on their statistical staffs. Report forms for the smaller companies were mailed in January 1964. Collection was completed by August 1964. All mailing and receiving, including the various reminder mailings as well as routine editing, coding, and card punching, was done at the Census Bureau's Operations Office in Jeffersonville, Ind. The more difficult problem reports and all reports from very large companies were sent to Washington for review prior to punching. The punched data were transmitted to Washington through a telephone computer link-up and all computer processing, review of the tabulated data, and the preparation of the publications were performed there.

## **10. COMPLETENESS OF COVERAGE AND ACCURACY OF THE DATA**

Since the 1963 mailing list was considered to be complete, no field coverage check was conducted. There was a concerted effort to assure completeness of coverage through systematic reminders at 4- to 6-week intervals including the use of certified mail, telegrams and, for the larger companies, telephone calls.

Considerable attention has been devoted to assuring completeness and correctness of the reporting by large companies. In the early stages of processing, the individual establishment reports of the very large companies were reviewed along with the company summary report, form NC-K1, to make certain that the company had included reports for all its establishments and subsidiaries and that there was no duplication in reporting among manufacturing, minerals, central offices, and sales branches and offices. The NC-K1 was also a vehicle for the company to report changes in ownership since the census prec canvass was



conducted in the preceding year. Accurate company affiliation information is necessary, it should be noted, to enable the Census Bureau to review the tabulations to assure confidentiality of the data; to provide statistics for the "enterprise statistics" program; and, in manufacturing, to prepare the company concentration ratios by industry and product class. Part 2 of form NC-K1 required that the parent company reconcile its payroll figures by employer identification numbers filed with the Internal Revenue Service to those reported on the individual censuses of manufactures, business, and mineral reports. As a result of this comparison, omissions were detected as well as duplication of the reporting within the census establishment file.

As part of the computer edit of the data, all "annual survey of manufactures" establishments in the census were matched to the list of establishments in the 1962 Annual Survey of Manufactures. All large unmatched establishments were reviewed to make certain that plants which changed ownership, were newly established, or had been closed down since 1962 were properly handled. Furthermore, during the review of the published data, whenever there was a significant change from the previous year in the totals for each industry or geographic area, the reports were checked out individually to make certain that there was no inadvertent omission or duplication in reporting between years, and that the change was valid.

All report forms in manufacturing were audited by the computer. The figures reported in 1963 by each of the 60,000 annual survey of manufactures establishments were compared to those reported in 1962. Establishments with significant increases or decreases in any data item or with significant changes in selected operating ratios (e.g., cost of materials per dollar of shipments, payroll per employee, production-worker wages per man-hour, etc.) were identified for subsequent review by the Bureau's statisticians. Small establishments with problems were tentatively accepted or modified by the computer but annotated for subsequent examination.

The operating ratios of the 250,000 smaller establishments not in the annual survey of manufactures were edited against industry averages developed from the 1958 Census of Manufactures and brought up to date through the 1962 Annual Survey of Manufactures data. In the review of the tabulations prior to the publication of the final reports, the selected operating ratios for all establishments were analyzed and the mean ratio for all establishments in each industry determined. A frequency distribution of establishments according to operating ratio class was prepared, and those establishments whose ratios were more than two standard deviations from the industry

average were isolated as "outliers," examined and, if necessary, corrected. A similar type of analysis was made for the individual products shipped and the individual materials consumed. A unit value was calculated for each item reported by an establishment. An industry average unit value was also calculated and a frequency distribution tabulation of unit values prepared. Extreme unit-value cases were isolated and corrected during the preliminary and final table review.

## II. EXPLANATIONS OF TERMS USED IN COLLECTION AND PUBLICATION OF DATA

### 11. EMPLOYMENT AND RELATED ITEMS—GENERAL

The census of manufactures provides information on employment and payrolls at operating establishments and central administrative offices and auxiliaries. The standard form for operating establishments collected the number of production workers by quarter and all other employees as of the 15th of March, as well as annual payrolls for production workers and other employees separately. Form NC-X6, Central Administrative Offices and Auxiliaries, collected figures on employment as of March 15 and payrolls for the year.

In presenting the data, the employment and payrolls of central administrative offices and auxiliaries which serve manufacturing plants are included in the all-industries totals in every summary table (U.S., State, standard metropolitan statistical area, county, and city). However, whereas the operating establishments were coded to a 4-digit manufacturing industry, the administrative offices and auxiliaries were coded only to the 2-digit industry group of the establishments they served. Thus, in all tables with industry detail, the administrative offices and auxiliaries are shown as a separate industry group following the industries in Major Groups 39 and 19.

Separate statistics for all central administrative offices and auxiliaries including those of nonmanufacturing companies will be published as part of the 1963 censuses of business, manufactures, and mineral industries in *Enterprise Statistics 1963*, Part 2, Central Administrative Offices and Auxiliaries. In that publication, information will appear not only by 2-digit industry of the establishments served but also by type of function performed and industry category of owning company.

### 12. EMPLOYMENT OF OPERATING MANUFACTURING ESTABLISHMENTS

**All Employees.**—The category "all employees" comprises all full-time and part-time employees on the payrolls of operating manufacturing establishments who worked or re-



ceived pay for any part of the pay period which included the 12th and ended nearest the 15th of the months specified on the report form. At the all-industry level, the employees of central administrative offices and auxiliaries are included. Included are all persons on paid sick leave, paid holidays, and paid vacations during these pay periods. Excluded are members of the Armed Forces and pensioners carried on the active rolls but not working during the period. Officers of corporations are included as employees; proprietors and partners of unincorporated firms, however, are excluded from the total.

#### **Production and Related Workers.—**

This category comprises workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspection, receiving, storage, handling, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plant's own use (e.g., power plant), recordkeeping, and other services closely associated with these production operations at the establishment covered by the report. Supervisory employees above the working foreman level are excluded from this category.

**All Other Employees.—**"All other employees" are nonproduction personnel of the manufacturing establishment, including those engaged in the following activities: Factory supervision above the working foreman level, sales (including driver salesmen), sales delivery (highway truck drivers and their helpers), advertising, credit, collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, financing, legal, personnel (including cafeteria, medical, etc.), professional, and technical. Also included are employees on the payroll of the manufacturing establishment engaged in the construction of major additions or alterations to the plant and utilized as a separate work force.

**Average Employment.—**The 1963 Census of Manufactures report forms requested employment figures for "production and related workers" for four selected pay periods (i.e., production worker midmonth employment in March, May, August, and November). For "all other employees" only a mid-March figure was requested. Thus, the "annual average" of operating establishments is composed of an average of the four monthly figures for the "production workers" plus the March figure for "all other employees."

This approach was initiated in the intercensal annual surveys of manufactures to simplify the schedule format and lighten the reporting burden of respondents, since it was found that the average of these selected pay

periods approximates very closely the average employment for the year that would be obtained from the 12 pay periods for almost all industries.

The employment figure shown for all industries in most tables is the 4-month average.

For a few highly seasonal industries, production-worker figures were collected for all 12 months and are shown in Volume II, table 3, for those industries.

### **13. PAYROLLS OF OPERATING MANUFACTURING ESTABLISHMENTS**

For each industry, this total includes the gross earnings paid in the calendar year 1963 to all employees on the payroll of operating manufacturing establishments. Respondents were told they could follow the definition of payrolls used for calculating the Federal withholding tax. It includes all forms of compensation such as salaries, wages, commissions, dismissal pay, all bonuses, vacation and sick leave pay, and compensation in kind, prior to such deductions as employees' Social Security contributions, withholding taxes, group insurance, union dues, and savings bonds. The total includes salaries of officers of these establishments, if a corporation; it excludes payments to the proprietor or partners, if an unincorporated concern. Also excluded are payments to members of Armed Forces and pensioners carried on the active payroll of manufacturing establishments.

The 1963 census definition of payrolls, identical to that recommended to all Federal statistical agencies by the Bureau of the Budget, is also the same as the 1958 census definition. It should be noted that this definition does not include employers' Social Security contributions, or other nonpayroll labor costs such as employees' pension plans, group insurance premiums, and workmen's compensation.

As in the case of employment figures, the payrolls of separate central administrative offices and auxiliary units of multiestablishment companies are not included in the totals for individual industries or industry groups.

### **14. MAN-HOURS OF PRODUCTION AND RELATED WORKERS**

This total consists of all plant man-hours of production and related workers as defined above. It represents all man-hours worked or paid for at the plant including actual overtime hours (not straight-time equivalent hours.) It excludes hours paid for vacations, holidays, or sick leave, when the employee was not at the plant. Where employees elected to work during the vacation period, only actual hours worked by such employees were reported.



Man-hours were generally well reported except in some industries, like apparel, where work is commonly performed on a piece-rate basis. However, man-hours were not collected for the very small establishments which were mailed special short forms (see section 8). Experience has shown that these small establishments have difficulty in distinguishing between production and other types of employees. Man-hours were estimated for these small establishments as well as for other nonreporters. Because estimating was largely confined to small establishments, there is no significant qualification to the validity of overall industry and geographic area totals for man-hours, except for sawmills and a few other industries characterized by small establishments. However, the man-hour figures for establishments with fewer than 10 employees, shown in the size of establishment tables, should be interpreted with this factor in mind.

## 15. MATERIALS

**Cost of Materials, Etc., Consumed.**—A summary inquiry on the 1963 census report forms requested information on the cost of materials, supplies, semifinished goods, fuels, and electric energy, actually consumed or put into production during the year and the cost of products purchased for resale, by each manufacturing establishment, whether purchased, withdrawn from inventories, or received from other establishments of the company. Included also were the costs of materials supplied by the establishment which were processed elsewhere on contract for the establishment. (The products produced elsewhere under contract for the establishment are included in the value of shipments of the establishments; see section 16, value of shipments).

“Cost” was defined as the direct charges actually paid or payable for items consumed or put into production during the year, after discounts, and including freight charges and other direct charges incurred by the establishment in acquiring the materials.

To arrive at the industry total “cost of materials, etc.,” separate figures were obtained for (a) the total delivered cost of all raw materials, semifinished goods, parts, components, containers, scrap, and supplies consumed or put into production in 1963; (b) the amount paid for electric energy purchased; (c) the amount paid for all fuels consumed for heat, power, or the generation of electricity; (d) the cost of work done by others on materials or parts furnished by manufacturing established (contract work); and (e) the cost of products bought and resold in the same condition.

It should be noted that the cost of fuel consumed under “c” above does not include fuel used as a material in the manufacturing process; for example, coal used in the produc-

tion of coke. Such costs were included with other materials cost in category “a” above.

The total excludes the cost of services used, such as advertising, insurance, telephone, etc., and developmental, research, and consulting services of other establishments. It also excludes overhead costs, such as depreciation charges, rent, interest, royalties, etc., and it excludes materials, machinery, and equipment used in plant expansion or capitalized repairs which are chargeable to fixed assets accounts.

For materials received from other plants of the same company or from a central materials depot (whether at the same or different physical location), the respondent was asked to value the items at their full economic value as produced, plus freight and other direct handling charges. The respondent was asked to check, where possible, that reported costs equaled the value of shipments reported for the items by the company’s plant which produced and transferred the goods plus the freight and other direct charges (see value of shipments, section 16).

A summation of industry cost of materials figures to industry group totals results in large and unknown amounts of duplication, owing to the addition of costs reported by related industries engaged in successive fabrication stages in the production of finished manufactured products. For this reason, cost-of-materials figures shown at the industry group (2- and 3-digit) and all-industry levels must be used with caution. With some important exceptions (such as refrigeration machinery, radios and television receiving sets, and motor vehicles and parts), this duplication is not significant within individual 4-digit industries.

**Individual Materials Consumed.**—In addition to the total cost of materials which every establishment was requested to report, quantity and cost information was collected on 633 specific materials.

Of these materials, 314 were “complete coverage” materials; i.e., every industry that consumed appreciable quantities of the material was canvassed so that the data would represent at least 90 percent of manufacturing consumption. For the remaining 319 “partial coverage” materials, information on consumption was obtained on a more limited basis, generally only in those industries in which the materials were important inputs. Consumption information was also collected for an additional 492 items which were produced and consumed in the same plant as part of the product sections of the report forms.

Because American industry uses an enormous variety of materials, the number of materials for which “complete coverage” consumption data (90 percent or higher) were ob-

tained had to be strictly limited. The selection of a particular material for such coverage was, therefore, based on the following criteria:

- (1) The importance of the material as measured by the total value of U.S. consumption of the material;
- (2) The percentage of total consumption accounted for by manufacturing establishments;
- (3) The availability of consumption information from manufacturers' records; and
- (4) In certain instances, other factors such as the strategic importance of the material or the availability of historical data on the use of the material.

The materials included on a limited coverage basis were chosen not only because they constituted important inputs for particular industries but frequently because they provided information necessary to classify plants by SIC industry.

The individual materials are shown by industry of the consuming establishment in Volume II, table 7's. In Volume I, Summary and Subject Statistics, information is shown for most of the complete-coverage materials according to industry and geographic area of consuming establishment.

The data on materials consumed relate generally to the quantity and cost of materials purchased or transferred from other plants of the same company. However, for selected materials which are also importantly produced for use within the same establishment, information was requested on such "captive" production in quantity terms only.

Some undercoverage exists in the statistics for most individual materials. The undercoverage results from the fact that:

- (1) Individual materials consumption information was obtained only from establishments using one of the census of manufactures standard forms, except on industries for which the short forms were modified to request consumption of a limited number of important materials. For the most part, therefore, plants with a very small number of employees are not represented in these statistics.
- (2) Establishments consuming less than a specified amount of material were not requested to report consumption of the material separately. For the majority of individual materials, the minimum amount was \$5,000.

The use of such cutoffs, as well as the use of short forms, is not believed to have had a significant effect on the totals for most materials. However, for industries where a sizeable proportion of the activity is accounted for by small establishments or where a specified material is used in relatively small quantities, the above limitations may be of some consequence.

## 16. PRODUCTS

**Value of Shipments.**—Except in a few industries, the respondents were instructed to report net selling values, f.o.b. plant, after discount and allowances and excluding freight charges and excise taxes. In a few industries, specifically noted in the text of the industry chapters, Volume II, delivered prices were acceptable if delivery was included as an integral part of the plant operations, such as in the milk and bakery industries.

Manufacturers were asked to include as products shipped, not only the products made in the establishment but also those made elsewhere under contract from the materials owned by the establishment. Included were all products sold, transferred to other plants of the same company, or shipped on consignment.

In addition, manufacturers reported receipts for contract work performed for others, resales (i.e., the value of all products resold without further processing), receipts for miscellaneous activities such as sale of scrap and refuse, and the value of installation and repair work performed by the plant employees. Although the value of products bought and resold without further processing is included in the value of shipments totals for each industry, it is excluded from the figures for individual products or classes of products.

Multiestablishment companies were asked to report value information for each establishment as if it were a separate economic unit. They were instructed to report the value of all products transferred to other plants of the company at their full economic value; i.e., to include, in addition to direct cost of production, a reasonable proportion of company overhead and profits.

**Individual Products.**—In the 1963 census program, information was collected on the output of approximately 10,000 individual product items. The term "product" as used in the census of manufactures represents the finest level of detail for which output information was requested. Consequently, it is not necessarily synonymous with the term product as used in the marketing sense. In some cases it may be much more detailed and in other cases it is more aggregative. For example, "pharmaceutical preparations" was distributed



into nearly 100 items, whereas, "automotive gasoline" was reported as a single item.

Some 6,000 of the product items were listed separately on the 1963 census report forms. Data for the remaining 4,000 products were obtained in the monthly, quarterly, or annual surveys comprising the Current Industrial Reports series of the Census Bureau.<sup>8</sup> Totals for the year 1963 for these items as derived from the commodity surveys are shown in the "products shipped" table (table 6) in the industry chapters of Volume II together with the tieline total value collected in the census for reconciliation. Appendix F contains a complete listing of the surveys in the Current Industrial Reports program with page references in Volume II where the data appear.

The list of products for which separate information was collected was prepared after consultation with industry and government representatives. Comparability with previous figures was given considerable weight in the selection of product categories so that comparable 1958 information is presented for most products.

Typically, both quantity and value of shipments information was collected. However, if there was no meaningful physical quantity measure that could be reported by manufacturers, only value of shipments was collected.

As mentioned earlier, shipments include both commercial shipments and transfers of products to other plants of the same company. For industries in which a considerable portion of the total shipments are transferred to other plants of the same company, separate information on interplant transfers was also collected. Moreover, for products which are used to a large degree within the same establishment as materials or components in the fabrication of other products, total production and often consumption of the item within the plant was collected. Typically, the information on production was also collected for products for which there are significant differences between total production and shipments in a given year because of wide fluctuations in finished goods inventories. Alternate measures of output of products, such as value of work done for products with long production cycles, were used as appropriate and feasible.

**Classes of Products.**—For the purpose of summarizing the product information, the separate products were aggregated into classes of products which were, in turn, grouped into all primary products of each industry. The code structure used is a 7-digit number for the individual product, a 5-digit code for the class of product, and a 4-digit code for the total pri-

<sup>8</sup> See 1963 Census of Manufactures, MC63-2, Numerical List of Manufactures Products, and MC63-1, Alphabetic List of Manufactures Products.

mary products in an industry (see section 6 for application of coding structure to the assignment of SIC codes for establishments).

The 10,000 product items in the 1963 census (including products from the Current Industrial Reports program) were grouped into approximately 1,100 separate classes. Products were grouped into product classes to bring out significant differences in the broad types of products within a 4-digit industry. General similarity of the kind or purpose of the products or of the manufacturing processes, type of markets, or of materials used, were the basis for product combinations. The economic significance of the class was also taken into account; residual products of an industry were grouped when the products were not sufficiently significant in dollar value to warrant separate classes.

As a result of the increased number of respondents included in the product-class shipments totals, these categories lend themselves to many more cross tabulations than do the 7-digit products, without disclosing information about the operations of individual companies. In the industry chapters of Volume II, table 6D provides information on the value of shipments of product classes by State; and table 5B, by industry of the establishment producing them. The latter table is the best vehicle for showing the primary and secondary product mix of an industry, as well as the interrelationship between the 4-digit industry value of shipments and the 4-digit product group value of shipments. In table 8, the product class is used to provide finer industry-type general statistics by classifying establishments within an industry according to the degree to which they specialize in producing a specific class of products.

The class of product concept was incorporated by the Census Bureau into its own program with the 1947 Census of Manufactures after it developed the technique in the compilation of World War II production statistics. Product classes formed the basis of collecting product information in the annual survey of manufactures when that survey was initiated in 1949. The classes have been revised over the succeeding years to improve the balance and significance of product combinations within each industry and to keep abreast of the growth and decline of products.

## 17. INDEXES OF PRODUCTION AND UNIT VALUE.

Based on the type of quantity and value statistics shown in table 6A's of the Industry Volume, preliminary indexes of production and unit value (value of shipments divided by quantity of shipments) have been constructed for the primary products of the industry produced or shipped by all producers, including those in other industries. These indexes are shown in table 6B's of the industry



chapters. The 1958 unit values were used as weights in construction of a weighted aggregative production index. A unit-value index, weighted by quantity of production or shipments, was also constructed. The latter index was used, where necessary, to deflate value of shipments of products for which no satisfactory quantity data were available.

A special census of manufactures report will be issued, in cooperation with the Federal Reserve Board, on indexes of production, consolidating the information shown in the 6B tables into group and total indexes and discussing in some detail the objectives and methodology of the indexes and the data problems and limitations. That report will contain revisions of the table 6B indexes and will include indexes for some industries not previously published.

### **18. INDUSTRY AND COMMODITY APPROACHES TO VALUE OF SHIPMENTS**

In the census of manufactures tables, value of shipments figures are shown for 4-digit industry and 4-digit product groups which are primary to an industry. Both categories are identified by the same 4-digit number and title. However, the two sets of figures must be distinguished carefully in use.

Under the industry approach, each plant is assigned to one or the other of the approximately 425 4-digit industries. This is done primarily to secure information on payrolls, man-hours, cost of materials, value added by manufacture, and other matters which relate to the operations of the entire plant. As part of this process, the entire shipments of the plant are also assigned to a particular industry. This will include its output not only of products classified in the industry (primary products) but of products classified in other industries as well (secondary products) and miscellaneous receipts and resales. The value of shipments on an industry basis appears in tables described as "General Statistics" (e.g., most tables in Volume I; and tables 1, 2, 3, 4, and 8 in Volume II).

Tables 6A through 6C in the industry chapters of Volume II are tabulated on a commodity basis and provide value-of-shipments figures for 4-digit product groups as well as 5-digit product classes and 7-digit products on a wherever-made basis. The 4-digit value figures are derived by aggregating the values of individual products (or product classes) shipped, irrespective of the industry code of the establishment shipping them. Thus, the 4-digit product-group total avoids the complications of secondary products and miscellaneous receipts inherent in the 4-digit industry value of shipments.

From census to census, the value figures for some 4-digit product groups show

greater stability than the comparable 4-digit industry value of shipments. The latter includes the contribution of some establishments which are highly diversified and only marginally coded to the industry. Minor and temporary shifts in product mix could reclassify such establishments from one industry to another without any substantial or permanent change in their operations. In the annual survey of manufactures and the 1963 Census of Manufactures, this erratic shifting was minimized by the application of a resistance factor which required that large establishments (100 employees or more) be reclassified only if there was a very substantial shift in product mix or evidence that the newer product mix remained stable over a number of years. (See also section 6 above.)

### **19. DUPLICATION IN COST OF MATERIALS AND VALUE OF PRODUCTS**

The aggregate of the cost of materials and value of shipments figures for industry groups and for all manufacturing industries includes large amounts of duplication since the products of some industries are used as materials by others. With some important exceptions, such as motor vehicles and parts, this duplication is not significant within individual 4-digit industries. However, it is significant at the 2-digit and 3-digit industry groups because these totals often include industries which represent successive stages in the production of a finished manufactured product. Examples are the addition of flour mills to bakeries in the "Food Group" and the addition of pulp mills to paper mills in the "Paper and Allied Products Group" of industries. Estimates of the overall extent of this duplication indicate that the value of manufactured products exclusive of such duplication—the value of finished manufactures—tends to approximate two-thirds of the total value of products reported in the census of manufactures.

Because the amounts of duplication contained in the cost of materials and value of products figures cannot be measured with any degree of precision, these data are not shown in the geographic area tables (Volume III) and caution is urged with their use when they are provided at the 2- and 3-digit industry group level in Volumes I and II.

Even where no significant amount of duplication is involved, value of shipments figures are deficient as measures of the relative economic importance of individual manufacturing industries or geographic areas because of the wide variation in ratio of materials, labor, and other processing costs to value of shipments, both among industries and within the same industry.

The difference between the industry and the commodity approach can be illustrated by the example of fabricated structural steel.



While the major share of the output of these products comes from plants which are principally engaged in their production, substantial quantities are also manufactured by plants classified in other industries, such as boiler-shop products, sheet-metal work, and miscellaneous metal work. At the same time, plants classified in the fabricated metal products industry also manufacture products of other industries. The resultant overlapping is evident from the excerpt from table 5B in the Industry Volume, below.

Thus, it will be seen that of the total shipments of \$1,916 million by plants classified in the fabricated structural metal industry, \$1,432 million consisted of products of this industry, while \$237 million consisted of products of other industries, and \$247 million of miscellaneous receipts. Shipments of fabricated structural steel products totaled \$1,604 million, of which \$172 million was contributed by plants classified in other industries.

It should be noted that the figures shown in table 5B for the total value of shipments of the 5-digit product classes and the 4-digit product groups are the subtotals and totals of the individual products in table 6A which bear the same first 5-digit and 4-digit code numbers.

In order to measure the extent to which industry and product statistics may be compared, two measures have been developed—the “specialization ratio” and the “coverage ratio.” The specialization ratio measures the extent to which the plants in an industry spe-

cialize in making the products primary to that industry. It is derived by dividing the total output (both primary and secondary products) of the industry's plants into their output of products primary to the industry. Thus, in the above illustration, the specialization ratio is 0.86; that is, shipments of fabricated structural steel products account for 86 percent of all products made and shipped by plants in that industry ( $1,432 \div 1,669 = .86$ ). The coverage ratio measures the extent to which the products primary to an industry are shipped by plants classified in that industry. In the illustration, the coverage ratio is 0.89; that is, 89 percent of all shipments of fabricated structural steel products was made by plants primarily engaged in the manufacture of these products ( $1,432 \div 1,604 = .89$ ). These ratios appear in tables 1 and 5A in the industry chapters, Volume II, and in appendix B, industry descriptions, Volumes I and III.

In table G, industries are grouped by 1963 specialization and coverage ratios. In 1963, as in 1958, approximately 95 percent of manufacturing employment is included in industries with specialization of 80 percent or higher. Nine of 412 industries, for which the industry (primary product) specialization ratio was published for 1963, had ratios of 100 percent and 218, with 56 percent of the employment in all industries for which the ratios were published, had ratios between 90 and 99 percent. Only 29 of the 412 industries showed ratios below 80 percent. The higher the ratio, the smaller the output of secondary products; conversely, the lower the industry specialization

Excerpt from table 5B in Industry Chapters— INDUSTRY PRODUCT ANALYSIS—VALUE OF SHIPMENTS: 1963  
(Millions of dollars)

| Product class code | Class of products and miscellaneous receipts  | All industries | Fabricated structural metal (SIC 3441) | Other industries |
|--------------------|---|----------------|--|------------------|
|                    | Total shipments of the industry.....  | (X)            | 1,916                                  | (X)              |
| 3441-              | Fabricated structural steel, total.....   | 1,604          | 1,432                                  | 172              |
| 34411              | Fabricated structural metal for buildings.....  | 984            | 894                                    | <sup>1</sup> 90  |
| 34412              | Fabricated structural metal for bridges.....  | 225            | 210                                    | <sup>2</sup> 15  |
| 34413              | Other fabricated structural metal.....  | 287            | 221                                    | <sup>3</sup> 66  |
| 34410              | Fabricated structural metal, n.s.k.....   | 108            | 107                                    | 1                |
| .....              | Secondary products.....   | (X)            | <sup>4</sup> 237                       | (X)              |
| .....              | Miscellaneous receipts (contract work, repair work, sales of scrap, resales, etc.)..... | (X)            | 247                                    | (X)              |

<sup>1</sup>Includes \$21 million shipped from industry 3443, boiler shop products; \$11 million shipped from industry 3444, sheet-metal work; \$10 million from industry 3449, miscellaneous metal work, n.e.c.; and \$7 million from industry 3731, shipbuilding and repair.

<sup>2</sup>Includes \$2 million shipped from industry 3443, boiler shop products.

<sup>3</sup>Includes \$9 million shipped from industry 3443, boiler shop products, and \$2 million from industry 3446, architectural metal products.

<sup>4</sup>Includes the following products: 34421, metal doors and frames (except storm doors), \$7 million; 34422, metal window sash and frames (except storm sash), \$3 million; 34432, fabricated steel plate, \$31 million; 34438, metal tanks and vessels, custom fabricated at the factory, \$7 million; 34441, sheet-metal roofing, siding, and drainage equipment, \$15 million; 34442 culverts, flumes, irrigation pipes, \$8 million; and 34443, other sheet metal work, \$8 million.

TABLE G. Frequency Distribution of Industries by 1963 Primary Product Specialization and Coverage Ratios

| Ratio class           | Primary product specialization ratio |                |                  | Coverage ratio       |                |                  |
|-----------------------|--------------------------------------|----------------|------------------|----------------------|----------------|------------------|
|                       | Number of industries                 | Employees      |                  | Number of industries | Employees      |                  |
|                       |                                      | Number (1,000) | Percent of total |                      | Number (1,000) | Percent of total |
| Total.....            | <sup>1</sup> 412                     | 15,937         | 100              | <sup>2</sup> 413     | 15,494         | 100              |
| 100 percent.....      | 9                                    | 163            | 1                | 15                   | 583            | 4                |
| 90 to 99 percent..... | 218                                  | 8,954          | 56               | 186                  | 8,220          | 53               |
| 80 to 89 percent..... | 156                                  | 5,760          | 36               | 121                  | 4,021          | 26               |
| 70 to 79 percent..... | 21                                   | 631            | 4                | 45                   | 1,436          | 9                |
| 60 to 69 percent..... | 6                                    | 409            | 3                | 23                   | 672            | 4                |
| Under 60 percent..... | 2                                    | 20             | ( <sup>3</sup> ) | 23                   | 562            | 4                |

<sup>1</sup>Excludes 13 industries with 297 thousand employees.

<sup>2</sup>Excludes 12 industries with 740 thousand employees.

<sup>3</sup>Less than 0.5 percent.

ratio, the higher the output of secondary products. Lower industry specialization ratios give evidence of diversity of output by an industry and overlap with other industries. Over time, decreasing industry specialization ratios would be a manifestation of the need for revision of the classification structure.

## 20. VALUE ADDED

Value added by manufacture is derived by subtracting the total cost of materials (including materials, supplies, fuel, electric energy, cost of resales and miscellaneous receipts) from the value of shipments (including resales) and other receipts and adjusting the resulting amount by the net change in finished products and work-in-process inventories between the beginning and end of the year.<sup>9</sup>

<sup>9</sup>For a few industries (e.g., aircraft, ship building) where value of work done is substituted for value of shipments, no adjustment is made for change in inventories. In a few other industries where value of production is collected, the inventory adjustment is made only on the basis of change in work-in-process inventories.

Value added avoids the duplication in the value of shipments figure which results from the inclusion of the shipments of establishments producing materials and components along with the shipments of establishments producing finished products. It does not exclude, as described in the paragraph below, purchased services. Nevertheless, it is considered to be the best value measure now available for comparing the relative economic importance of manufacturing among industries and geographic areas.

Value added by manufacture should not be confused with "national income originating in manufacturing," as presented in the national income by industrial origin estimates compiled by the Office of Business Economics (OBE), Department of Commerce. (See tables H and I.) The latter measure is the sum of factor costs incurred by an industry in production and is, therefore, a more "net" concept of value added than that used in the census of manufactures. "Income originating" excludes,

TABLE H. Comparison of National Income Originating in Manufacturing and Value Added by Manufacture

(In billions of dollars)

| Year      | National income originating in manufacturing <sup>1</sup> | Value added by manufacture | Col. (1) divided by col. (2) | Year      | National income originating in manufacturing <sup>1</sup> | Value added by manufacture | Col. (1) divided by col. (2) |
|-----------|---|----------------------------|------------------------------|-----------|---|----------------------------|------------------------------|
| 1963..... | 143.8   | 192.1                      | 0.75                         | 1956..... | 113.1   | 144.9                      | 0.78                         |
| 1962..... | 137.0   | 179.3                      | 0.76                         | 1954..... | 94.6  | 117.0                      | 0.81                         |
| 1961..... | 125.1   | 164.2                      | 0.76                         | 1947..... | 59.5  | <sup>2</sup> 74.3          | 0.80                         |
| 1960..... | 125.8   | 164.0                      | 0.77                         | 1939..... | 18.1  | 24.5                       | 0.74                         |
| 1959..... | 124.0   | 161.3                      | 0.77                         | 1935..... | 13.4  | 18.5                       | 0.72                         |
| 1958..... | 107.7   | 141.5                      | 0.76                         | 1933..... | 7.7   | 14.0                       | 0.55                         |
| 1957..... | 116.3   | 147.8                      | 0.79                         | 1929..... | 21.9  | 30.6                       | 0.72                         |

<sup>1</sup>Source: National Income and Product Accounts of the U.S., Survey of Current Business, August 1965, p.42; July 1966, p. 15.

<sup>2</sup>1947 and earlier figures are unadjusted value added.



TABLE I. Comparison of National Income Originating and Value Added, by Major Industry Group: 1963

(In billions of dollars)

| Code | Industry group description   | National income originating <sup>1</sup>        | Value added by manufacturing | Col. 1 divided by col. 2 |      |      |
|------|--|---|------------------------------|--------------------------|------|------|
|      | Manufacturing.....   | 143.8   | 192.1                        | 0.75                     |      |      |
|      | Nondurable goods.....  | 57.5  | 83.4                         | 0.69                     |      |      |
| 20   | Food and kindred products.....   | 13.4  | 21.8                         | 0.61                     |      |      |
| 21   | Tobacco manufactures.....  | 1.2   | 1.7                          | 0.71                     |      |      |
| 22   | Textile mill products.....   | 4.7   | 6.1                          | 0.77                     |      |      |
| 23   | Apparel and other fabricated textile products.....                     | 5.6   | 7.9                          | 0.71                     |      |      |
| 26   | Paper and allied products.....   | 5.1   | 7.4                          | 0.69                     |      |      |
| 27   | Printing, publishing, and allied industries.....                       | 7.3   | 10.5                         | 0.70                     |      |      |
| 28   | Chemicals and allied products.....                                     | 10.4  | 17.6                         | 0.59                     |      |      |
| 29   | Petroleum refining and related industries.....                         | 4.6   | 3.7                          | 1.24                     |      |      |
| 30   | Rubber and miscellaneous plastics products.....                        | 3.3   | 4.6                          | 0.72                     |      |      |
| 31   | Leather and leather products.....                                      | 1.7   | 2.1                          | 0.81                     |      |      |
|      | Durable goods.....   | 86.2  | 108.7                        | 0.79                     |      |      |
| 24   | Lumber and wood products, except furniture.....                        | 3.5   | 4.0                          | 0.88                     |      |      |
| 25   | Furniture and fixtures.....  | 2.3   | 3.1                          | 0.74                     |      |      |
| 32   | Stone, clay, and glass products.....                                   | 5.0   | 7.0                          | 0.71                     |      |      |
| 33   | Primary metal industries.....  | 11.5  | 15.3                         | 0.75                     |      |      |
| 34   | Fabricated metal products.....   | 9.2   | 11.8                         | 0.78                     |      |      |
| 35   | Machinery, except electrical.....                                      | 14.0  | 17.3                         | 0.81                     |      |      |
| 36   | Electrical machinery.....  | 12.3  | 17.0                         | 0.72                     |      |      |
| 19   | { Transportation equipment and ordnance, except<br>motor vehicles..... | 10.4  | } 25.6                       | 0.87                     |      |      |
| 37   |  | Motor vehicles and motor vehicle equipment..... |                              |                          | 11.8 |      |
| 38   |  | Instruments.....                                |                              |                          | 3.5  | 0.88 |
| 39   |  | Miscellaneous manufacturing industries.....     |                              |                          | 2.5  | 0.69 |

Source: Survey of Current Business, July 1966 p. 15.

in addition to cost of materials, such other costs as depreciation charges, State and local taxes (other than corporate income taxes), allowance for bad debts, and purchases of services from nonmanufacturing enterprises, such as contract costs involved in maintenance and repair, services of development and research firms, services of engineering and management consultants, advertising, telephone and telegraph expense, insurance, royalties, patent fees, etc.

In part, the national income originating estimates are prepared from company rather than establishment data. This method results in the inclusion of some part of the net value added by nonmanufacturing establishments of companies classified as being primarily manufacturing, and conversely, in the exclusion of some part of the net value added by manufacturing establishments of companies classified as primarily *nonmanufacturing*. It is believed that for manufacturing as a whole the net effect increases income originating. (In fact, in the Petroleum and Coal Products major industry group, nonmanufacturing activities of manufacturing companies are so significant that this is the one major industry group in

which OBE "income originating" exceeds Census "value added by manufacture.")

Figures are not available to permit a reconciliation of the estimates for value added in manufacturing and the national income originating in manufacturing for the current period. However, in 1957, the Census Bureau conducted a special survey, MC-D11, "Selected Costs and Assets of Manufacturing Establishments," which collected information on some of the costs included in value added for services purchased from other sectors or excluded from the national income estimates. These specific costs which accounted for about \$15 billion of the \$148 billion of value added in 1957 were maintenance and repairs, \$4.5 billion; insurance, \$.7 billion; property taxes, \$1.5 billion; rental payments, \$1.4 billion; and depreciation, \$7.3 billion. The residual value added, \$132 billion was approximately \$16 billion in excess of national income of \$116 billion.

Table J presents an approximate reconciliation of national income and value added figures for manufacturing in 1957. The national income estimates for payrolls and other fac-

TABLE J. 1957 Comparative Statistics on Value Added and National Income in Manufacturing

(In billions of dollars)

| Item  | Value added | National income <sup>1</sup> |
|---|-------------|------------------------------|
| Total.....  | \$147.8     | \$112.5                      |
| Payrolls.....   | 89.4        | 87.9                         |
| Payrolls of operating manufacturing establishments.....   | 76.4        | } 280.6<br>37.2              |
| Supplements to wages in operating manufacturing establishments.....   | 6.0         |                              |
| Payrolls of central administrative offices and auxiliaries, sales branches and offices of manufacturing companies.....  | 47.0        |                              |
| Other factor incomes (Corporate profits, proprietary income).....   | 24.6        | 24.6                         |
| Costs of manufacturing establishments reported on MC-D11.....   | 15.4        | (X)                          |
| Not part of national income:  |             |                              |
| Depreciation.....   | 7.3         | (X)                          |
| Property taxes.....   | 1.5         | (X)                          |
| Probably included in other sectors:   |             |                              |
| Maintenance and repairs.....  | 4.5         | (X)                          |
| Rental payments.....  | 1.4         | (X)                          |
| Insurance.....  | 0.7         | (X)                          |
| Other costs (Company overhead (other than payrolls included above); e.g., depreciation, business taxes, and services purchased at the company level; and services purchased directly by plants (advertising, legal, accounting, and other professional services; communications, patent fees, royalties, travel costs, etc.)..... | 18.4        | (X)                          |

(X) Not applicable.

<sup>1</sup>Prior to 1958 revisions of national income.<sup>2</sup>Payrolls.<sup>3</sup>Supplements to wages.<sup>4</sup>Estimated based on figures reported for 1958 in the census of business, manufactures, and minerals.

tor income in that year are based on the unrevised national income figures which are somewhat lower than the revised estimates appearing in table H. It should be noted that the labor costs included in national income and value added are reasonably close despite the fact that they are computed on a slightly different basis. If the proprietary and profit incomes of the company-based national income estimates are allocated to the establishments included in the census of manufactures, value added exceeds national income by \$35 billion of which \$15 billion is attributable to costs reported on survey MC-D11. Somewhat more than half of the \$35 billion excess represents the inclusion in value added by manufacture of purchased business services arising in other economic sectors; the remainder reflects conceptual differences arising from the inclusion in value added of indirect business taxes and depreciation which are excluded by definition from national income.

## 21. INVENTORIES

The value of beginning-of-year and end-of-year inventories, respectively, held by each manufacturing establishment was obtained in the 1963 census. Separate inventory figures

were requested for (1) finished products; (2) work in process; and (3) materials, supplies, fuel, and other inventories.

Respondents were asked to report their inventories at approximate current costs, if feasible; otherwise "at book values." Since different methods of inventory valuation are used (LIFO, FIFO, etc.), the definition of the value of inventories aggregate for all establishments in an industry is not precise. The figures on change in inventory between the beginning and the end of the year are of considerably greater significance.

In using inventory data by stage of fabrication for all industries and at the 2-digit industry level, the following should be noted: An item treated as a finished product by an establishment in one industry may be reported as a raw material by another establishment in a different industry. For example, the finished product inventories of a steel mill would be reported as raw materials by a stamping plant. Such differences are present in the inventory figures by stage of fabrication shown for individual industries, industry groups, and all manufacturing which are merely aggregates of figures reported by establishments in specified



industries. Further, the total finished goods inventory for "all manufacturing" includes items that are not finished manufactured products.

For a few industries in the food group, there are special problems in the handling of inventories by stage of fabrication. These are industries in which the production cycle is short, the products are usually stored under controlled conditions, and the products are aged. Included among such types of products are meat products, stemmed and dried tobacco, cheese, and whiskey. It is not clear whether such products should be treated as finished goods inventories or as work in process while in storage.

In the meat processing industries, establishments were allowed to report finished products and work in process combined as finished products. In the distilling industry, products stored for aging were to be reported as finished products. In all foods industries, substantial finished goods inventories have been reported. These data have been summarized in the inventory tables in a consistent manner for all of the years included in this report.

## 22. EXPENDITURES FOR PLANT AND EQUIPMENT

In the 1963 census, manufacturers were asked to report expenditures made during the year for permanent additions and major alterations to their plants, as well as for new machinery and equipment purchases, that were chargeable to fixed asset accounts of manufacturing establishments and were of a type for which depreciation accounts are ordinarily maintained. Expenditures for machinery and equipment were to include those made for replacement purposes, as well as for additions to plant capacity. Excluded from such expenditure totals are costs of maintenance and repairs charged as current operating expense; new facilities and equipment leased from non-manufacturing concerns; new facilities owned by the Federal Government but operated under contract by private companies; and plant and equipment furnished to the manufacturer by communities and organizations.

In addition to total capital expenditures, respondents were requested to indicate the following subtotals: (a) New structures and additions to plant (including major alterations and capitalized repairs and improvements); (b) new machinery and new equipment (including capitalized repairs and improvements); and (c) expenditures for used plant and used equipment acquired from others (including the U.S. Government). In most tables of these publications, the statistics on capital expenditures are confined to a total of new plant and equipment (items "a" and "b" above). However, in table 3 of the industry chapters in Volume II, and in Expenditures for Plant and Equipment, chapter

5 in Volume I, separate figures are shown for each type of expenditure.

The figures include (a) the expenditures made at manufacturing plants that were in operation during any part of the year, plus (b) expenditures made at plants that were not as yet in production. The data on capital expenditures for plants not in production at the end of 1963 were collected on a separate report form (MA-101) requesting companies to report the value of new plant and new equipment put in place during the year. The form also requested description of the type of products that would be made so that the establishment could be classified into a 4-digit industry. This form was sent to (a) the 1,500 largest manufacturing companies; (b) all other companies which indicated on the census of manufactures establishment report form or the "Listing of Establishments" Form NC-X-1 that they had one or more manufacturing plants under construction but not yet in operation at the close of 1963.

The Census Bureau estimates of capital expenditures tend to be lower than those published in the joint Office of Business Economics-Securities and Exchange Commission survey. (See table K below.) In addition to normal sampling variation, a major source of differences is to be found in the scope of the two series. Census data relate only to manufacturing establishments, whereas the OBE-SEC series cover all establishments of manufacturing companies—nonmanufacturing as well as manufacturing. This factor is particularly important in the petroleum industry where company expenditures for developing new wells and new distribution facilities are ordinarily much larger than their capital expenditures at refineries. On the other hand, manufacturing establishments of companies engaged primarily in non-manufacturing activities are excluded from the OBE-SEC series but included in Census figures.

TABLE K. Expenditures for New Plant and Equipment for Manufacturing—OBE-SEC and Census of Manufactures Compared

(In billions of dollars)

| Year      | OBE SEC | Census           | Census as percent of OBE SEC |
|-----------|---------|------------------|------------------------------|
| 1963..... | \$15.7  | \$11.4           | 0.73                         |
| 1962..... | 14.7    | 10.0             | 0.68                         |
| 1961..... | 13.6    | 9.8              | 0.72                         |
| 1960..... | 14.5    | 10.0             | 0.69                         |
| 1959..... | 12.1    | 9.3              | 0.77                         |
| 1958..... | 11.4    | 9.6              | 0.84                         |
| 1954..... | 11.0    | 8.2              | 0.74                         |
| 1947..... | 8.7     | <sup>1</sup> 6.0 | 0.69                         |

Source: U.S. Department of Commerce, Office of Business Economics Business Statistics, 1963, and the Census of Manufactures.

<sup>1</sup>Excludes plants under construction but not yet in operation.



Both series, it should be noted, exclude expenditures for plant and equipment at establishments owned by the Federal Government but operated under lease or contract by private companies.

### 23. FUELS, ELECTRIC ENERGY, AND POWER EQUIPMENT

In industry table 7B, Volume II, and in chapter 6, Volume I, information on the use of detailed fuels and electric energy and on the horsepower of power equipment in place is provided for the year 1962. This information was collected as part of the 1963 Census of Manufactures on a special sample survey, "MC-D-12, Supplementary Inquiries for 1962." The information was collected for the year prior to the regular census in order to reduce the reporting burden on the respondents and the tabulation burden on the Bureau of the Census during a major census year. The survey report form was mailed to all establishments included in the 1962 Annual Survey of Manufactures. Insofar as these figures are based on a sample, they must be considered approximations and subject to sampling error. A more complete discussion of the compilation and limitations of these data appear in the introductory text to chapter 6, Volume I.

Totals for prime movers and electric motors are shown separately. The horsepower ratings for "prime movers" include information for such types of power equipment as internal combustion engines, steam and hydraulic turbines, and reciprocating steam engines. The totals for prime movers are further separated between those driving electric generators and those used for other purposes. The statistics for prime movers not driving generators exclude data for automobiles, trucks, and other highway equipment.

The aggregate horsepower figure represents the unduplicated rating for total installed equipment and thus provides a measure of the mechanical power available in manufacturing establishments. The figure is derived by summing the horsepower rating of prime movers and that for electric motors driven by purchased electricity. To secure the latter figure, the total horsepower for electric motors was distributed, by establishment, into two categories: Motors driven by purchased electricity and motors driven by energy generated at the establishment. For the relatively small number of establishments which both generate and purchase electricity, the total horsepower for electric motors was prorated on the basis of the ratio of the net quantity purchased to the net total for electricity consumed.

As in past censuses, respondents were requested to report horsepower of stand-by equipment as well as equipment in operation at the end of the year, including all prime movers and motors in mobile (except automo-

biles, trucks, and other highway equipment) as well as in stationary equipment.

Separate data are shown for coal, coke, fuel oil, gas, and other fuels used for heat and power; purchased electric energy; electric energy generated by manufacturing establishments; and energy generated less sold. Total figures for purchased fuels and electric energy were published as part of the 1962 Annual Survey of Manufactures at the 2-digit major group and selected 3-digit industry group levels.

### 24. PLANT SPECIALIZATION DATA

As discussed above, the relationship between the product output and the statistics on employment, payrolls, cost of materials, and value of shipments for an industry can be measured by the specialization ratio and the coverage ratio for the industry. At the aggregate industry level, these data relationships are presented in tables 5A and 5B of the industry reports. For each establishment, two measures of its degree of specialization are prepared: (1) A 4-digit primary product-specialization ratio which is the sum of the values of all the plant's primary products divided by the sum of all its primary and secondary products; and (2) a 5-digit primary product-class specialization code which is the sum of the largest 5-digit product-class value divided by the sum of its primary and secondary products (contract work and miscellaneous receipts and resales are not included in these calculations). For example, assume that an establishment reported the following:

|                                    |         |
|------------------------------------|---------|
| Total value of shipments           | \$1,000 |
| Miscellaneous receipts and resales | 15      |
| Total products shipped             | 985     |
| 32721 Concrete pipe products       | 100     |
| 32722 Precast concrete products    | 785     |
| 32730 Ready mixed concrete         | 100     |

This plant would be coded into the 4-digit SIC industry 3272, *Concrete Products*, with a primary product specialization ratio of 90 percent ( $\$885 \div 985$ ); it would be subclassified into the 5-digit class 32722, *Precast Concrete*, with a primary product class specialization ratio of 80 percent.

In the census of manufactures, general statistics (employment, payrolls, cost of materials, value of shipments, etc.) have been tabulated to 4-digit industry and 5-digit primary product-class levels on the basis of assigning the plant totals to the principal 4- and 5-digit codes representing its output. Table 8 of the industry chapter, Volume II, provides general statistics for those 4- and 5-digit industry categories with subtotals for the two largest specialization classes (90 percent and over, 75 to 90 percent). Not all industries and product classes can be shown in table 8 without disclosing figures for individual companies.



Certain product classes are primary to more than one industry. The industry classification of establishments primarily producing such classes of products is determined on the basis of the kind of operation performed in the establishment; e.g., making the product from purchased materials or from materials produced at the same location. In the plant specialization data (table 8), product classes primary to two or more industries are shown in each of the respective industries. For each industry, the specialization data by industry and product class include only those establishments producing the class of product in the manner defined (e.g., lubricating oils from purchased materials).

Table 8 of the Industry Volume permits analysis of an industry in terms of the differences introduced by variation among establishments in the degree of specialization in the products of the industry or a subgroup (5-digit). For example, where the ratios of various statistics tend to be different for establishments specializing to different degrees in the products of the industry or in different product classes, the ratios for the industry as a whole would be significantly affected by shifts in product mix. It should be noted that for those industries in which a production process results in the manufacture of byproducts or other similarly higher correlated products which are separate product classes in the census, the degree of specialization in each of the product classes tends to be somewhat lower.

Differences in the degree of integration of production processes within establishments are often more important than the element of product mix. A partial measure of differences arising from this factor can be derived for some industries through the metalworking operations or other equipment data. For some other industries, data on the production and use of products within the same establishments may be used as an approximate measure.

### III. SPECIAL INQUIRIES, REPORTS, AND PROCEDURES

#### 25. SPECIAL INQUIRIES

**Selected Metalworking Operations.—**For all industries in SIC Major Groups 35 and 37, and for selected 4-digit industries in Groups 19, 33, 34, 36, and 38, the 1963 census included a special inquiry on "Selected Metalworking and Related Operations" to provide a measure of certain metalworking and related facilities in manufacturing. The following operations were included in this inquiry: foundry (iron or steel); foundry (nonferrous, except die castings); die casting (nonferrous metal only); forging—presses, hammers, or upsetters; electroplating and other plating; gal-

vanizing and other hot-dip coating; heat treating of metals for production purposes; automatic screw machine department; machine shop; tool and die shop, if separate from machine shop; pattern shop (foundry patterns only—metal, wood, etc.); plate or structural fabrication; stamping, blanking, and forming of metals; painting, lacquering, and enameling of metals; plastics molding; assembly of product; and shipping department (including packing and crating).

In Volume I, Chapter 9, Selected Metalworking Operations, the number of establishments performing these operations and the number of production workers engaged in these operations classified by size of the specific operation are shown by industry in table 1 and, for selected operations, by geographic division and State in table 2. The size distribution is based on the number of production workers usually employed in the operation. In addition, for selected industries, the actual number of man-hours worked by production workers in specified operations is also shown. The metalworking operations data by industry are also presented in table 9 of the industry chapters in Volume II.

Information on selected metalworking operations was obtained for practically all industries where such operations are important. For individual industries or groups of industries, the inquiry on metalworking and related operations was tailored to fit the principal operations that were characteristic of those industries.

In many industries, however, small establishments reported on a short form that did not include the inquiry on metalworking operations. Also, a few larger establishments that filed standard forms did not report their metalworking operations. This has resulted in an understatement of the number of establishments maintaining specific operations, primarily in the smallest size class, and to a much smaller degree an understatement of the total number of production workers in the operation.

An approximation of the coverage in terms of number of production workers is provided for both industry and geographic totals. The coverage for most industries is over 90 degree an understatement of the total number larger establishments predominate.

For foundry operations, the number of plants operating foundries consists of the number reporting the operation for each industry plus the number of establishments classified in the foundries industries. For forgings operations, the number of plants operating forge shops consists of the number reporting the operation for each industry plus the number of establishments classified in the forgings industries. In footnotes to table 1,



1963 data are shown for the number of establishments classified in these industries. For example, in addition to establishments shown in the table as operating foundries and die casting facilities, the number of establishments classified in the foundry industries is given in the footnote. In the State table, separate columns have been included giving the number of establishments classified in these industries in each State. Similarly, the form used by respondents in industry 3471, Planting and Polishing, did not include the metalworking inquiry. Consequently, data for establishments in these latter industries were presented in the same manner as for the foundry industries.

A limited inquiry covering machine shops and pattern-shop operations was included for the foundry industries, and an inquiry covering machine shops and tool and die shops was included for the forgings industries.

**Selected Equipment Data.**—An inventory of textile equipment in place was obtained for a number of the important machines used in the basic textile industries. These data, grouped by type of operation or industry activity of the plant, are shown in a separate chapter in the Industry Volume. Information regarding the coverage of the inquiry is also shown.

**Special Departmental Reports.**—For paper plants, stone and clay plants, steel plants, aluminum rolling mills, brass mills, and nonferrous wire drawing and insulating plants, where vertically integrated activities are characteristic of establishment operations, selected employment information regarding certain departmental activities was obtained in the 1963 census, as had been done in the 1958 census. Information relating to pulping departments, printing employment, and presses in paper and paperboard converting plants, quarrying activities, and selected operations in steel plants, aluminum rolling mills, brass mills, and nonferrous wire drawing and insulating plants is shown in the chapters for these industries in the Industry Volume.

**Distribution of Products or Sales.**—There was a series of special inquiries which collected information on the distribution of specific products; e.g., sales of packaged milk by retail and wholesale routes; the number and payroll of delivery employees engaged in the milk, bakery, soft drink, and beer industries; sale of books and storage batteries by class of customer; the circulation of periodicals by type of periodical and frequency of issue; production of shoes and slippers by type of construction.

The data resulting from these selected special inquiries on the standard census forms appear in the chapters for the industry in Volume II.

## 26. SUBJECT REPORTS SHOWN IN VOLUME I, SUMMARY AND SUBJECT STATISTICS

In Volume I, there are several summary reports on inventories, capital expenditures, size of establishments, type of organization, power equipment in place, fuels and electric energy, materials consumed, water use, shipments of defense-related products, operations of government-owned establishments, exports of manufactured products, and the degree of concentration in manufacturing.

Most of these chapters are merely summarizations or special compilations of data reported on the standard census forms and presented in the industry or area chapters. Others, however, are the result of information collected on special surveys. The introduction to each of these latter reports describes the report form used, and the sampling or compilation techniques used to assemble the data.

The following chapters which are re-compilations of basic data reported on the census of manufactures report forms should be noted.

**Size of Establishment.**—Each establishment in the census is coded not only to an industry and geographic location but also by its size based on the average number of employees for the year. These size tabulations provide significant insight into the variations in operating ratios among plants within an industry and between industries. Information on the number of establishments, employment, payrolls, value added, value of shipments, and capital expenditures is presented for 10 employment size classes in each industry in table 4, Volume II, and in chapter 2, Summary Volume I. In Volume I, size information at the 2-digit industry and all-manufacturing levels is presented.

### **Type of Organization:**

*Multiunit, Single-Unit Establishments.*—Information on whether plants are independent or part of multiestablishment companies contributes importantly to our knowledge of the structure of manufactures in the United States. However, this classification is affected by the way the census of manufactures is conducted. Prior to the 1954 census, the census of manufactures was conducted independently and the multiunit classification was assigned if the company operated more than one manufacturing plant. Beginning in 1954, it has been part of the overall census of business, manufactures, and mineral industries and the multiunit classification applies to companies that may have only one manufacturing plant but also operate separate retail, wholesale, service, or minerals establishment, or a separate administrative office.



The proportion of employees and of value added by manufacture accounted for by multiunit plants has grown rapidly since 1947. (See table L.)

TABLE L. Multiunit Plants as a Percentage of Total Manufacturing

| Year      | Employees | Value added by manufacture |
|-----------|-----------|----------------------------|
| 1963..... | 68        | 76                         |
| 1958..... | 65        | 74                         |
| 1954..... | 61        | 68                         |
| 1947..... | 56        | 59                         |

However, some of the increase from 1947 to 1954 was a consequence of taking the censuses of manufactures, mining, trade, and services simultaneously in 1954, but not in 1947.

*Legal Form of Organization.*—

Each establishment was asked to report the forms of organization of the company which operated it; e.g., corporation, partnership, proprietorship, cooperative. In chapter 3, Volume I, selected general statistics are shown for each 4-digit industry for each of these forms of business organization. Cooperatives are combined with "other" forms of business organization because of the disclosure problems. In manufacturing, about half the plants are operated by corporations but these plants account for about 95 percent of value added by manufacture.

**Concentration Ratios in Manufacturing.**—In chapter 11 of Volume I, information is provided on the share of all manufacturing accounted for by the 50, 100, 150, and 200 largest manufacturing companies ranked by their total value added in manufacturing for 1963, 1958, 1954, and 1947. Information is also shown for the share of value of shipments in each 4-digit industry accounted for by the 4, 8, 20, and 50 largest companies in each of these industries. A description of the methods used in compiling these data accompanies the tables in Volume I.

**27. IMPUTATION OF DATA**

Each "key" census total called for on the standard forms had its counterpart in the various short forms. The short forms, however, did not require the detailed distribution of such totals (see section 8, The Census Report Forms). It was necessary, therefore, to impute figures for these missing detail items in order to publish universe totals of manufacturing activity.

Imputation of missing items, which was done on an industry basis, was made feasible

by use of the Census Bureau's high-speed electronic computer. The procedures for imputation were of two types: (1) Production workers, production-worker wages, and man-hours were imputed from fixed ratios specified in advance from historical relationships of these items to total employees and total payroll; (2) other items, such as capital expenditures and inventories, were imputed on the basis of their historical relationship to value of shipments. Missing detail was generally imputed on the basis of the historical relationship of the item to its respective total.

For industries characterized by establishments of some size, the percentage of imputation of general measures such as employment and payrolls, cost of materials, inventories, expenditures, and the like is negligible; for the industries in which small establishments account for a significant portion of the total, the percent may go as high as 10 or 25, but this occurs only in a handful of industries. Of the various statistics, man-hours worked tended to have a higher degree of imputation than the other items due to difficulties in reporting those data by small and medium-size establishments.

The major exceptions to the imputation procedure for missing data were the detailed products and materials, metalworking operations, and equipment inquiries. The value of products and the cost of materials, parts, supplies and containers for establishments not reporting the detailed inquiries were treated as "unspecified" materials or products in the appropriate tables. For metalworking operations and equipment, the statistics were based on establishments reporting data, with appropriate measures of coverage shown in the tables.

**28. CONFIDENTIALITY OF DATA FOR INDIVIDUAL COMPANIES**

The Bureau of the Census is prohibited by law from publishing any statistics that disclose information reported by individual companies. In the 1963 census, as in previous censuses, preference was given to geographic regions and divisions over individual States in applying disclosure rules; similarly, States took precedence over standard metropolitan areas, while such areas were given preference over counties, and counties over cities. In tables showing industry detail, major industry group (2-digit) totals were given preference over industry group (3-digit) totals which, in turn, had precedence over individual (4-digit) industries. Similarly, in product tables, 4-digit product groupings took precedence over 5-digit product classes; the latter were given precedence over individual 7-digit products.

Such order of precedence was used because (1) it was considered preferable to show

regional data for an industry, even at the cost of withholding data for some (usually the least significant) State in a region, rather than to show all publishable data for the individual States and group the disclosure States throughout the United States in an "all other" category as was done in the 1939 and earlier censuses; and (2) by giving preference to industry group statistics over individual industries within each State, the extent to which individual States can be compared within the SIC industry classification framework is increased.

For each producing State not shown separately in table 2 of the Industry Volume, a footnote gives the number of establishments and either an employment range or the actual employment figure. The employment is shown in a range if the State had less than 1,000 employees, and the employment data represented the total for only one or two companies, or if the exact figure would permit deriving (by subtraction) the number of employees in other States represented by only one or two companies. In addition, figures for States with less than 100 employees are shown only in the footnote together with the number of establishments and employment in a range.

In the Area Volume, figures are not shown for a county or for an industry within a State, metropolitan area, or principal industrial county if the publication of such statistics would disclose information for individual companies. In table 4 of that Volume, however, the number of establishments is shown for every county and the number of employees for most counties represented by three or more companies. Moreover, all counties having manufacturing establishments are included in table 7, showing for each county, the distribution by employment size of establishments in each major industry group.

A special series of publications entitled "Location of Manufacturing Plants" was originally developed for the 1954 census and has been continued in subsequent censuses. In these publications are tables showing the number of establishments cross-classified by 4-digit industry, county, and employment size class. This is the maximum information which can be provided at such narrow industry-area-size categories without disclosing figures for individual companies. These data are designed to meet the needs of (a) those involved in economic development programs at the regional, State, and local area levels, (b) those engaged in industrial market analysis or allocation of

sales territories, and (c) those concerned with industrial dispersion, regional shifts of industry, and similar problems. For a more complete description of the content of these publications, see the publication statement in the introduction of this volume.

For industries with few establishments or considerable geographic concentration, it has frequently been necessary to use geographic regions broader than the traditional nine census divisions in order to show all plants by some geographic grouping. For this purpose the following combinations of Census divisions have been used:

- NORTHEAST
  - New England
  - Middle Atlantic
- NORTH CENTRAL
  - East North Central
  - West North Central
- SOUTH
  - South Atlantic
  - East South Central
  - West South Central
- WEST
  - Mountain
  - Pacific

## 29. ABBREVIATIONS

The following abbreviations and symbols occur frequently in tables and footnotes:

- Zero
- X Not applicable
- NA Not available
- n.e.c. Not elsewhere classified
- n.s.k. Not specified by kind
- lin. Linear
- equiv. Equivalent
- hp Horsepower
- kw.-hrs. Kilowatt-hours
- D Withheld to avoid disclosing figures for individual companies
- SIC Standard Industrial Classification

Other abbreviations, such as lb., gal., yd., doz., and bbl., are used in the customary sense. Where the term "tons" only is used, it refers to short tons of 2,000 pounds; where the figures are expressed in tons of 2,240 pounds, the unit of measure is specified as "long tons" or "gross tons."



## Petroleum and Coal Products

### 29A Petroleum refining and related industries

This major group includes establishments primarily engaged in petroleum refining, manufacturing paving and roofing materials, and compounding lubricating oils and greases from purchased materials. Establishments manufacturing and distributing gas (water or coke oven) to consumers are classified in public utilities industries, and those primarily engaged in producing coke and byproducts in Major Group 33. Establishments primarily engaged in producing crude petroleum, natural gas, natural gasoline, and cycle condensation are classified in mining industries.

# PETROLEUM AND COAL PRODUCTS: MAJOR GROUP 29

Value Added by Manufacture by State: 1963

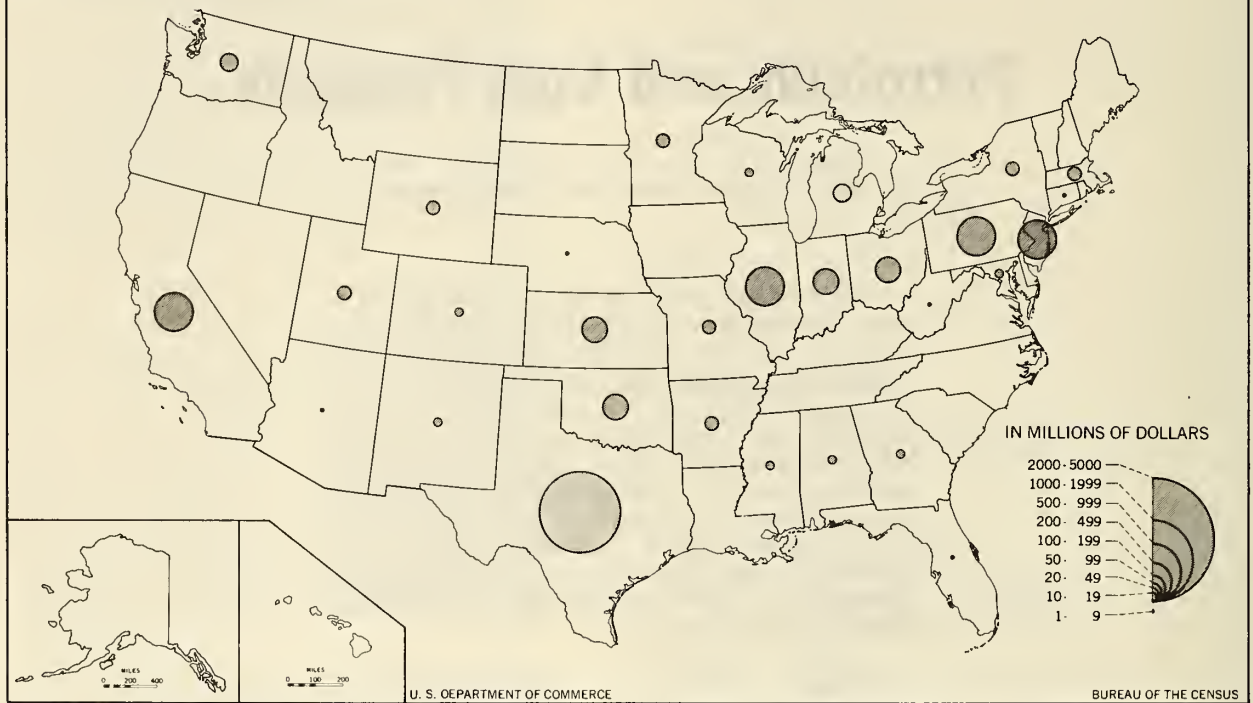




TABLE 1. General Statistics: 1963 and Earlier Years

| Year and item  | Establishments |                                    | All employees <sup>1</sup> |                   | Production workers |                   |                 | Value added by manufacture <sup>6</sup> adjusted | Cost of materials <sup>3</sup> | Value of shipments <sup>3</sup> | Capital expenditures, new <sup>4</sup> |
|--|----------------|------------------------------------|----------------------------|-------------------|--------------------|-------------------|-----------------|--|--------------------------------|---------------------------------|--|
|  | Total (number) | With 20 employees or more (number) | Total (number)             | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                |                                 |  |
| <b>ALL MANUFACTURING ESTABLISHMENTS: TOTAL:</b>          |                |                                    |                            |                   |                    |                   |                 |  |                                |                                 |  |
| 1963 <sup>5</sup>  | 2 056          | 840                                | 219 903                    | 1 762 860         | 109 448            | 216 679           | 745 123         | 3 713 231  | 14 291 526                     | 17 994 742                      | 413 681                                |
| 1958   | 1 941          | 653                                | 247 440                    | 1 665 855         | 130 508            | 255 360           | 758 422         | 2 518 424  | (NA)                           | 15 623 067                      | 681 805                                |
| 1954   | 1 262          | 592                                | 230 965                    | 1 285 271         | 135 844            | 269 311           | 659 243         | 2 240 876  | (NA)                           | (NA)                            | 673 883                                |
| <b>ADMINISTRATIVE AND AUXILIARY UNITS:</b>               |                |                                    |                            |                   |                    |                   |                 |  |                                |                                 |  |
| 1963 <sup>5</sup>  | 217            | 151                                | 66 417                     | 629 095           | (X)                | (X)               | (X)             | (X)  | (X)                            | (X)                             | (X)                                    |
| 1958 <sup>5</sup>  | 233            | 168                                | 68 274                     | 539 182           | (X)                | (X)               | (X)             | (X)  | (X)                            | (X)                             | (X)                                    |
| 1954   | (NA)           | (NA)                               | 47 626                     | 332 036           | (X)                | (X)               | (X)             | (X)  | (X)                            | (X)                             | (X)                                    |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>           |                |                                    |                            |                   |                    |                   |                 |  |                                |                                 |  |
| 1963 <sup>5</sup>  | 1 839          | 689                                | 153 486                    | 1 133 765         | 109 448            | 216 679           | 745 123         | 3 713 231  | 14 291 526                     | 17 994 742                      | 413 681                                |
| 1958   | 1 708          | 821                                | 179 166                    | 1 116 673         | 130 508            | 255 360           | 758 422         | 2 518 424  | (NA)                           | 15 623 067                      | 681 805                                |
| 1954 <sup>6</sup>  | 1 262          | 592                                | 230 965                    | 1 285 271         | 135 844            | 269 311           | 659 243         | 2 240 876  | (NA)                           | (NA)                            | 673 883                                |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS (ORIGINAL)</b> | 1 381          | 681                                | 215 843                    | 1 101 814         | 163 811            | 322 947           | 778 408         | 2 621 999  | (NA)                           | (NA)                            | 753 184                                |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>           |                |                                    |                            |                   |                    |                   |                 |  |                                |                                 |  |
| 1962 <sup>6</sup>  | (NA)           | (NA)                               | 154 281                    | 1 096 884         | 109 985            | 221 283           | 724 239         | 3 439 041  | 13 786 473                     | 17 192 541                      | 479 413                                |
| 1961 <sup>6</sup>  | (NA)           | (NA)                               | 159 604                    | 1 118 102         | 114 380            | 228 952           | 745 071         | 3 382 110  | 13 493 366                     | 16 827 300                      | 494 969                                |
| 1960 <sup>6</sup>  | (NA)           | (NA)                               | 170 946                    | 1 145 366         | 124 090            | 249 573           | 772 921         | 3 307 531  | (NA)                           | (NA)                            | 484 808                                |
| 1959 <sup>6</sup>  | (NA)           | (NA)                               | 170 892                    | 1 128 014         | 124 194            | 246 470           | 761 368         | 2 894 208  | (NA)                           | (NA)                            | 430 523                                |
| 1957 <sup>6</sup>  | (NA)           | (NA)                               | 185 562                    | 1 149 941         | 135 094            | 268 144           | 771 048         | 3 249 345  | (NA)                           | (NA)                            | 899 551                                |
| 1956 <sup>6</sup>  | (NA)           | (NA)                               | 183 988                    | 1 082 575         | 136 276            | 271 084           | 744 071         | 3 317 815  | (NA)                           | (NA)                            | 700 700                                |
| 1955 <sup>6</sup>  | (NA)           | (NA)                               | 183 036                    | 1 001 312         | 135 815            | 270 888           | 692 015         | 2 793 104  | (NA)                           | (NA)                            | 545 343                                |
| 1953 <sup>7 8</sup>                                      | (NA)           | (NA)                               | 229 294                    | 1 139 577         | 175 770            | 350 552           | 820 992         | 2 795 373  | (NA)                           | (NA)                            | 833 410                                |
| 1952 <sup>7 8</sup>                                      | 1 024          | (NA)                               | 220 227                    | 1 035 721         | 170 260            | 338 431           | 751 099         | 2 618 927  | (NA)                           | (NA)                            | 612 258                                |
| 1951 <sup>7 8</sup>                                      | 889            | (NA)                               | 218 142                    | 970 072           | 169 929            | 346 969           | 712 090         | 2 686 571  | (NA)                           | (NA)                            | 448 983                                |
| 1950 <sup>7 8</sup>                                      | 1 142          | (NA)                               | 207 510                    | 850 261           | 161 945            | 330 222           | 623 752         | 2 138 570  | (NA)                           | (NA)                            | 331 541                                |
| 1949 <sup>7 8</sup>                                      | (NA)           | (NA)                               | 208 397                    | 820 223           | 166 653            | 335 646           | 614 279         | 1 743 845  | (NA)                           | (NA)                            | 473 704                                |
| 1947 <sup>6</sup>  | 1 411          | (NA)                               | 207 618                    | 725 983           | 165 405            | 354 089           | 543 362         | 1 990 944  | (NA)                           | (NA)                            | 399 754                                |
| 1939 <sup>9</sup>  | 1 227          | (NA)                               | (NA)                       | (NA)              | 107 695            | (NA)              | 176 606         | 697 273  | (NA)                           | (NA)                            | (NA)                                   |
| 1937   | 934            | (NA)                               | (NA)                       | (NA)              | 115 837            | (NA)              | 188 843         | 638 265  | (NA)                           | (NA)                            | (NA)                                   |
| 1935 <sup>10</sup>                                       | 928            | (NA)                               | 124 148                    | 186 513           | 105 079            | (NA)              | 143 053         | 471 411  | (NA)                           | (NA)                            | (NA)                                   |
| 1933   | 835            | (NA)                               | 102 523                    | 140 706           | 89 772             | (NA)              | 113 320         | 395 245  | (NA)                           | (NA)                            | (NA)                                   |
| 1931   | 859            | (NA)                               | (NA)                       | (NA)              | 90 827             | (NA)              | 139 812         | 431 585  | (NA)                           | (NA)                            | (NA)                                   |
| 1929 <sup>11</sup>                                       | 922            | (NA)                               | (NA)                       | (NA)              | 111 554            | (NA)              | 180 028         | 828 848  | (NA)                           | (NA)                            | (NA)                                   |
| 1927   | 645            | (NA)                               | 116 430                    | 201 760           | 99 845             | (NA)              | 159 044         | 543 148  | (NA)                           | (NA)                            | (NA)                                   |
| 1925   | 750            | (NA)                               | 113 072                    | 193 370           | 97 071             | (NA)              | 153 921         | 634 939  | (NA)                           | (NA)                            | (NA)                                   |
| 1923   | 781            | (NA)                               | 124 504                    | 210 125           | 103 110            | (NA)              | 163 279         | 562 039  | (NA)                           | (NA)                            | (NA)                                   |
| 1921   | 692            | (NA)                               | 102 485                    | 175 940           | 86 538             | (NA)              | 135 824         | 429 870  | (NA)                           | (NA)                            | (NA)                                   |
| 1919   | 787            | (NA)                               | 118 209                    | 182 389           | 97 250             | (NA)              | 142 615         | 510 769  | (NA)                           | (NA)                            | (NA)                                   |
| 1914   | 591            | (NA)                               | 59 956                     | 48 999            | 50 702             | (NA)              | 36 440          | 111 860  | (NA)                           | (NA)                            | (NA)                                   |
| 1909 <sup>12</sup>                                       | 590            | (NA)                               | 51 317                     | 34 076            | 45 755             | (NA)              | 26 764          | 76 299   | (NA)                           | (NA)                            | (NA)                                   |
| 1904   | 376            | (NA)                               | 39 111                     | 23 264            | 35 751             | (NA)              | 19 293          | 57 462   | (NA)                           | (NA)                            | (NA)                                   |
| 1899   | 308            | (NA)                               | 31 314                     | 16 411            | 29 198             | (NA)              | 13 803          | 36 989   | (NA)                           | (NA)                            | (NA)                                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. Revised.

The figures for 1939 through 1963 include data for employees of manufacturing establishments who are engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>2</sup>For the period 1954 to 1963, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. For 1899 to 1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture.

<sup>3</sup>The total value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry classification. For a more complete explanation, see Introduction.

<sup>4</sup>The figures for 1958 to 1963 include expenditures for plants under construction and not yet in operation.

<sup>5</sup>In addition to data for operating establishments 1954, 1958, and 1963 data are shown for manufacturer's central administrative offices and auxiliary units. Similar data are shown for the years 1949-1953 and 1955-1957 in annual survey of manufactures volumes. Data for these units are not available for the years prior to 1949.

<sup>6</sup>The 1957 edition of the Standard Industrial Classification classifies beehive coke ovens and byproduct coke ovens in Major Group 33. Such establishments were previously included in Major Group 29, Petroleum and Coal Products. However, this change was

reflected in the tabulations for 1955 to 1957 annual surveys of manufactures. Data for 1954 were retabulated on this basis and are the source of the data labeled "Revised". Figures labeled "Original" for 1954 and data for prior years include beehive and by-product coke ovens.

<sup>7</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>8</sup>The 1947 figures have been revised to exclude data for by-product coke plants operated in conjunction with public utilities manufacturing and distributing gas, and to include data for establishments primarily engaged in shipping lubricants and greases made from animal and vegetable oils (classified in Industry 2899 in 1947). The figures for 1949 to 1953 can not be revised to include these greases.

<sup>9</sup>Figures for years prior to 1939 exclude byproduct coke ovens owned by city gas companies. Such ovens represent less than 2 percent of the total value of products for the petroleum and coal products group for 1939.

<sup>10</sup>Excludes a few establishments engaged principally in blending and compounding lubricating oils.

<sup>11</sup>Figures for years prior to 1929 exclude lubricants, n.e.c. and paving mixtures and blocks. These industries represented 4 percent of the figure for number of production workers and 5 percent of the figure for value added by manufacture, shown for the petroleum and coal products group for 1929. Prior to 1929, the lubricants, n.e.c. industry is included in the series for chemical and allied products group.

<sup>12</sup>Figures for years prior to 1909 exclude fuel briquets and roofing felts and coatings. For 1909, these industries represented 6 percent of the figure for number of production workers and 9 percent of the figure for value added by manufacture shown for the petroleum and coal products group.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Code | Industry group and geographic area      | 1963           |                                    |                |                   |                    |                   |                 |  | 1958                                |                        |  |
|------|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 29   | PETROLEUM AND COAL PRODUCTS, TOTAL      | 1 839          | 689                                | 153 486        | 1 133 765         | 109 448            | 216 679           | 745 123         | 3 713 231                                      | 413 681                             | 179 166                | 2 518 424                                      |
|      | NORTHEAST                               | 474            | 139                                | 27 690         | 204 410           | 20 233             | 41 388            | 138 059         | 525 237  | 43 030                              | 33 484                 | 331 030  |
|      | NEW ENGLAND                             | 95             | 23                                 | 2 043          | 13 133            | 1 420              | 3 117             | 8 065           | 32 034   | 2 357                               | 2 345                  | 25 445   |
|      | MAINE                                   | 4              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | NEW HAMPSHIRE                           | 4              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | 60                     | 680  |
|      | VERMONT                                 | 1              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | MASSACHUSETTS                           | 58             | 16                                 | 1 413          | 8 770             | 987                | 2 264             | 5 430           | 21 963   | 1 378                               | 1 582                  | 17 251   |
|      | RHODE ISLAND                            | 4              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | 267                    | 3 016  |
|      | CONNECTICUT                             | 24             | 4                                  | 385            | 2 758             | 246                | 432               | 1 506           | 5 808  | 672                                 | (D)                    | (D)  |
|      | MIDDLE ATLANTIC                         | 379            | 116                                | 25 647         | 191 277           | 18 813             | 38 271            | 129 994         | 493 203  | 40 673                              | 31 139                 | 305 585  |
|      | NEW YORK                                | 145            | 29                                 | 2 446          | 18 257            | 1 671              | 3 471             | 11 925          | 48 895   | 3 418                               | 3 021                  | 34 395   |
|      | NEW JERSEY                              | 86             | 37                                 | 9 045          | 69 501            | 6 575              | 13 094            | 46 652          | 238 248  | 11 352                              | 11 377                 | 108 838  |
|      | PENNSYLVANIA                            | 148            | 50                                 | 14 156         | 103 519           | 10 567             | 21 706            | 71 417          | 206 060  | 25 903                              | 16 741                 | 162 352  |
|      | NORTH CENTRAL                           | 522            | 208                                | 37 197         | 274 826           | 26 613             | 53 487            | 179 694         | 886 919  | 67 113                              | 44 508                 | 681 569  |
|      | EAST NORTH CENTRAL                      | 408            | 154                                | 28 845         | 216 889           | 20 542             | 40 676            | 140 863         | 665 786  | 32 935                              | 35 254                 | 529 158  |
|      | OHIO                                    | 153            | 50                                 | 6 810          | 50 384            | 4 730              | 9 545             | 32 745          | 158 706  | 7 865                               | 7 672                  | 141 769  |
|      | INDIANA                                 | 53             | 21                                 | 7 333          | 58 356            | 5 419              | 10 458            | 39 524          | 154 522  | 7 774                               | 9 933                  | 117 522  |
|      | ILLINOIS                                | 97             | 50                                 | 11 346         | 83 577            | 8 073              | 15 594            | 52 572          | 250 378  | 13 989                              | 14 140                 | 208 297  |
|      | MICHIGAN                                | 74             | 23                                 | 2 781          | 20 905            | 1 957              | 4 344             | 13 814          | 89 647   | 2 713                               | 2 807                  | 50 709   |
|      | WISCONSIN                               | 31             | 10                                 | 575            | 3 667             | 363                | 735               | 2 208           | 12 533   | 594                                 | 702                    | 10 861   |
|      | WEST NORTH CENTRAL                      | 114            | 54                                 | 8 352          | 57 937            | 6 071              | 12 811            | 38 831          | 221 133  | 34 178                              | 9 254                  | 152 411  |
|      | MINNESOTA                               | 25             | 13                                 | 1 474          | 10 780            | 954                | 2 104             | 6 207           | 42 095   | 16 031                              | 1 289                  | 27 145   |
|      | IOWA                                    | 13             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | MISSOURI                                | 35             | 17                                 | 2 186          | 14 740            | 1 521              | 3 098             | 9 483           | 45 305   | 1 112                               | 2 769                  | 37 560   |
|      | NORTH DAKOTA                            | 4              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | SOUTH DAKOTA                            | 1              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | NEBRASKA                                | 6              | 3                                  | 176            | 821               | 117                | 230               | 552             | 4 721  | 152                                 | (D)                    | (D)  |
|      | KANSAS                                  | 30             | 16                                 | 3 954          | 27 728            | 3 083              | 6 531             | 20 218          | 115 621  | 15 943                              | 4 448                  | 72 097   |
|      | SOUTH                                   | 524            | 218                                | 62 000         | 464 033           | 43 860             | 86 771            | 302 008         | 1 623 797                                      | 208 019                             | 72 810                 | 1 051 123                                      |
|      | SOUTH ATLANTIC                          | 174            | 52                                 | 5 099          | 32 021            | 3 660              | 8 075             | 20 681          | 137 584  | 7 220                               | 4 794                  | 82 487   |
|      | DELAWARE                                | 10             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | MARYLAND                                | 33             | 12                                 | 1 190          | 7 685             | 865                | 2 040             | 5 227           | 19 201   | 1 897                               | 1 264                  | 18 818   |
|      | VIRGINIA                                | 14             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | WEST VIRGINIA                           | 25             | 6                                  | 559            | 3 010             | 467                | 913               | 2 440           | 8 423  | 718                                 | 709                    | 6 663  |
|      | NORTH CAROLINA                          | 13             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | 177                    | 1 589  |
|      | SOUTH CAROLINA                          | 12             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | GEORGIA                                 | 27             | 10                                 | 743            | 4 124             | 538                | 1 152             | 2 779           | 11 436   | 402                                 | 646                    | 7 199  |
|      | FLORIDA                                 | 40             | 14                                 | 795            | 3 777             | 572                | 1 267             | 2 394           | 8 432  | 660                                 | 701                    | 6 405  |
|      | EAST SOUTH CENTRAL                      | 95             | 24                                 | 2 761          | 18 096            | 2 017              | 4 161             | 12 639          | 67 761   | 54 384                              | 2 655                  | 46 822   |
|      | KENTUCKY                                | 18             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | 1 060                  | 25 756   |
|      | TENNESSEE                               | 26             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | ALABAMA                                 | 32             | 10                                 | 785            | 4 499             | 589                | 1 210             | 3 057           | 14 109   | 677                                 | 764                    | 9 491  |
|      | MISSISSIPPI                             | 19             | 7                                  | 630            | 4 810             | 476                | 1 004             | 3 834           | 14 575   | (D)                                 | (D)                    | (D)  |
|      | WEST SOUTH CENTRAL                      | 255            | 142                                | 54 140         | 413 916           | 38 183             | 74 535            | 268 688         | 1 418 452                                      | 146 415                             | 65 361                 | 921 814  |
|      | ARKANSAS                                | 18             | 10                                 | 1 445          | 9 417             | 1 115              | 2 384             | 6 761           | 25 517   | 945                                 | 1 582                  | 18 777   |
|      | LOUISIANA                               | 45             | 29                                 | 11 126         | 87 606            | 6 887              | 13 578            | 48 721          | 273 562  | 27 902                              | 14 287                 | 201 867  |
|      | OKLAHOMA                                | 41             | 19                                 | 5 606          | 36 796            | 4 501              | 8 829             | 28 946          | 113 718  | 4 430                               | 6 547                  | 108 447  |
|      | TEXAS                                   | 151            | 84                                 | 35 963         | 280 097           | 25 680             | 49 744            | 184 260         | 1 005 655                                      | 113 138                             | 42 945                 | 592 723  |
|      | WEST                                    | 319            | 124                                | 26 611         | 190 499           | 18 755             | 35 075            | 125 390         | 676 087  | 95 545                              | 28 364                 | 454 702  |
|      | MOUNTAIN                                | 73             | 40                                 | 5 505          | 39 863            | 3 814              | 7 651             | 26 903          | 117 801  | 22 150                              | 6 096                  | 103 067  |
|      | MDNTANA                                 | 10             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | 1 065                  | 24 081   |
|      | IOAHD                                   | 1              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | WYDMING                                 | 12             | 9                                  | 2 127          | 15 546            | 1 324              | 2 514             | 9 606           | 37 222   | 11 072                              | 2 421                  | 31 931   |
|      | CDLORAOO                                | 18             | 10                                 | 925            | 6 748             | 674                | 1 375             | 4 689           | 16 732   | 1 500                               | 808                    | 13 887   |
|      | NEW MEXICO                              | 8              | 6                                  | 504            | 3 225             | 391                | 795               | 2 282           | 10 351   | 318                                 | 661                    | 9 380  |
|      | ARIZONA                                 | 8              | 1                                  | 69             | 349               | 28                 | 71                | 152             | 1 249  | 97                                  | (D)                    | (D)  |
|      | UTAH                                    | 14             | 7                                  | 1 000          | 7 120             | 722                | 1 526             | 5 141           | 25 238   | 1 426                               | 1 080                  | 23 162   |
|      | NEVADA                                  | 2              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | PACIFIC                                 | 246            | 84                                 | 21 006         | 150 636           | 14 941             | 27 424            | 98 487          | 558 286  | 73 395                              | 22 328                 | 351 635  |
|      | WASHINGTON                              | 25             | 9                                  | 1 391          | 10 486            | 897                | 1 835             | 6 259           | 63 956   | 5 899                               | 1 305                  | 33 345   |
|      | DREGON                                  | 17             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | 279                    | 4 489  |
|      | CALIFDRNIA                              | 200            | 65                                 | 19 017         | 135 366           | 13 561             | 24 644            | 89 174          | 476 756  | 57 055                              | 20 744                 | 313 801  |
|      | ALASKA                                  | 2              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | HAWAII                                  | 2              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
| 291  | PETROLEUM REFINING, TDOTAL <sup>1</sup> | 427            | 297                                | 119 297        | 922 319           | 85 929             | 166 409           | 614 318         | 3 137 603                                      | 385 126                             | 146 025                | 2 119 402                                      |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area    | 1963           |                           |               |           |                    |           |           |                                      | 1958                      |               |                                      |
|------|---------------------------------------|----------------|---------------------------|---------------|-----------|--------------------|-----------|-----------|--------------------------------------|---------------------------|---------------|--------------------------------------|
|      |                                       | Establishments |                           | All employees |           | Production workers |           |           | Value added by manufacture, adjusted | Capital expenditures, new | All employees | Value added by manufacture, adjusted |
|      |                                       | Total          | With 20 employees or more | Total         | Payroll   | Total              | Man-hours | Wages     |                                      |                           |               |                                      |
|      |                                       | (number)       | (number)                  | (number)      | (\$1,000) | (number)           | (1,000)   | (\$1,000) | (\$1,000)                            | (\$1,000)                 | (number)      | (\$1,000)                            |
| 295  | PAVING AND ROOFING MATERIALS, TOTAL   | 992            | 267                       | 24 261        | 144 542   | 17 640             | 38 122    | 97 342    | 355 565                              | 22 009                    | 23 317        | 269 035                              |
|      | NORTHEAST . . . . .                   | 308            | 65                        | 5 877         | 37 724    | 4 323              | 9 486     | 25 641    | 91 850                               | 7 440                     | 5 888         | 72 760                               |
|      | NEW ENGLAND . . . . .                 | 73             | 17                        | 1 564         | 9 841     | 1 163              | 2 596     | 6 234     | 22 369                               | 2 000                     | 1 436         | 15 673                               |
|      | MIDDLE ATLANTIC . . . . .             | 235            | 48                        | 4 313         | 27 883    | 3 160              | 6 890     | 19 407    | 69 481                               | 5 440                     | 4 452         | 57 087                               |
|      | NEW YORK . . . . .                    | 107            | 18                        | 1 124         | 8 293     | 755                | 1 611     | 5 296     | 22 712                               | 1 981                     | 1 203         | 19 334                               |
|      | NEW JERSEY . . . . .                  | 47             | 15                        | 1 856         | 12 255    | 1 452              | 3 150     | 9 111     | 28 681                               | 2 588                     | 1 877         | 21 686                               |
|      | PENNSYLVANIA . . . . .                | 81             | 15                        | 1 333         | 7 335     | 953                | 2 129     | 5 000     | 18 088                               | 871                       | 1 372         | 16 067                               |
|      | NORTH CENTRAL . . . . .               | 260            | 76                        | 7 747         | 48 413    | 5 897              | 12 634    | 33 788    | 114 852                              | 5 824                     | 8 341         | 90 353                               |
|      | EAST NORTH CENTRAL . . . . .          | 214            | 63                        | 6 458         | 40 535    | 4 872              | 10 355    | 28 012    | 97 059                               | 4 954                     | 6 909         | 75 239                               |
|      | OHIO . . . . .                        | 98             | 23                        | 2 200         | 13 834    | 1 624              | 3 490     | 9 364     | 36 202                               | 2 231                     | 2 055         | 27 331                               |
|      | INDIANA . . . . .                     | 32             | 8                         | 633           | 4 296     | 463                | 1 024     | 2 722     | 10 650                               | 692                       | 611           | 6 654                                |
|      | ILLINOIS . . . . .                    | 45             | 23                        | 3 040         | 18 740    | 2 326              | 4 928     | 13 335    | 41 344                               | 1 458                     | 3 719         | 34 416                               |
|      | MICHIGAN . . . . .                    | 31             | 8                         | 515           | 3 250     | 410                | 824       | 2 357     | 8 113                                | 542                       | 477           | 6 317                                |
|      | WEST NORTH CENTRAL . . . . .          | 46             | 13                        | 1 289         | 7 878     | 1 025              | 2 279     | 5 776     | 17 793                               | 870                       | 1 432         | 15 114                               |
|      | MINNESOTA . . . . .                   | 12             | 5                         | 514           | 3 111     | 384                | 830       | 2 008     | 6 389                                | 324                       | 452           | 5 043                                |
|      | MISSOURI . . . . .                    | 15             | 7                         | 628           | 3 830     | 527                | 1 163     | 3 088     | 8 652                                | 296                       | (D)           | (D)                                  |
|      | SOUTH . . . . .                       | 276            | 82                        | 7 348         | 36 487    | 5 144              | 11 240    | 23 430    | 92 707                               | 5 302                     | 5 926         | 60 653                               |
|      | SOUTH ATLANTIC . . . . .              | 132            | 34                        | 2 879         | 15 173    | 2 206              | 5 056     | 10 859    | 39 327                               | 3 157                     | 2 143         | 26 050                               |
|      | DELAWARE . . . . .                    | 7              | 2                         | 166           | 920       | 123                | 251       | 608       | 1 501                                | 226                       | 109           | 904                                  |
|      | VIRGINIA . . . . .                    | 10             | 1                         | 165           | 927       | 136                | 344       | 724       | 2 883                                | 161                       | (D)           | (D)                                  |
|      | WEST VIRGINIA . . . . .               | 20             | 3                         | 248           | 1 237     | 197                | 359       | 942       | 2 797                                | 233                       | (D)           | (D)                                  |
|      | NORTH CAROLINA . . . . .              | 11             | 2                         | 174           | 798       | 147                | 319       | 635       | 2 096                                | 159                       | 156           | 1 496                                |
|      | GEORGIA . . . . .                     | 16             | 7                         | 531           | 2 814     | 398                | 860       | 2 018     | 8 339                                | 221                       | 404           | 4 719                                |
|      | FLORIDA . . . . .                     | 34             | 12                        | 673           | 3 215     | 487                | 1 089     | 2 043     | 7 214                                | 585                       | 473           | 5 038                                |
|      | EAST SOUTH CENTRAL . . . . .          | 66             | 13                        | 1 162         | 5 572     | 828                | 1 758     | 3 550     | 16 085                               | 1 101                     | 979           | 10 194                               |
|      | KENTUCKY . . . . .                    | 13             | 1                         | 105           | 489       | 80                 | 171       | 329       | 1 286                                | 222                       | (D)           | (D)                                  |
|      | TENNESSEE . . . . .                   | 20             | 3                         | 275           | 1 355     | 203                | 444       | 898       | 4 854                                | 356                       | (D)           | (D)                                  |
|      | ALABAMA . . . . .                     | 24             | 6                         | 529           | 2 800     | 371                | 764       | 1 734     | 8 395                                | 388                       | (D)           | (D)                                  |
|      | MISSISSIPPI . . . . .                 | 9              | 3                         | 253           | 928       | 174                | 379       | 589       | 1 550                                | 135                       | (D)           | (D)                                  |
|      | WEST SOUTH CENTRAL . . . . .          | 78             | 35                        | 3 307         | 15 742    | 2 110              | 4 426     | 9 021     | 37 295                               | 1 044                     | 2 804         | 24 409                               |
|      | LOUISIANA . . . . .                   | 19             | 8                         | 710           | 3 551     | 582                | 1 190     | 2 748     | 7 870                                | 235                       | 769           | 6 293                                |
|      | TEXAS . . . . .                       | 41             | 20                        | 1 932         | 9 288     | 985                | 2 032     | 4 244     | 22 436                               | 611                       | (D)           | (D)                                  |
|      | WEST . . . . .                        | 148            | 44                        | 3 301         | 21 921    | 2 289              | 4 804     | 14 511    | 56 703                               | 3 470                     | 3 162         | 45 269                               |
|      | MOUNTAIN . . . . .                    | 24             | 9                         | 542           | 3 184     | 327                | 694       | 1 809     | 6 285                                | 420                       | 317           | 4 010                                |
|      | COLORADO . . . . .                    | 6              | 3                         | 217           | 1 477     | 120                | 252       | 694       | 2 364                                | 169                       | (D)           | (D)                                  |
|      | ARIZONA . . . . .                     | 5              | 1                         | 57            | 306       | 19                 | 53        | 118       | 1 194                                | 82                        | (D)           | (D)                                  |
|      | PACIFIC . . . . .                     | 124            | 35                        | 2 759         | 18 737    | 1 962              | 4 110     | 12 702    | 50 418                               | 3 050                     | 2 845         | 41 259                               |
|      | OREGON . . . . .                      | 12             | 6                         | 298           | 1 795     | 225                | 467       | 1 255     | 4 374                                | 113                       | (D)           | (D)                                  |
|      | CALIFORNIA . . . . .                  | 101            | 24                        | 2 128         | 15 023    | 1 536              | 3 196     | 10 231    | 40 675                               | 2 371                     | (D)           | (D)                                  |
| 299  | PETROLEUM & COAL PRODUCTS, NEC, TOTAL | 420            | 125                       | 9 928         | 66 904    | 5 879              | 12 148    | 33 463    | 220 063                              | 6 546                     | 9 824         | 129 987                              |
|      | NORTHEAST . . . . .                   | 113            | 39                        | 3 289         | 23 427    | 1 995              | 4 056     | 11 661    | 67 077                               | 1 563                     | 3 104         | 41 321                               |
|      | NEW JERSEY . . . . .                  | 25             | 12                        | 1 346         | 8 762     | 964                | 1 827     | 5 629     | 33 260                               | 456                       | 1 309         | 18 234                               |
|      | PENNSYLVANIA . . . . .                | 43             | 18                        | 1 394         | 10 982    | 740                | 1 577     | 4 396     | 22 600                               | 637                       | 1 257         | 17 517                               |
|      | NORTH CENTRAL . . . . .               | 165            | 60                        | 4 603         | 30 787    | 2 554              | 5 212     | 14 319    | 109 292                              | 2 583                     | 4 341         | 59 691                               |
|      | OHIO . . . . .                        | 40             | 16                        | 1 051         | 7 341     | 496                | 960       | 3 078     | 18 686                               | 503                       | 1 022         | 12 958                               |
|      | INDIANA . . . . .                     | 6              | 1                         | 134           | 1 630     | 46                 | 103       | 247       | 5 690                                | 90                        | 166           | 2 520                                |
|      | ILLINOIS . . . . .                    | 36             | 15                        | 1 282         | 8 975     | 725                | 1 538     | 4 093     | 29 735                               | 1 177                     | 1 044         | 16 672                               |
|      | MICHIGAN . . . . .                    | 28             | 5                         | 306           | 2 189     | 166                | 365       | 1 052     | 9 879                                | 108                       | 348           | 4 569                                |
|      | WISCONSIN . . . . .                   | 16             | 5                         | 248           | 1 544     | 140                | 277       | 852       | 6 595                                | 45                        | 418           | 7 322                                |
|      | MINNESOTA . . . . .                   | 7              | 3                         | 136           | 825       | 85                 | 182       | 503       | 5 382                                | 80                        | (D)           | (D)                                  |
|      | SOUTH . . . . .                       | 80             | 14                        | 1 332         | 7 888     | 862                | 1 926     | 4 795     | 22 049                               | 1 719                     | (D)           | (D)                                  |
|      | SOUTH ATLANTIC . . . . .              | 23             | 6                         | 320           | 1 735     | 179                | 393       | 917       | 5 050                                | (D)                       | 518           | 4 504                                |
|      | EAST SOUTH CENTRAL . . . . .          | 13             | -                         | 86            | 521       | 60                 | 140       | 344       | 986                                  | (D)                       | (D)           | (D)                                  |
|      | WEST SOUTH CENTRAL . . . . .          | 44             | 8                         | 926           | 5 632     | 623                | 1 393     | 3 534     | 16 013                               | 1 191                     | 1 020         | 12 174                               |
|      | LOUISIANA . . . . .                   | 7              | 4                         | 412           | 2 713     | 294                | 658       | 1 779     | 7 238                                | 989                       | 395           | 4 593                                |
|      | TEXAS . . . . .                       | 27             | 3                         | 331           | 2 138     | 226                | 518       | 1 413     | 6 864                                | 162                       | (D)           | (D)                                  |
|      | WEST . . . . .                        | 62             | 12                        | 704           | 4 802     | 468                | 954       | 2 688     | 21 645                               | 680                       | 750           | 11 446                               |
|      | MOUNTAIN . . . . .                    | 5              | 1                         | 29            | 173       | 23                 | 49        | 142       | 287                                  | 21                        | 110           | 1 269                                |
|      | PACIFIC . . . . .                     | 57             | 11                        | 675           | 4 629     | 445                | 905       | 2 546     | 21 358                               | 659                       | 640           | 10 177                               |
|      | CALIFORNIA . . . . .                  | 49             | 10                        | 627           | 4 241     | 414                | 839       | 2 354     | 18 725                               | 605                       | (D)           | (D)                                  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.  
 \*This industry group consists of a single 4-digit industry. Detailed data by State are included in the 4-digit industry tables.

TABLE 3. Detailed Statistics: 1963

| Item   | Petroleum and coal products<br>(SIC 29) | Petroleum refining (SIC 291) | Paving and roofing materials<br>(SIC 295) | Petroleum and coal products,<br>n.e.c. (SIC 299) |
|--|---|------------------------------|---|--|
| ESTABLISHMENTS, TOTAL . . . . . NUMBER . . . . .                                 | 1 839                                   | 427                          | 992                                       | 420  |
| WITH 1 TO 19 EMPLOYEES . . . . . DO . . . . .                                    | 1 150                                   | 130                          | 725                                       | 295  |
| WITH 20 TO 99 EMPLOYEES . . . . . DO . . . . .                                   | 425                                     | 103                          | 215                                       | 107  |
| WITH 100 EMPLOYEES OR MORE . . . . . DO . . . . .                                | 264                                     | 194                          | 52  | 18   |
| PROPRIETORS AND WORKING PARTNERS . . . . . DO . . . . .                          | 318                                     | 71                           | 137                                       | 110  |
| ALL EMPLOYEES (AVERAGE FOR THE YEAR) . . . . . DO . . . . .                      | 153 486                                 | 119 297                      | 24 261                                    | 9 928  |
| PAYROLL (ALL EMPLOYEES), TOTAL FOR YEAR . . . . . \$1,000 . . . . .              | 1 133 765                               | 922 319                      | 144 542                                   | 66 904   |
| PRODUCTION WORKERS:  |   |                              |   |  |
| AVERAGE FOR THE YEAR . . . . . NUMBER . . . . .                                  | 109 448                                 | 85 929                       | 17 640                                    | 5 879  |
| MARCH . . . . . DO . . . . .   | 105 821                                 | 85 879                       | 14 273                                    | 5 669  |
| MAY . . . . . DO . . . . .   | 110 182                                 | 85 902                       | 18 453                                    | 5 827  |
| AUGUST . . . . . DO . . . . .  | 113 216                                 | 87 094                       | 20 085                                    | 6 037  |
| NOVEMBER . . . . . DO . . . . .  | 108 513                                 | 84 799                       | 17 727                                    | 5 987  |
| MAN-HOURS . . . . . \$1,000 . . . . .  | 216 679                                 | 166 409                      | 38 122                                    | 12 148   |
| JANUARY-MARCH . . . . . DO . . . . .   | 51 858                                  | 41 639                       | 7 300                                     | 2 919  |
| APRIL-JUNE . . . . . DO . . . . .  | 55 235                                  | 42 059                       | 10 093                                    | 3 083  |
| JULY-SEPTEMBER . . . . . DO . . . . .  | 55 846                                  | 41 452                       | 11 315                                    | 3 079  |
| OCTOBER-DECEMBER . . . . . DO . . . . .  | 53 740                                  | 41 259                       | 9 414                                     | 3 067  |
| WAGES . . . . . \$1,000 . . . . .  | 745 123                                 | 614 318                      | 97 342                                    | 33 463   |
| COST OF MATERIALS, ETC., TOTAL <sup>1</sup> . . . . . DO . . . . .               | 14 291 526                              | 13 367 328                   | 600 795                                   | 323 403  |
| MATERIALS, PARTS, CONTAINERS, AND SUPPLIES CONSUMED . . . . . DO . . . . .       | 13 185 620                              | 12 383 982                   | 508 511                                   | 293 127  |
| COST OF REALES . . . . . DO . . . . .  | 670 486                                 | 588 224                      | 58 993                                    | 23 269   |
| FUELS CONSUMED . . . . . DO . . . . .  | 289 475                                 | 267 291                      | 18 898                                    | 3 286  |
| ELECTRIC ENERGY:   |   |                              |   |  |
| PURCHASED:   |   |                              |   |  |
| QUANTITY . . . . . MILLION KW.-HRS. . . . .                                      | 13 981                                  | 13 416                       | 469                                       | 96   |
| COST . . . . . \$1,000 . . . . .   | 112 640                                 | 103 361                      | 7 621                                     | 1 658  |
| GENERATED LESS SOLD . . . . . MILLION KW.-HRS. . . . .                           | 4 640                                   | 3 780                        | 860                                       | -  |
| CONTRACT WORK . . . . . \$1,000 . . . . .  | 33 285                                  | 24 450                       | 6 772                                     | 2 063  |
| VALUE OF SHIPMENTS (INCLUDING REALES), TOTAL <sup>1</sup> . . . . . DO . . . . . | 17 994 742                              | 16 496 896                   | 955 092                                   | 542 754  |
| VALUE OF REALES . . . . . DO . . . . .   | 735 321                                 | 628 458                      | 71 658                                    | 35 205   |
| VALUE ADDED BY MANUFACTURE, ADJUSTED . . . . . DO . . . . .                      | 3 713 231                               | 3 137 603                    | 355 565                                   | 220 063  |
| MANUFACTURERS' INVENTORIES:  |   |                              |   |  |
| BEGINNING OF YEAR, TOTAL . . . . . DO . . . . .                                  | 1 829 302                               | 1 708 184                    | 53 732                                    | 67 386   |
| FINISHED PRODUCTS . . . . . DO . . . . .   | 1 079 509                               | 1 023 117                    | 27 605                                    | 28 787   |
| WORK-IN-PROCESS . . . . . DO . . . . .   | 371 713                                 | 366 217                      | 1 929                                     | 3 567  |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO . . . . .                             | 378 080                                 | 318 850                      | 24 198                                    | 35 032   |
| END OF YEAR, TOTAL . . . . . DO . . . . .  | 1 818 020                               | 1 695 549                    | 55 158                                    | 67 313   |
| FINISHED PRODUCTS . . . . . DO . . . . .   | 1 112 667                               | 1 054 403                    | 28 821                                    | 29 443   |
| WORK-IN-PROCESS . . . . . DO . . . . .   | 348 570                                 | 342 966                      | 1 981                                     | 3 623  |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO . . . . .                             | 356 783                                 | 298 180                      | 24 356                                    | 34 247   |
| EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . . . DO . . . . .               | 422 491                                 | 391 177                      | 24 470                                    | 6 844  |
| NEW, TOTAL . . . . . DO . . . . .  | 413 681                                 | 385 126                      | 22 009                                    | 6 546  |
| NEW STRUCTURES AND ADDITIONS TO PLANT . . . . . DO . . . . .                     | 283 779                                 | 275 279                      | 6 595                                     | 1 905  |
| NEW MACHINERY AND EQUIPMENT . . . . . DO . . . . .                               | 129 902                                 | 109 847                      | 15 414                                    | 4 641  |
| USED PLANT AND EQUIPMENT . . . . . DO . . . . .                                  | 8 810                                   | 6 051                        | 2 461                                     | 298  |
| SELECTED OPERATING RATIOS:   |   |                              |   |  |
| PAYROLL/TOTAL EMPLOYMENT . . . . .   | 7 387                                   | 7 731                        | 5 958                                     | 6 739  |
| PRODUCTION WORKERS/TOTAL EMPLOYMENT . . . . .                                    | .71                                     | .72                          | .73                                       | .59  |
| MAN-HOURS/PRODUCTION WORKERS . . . . .   | 1 980                                   | 1 935                        | 2 161                                     | 2 066  |
| PRODUCTION WORKER WAGES/MAN-HOURS . . . . .                                      | 3.44                                    | 3.69                         | 2.55                                      | 2.75   |
| COST OF MATERIALS AND PAYROLLS/TOTAL VALUE OF SHIPMENTS . . . . .                | .86                                     | .87                          | .78                                       | .72  |
| COST OF MATERIALS/TOTAL VALUE OF SHIPMENTS . . . . .                             | .79                                     | .81                          | .63                                       | .60  |
| ADJUSTED VALUE ADDED/TOTAL EMPLOYMENT . . . . .                                  | 24 193                                  | 26 301                       | 14 656                                    | 22 166   |
| SALARIES AND WAGES/ADJUSTED VALUE ADDED . . . . .                                | .31                                     | .29                          | .41                                       | .30  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.



## PETROLEUM REFINING AND RELATED INDUSTRIES

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 2911—Petroleum Refining
- 2951—Paving Mixtures and Blocks
- 2952—Asphalt Felts and Coatings
- 2992—Lubricating Oils and Greases
- 2999—Products of Petroleum and Coal, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 2911—PETROLEUM REFINING

This industry comprises establishments primarily engaged in producing gasoline, kerosene, distillate fuel oils, residual fuel oils, lubricants, and other products from crude petroleum, and its fractionation products either through straight distillation of crude oil, redistillation of unfinished petroleum derivatives, cracking or other processes. Establishments primarily engaged in producing natural gasoline from natural gas are classified in mining industries. Those manufacturing lubricating oils and greases by blending and compounding purchased materials are included in industry 2992. For a detailed list of products of industry 2911, refer to table 6A, product codes 2911011 to 2911951.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Petroleum Refining Industry totaled \$16,497 million. This amount included shipments of refined petroleum products (primary products) valued at \$15,479 million, shipments of other products (secondary products) valued at \$341 million, and miscellaneous receipts (mainly contract work on materials owned by others) at \$677 million.

This industry's shipments of refined petroleum products represented 98 percent of its total product shipments. The industry specialization ratio in 1958 was also 98 percent. Secondary products shipped by this industry in 1963 consisted mainly of miscellaneous acyclic chemicals and chemical products (\$123 million), and cyclic intermediates (\$41 million).

Shipments of refined petroleum products by this industry represented 97 percent of all shipments of these products (\$15,983 million) by all industries. In 1958 the coverage ratio was 98 percent.

Lubricating oils, lubricating oil base stocks, and lubricating greases are not only produced by petroleum refineries but are also produced from purchased materials by plants blending and compounding lubricants and classified in industry 2992, Lubricating Oils and Greases. Plants classified in industries 2911 and 2992 shipped substantially all of the lubricating oils and greases valued at \$1,210 million, with industry 2911 accounting for 65 percent.

Oils are frequently transferred from one refinery to another for further processing and blending. This introduces some duplications in the "Value of products shipped" by the Petroleum Refining Industry, as shown in tables 1, 2, and 5. To eliminate duplication in the statistics for individual products, figures were collected on the amount of oil received by refineries during the year. Net (unduplicated) shipments were calculated, for the United States as a whole, by subtracting "Receipts" from the quantity shipped (see table 6A). These net shipments represent the quantity of petroleum products made available for consumption by the "Petroleum Refining" and "Lubricating Oils and Greases" Industries.

Industry 2911 also includes establishments primarily engaged in the production of petroleum based chemicals (petrochemicals). In 1963 there were 22 establishments with total shipments of \$455 million producing liquefied refinery gases and aromatics (see table 3).

Detailed product statistics for liquefied gases used as chemical raw material were not collected since these data are reported to the United States Tariff Commission and published in the report "Synthetic Organic Chemicals, United States Production and Sales."

Unlike most manufacturing industries where the receipts for contract work are reported as such, plants in industry 2911 processing oil on a contract basis for other companies were requested to report the commercial cost of all materials received and the market values, f.o.b. plant, for the products shipped.

Petroleum product statistics shown in this report are not directly comparable with the Bureau of Mines figures published in the Minerals Yearbook. The census of manufactures collects data on shipments, whereas the Bureau of Mines figures are in terms of "output" (production).

Data showing net shipments of gas liquids and related products covered in the 1963 economic censuses appear in the reports for the 1963 Census of Mineral Industries. Table 7A contains data showing the consumption of selected materials. Other data relating to "inputs" of materials appear as "receipts" in table 6A. Because fuel is an important item and furnishes a supply of material for alternative uses at the refinery, data showing United States totals consumed in the refineries appear in table 7E.

The production index for the primary products of the industry increased to 138 in 1963 from the 1958 level of 115. The unit value index for 1963 was 96 compared to 104 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 2951—PAVING MIXTURES AND BLOCKS

This industry comprises establishments primarily engaged in manufacturing asphalt and tar paving mixtures, and paving blocks made of asphalt, creosoted wood, and various compositions of asphalt or tar with other materials. Establishments primarily engaged in manufacturing brick, concrete, granite, and stone paving blocks are classified in Major Group 32. For a detailed list of products of industry 2951, refer to table 6A, product codes 2951011 to 2951098.



The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Paving Mixtures and Blocks Industry totaled \$427 million. This amount included shipments of paving mixtures and blocks (primary products) valued at \$359 million, shipments of other products (secondary products) valued at \$31 million, and miscellaneous receipts at \$38 million.

This industry's shipments of paving mixtures and blocks represented 92 percent of its total product shipments. The industry specialization ratio in 1958 was 94 percent. Secondary products shipped by this industry in 1963 consisted mainly of crushed and broken miscellaneous stone (\$9 million) and ready-mixed concrete (\$7 million).

Shipments of paving mixtures and blocks by this industry represented 89 percent of all shipments of these products (\$403 million) by all industries. In 1958 the coverage ratio was 85 percent. Other industries shipping paving mixtures and blocks consisted mainly of industry 3273, Ready Mixed Concrete, \$15 million; and industry 2952, Asphalt Felts and Coatings, \$8 million.

#### 2952—ASPHALT FELTS AND COATINGS

This industry comprises establishments primarily engaged in manufacturing asphalt and other saturated roofing felts in roll or shingle form, either smooth or faced with grit, and in manufacturing roofing cements and coatings. Establishments primarily engaged in manufacturing paint are classified in industry 2851. For a detailed list of products of industry 2952, refer to table 6A, product codes 2952111 to 2952398.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Asphalt Felts and Coatings Industry totaled \$528 million. This amount included shipments of asphalt felts and coatings (primary products) valued at \$424 million, shipments of other products (secondary products) valued at \$48 million, and miscellaneous receipts (mainly resales) at \$56 million.

This industry's shipments of asphalt felts and coatings represented 90 percent of its total product shipments. The industry specialization ratio in 1958 was also 90 percent. Secondary products shipped by this industry in 1963 included asbestos textiles and other asbestos and asbestos cement products (\$15 million), and paving mixtures and blocks (\$8 million).

Shipments of asphalt felts and coatings by this industry represented 92 percent of all shipments of these products (\$459 million) by all industries. In 1958 the coverage ratio was also 92 percent. Other industries shipping asphalt felts and coatings includes industry 2851, Paints and Allied Products, \$5 million; and industry 2951, Paving Mixtures and Blocks, \$3 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 2952, e.g., asphalt and tar saturated felts and boards for nonbuilding use, 75 percent; and asphalt and tar coatings, cements, and pitches, 81 percent.

Monthly data on the quantity of asphalt and tar roofing and siding products are available from Current Industrial Reports Series M29A, "Asphalt and Tar Roofing and Siding Products."

The production index for the primary products of the industry increased to 118 in 1963 from the 1958 level of 105. The unit value index for 1963 was 102 compared to 101 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 2992—LUBRICATING OILS AND GREASES

This industry comprises establishments primarily engaged in blending and compounding lubricating oils and greases from purchased mineral, animal, and vegetable materials. Petroleum refineries engaged in the production of lubricating oils and greases are classified in industry 2911. For a detailed list of products of industry 2992, refer to table 6A, product codes 2992611 to 2992751.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Lubricating Oils and Greases Industry totaled \$471 million. This amount included shipments of lubricating oils and greases (primary products) valued at \$399 million, shipments of other products (secondary products) valued at \$40 million, and miscellaneous receipts (mainly resales) at \$32 million.

This industry's shipments of lubricating oils and greases represented 91 percent of its total product shipments. The industry specialization ratio in 1958 was 86 percent.

Shipments of lubricating oils and greases by this industry represented 33 percent of all shipments of these products (\$1,210 million) by all industries. In 1958 the coverage ratio was 35 percent. However, lubricating oils and greases are also primary to industry 2911, Petroleum Refining. A coverage ratio computed on the basis of including both industries to which lubricating oils and greases are primary would total 98 percent in 1963. Lubricating oils and greases (primary products) shipped by industry 2911, Petroleum Refining, totaled \$782 million. Other industries shipping lubricating oils and greases consisted mainly of industry 2842, Polishes and Sanitation Goods, \$3 million; and industry 2899, Chemical Preparations, N.E.C., \$3 million.

The production index for the primary products of the industry increased to 163 in 1963 from the 1958 level of 103. The unit value index for 1963 was 124 compared to 119 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 2999—PRODUCTS OF PETROLEUM AND COAL, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing fuel briquets, boulets, packaged fuel, powdered fuel, and other products of petroleum and coal, n.e.c. Wood charcoal briquets are classified in industry 2861. For a detailed list of products of industry 2999, refer to table 6A, product codes 2999015 to 2999098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

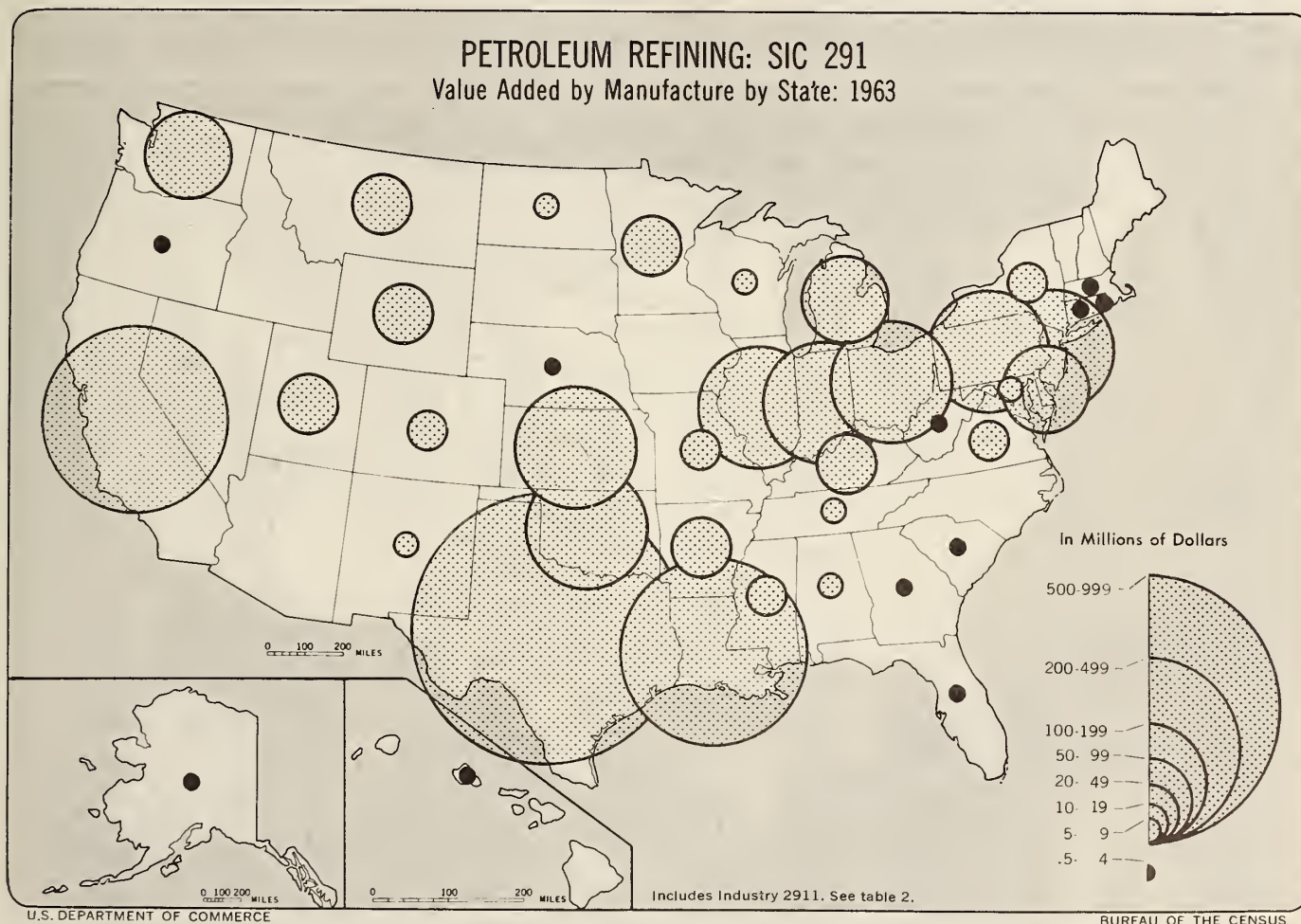
Value of shipments and other receipts of the Petroleum and Coal Products, N.E.C., Industry totaled \$72 million. This amount included shipments of products of petroleum and coal, n.e.c., (primary products) valued at \$63 million, shipments of other products (secondary products) valued at \$3 million, and miscellaneous receipts (mainly resales) at \$6 million.

This industry's shipments of products of petroleum and coal, n.e.c., represented 96 percent of its total product shipments. The industry specialization ratio in 1958 was 95 percent.



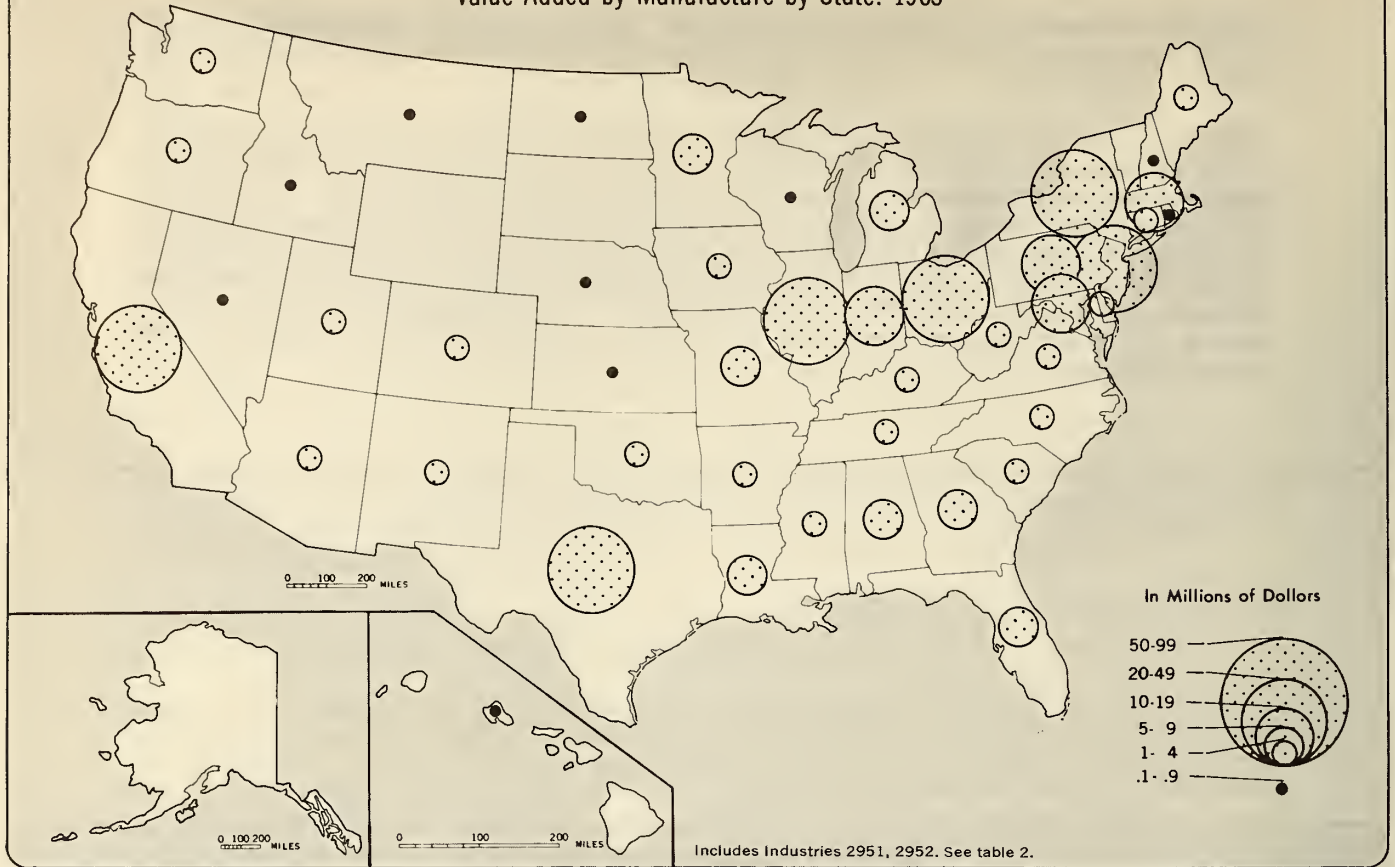
Shipments of petroleum and coal products, n.e.c., by this industry represented 91 percent of all shipments of these products (\$69 million) by all industries. In 1958 the coverage ratio was 96 percent.

The figures for fuel briquets and packaged fuel appearing in this report exclude the quantities and amounts shipped by establishments producing wood charcoal briquets (industry 2861) as well as establishments classified in nonmanufacturing industries. They, therefore, differ from the figures published by the Bureau of Mines, United States Department of Interior, in the Minerals Yearbook which includes data for nonmanufacturing establishments such as retail or wholesale coal yards and public utilities which produce some fuel briquets as a secondary activity. The census figures for fuel briquets also include information for briquets made from charcoal and sawdust, data for which are omitted by the Bureau of Mines.



# PAVING AND ROOFING MATERIALS: SIC 295

Value Added by Manufacture by State: 1963



# PETROLEUM AND COAL PRODUCTS, N.E.C.: SIC 299

Value Added by Manufacture by State: 1963

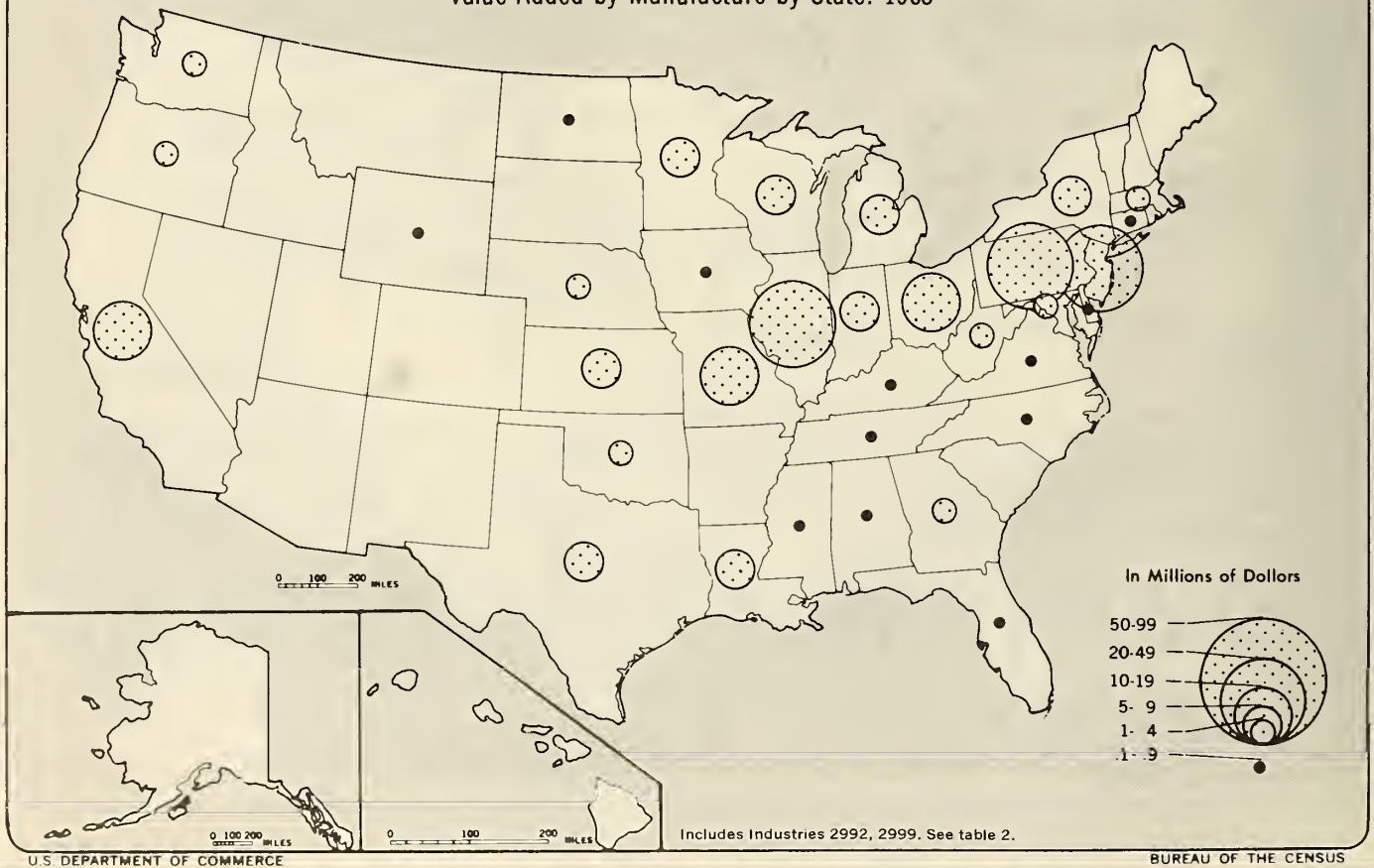




TABLE 1. General Statistics: 1963 and Earlier Years

| Year                                      | Companies<br>(number) | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted<br>(\$1,000) | Cost of materials<br>(\$1,000) | Value of shipments<br>(\$1,000) | Capital expenditures, new<br>(\$1,000) | Specialization ratio (percent) | Coverage ratio (percent) |
|---|-----------------------|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|---|--------------------------------|---------------------------------|--|--------------------------------|--------------------------|
|   |                       | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                |                                 |  |                                |                          |
| INDUSTRY 2911.—PETROLEUM REFINING         |                       |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                                |                          |
| 1963.....                                 | 266                   | 427               | 297                                   | 119,297           | 922,319              | 85,929             | 166,409              | 614,318            | 3,137,603   | 13,367,328                     | 16,496,896                      | 385,126                                | 98                             | 97                       |
| 1962 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 122,946           | 906,561              | 87,804             | 173,348              | 603,032            | 2,965,537   | 12,979,535                     | 15,914,146                      | 433,315                                | (NA)                           | (NA)                     |
| 1961 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 128,707           | 937,130              | 92,389             | 182,211              | 629,634            | 2,929,207   | 12,734,155                     | 15,618,609                      | 459,298                                | (NA)                           | (NA)                     |
| 1960 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 134,868           | 935,836              | 97,267             | 192,379              | 635,211            | 2,773,430   | 12,713,407                     | 15,505,100                      | 455,453                                | (NA)                           | (NA)                     |
| 1959 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 137,133           | 944,313              | 100,064            | 195,984              | 645,068            | 2,458,208   | 12,621,902                     | 15,090,067                      | 407,716                                | (NA)                           | (NA)                     |
| 1958.....                                 | 289                   | 446               | 313                                   | 146,025           | 944,332              | 106,898            | 207,609              | 648,278            | 2,119,402   | 12,249,444                     | 14,539,055                      | 656,788                                | 98                             | 98                       |
| 1957 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 153,920           | 979,262              | 112,546            | 222,399              | 665,245            | 2,868,179   | 12,271,740                     | 14,920,173                      | 876,523                                | 98                             | 98                       |
| 1956 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 153,786           | 931,107              | 114,231            | 225,734              | 645,072            | 2,960,559   | 11,421,680                     | 14,185,451                      | 686,780                                | (NA)                           | (NA)                     |
| 1955 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 150,821           | 849,095              | 112,080            | 221,241              | 591,642            | 2,434,720   | 10,490,971                     | 12,866,470                      | 533,297                                | (NA)                           | (NA)                     |
| 1954.....                                 | 253                   | 409               | 316                                   | 153,072           | 816,120              | 113,829            | 223,116              | 570,791            | 1,918,020   | 10,258,714                     | 12,182,245                      | 656,033                                | 99                             | 98                       |
| 1953 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 159,542           | 830,424              | 119,149            | 234,486              | 585,111            | 1,997,160   | 9,557,286                      | 11,554,446                      | 641,096                                | (NA)                           | (NA)                     |
| 1952 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 153,190           | 757,079              | 114,711            | 228,904              | 537,463            | 1,959,465   | 8,945,456                      | 10,904,921                      | 446,004                                | (NA)                           | (NA)                     |
| 1951 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 151,434           | 702,104              | 114,306            | 232,367              | 504,075            | 1,990,147   | 8,548,832                      | 10,538,979                      | 338,808                                | (NA)                           | (NA)                     |
| 1950 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 139,125           | 607,744              | 105,611            | 215,458              | 435,796            | 1,484,441   | 6,925,986                      | 8,410,427                       | 254,402                                | (NA)                           | (NA)                     |
| 1949 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 144,155           | 599,686              | 113,709            | 229,388              | 447,598            | 1,210,876   | 6,470,702                      | 7,681,578                       | 403,455                                | (NA)                           | (NA)                     |
| 1947.....                                 | 277                   | 437               | NA                                    | 145,806           | 535,781              | 113,847            | 237,506              | 396,236            | 1,494,474   | 5,129,234                      | 6,623,708                       | 316,370                                | 99                             | 97                       |
| 1939 <sup>2</sup> .....                   | (NA)                  | 518               | (NA)                                  | (NA)              | 72,982               | (NA)               | 128,420              | 528,575            | 1,933,921   | 2,462,496                      | (NA)                            | (NA)                                   | (NA)                           | (NA)                     |
| 1937.....                                 | (NA)                  | 365               | (NA)                                  | 98,450            | 176,808              | 83,182             | (NA)                 | 140,415            | 482,439   | 2,064,307                      | 2,546,746                       | (NA)                                   | (NA)                           | (NA)                     |
| 1935.....                                 | (NA)                  | 395               | (NA)                                  | 92,111            | 143,452              | 77,402             | (NA)                 | 109,611            | 356,686   | 1,481,936                      | 1,838,622                       | (NA)                                   | (NA)                           | (NA)                     |
| 1933.....                                 | (NA)                  | 389               | (NA)                                  | 78,862            | 111,361              | 69,047             | (NA)                 | 89,793             | 314,200   | 1,064,437                      | 1,378,637                       | (NA)                                   | (NA)                           | (NA)                     |
| 1931.....                                 | (NA)                  | 376               | (NA)                                  | (NA)              | (NA)                 | 68,824             | (NA)                 | 107,474            | 313,768   | 1,210,517                      | 1,524,285                       | (NA)                                   | (NA)                           | (NA)                     |
| 1929.....                                 | (NA)                  | 390               | (NA)                                  | 94,393            | 164,755              | 80,596             | (NA)                 | 131,177            | 608,324   | 2,031,341                      | 2,639,665                       | (NA)                                   | (NA)                           | (NA)                     |
| 1927.....                                 | (NA)                  | 354               | (NA)                                  | 83,293            | 144,617              | 71,234             | (NA)                 | 113,717            | 389,652   | 1,752,997                      | 2,142,649                       | (NA)                                   | (NA)                           | (NA)                     |
| 1925.....                                 | (NA)                  | 359               | (NA)                                  | 76,527            | 132,286              | 65,324             | (NA)                 | 104,645            | 486,979   | 1,889,678                      | 2,376,657                       | (NA)                                   | (NA)                           | (NA)                     |
| 1923.....                                 | (NA)                  | 382               | (NA)                                  | 82,759            | 138,402              | 66,717             | (NA)                 | 103,834            | 368,647   | 1,425,053                      | 1,793,700                       | (NA)                                   | (NA)                           | (NA)                     |
| 1921.....                                 | (NA)                  | 366               | (NA)                                  | 74,228            | 130,197              | 63,189             | (NA)                 | 102,294            | 345,270   | 1,382,170                      | 1,727,440                       | (NA)                                   | (NA)                           | (NA)                     |
| 1919.....                                 | (NA)                  | 320               | (NA)                                  | 73,414            | 116,369              | 58,889             | (NA)                 | 89,750             | 384,625   | 1,247,908                      | 1,632,533                       | (NA)                                   | (NA)                           | (NA)                     |
| 1914.....                                 | (NA)                  | 176               | (NA)                                  | 31,025            | 27,290               | 25,366             | (NA)                 | 19,397             | 71,096  | 325,265                        | 396,361                         | (NA)                                   | (NA)                           | (NA)                     |
| 1909.....                                 | (NA)                  | 147               | (NA)                                  | 16,598            | 13,759               | 13,929             | (NA)                 | 9,830              | 37,725  | 199,273                        | 236,998                         | (NA)                                   | (NA)                           | (NA)                     |
| 1904.....                                 | (NA)                  | 98                | (NA)                                  | 18,744            | 12,713               | 16,770             | (NA)                 | 9,989              | 35,618  | 139,387                        | 175,005                         | (NA)                                   | (NA)                           | (NA)                     |
| 1899.....                                 | (NA)                  | 67                | (NA)                                  | 13,400            | 8,528                | 12,199             | (NA)                 | 6,717              | 21,070  | 102,859                        | 123,929                         | (NA)                                   | (NA)                           | (NA)                     |
| INDUSTRY 2951.—PAVING MIXTURES AND BLOCKS |                       |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                                |                          |
| 1963.....                                 | 528                   | 762               | 127                                   | 9,680             | 62,065               | 6,746              | 15,076               | 40,014             | 165,584   | 261,789                        | 427,460                         | 15,055                                 | 92                             | 89                       |
| 1962 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | (8,262)           | (52,157)             | (6,179)            | (13,985)             | (34,928)           | (144,985)   | (199,181)                      | (344,757)                       | (17,086)                               | (NA)                           | (NA)                     |
| 1961 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | (8,222)           | (49,771)             | (6,240)            | (13,790)             | (34,552)           | (124,706)   | (187,104)                      | (314,880)                       | (13,215)                               | (NA)                           | (NA)                     |
| 1960 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | (7,931)           | (46,503)             | (6,032)            | (13,065)             | (32,279)           | (131,396)   | (172,512)                      | (303,973)                       | (11,726)                               | (NA)                           | (NA)                     |
| 1959 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | (8,115)           | (44,380)             | (5,977)            | (12,147)             | (28,459)           | (112,921)   | (150,955)                      | (265,742)                       | (10,673)                               | (NA)                           | (NA)                     |
| 1958.....                                 | 415                   | 563               | 89                                    | 7,797             | 42,028               | 5,823              | 11,708               | 28,130             | 112,548   | 154,949                        | 267,676                         | 9,856                                  | 94                             | 85                       |
| 1956 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 5,763             | 26,376               | 4,237              | 9,105                | 16,947             | 77,713  | 86,264                         | 158,078                         | (S)                                    | (NA)                           | (NA)                     |
| 1955 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 5,093             | 23,388               | 3,763              | 7,646                | 14,858             | 59,746  | 81,192                         | 138,637                         | (S)                                    | (NA)                           | (NA)                     |
| 1954.....                                 | 252                   | 326               | 47                                    | 4,367             | 20,092               | 3,260              | 6,688                | 12,508             | 52,145  | 81,334                         | 133,178                         | 5,367                                  | 97                             | 94                       |
| 1947.....                                 | 182                   | 264               | (NA)                                  | 2,785             | 8,565                | 2,042              | (NA)                 | 5,618              | 23,249  | 27,728                         | 50,977                          | (NA)                                   | 99                             | 88                       |
| 1939.....                                 | (NA)                  | 231               | (NA)                                  | 3,193             | 4,494                | 2,437              | (NA)                 | 2,681              | 13,728  | 19,026                         | 32,754                          | (NA)                                   | (NA)                           | (NA)                     |
| 1937.....                                 | (NA)                  | 148               | (NA)                                  | 2,456             | 3,407                | 1,946              | (NA)                 | 2,419              | 10,684  | 14,605                         | 25,289                          | (NA)                                   | (NA)                           | (NA)                     |
| 1935.....                                 | (NA)                  | 132               | (NA)                                  | 2,660             | 3,570                | 2,231              | (NA)                 | 2,514              | 7,901   | 9,984                          | 17,885                          | (NA)                                   | (NA)                           | (NA)                     |
| 1933.....                                 | (NA)                  | 93                | (NA)                                  | 1,348             | 1,569                | 1,151              | (NA)                 | 1,215              | 4,663   | 6,287                          | 10,950                          | (NA)                                   | (NA)                           | (NA)                     |
| 1931.....                                 | (NA)                  | 97                | (NA)                                  | (NA)              | (NA)                 | 1,081              | (NA)                 | 1,556              | 7,416   | 8,587                          | 16,003                          | (NA)                                   | (NA)                           | (NA)                     |
| 1929 <sup>3</sup> .....                   | (NA)                  | 77                | (NA)                                  | (NA)              | (NA)                 | 1,376              | (NA)                 | 2,187              | 10,062  | 11,998                         | 22,060                          | (NA)                                   | (NA)                           | (NA)                     |
| INDUSTRY 2952.—ASPHALT FELTS AND COATINGS |                       |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                                |                          |
| 1963.....                                 | 126                   | 230               | 140                                   | 14,581            | 82,477               | 10,894             | 23,046               | 57,328             | 189,981   | 339,006                        | 527,632                         | 6,954                                  | 90                             | 92                       |
| 1962 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | (13,301)          | (78,468)             | (9,514)            | (20,379)             | (54,459)           | (180,128)   | (313,794)                      | (494,070)                       | (21,850)                               | (NA)                           | (NA)                     |
| 1961 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | (13,099)          | (73,969)             | (9,439)            | (19,632)             | (51,080)           | (183,983)   | (296,278)                      | (474,882)                       | (7,786)                                | (NA)                           | (NA)                     |
| 1960 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | (17,331)          | (97,871)             | (13,633)           | (27,874)             | (70,399)           | (242,791)   | (310,629)                      | (555,622)                       | (13,086)                               | (NA)                           | (NA)                     |
| 1959 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | (15,221)          | (80,357)             | (11,409)           | (24,296)             | (56,926)           | (178,816)   | (316,974)                      | (495,251)                       | (6,789)                                | (NA)                           | (NA)                     |
| 1958.....                                 | 119                   | 209               | 128                                   | 15,520            | 77,444               | 11,541             | 24,009               | 54,007             | 156,487   | 304,421                        | 460,104                         | 6,613                                  | 90                             | 92                       |
| 1955 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 16,692            | 74,506               | 13,548             | 28,966               | 57,082             | 176,499   | 278,450                        | 447,881                         | (S)                                    | (NA)                           | (NA)                     |
| 1954.....                                 | 108                   | 197               | 120                                   | 15,730            | 68,054               | 12,507             | 26,950               | 50,863             | 155,607   | 276,808                        | 431,607                         | 7,787                                  | 91                             | 94                       |
| 1953 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 17,537            | 72,873               | 13,516             | 29,091               | 53,024             | 155,790   | 256,088                        | 411,878                         | (NA)                                   | (NA)                           | (NA)                     |
| 1952 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 17,397            | 74,811               | 13,795             | 31,329               | 55,329             | 161,439   | 263,770                        | 425,209                         | (NA)                                   | (NA)                           | (NA)                     |
| 1951 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 18,235            | 72,751               | 14,845             | 32,677               | 53,927             | 164,079   | 278,015                        | 442,094                         | (NA)                                   | (NA)                           | (NA)                     |
| 1950 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 17,549            | 65,221               | 14,255             | 32,231               | 48,676             | 173,814   | 239,681                        | 413,945                         | (NA)                                   | (NA)                           | (NA)                     |
| 1949 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)                                  | 15,213            | 50,824               | 12,149             | 25,609               | 36,814             | 123,458   | 200,266                        | 323,724                         | (NA)                                   | (NA)                           | (NA)                     |
| 1947.....                                 | 104                   | 174               | (NA)                                  | 16,506            | 49,552               | 13,761             | (NA)                 | 38,435             | 132,565   | 205,654                        | 338,219                         | (NA)                                   | 95                             | 95                       |
| 1939.....                                 | (NA)                  | 135               | (NA)                                  | (NA)              | (NA)                 | 8,187              | (NA)                 | 10,032             | 48,079  | 62,359                         | 110,438                         | (NA)                                   | (NA)                           | (NA)                     |
| 1937.....                                 | (NA)                  | 111               | (NA)                                  | 8,520             | 11,831               | 7,418              | (NA)                 | 9,520              | 39,918  | 62,644                         | 102,562                         | (NA)                                   | (NA)                           | (NA)                     |
| 1933.....                                 | (NA)                  | 74                | (NA)                                  | 5,053             | 5,547                | 4,418              | (NA)                 | 4,436              | 20,940  | 23,893                         | 44,833                          | (NA)                                   | (NA)                           | (NA)                     |
| 1931.....                                 | (NA)                  | 83                | (NA)                                  | (NA)              | (NA)                 | 4,123              | (NA)                 | 5,331              | 26,257  | 32,706                         | 58,963                          | (NA)                                   | (NA)                           | (NA)                     |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 2952.—ASPHALT FELTS AND COATINGS—Continued             |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1929.....   | (NA)                       | 102               | (NA)   | 7,411             | 12,456               | 6,027              | (NA)                 | 8,952              | 42,114   | 61,392                            | 103,506                            | (NA)  | (NA)  | (NA)                                     |
| 1927.....   | (NA)                       | 100               | (NA)   | 8,997             | 15,177               | 7,255              | (NA)                 | 10,713             | 55,882   | 67,328                            | 123,210                            | (NA)  | (NA)  | (NA)                                     |
| 1925.....   | (NA)                       | 140               | (NA)   | 10,149            | 16,940               | 8,310              | (NA)                 | 12,145             | 44,994   | 78,597                            | 123,591                            | (NA)  | (NA)  | (NA)                                     |
| 1923.....   | (NA)                       | 122               | (NA)   | 9,676             | 15,137               | 7,665              | (NA)                 | 10,826             | 28,822   | 55,520                            | 84,342                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....   | (NA)                       | 136               | (NA)   | 8,640             | 12,945               | 6,908              | (NA)                 | 9,213              | 31,180   | 45,013                            | 76,193                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....   | (NA)                       | 178               | (NA)   | 11,726            | 15,759               | 8,871              | (NA)                 | 10,344             | 33,307   | 52,588                            | 85,895                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....   | (NA)                       | 170               | (NA)   | 5,334             | 4,620                | 4,088              | (NA)                 | 2,642              | 10,373   | 17,605                            | 27,978                             | (NA)  | (NA)  | (NA)                                     |
| 1909 <sup>4</sup> .....   | (NA)                       | 117               | (NA)   | 3,484             | 2,720                | 2,465              | (NA)                 | 1,339              | 6,746  | 12,458                            | 19,204                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 2992.—LUBRICATING OILS AND GREASES                     |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....   | 311                        | 353               | 108  | 8,433             | 57,946               | 4,701              | 9,778                | 27,007             | 199,074  | 273,833                           | 471,229                            | 4,703   | 91  | <sup>5</sup> 33                          |
| 1962 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | (6,784)           | (45,722)             | (4,000)            | (8,772)              | (21,724)           | (114,569)  | (222,635)                         | (336,360)                          | (2,550)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | (6,555)           | (44,014)             | (3,829)            | (8,791)              | (20,366)           | (106,982)  | (207,712)                         | (316,296)                          | (10,025)  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | (7,829)           | (50,451)             | (4,776)            | (10,341)             | (24,414)           | (128,444)  | (220,978)                         | (349,106)                          | 3,256   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | (7,907)           | (47,942)             | (4,685)            | (10,160)             | (22,807)           | (115,061)  | (215,039)                         | (328,969)                          | (4,859)   | (NA)  | (NA)                                     |
| 1958.....   | 284                        | 306               | 90   | 7,568             | 42,349               | 4,484              | 8,588                | 20,441             | 103,084  | 177,521                           | 281,377                            | 7,230   | 86  | <sup>5</sup> 35                          |
| 1957 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 8,472             | 45,672               | 4,832              | 9,183                | 22,113             | 105,415  | 166,791                           | 262,368                            | 3,338   | 84  | <sup>5</sup> 17                          |
| 1956 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 8,584             | 44,919               | 4,971              | 9,610                | 22,255             | 110,652  | 164,347                           | 264,966                            | 5,286   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 8,427             | 43,323               | 4,944              | 9,770                | 21,065             | 106,079  | 154,719                           | 251,717                            | 4,808   | (NA)  | (NA)                                     |
| 1954.....   | 265                        | 283               | 84   | 8,159             | 40,062               | 4,702              | 9,414                | 18,912             | 90,661   | 172,639                           | 265,111                            | 4,314   | 87  | <sup>5</sup> 18                          |
| 1947 <sup>6</sup> .....   | 205                        | 275               | (NA)   | 8,002             | 26,263               | 5,070              | (NA)                 | 13,421             | 80,289   | 119,068                           | 199,357                            | (NA)  | 89  | <sup>5</sup> 19                          |
| 1939 <sup>2</sup> .....   | (NA)                       | 199               | (NA)   | (NA)              | (NA)                 | 1,986              | (NA)                 | 2,507              | 19,414   | 28,274                            | 47,688                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>7</sup> .....   | (NA)                       | 195               | (NA)   | 3,260             | 5,309                | 2,231              | (NA)                 | 2,839              | 18,726   | 25,387                            | 44,113                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....   | (NA)                       | 158               | (NA)   | 2,414             | 3,184                | 1,794              | (NA)                 | 2,087              | 11,928   | 16,774                            | 28,702                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....   | (NA)                       | 168               | (NA)   | (NA)              | (NA)                 | 2,115              | (NA)                 | 2,960              | 18,895   | 22,809                            | 41,704                             | (NA)  | (NA)  | (NA)                                     |
| 1929 <sup>7</sup> .....   | (NA)                       | 177               | (NA)   | 4,059             | 7,906                | 2,577              | (NA)                 | 3,739              | 30,013   | 39,571                            | 69,584                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 2999.—PETROLEUM AND COAL PRODUCTS, N.E.C. <sup>8</sup> |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....   | 59                         | 67                | 17   | 1,495             | 8,958                | 1,178              | 2,370                | 6,456              | 20,989   | 49,570                            | 71,525                             | 1,843   | 96  | 91                                       |
| 1962 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | (2,988)           | (13,976)             | (2,488)            | (4,799)              | (10,096)           | (33,822)   | (71,328)                          | (103,208)                          | (4,612)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | (3,021)           | (13,218)             | (2,483)            | (4,528)              | (9,439)            | (37,232)   | (68,117)                          | (102,633)                          | (4,645)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | (3,103)           | (15,277)             | (2,476)            | (6,106)              | (10,947)           | (32,459)   | (68,090)                          | (99,714)                           | (1,258)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | (2,516)           | (11,022)             | 2,059              | (3,883)              | (8,108)            | (29,202)   | (49,914)                          | (78,583)                           | (1,946)   | (NA)  | (NA)                                     |
| 1958.....   | 74                         | 84                | 33   | 2,256             | 10,520               | 1,762              | 3,446                | 7,566              | 26,903   | 48,715                            | 74,855                             | 1,318   | 95  | 96                                       |
| 1954.....   | 39                         | 47                | 25   | 2,009             | 8,905                | 1,544              | 3,141                | 6,167              | 24,437   | 39,572                            | 63,496                             | (2)   | 94  | 89                                       |
| 1947.....   | (NA)                       | 112               | (NA)   | 1,697             | 4,808                | 1,453              | (NA)                 | 4,042              | 17,354   | 30,137                            | 47,491                             | (NA)  | (NA)  | (NA)                                     |

Note: See appendix A for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: **All employees:** For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** For 1947 and prior years figures represent an average of 12 monthly figures. **Value added:** Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. **Cost of materials:** Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. **Value of shipments:** Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$500 thousand. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufacturers. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Beginning with the year 1939 establishments engaged in re-refining crankcase drainings and other used oils have been included in the figures for "Petroleum refining;" for earlier years, such establishments were included under "Lubricating oils and greases".

<sup>3</sup>The figures for "Paving mixtures and blocks" prior to 1929 are not sufficiently comparable with those for later years to be shown in this table because they include data for quarrying and crushing stone which is classified in mineral industries.

<sup>4</sup>Data for certain asbestos products are included in the figures for 1909.

<sup>5</sup>Included in the coverage ratio shown for this industry are lubricating oils and greases which are also primary to Industry 2911, Petroleum Refining. A 1963 coverage ratio computed on the basis of including both industries to which lubricating oils and greases are primary would total 98 percent: 65 percent by industry 2911, and 33 percent by industry 2992. The remaining 2 percent was shipped by establishments in other industries. Computed on the basis of excluding industry 2911, the 1963 coverage ratio is 93 percent for industry 2992. (Also see tables 5A and 5B.)

<sup>6</sup>The 1947 data have been revised for comparability with 1954 by including data for establishments primarily engaged in shipping lubricants and greases made from animal and animal and vegetable oils (classified in industry 2899 in 1947). The figures for 1929-1939 are comparable with those for 1947 and 1954.

<sup>7</sup>The figures for 1935 and years prior to 1929 include only lubricating greases and, therefore, are not sufficiently comparable with other years to be given in this table.

<sup>8</sup>Includes fuel briquets and packaged fuel (except wood charcoal briquets). Comparable figures are not available prior to 1947.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>              | 1963           |                           |               |          |                    |           |           |                                      |                   |                    |                           | 1958             |                                      |
|---|----------------|---------------------------|---------------|----------|--------------------|-----------|-----------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                           | All employees |          | Production workers |           |           | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total          | With 20 employees or more | Total         | Payroll  | Total              | Man-hours | Wages     |                                      |                   |                    |                           |                  |                                      |
| (number)                                  | (number)       | (number)                  | (\$1,000)     | (number) | (1,000)            | (\$1,000) | (\$1,000) | (\$1,000)                            | (\$1,000)         | (\$1,000)          | (number)                  | (\$1,000)        |                                      |
| INDUSTRY 2911.—PETROLEUM REFINING         |                |                           |               |          |                    |           |           |                                      |                   |                    |                           |                  |                                      |
| Total.....                                | 427            | 297                       | 119,297       | 922,319  | 85,929             | 166,409   | 614,318   | 3,137,603                            | 13,367,328        | 16,496,896         | 385,126                   | 146,025          | 2,119,402                            |
| Northeast.....                            | 53             | 35                        | 18,524        | 143,259  | 13,915             | 27,846    | 100,757   | 366,310                              | 1,954,933         | 2,329,204          | 34,027                    | 24,492           | 216,959                              |
| New Jersey.....                           | 14             | 10                        | 5,843         | 48,484   | 4,159              | 8,117     | 31,912    | 176,307                              | 871,251           | 1,056,480          | 8,308                     | 8,191            | 68,918                               |
| Pennsylvania.....                         | 24             | 17                        | 11,429        | 85,202   | 8,874              | 18,000    | 62,021    | 165,372                              | 896,773           | 1,061,124          | 24,395                    | 14,112           | 128,768                              |
| East North Central.....                   | 68             | 49                        | 19,366        | 154,675  | 14,097             | 27,078    | 103,529   | 498,142                              | 2,215,184         | 2,712,341          | 26,058                    | 25,347           | 409,878                              |
| Ohio.....                                 | 15             | 11                        | 3,559         | 29,209   | 2,610              | 5,095     | 20,303    | 103,818                              | 591,450           | 697,620            | 5,131                     | 4,595            | 101,480                              |
| Indiana.....                              | 15             | 12                        | 6,566         | 52,430   | 4,910              | 9,331     | 36,555    | 138,182                              | 602,003           | 744,355            | 6,992                     | 9,156            | 108,348                              |
| Illinois.....                             | 16             | 12                        | 7,024         | 55,862   | 5,022              | 9,128     | 35,144    | 179,299                              | 795,867           | 969,882            | 11,354                    | 9,377            | 157,209                              |
| Michigan.....                             | 15             | 10                        | 1,960         | 15,466   | 1,381              | 3,155     | 10,405    | 71,655                               | 199,045           | 268,864            | 2,063                     | 1,982            | 39,823                               |
| Wisconsin.....                            | 7              | 4                         | 257           | 1,708    | 174                | 369       | 1,122     | 5,188                                | 26,819            | 31,620             | 518                       | 237              | 3,018                                |
| West North Central.....                   | 29             | 23                        | 5,481         | 40,951   | 4,065              | 8,563     | 28,058    | 164,633                              | 663,836           | 821,186            | 32,648                    | 6,479            | 121,647                              |
| Kansas.....                               | 17             | 14                        | 3,698         | 26,143   | 2,918              | 6,173     | 19,358    | 107,248                              | 432,902           | 533,712            | 15,797                    | 4,169            | 69,595                               |
| South Atlantic.....                       | 19             | 12                        | 1,900         | 15,113   | 1,275              | 2,626     | 8,905     | 93,207                               | 328,820           | 421,490            | (D)                       | 2,133            | 51,933                               |
| East South Central.....                   | 16             | 11                        | 1,513         | 12,003   | 1,129              | 2,263     | 8,745     | 50,690                               | 262,083           | 296,243            | (D)                       | 1,585            | 35,777                               |
| Mississippi.....                          | 5              | 4                         | 344           | 3,722    | 279                | 567       | 3,133     | 12,704                               | 70,019            | 68,309             | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West South Central.....                   | 133            | 99                        | 49,907        | 392,542  | 35,450             | 68,716    | 256,133   | 1,365,144                            | 5,682,662         | 7,047,217          | 144,180                   | 61,537           | 885,231                              |
| Arkansas.....                             | 8              | 6                         | 1,005         | 7,456    | 767                | 1,562     | 5,456     | 20,556                               | 92,467            | 112,025            | 834                       | 1,154            | 15,622                               |
| Louisiana.....                            | 19             | 17                        | 10,004        | 81,342   | 6,011              | 11,730    | 44,194    | 258,454                              | 1,140,321         | 1,410,157          | 26,678                    | 13,123           | 190,981                              |
| Oklahoma.....                             | 23             | 15                        | 5,198         | 35,073   | 4,203              | 8,230     | 27,880    | 109,779                              | 538,254           | 640,620            | 4,303                     | 6,136            | 106,606                              |
| Texas.....                                | 83             | 61                        | 33,700        | 268,671  | 24,469             | 47,194    | 178,603   | 976,355                              | 3,911,620         | 4,884,415          | 112,365                   | 41,124           | 572,022                              |
| Mountain.....                             | 44             | 30                        | 4,934         | 36,506   | 3,464              | 6,908     | 24,952    | 111,229                              | 418,141           | 534,004            | 21,709                    | 5,669            | 97,788                               |
| Colorado.....                             | 12             | 7                         | 708           | 5,271    | 554                | 1,123     | 3,995     | 14,368                               | 52,091            | 65,825             | 1,331                     | 591              | 10,609                               |
| Utah.....                                 | 5              | 4                         | 880           | 6,560    | 647                | 1,367     | 4,783     | 24,203                               | 109,955           | 135,956            | 1,359                     | 1,075            | 28,275                               |
| Pacific.....                              | 65             | 38                        | 17,672        | 127,270  | 12,534             | 22,409    | 83,239    | 488,248                              | 1,841,669         | 2,335,211          | 69,686                    | 18,783           | 300,199                              |
| California.....                           | 50             | 31                        | 16,262        | 116,102  | 11,611             | 20,609    | 76,589    | 417,094                              | 1,592,429         | 2,018,888          | 54,079                    | 17,633           | 269,563                              |
| INDUSTRY 2951.—PAVING MIXTURES AND BLOCKS |                |                           |               |          |                    |           |           |                                      |                   |                    |                           |                  |                                      |
| Total.....                                | 762            | 127                       | 9,680         | 62,065   | 6,746              | 15,076    | 40,014    | 165,584                              | 261,789           | 427,460            | 15,055                    | 7,797            | 112,548                              |
| New England.....                          | 64             | 12                        | 945           | 6,314    | 662                | 1,487     | 3,580     | 15,243                               | 25,313            | 40,457             | 1,688                     | 771              | 9,468                                |
| Massachusetts.....                        | 35             | 9                         | 606           | 3,978    | 414                | 1,018     | 2,329     | 9,901                                | 15,249            | 25,217             | 942                       | 391              | 5,722                                |
| Connecticut.....                          | 19             | 1                         | 214           | 1,528    | 150                | 230       | 716       | 3,490                                | 6,941             | 10,258             | 500                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Middle Atlantic.....                      | 198            | 27                        | 2,078         | 14,251   | 1,396              | 3,136     | 9,193     | 39,494                               | 63,771            | 103,291            | 3,524                     | 1,697            | 29,976                               |
| New York.....                             | 101            | 15                        | 997           | 7,550    | 673                | 1,443     | 4,871     | 21,124                               | 33,715            | 54,818             | 1,973                     | 899              | 17,365                               |
| New Jersey.....                           | 31             | 4                         | 446           | 3,456    | 319                | 748       | 2,358     | 10,044                               | 13,724            | 23,803             | 840                       | 218              | 4,320                                |
| Pennsylvania.....                         | 66             | 8                         | 635           | 3,245    | 404                | 945       | 1,964     | 8,526                                | 16,332            | 24,670             | 711                       | 580              | 8,291                                |
| East North Central.....                   | 159            | 29                        | 2,062         | 14,106   | 1,463              | 3,159     | 8,716     | 36,564                               | 55,586            | 91,965             | 2,724                     | 1,632            | 22,025                               |
| Ohio.....                                 | 81             | 12                        | 834           | 5,414    | 576                | 1,271     | 3,344     | 14,672                               | 24,419            | 38,894             | 1,088                     | 497              | 7,724                                |
| Indiana.....                              | 24             | 4                         | 265           | 2,076    | 193                | 434       | 1,257     | 6,197                                | 6,283             | 12,476             | 447                       | 241              | 3,311                                |
| Illinois.....                             | 21             | 5                         | 462           | 3,404    | 299                | 677       | 1,865     | 7,792                                | 11,147            | 18,946             | 643                       | 473              | 4,990                                |
| Michigan.....                             | 25             | 7                         | 431           | 2,797    | 346                | 688       | 2,016     | 7,153                                | 12,640            | 19,798             | 515                       | 374              | 5,479                                |
| West North Central.....                   | 32             | 4                         | 353           | 2,354    | 275                | 652       | 1,788     | 7,289                                | 8,291             | 15,642             | 475                       | 471              | 5,869                                |
| Missouri.....                             | 7              | 2                         | 121           | 877      | 103                | 236       | 751       | 3,254                                | 1,983             | 5,235              | 135                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South Atlantic.....                       | 103            | 18                        | 1,677         | 8,888    | 1,252              | 2,974     | 6,190     | 20,946                               | 44,284            | 65,479             | 2,610                     | 1,060            | 14,458                               |
| Maryland.....                             | 22             | 4                         | 591           | 3,566    | 451                | 1,214     | 2,572     | 8,037                                | 17,134            | 25,162             | 1,298                     | 407              | 7,050                                |
| Florida.....                              | 24             | 8                         | 485           | 2,404    | 331                | 793       | 1,491     | 5,158                                | 8,870             | 14,153             | 547                       | 266              | 2,820                                |
| East South Central.....                   | 53             | 5                         | 466           | 2,328    | 295                | 684       | 1,319     | 9,469                                | 14,734            | 24,254             | 746                       | 451              | 5,998                                |
| Alabama.....                              | 20             | 3                         | 248           | 1,255    | 155                | 364       | 668       | 5,032                                | 5,784             | 10,845             | 322                       | 297              | 3,184                                |
| West South Central.....                   | 42             | 7                         | 508           | 2,125    | 403                | 922       | 1,632     | 5,291                                | 9,004             | 14,296             | 419                       | 302              | 3,040                                |
| Louisiana.....                            | 12             | 2                         | 119           | 432      | 95                 | 193       | 333       | 1,373                                | 2,169             | 3,542              | 120                       | 112              | 887                                  |
| Texas.....                                | 19             | 5                         | 298           | 1,302    | 233                | 558       | 1,001     | 2,477                                | 3,821             | 6,299              | 244                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Mountain.....                             | 17             | 6                         | 309           | 2,122    | 156                | 324       | 1,114     | 3,638                                | 6,725             | 10,331             | 304                       | 193              | 2,940                                |
| Pacific.....                              | 94             | 19                        | 1,282         | 9,577    | 844                | 1,738     | 6,482     | 27,650                               | 34,081            | 61,745             | 2,565                     | 1,220            | 18,774                               |
| Washington.....                           | 7              | 3                         | 165           | 1,010    | 94                 | 240       | 629       | 2,709                                | 2,196             | 4,904              | 565                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                           | 81             | 13                        | 983           | 7,743    | 667                | 1,326     | 5,334     | 23,761                               | 29,539            | 53,315             | 1,942                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                       | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 2952.—ASPHALT FELTS AND COATINGS          |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....   | 230            | 140                                | 14,581         | 82,477            | 10,894             | 23,046            | 57,328          | 189,981                              | 339,006           | 527,632            | 6,954                     | 15,520           | 156,487                              |
| New England.....                                   | 9              | 5                                  | 619            | 3,527             | 501                | 1,109             | 2,654           | 7,126                                | 13,293            | 20,289             | 312                       | 665              | 6,205                                |
| Middle Atlantic....                                | 37             | 21                                 | 2,235          | 13,632            | 1,764              | 3,754             | 10,214          | 29,021                               | 61,348            | 90,197             | 1,916                     | 2,755            | 27,111                               |
| New York.....                                      | 6              | 3                                  | 127            | 743               | 82                 | 168               | 425             | 1,588                                | 2,656             | 4,226              | 8                         | 304              | 1,969                                |
| New Jersey.....                                    | 16             | 11                                 | 1,410          | 8,799             | 1,133              | 2,402             | 6,753           | 18,637                               | 38,964            | 57,564             | 1,748                     | 1,659            | 17,366                               |
| Pennsylvania.....                                  | 15             | 7                                  | 698            | 4,090             | 549                | 1,184             | 3,036           | 8,796                                | 19,728            | 28,407             | 160                       | 792              | 7,776                                |
| East North Central.                                | 56             | 35                                 | 4,431          | 26,658            | 3,430              | 7,240             | 19,414          | 61,355                               | 95,085            | 156,431            | 2,235                     | 5,277            | 53,214                               |
| Ohio.....  | 17             | 11                                 | 1,366          | 8,420             | 1,048              | 2,219             | 6,020           | 21,530                               | 21,161            | 42,828             | 1,143                     | 1,558            | 19,607                               |
| Indiana.....                                       | 8              | 4                                  | 368            | 2,220             | 270                | 590               | 1,465           | 4,453                                | 7,353             | 11,890             | 245                       | 370              | 3,343                                |
| Illinois.....                                      | 24             | 18                                 | 2,578          | 15,336            | 2,027              | 4,251             | 11,470          | 33,552                               | 63,244            | 96,570             | 815                       | 3,246            | 29,426                               |
| Michigan.....                                      | 7              | 2                                  | 119            | 682               | 85                 | 180               | 459             | 1,820                                | 3,327             | 5,143              | 32                        | 103              | 838                                  |
| West North Central.                                | 14             | 9                                  | 936            | 5,524             | 750                | 1,627             | 3,988           | 10,504                               | 22,663            | 32,962             | 402                       | 961              | 9,245                                |
| Missouri.....                                      | 8              | 5                                  | 507            | 2,953             | 424                | 927               | 2,337           | 5,398                                | 12,047            | 17,349             | 161                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South Atlantic....                                 | 29             | 16                                 | 1,202          | 6,285             | 954                | 2,082             | 4,669           | 18,381                               | 39,627            | 57,570             | 547                       | 1,083            | 11,592                               |
| Georgia.....                                       | 7              | 6                                  | 457            | 2,336             | 360                | 780               | 1,785           | 7,386                                | 16,684            | 23,627             | 95                        | 349              | 4,178                                |
| Florida.....                                       | 10             | 4                                  | 188            | 811               | 156                | 296               | 552             | 2,056                                | 5,152             | 7,162              | 38                        | 207              | 2,218                                |
| East South Central.                                | 13             | 8                                  | 696            | 3,244             | 533                | 1,074             | 2,230           | 6,617                                | 13,049            | 19,831             | 355                       | 528              | 4,196                                |
| Alabama.....                                       | 4              | 3                                  | 281            | 1,545             | 216                | 400               | 1,065           | 3,364                                | 6,309             | 9,742              | 66                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West South Central.                                | 35             | 27                                 | 2,752          | 13,385            | 1,667              | 3,418             | 7,205           | 31,562                               | 47,902            | 79,492             | 586                       | 2,502            | 21,369                               |
| Louisiana.....                                     | 7              | 6                                  | 591            | 3,119             | 487                | 997               | 2,415           | 6,497                                | 15,043            | 21,696             | 115                       | 657              | 5,406                                |
| Texas.....   | 22             | 15                                 | 1,634          | 7,986             | 752                | 1,474             | 3,243           | 19,959                               | 24,501            | 44,403             | 367                       | 1,458            | 13,590                               |
| Mountain.....                                      | 7              | 3                                  | 233            | 1,062             | 177                | 370               | 734             | 2,647                                | 4,877             | 7,514              | 116                       | 124              | 1,070                                |
| Pacific.....                                       | 30             | 16                                 | 1,477          | 9,160             | 1,118              | 2,372             | 6,220           | 22,768                               | 41,162            | 63,346             | 485                       | 1,625            | 22,485                               |
| California.....                                    | 20             | 11                                 | 1,145          | 7,280             | 869                | 1,870             | 4,897           | 16,914                               | 30,789            | 47,140             | 429                       | 1,338            | 18,556                               |
| INDUSTRY 2992.—LUBRICATING OILS AND GREASES        |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....   | 353            | 108                                | 8,433          | 57,946            | 4,701              | 9,778             | 27,007          | 199,074                              | 273,833           | 471,229            | 4,703                     | 7,568            | 103,084                              |
| New England.....                                   | 14             | 3                                  | 199            | 1,395             | 102                | 231               | 577             | 4,885                                | 4,095             | 8,842              | 182                       | 192              | 2,428                                |
| Middle Atlantic....                                | 89             | 34                                 | 2,965          | 21,389            | 1,796              | 3,636             | 10,615          | 61,524                               | 85,030            | 144,997            | 1,346                     | 2,675            | 37,151                               |
| Pennsylvania.....                                  | 37             | 16                                 | 1,277          | 10,369            | 649                | 1,400             | 3,951           | 21,962                               | 30,523            | 52,020             | 606                       | 1,098            | 16,327                               |
| North Central.....                                 | 140            | 53                                 | 3,742          | 25,733            | 1,871              | 3,843             | 10,711          | 100,696                              | 124,787           | 225,655            | 2,167                     | 3,194            | 47,493                               |
| Wisconsin.....                                     | 11             | 4                                  | 178            | 1,111             | 85                 | 178               | 551             | 5,774                                | 4,806             | 10,781             | (D)                       | 294              | 6,287                                |
| Missouri.....                                      | 14             | 8                                  | 514            | 3,143             | 235                | 461               | 1,281           | 16,364                               | 17,436            | 33,846             | 91                        | 346              | 6,242                                |
| South.....   | 58             | 11                                 | 1,028          | 5,881             | 617                | 1,415             | 3,262           | 14,155                               | 40,862            | 54,835             | 610                       | 999              | 8,666                                |
| West.....  | 52             | 7                                  | 499            | 3,548             | 315                | 653               | 1,842           | 17,814                               | 19,059            | 36,900             | 398                       | 508              | 7,352                                |
| INDUSTRY 2999.—PETROLEUM AND COAL PRODUCTS, N.E.C. |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....   | 67             | 17                                 | 1,495          | 8,958             | 1,178              | 2,370             | 6,456           | 20,989                               | 49,570            | 71,525             | 1,843                     | 2,256            | 26,903                               |
| Northeast.....                                     | 10             | 2                                  | 125            | 643               | 97                 | 189               | 469             | 668                                  | 1,772             | 2,515              | 35                        | 237              | 1,748                                |
| Pennsylvania.....                                  | 6              | 2                                  | 117            | 613               | 91                 | 177               | 445             | 638                                  | 1,680             | 2,389              | 31                        | 159              | 1,190                                |
| North Central.....                                 | 25             | 7                                  | 861            | 5,054             | 683                | 1,369             | 3,608           | 8,596                                | 23,115            | 32,300             | 417                       | 1,147            | 12,198                               |
| South.....   | 22             | 3                                  | 304            | 2,007             | 245                | 511               | 1,533           | 7,894                                | 16,486            | 24,601             | 1,109                     | 630              | 8,863                                |
| West.....  | 10             | 5                                  | 205            | 1,254             | 153                | 301               | 846             | 3,831                                | 8,197             | 12,109             | 282                       | 242              | 4,094                                |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State. SIC 2911, Petroleum Refining: New England—New Hampshire, 1 (1-19); Massachusetts, 3 (122); Rhode Island, 1 (100-249); Connecticut, 2 (20-99); Middle Atlantic—New York, 8 (975); West North Central—Minnesota, 6 (824); Missouri, 2 (500-999); North Dakota, 2 (250-499); Nebraska, 2 (20-99); South Atlantic—Delaware, 2 (500-999); Maryland, 3 (332); Virginia, 3 (250-499); West Virginia, 2 (250-499); South Carolina, 1 (20-99); Georgia, 4 (131); Florida, 4 (20-99); East South Central—Kentucky, 4 (744); Tennessee, 1 (100-249); Alabama, 6 (100-249); Mountain—Montana, 9 (500-999); Wyoming, 10 (1000-2499); Colorado, 4 (100-249); New Mexico, 6 (250-499); Arizona, 2 (1-19); Pacific—Washington, 9 (1108); Oregon, 3 (20-99); Alaska, 2 (20-99); Hawaii, 1 (100-249).

Footnotes continued on next page.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

Footnotes for Table 2—29A—Continued

IC 2951, Paving Mixtures and Blocks: New England—Maine, 3 (20-99); New Hampshire, 3 (20-99); Vermont, 1 (1-19); Rhode Island, 3 (1-19); East North Central—Wisconsin, 8 (20-99); West North Central—Minnesota, 7 (20-99); Iowa, 9 (20-99); North Dakota, 1 (1-19); South Dakota, 1 (1-19); Nebraska, 2 (1-19); Kansas, 5 (20-99); South Atlantic—Delaware, 5 (20-99); Virginia, 9 (100-249); West Virginia, 18 (100-249); North Carolina, 8 (20-99); South Carolina, 8 (20-99); Georgia, 9 (20-99); East South Central—Kentucky, 11 (20-99); Tennessee, 14 (20-99); Mississippi, 8 (20-99); West South Central—Arkansas, 4 (20-99); Oklahoma, 7 (20-99); Mountain—Montana, 1 (1-19); Idaho, 1 (1-19); Arizona, 4 (20-99); Utah, 5 (20-99); Nevada, 2 (20-99); Pacific—Oregon, 5 (20-99); Hawaii, 1 (20-99).

IC 2952, Asphalt Felts and Coatings: New England—Massachusetts, 7 (500-999); Connecticut, 2 (20-99); West North Central—Minnesota, 5 (250-499); Kansas, 1 (1-19); South Atlantic—Delaware, 2 (20-99); Maryland, 3 (119); Virginia, 1 (1-19); West Virginia, 2 (100-249); North Carolina, 3 (20-99); South Carolina, 1 (100-249); East South Central—Kentucky, 2 (20-99); Tennessee, 6 (213); Mississippi, 1 (100-249); West South Central—Arkansas, 4 (250-499); Oklahoma, 2 (100-249); Mountain—Colorado, 2 (20-99); New Mexico, 2 (100-249); Arizona, 1 (1-19); Utah, 2 (20-99); Pacific—Washington, 3 (20-99); Oregon, 7 (248).

IC 2992, Lubricating Oils and Greases: New England—Massachusetts, 13 (100-249); Connecticut, 1 (20-99); Middle Atlantic—New York, 29 (250-499); New Jersey, 23 (1000-2499); East North Central—Ohio, 36 (1001); Indiana, 4 (100-249); Illinois, 31 (1091); Michigan, 25 (274); West North Central—Minnesota, 6 (100-249); Iowa, 4 (20-99); Nebraska, 2 (100-249); Kansas, 7 (100-249); South Atlantic—Delaware, 1 (1-19); Maryland, 5 (100-249); Virginia, 1 (1-19); North Carolina, 1 (1-19); South Carolina, 1 (1-19); Georgia, 5 (20-99); Florida, 2 (20-99); East South Central—Kentucky, 1 (1-19); Tennessee, 3 (1-19); Alabama, 2 (1-19); Mississippi, 2 (20-99); West South Central—Arkansas, 1 (1-19); Louisiana, 6 (250-499); Oklahoma, 6 (100-249); Texas, 21 (142); Mountain—Wyoming, 1 (1-19); Utah, 1 (1-19); Pacific—Washington, 6 (20-99); Oregon, 1 (1-19); California, 43 (445).

IC 2999, Petroleum and Coal Products, N.E.C.: New England—Maine, 1 (1-19); Middle Atlantic—New York, 1 (1-19); New Jersey, 2 (1-19); East North Central—Ohio, 4 (20-99); Indiana, 2 (1-19); Illinois, 5 (191); Michigan, 3 (20-99); Wisconsin, 5 (20-99); West North Central—Minnesota, 1 (1-19); Missouri, 4 (417); North Dakota, 1 (20-99); South Atlantic—West Virginia, 3 (20-99); North Carolina, 1 (1-19); South Carolina, 1 (1-19); Georgia, 2 (1-19); East South Central—Tennessee, 2 (1-19); Mississippi, 3 (1-19); West South Central—Arkansas, 1 (1-19); Louisiana, 1 (20-99); Oklahoma, 2 (1-19); Texas, 6 (189); Mountain—Wyoming, 1 (20-99); Arizona, 1 (1-19); Utah, 1 (1-19); Pacific—Oregon, 1 (1-19); California, 6 (182).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.

TABLE 3. Detailed Statistics: 1963

| Item   | Petroleum refining (SIC 2911) |                                   |   |                                   | Paving mixtures and blocks (SIC 2951) | Asphalt felts and coatings (SIC 2952) | Lubricating oils and greases (SIC 2992) | Petroleum and coal products, n.e.c. (SIC 2999) |
|--|-------------------------------|-----------------------------------|---|-----------------------------------|---------------------------------------|---------------------------------------|---|--|
|  | All establishments            | Subindustry                       |   |                                   |                                       |                                       |   |  |
|  |                               | Establishments refining petroleum | Establishments producing petrochemicals | Other establishments <sup>1</sup> |                                       |                                       |   |  |
| Primary product specialization ratio <sup>2</sup> .....        | .98                           | (NA)                              | (NA)                                    | (NA)                              | .92                                   | .90                                   | .91                                     | .96  |
| Coverage ratio <sup>3</sup> .....                              | .97                           | (NA)                              | (NA)                                    | (NA)                              | .89                                   | .92                                   | 4.33                                    | .91  |
| Establishments, total.....number..                             | 427                           | 290                               | 22                                      | 115                               | 762                                   | 230                                   | 353                                     | 67   |
| With 1 to 19 employees.....do....                              | 130                           | 31                                | 2                                       | 97                                | 635                                   | 90                                    | 245                                     | 50   |
| With 20 to 99 employees.....do....                             | 103                           | 83                                | 4                                       | 16                                | 119                                   | 96                                    | 93                                      | 14   |
| With 100 employees or more.....do....                          | 194                           | 176                               | 16                                      | 2                                 | 8                                     | 44                                    | 15                                      | 3  |
| Proprietors and working partners.....do....                    | 71                            | (NA)                              | (NA)                                    | (NA)                              | 108                                   | 29                                    | 86                                      | 24   |
| All employees (average for the year).....do....                | 119,297                       | 112,673                           | 5,309                                   | 1,315                             | 9,680                                 | 14,581                                | 8,433                                   | 1,495  |
| Payroll (all employees), total for year.....\$1,000..          | 922,319                       | 872,319                           | 41,857                                  | 8,143                             | 62,065                                | 82,477                                | 57,946                                  | 8,958  |
| Production workers:  |                               |                                   |   |                                   |                                       |                                       |   |  |
| Average for the year.....number..                              | 85,929                        | 81,768                            | 3,302                                   | 859                               | 6,746                                 | 10,894                                | 4,701                                   | 1,178  |
| March.....do....   | 85,879                        | 81,774                            | 3,255                                   | 850                               | 4,852                                 | 9,421                                 | 4,570                                   | 1,099  |
| May.....do....   | 85,902                        | 81,764                            | 3,291                                   | 847                               | 7,039                                 | 11,414                                | 4,634                                   | 1,193  |
| August.....do....  | 87,094                        | 82,858                            | 3,350                                   | 886                               | 7,954                                 | 12,131                                | 4,874                                   | 1,163  |
| November.....do....  | 84,799                        | 80,631                            | 3,312                                   | 856                               | 7,129                                 | 10,598                                | 4,714                                   | 1,273  |
| Man-hours.....1,000..  | 166,409                       | 157,841                           | 6,688                                   | 1,880                             | 15,076                                | 23,046                                | 9,778                                   | 2,370  |
| January-March.....do....                                       | 41,639                        | 39,518                            | 1,663                                   | 458                               | 2,515                                 | 4,785                                 | 2,380                                   | 539  |
| April-June.....do....  | 42,059                        | 39,911                            | 1,682                                   | 466                               | 3,983                                 | 6,110                                 | 2,500                                   | 583  |
| July-September.....do....                                      | 41,452                        | 39,313                            | 1,665                                   | 474                               | 4,654                                 | 6,661                                 | 2,473                                   | 606  |
| October-December.....do....                                    | 41,259                        | 39,099                            | 1,678                                   | 482                               | 3,924                                 | 5,490                                 | 2,425                                   | 642  |
| Wages.....\$1,000..  | 614,318                       | 585,271                           | 23,983                                  | 5,064                             | 40,014                                | 57,328                                | 27,007                                  | 6,456  |
| Cost of materials, etc., total.....do....                      | 13,367,328                    | 13,075,851                        | 259,672                                 | 31,805                            | 261,789                               | 339,006                               | 273,833                                 | 49,570   |
| Materials, parts, containers, and supplies consumed.....do.... | 12,383,982                    | 12,158,554                        | 197,320                                 | 28,108                            | 223,461                               | 285,050                               | 250,535                                 | 42,592   |
| Cost of resales.....do....                                     | 588,224                       | 575,005                           | 11,175                                  | 2,044                             | 15,492                                | 43,501                                | 19,568                                  | 3,701  |
| Fuels consumed.....do....                                      | 267,291                       | 230,297                           | 35,855                                  | 1,139                             | 11,608                                | 7,290                                 | 1,890                                   | 1,396  |
| Electric energy:   |                               |                                   |   |                                   |                                       |                                       |   |  |
| Purchased:   |                               |                                   |   |                                   |                                       |                                       |   |  |
| Quantity.....million kw.-hrs..                                 | 13,416                        | 12,083                            | 1,303                                   | 30                                | 232                                   | 237                                   | 60                                      | 36   |
| Cost.....\$1,000..   | 103,361                       | 94,277                            | 8,652                                   | 432                               | 4,527                                 | 3,094                                 | 1,101                                   | 557  |
| Generated less sold.....million kw.-hrs..                      | 3,780                         | (D)                               | (D)                                     | -                                 | (D)                                   | (D)                                   | -                                       | -  |
| Contract work.....\$1,000..                                    | 24,450                        | 17,698                            | 6,670                                   | 82                                | 6,701                                 | 71                                    | 739                                     | 1,324  |
| Value of shipments (including resales), total.....do....       | 16,496,896                    | 15,991,955                        | 454,747                                 | 50,194                            | 427,460                               | 527,632                               | 471,229                                 | 71,525   |
| Value of resales.....do....                                    | 628,458                       | 614,734                           | 11,055                                  | 2,669                             | 17,903                                | 53,755                                | 29,757                                  | 5,448  |
| Value added by manufacture, adjusted.....do....                | 3,137,603                     | 2,918,930                         | 200,251                                 | 18,422                            | 165,584                               | 189,981                               | 199,074                                 | 20,989   |
| Manufacturers' inventories:                                    |                               |                                   |   |                                   |                                       |                                       |   |  |
| Beginning of year, total.....do....                            | 1,708,184                     | 1,672,874                         | 29,589                                  | 5,721                             | 11,869                                | 41,863                                | 49,092                                  | 18,294   |
| Finished products.....do....                                   | 1,023,117                     | 1,005,789                         | 13,927                                  | 3,401                             | 4,932                                 | 22,673                                | 25,375                                  | 3,412  |
| Work-in-process.....do....                                     | 366,217                       | 362,625                           | 3,226                                   | 366                               | 360                                   | 1,569                                 | 3,429                                   | 138  |
| Materials, supplies, fuel, etc.....do....                      | 318,850                       | 304,460                           | 12,436                                  | 1,954                             | 6,577                                 | 17,621                                | 20,288                                  | 14,744   |
| End of year, total.....do....                                  | 1,695,549                     | 1,654,384                         | 35,160                                  | 6,005                             | 12,108                                | 43,050                                | 52,046                                  | 15,267   |
| Finished products.....do....                                   | 1,054,403                     | 1,032,884                         | 18,108                                  | 3,411                             | 4,719                                 | 24,102                                | 27,025                                  | 2,418  |
| Work-in-process.....do....                                     | 342,966                       | 338,356                           | 4,221                                   | 389                               | 486                                   | 1,495                                 | 3,457                                   | 166  |
| Materials, supplies, fuel, etc.....do....                      | 298,180                       | 283,144                           | 12,831                                  | 2,205                             | 6,903                                 | 17,453                                | 21,564                                  | 12,683   |
| Expenditures for plant and equipment, total.....do....         | 391,177                       | 349,156                           | 36,906                                  | 5,115                             | 17,190                                | 7,280                                 | 4,920                                   | 1,924  |
| New, total.....do....  | 385,126                       | 343,571                           | 36,771                                  | 4,784                             | 15,055                                | 6,954                                 | 4,703                                   | 1,843  |
| New structures and additions to plant.....do....               | 275,279                       | 250,231                           | 22,192                                  | 2,856                             | 4,965                                 | 1,630                                 | 1,598                                   | 307  |
| New machinery and equipment.....do....                         | 109,847                       | 93,340                            | 14,579                                  | 1,928                             | 10,090                                | 5,324                                 | 3,105                                   | 1,536  |
| Used plant and equipment.....do....                            | 6,051                         | 5,585                             | 135                                     | 331                               | 2,135                                 | 326                                   | 217                                     | 81   |
| Selected operating ratios:                                     |                               |                                   |   |                                   |                                       |                                       |   |  |
| Payroll/Total employment.....                                  | 7.731                         | 7.742                             | 7.884                                   | 6.192                             | 6.412                                 | 5.656                                 | 6.871                                   | 5.992  |
| Production workers/Total employment.....                       | .72                           | .73                               | .62                                     | .65                               | .70                                   | .75                                   | .56                                     | .79  |
| Man-hours/Production workers.....                              | 1.935                         | 1.929                             | 2.025                                   | 2.189                             | 2.235                                 | 2.115                                 | 2.080                                   | 2.012  |
| Production worker wages/Man-hours.....                         | 3.69                          | 3.71                              | 3.59                                    | 2.69                              | 2.65                                  | 2.49                                  | 2.76                                    | 2.72   |
| Cost of materials and payrolls/Total value of shipments.....   | .87                           | .87                               | .66                                     | .80                               | .76                                   | .80                                   | .70                                     | .82  |
| Cost of materials/Total value of shipments.....                | .81                           | .82                               | .57                                     | .63                               | .61                                   | .64                                   | .58                                     | .69  |
| Adjusted value added/Total employment.....                     | 26.301                        | 25.906                            | 37.719                                  | 14.009                            | 7.105                                 | 13.029                                | 23.607                                  | 14.039   |
| Salaries and wages/Adjusted value added.....                   | .29                           | .30                               | .21                                     | .44                               | .37                                   | .43                                   | .29                                     | .43  |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>Includes establishments primarily engaged in re-refining or reclaiming used oils by a distillation process; blending or re-refining petroleum waxes, etc.

<sup>2</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>3</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

<sup>4</sup>See footnote 5, table 1.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of- |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| <b>INDUSTRY 2911.—PETROLEUM REFINING</b>                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                               | 427                   | 57                                 | 35               | 38                 | 59                 | 44                 | 83                   | 55                   | 30                   | 16                       | 10                       |
| All employees:  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....  | 119,297               | 88                                 | 225              | 515                | 1,881              | 3,104              | 13,941               | <u>40,322</u>        | (D)                  | 23,245                   | 35,976                   |
| Payroll.....\$1,000..                                     | 922,319               | 538                                | 1,374            | 3,281              | 13,761             | 21,769             | 101,017              | <u>314,939</u>       | (D)                  | 184,817                  | 280,823                  |
| Value added, adjusted.....do....                          | 3,137,603             | 8,398                              | 3,025            | 6,543              | 39,317             | 64,518             | 379,574              | <u>1,083,759</u>     | (D)                  | 845,532                  | 706,937                  |
| Value of shipments.....do....                             | 16,496,896            | 12,136                             | 10,660           | 30,264             | 190,670            | 387,494            | 2,100,066            | <u>6,164,468</u>     | (D)                  | 3,735,893                | 3,865,245                |
| Capital expenditures, new...do....                        | 385,126               | <sup>1</sup> 3,290                 | 608              | 1,434              | 71,655             | 6,223              | 55,051               | <u>113,869</u>       | (D)                  | 67,159                   | 65,837                   |
| <b>INDUSTRY 2951.—PAVING MIXTURES AND BLOCKS</b>          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                               | 762                   | 246                                | 237              | 152                | 94                 | 25                 | 7                    | 1                    | -                    | -                        | -                        |
| All employees:  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....  | 9,680                 | 618                                | 1,563            | 2,067              | <u>5,432</u>       | (D)                | (D)                  | (D)                  | -                    | -                        | -                        |
| Payroll.....\$1,000..                                     | 62,065                | 3,864                              | 10,396           | 13,100             | <u>34,705</u>      | (D)                | (D)                  | (D)                  | -                    | -                        | -                        |
| Value added, adjusted.....do....                          | 165,584               | 14,943                             | 34,431           | 37,895             | <u>78,315</u>      | (D)                | (D)                  | (D)                  | -                    | -                        | -                        |
| Value of shipments.....do....                             | 427,460               | 45,799                             | 107,783          | 97,686             | <u>176,192</u>     | (D)                | (D)                  | (D)                  | -                    | -                        | -                        |
| Capital expenditures, new...do....                        | 15,055                | 1,612                              | 3,856            | 3,476              | <u>6,111</u>       | (D)                | (D)                  | (D)                  | -                    | -                        | -                        |
| <b>INDUSTRY 2952.—ASPHALT FELTS AND COATINGS</b>          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                               | 230                   | 35                                 | 24               | 31                 | 38                 | 58                 | 35                   | 8                    | 1                    | -                        | -                        |
| All employees:  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....  | 14,581                | 81                                 | 159              | 415                | 1,266              | 4,133              | 5,040                | <u>3,487</u>         | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                                     | 82,477                | 411                                | 736              | 2,139              | 6,570              | 22,698             | 29,721               | <u>20,202</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....                          | 189,981               | 1,805                              | 2,368            | 6,126              | 14,117             | 48,926             | 69,572               | <u>47,067</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....                             | 527,632               | 3,366                              | 6,474            | 23,290             | 41,687             | 148,816            | 197,681              | <u>106,318</u>       | (D)                  | -                        | -                        |
| Capital expenditures, new...do....                        | 6,954                 | 23                                 | 300              | 246                | 430                | 2,469              | 2,361                | <u>1,125</u>         | (D)                  | -                        | -                        |
| <b>INDUSTRY 2992.—LUBRICATING OILS AND GREASES</b>        |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                               | 353                   | 120                                | 68               | 57                 | 67                 | 26                 | 12                   | 2                    | -                    | 1                        | -                        |
| All employees:  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....  | 8,433                 | 172                                | 432              | 842                | 2,213              | 1,935              | <u>2,839</u>         | (D)                  | -                    | (D)                      | -                        |
| Payroll.....\$1,000..                                     | 57,946                | 1,197                              | 2,702            | 5,636              | 14,944             | 13,688             | <u>19,779</u>        | (D)                  | -                    | (D)                      | -                        |
| Value added, adjusted.....do....                          | 199,074               | 5,655                              | 7,280            | 17,950             | 67,425             | 47,578             | <u>53,186</u>        | (D)                  | -                    | (D)                      | -                        |
| Value of shipments.....do....                             | 471,229               | 13,439                             | 20,942           | 46,989             | 141,812            | 113,647            | <u>134,400</u>       | (D)                  | -                    | (D)                      | -                        |
| Capital expenditures, new...do....                        | 4,703                 | 494                                | 362              | 363                | 1,270              | 1,209              | <u>1,005</u>         | (D)                  | -                    | (D)                      | -                        |
| <b>INDUSTRY 2999.—PETROLEUM AND COAL PRODUCTS, N.E.C.</b> |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                               | 67                    | 30                                 | 10               | 10                 | 11                 | 3                  | 2                    | -                    | 1                    | -                        | -                        |
| All employees:  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....  | 1,495                 | 57                                 | 66               | 138                | <u>1,234</u>       | (D)                | (D)                  | -                    | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                                     | 8,958                 | 247                                | 336              | 730                | <u>7,645</u>       | (D)                | (D)                  | -                    | (D)                  | -                        | -                        |
| Value added, adjusted.....do....                          | 20,989                | 565                                | 704              | 2,881              | <u>16,839</u>      | (D)                | (D)                  | -                    | (D)                  | -                        | -                        |
| Value of shipments.....do....                             | 71,525                | 1,844                              | 1,777            | 7,698              | <u>60,206</u>      | (D)                | (D)                  | -                    | (D)                  | -                        | -                        |
| Capital expenditures, new...do....                        | 1,843                 | 46                                 | 38               | 89                 | <u>3,340</u>       | (D)                | (D)                  | -                    | (D)                  | -                        | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

<sup>1</sup>Includes capital expenditures between \$1 million and \$2 million for plants under construction but not in operation.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                         | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |  | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 2911      | Petroleum refining.....1963..                    | 16,496,896         | 15,479,138       | 340,614            | 677,144                | 98                                   | <sup>1</sup> 15,983,265            | 15,479,138            | <sup>1</sup> 504,127     | <sup>1</sup> 97               |
|           | 1958..   | 14,539,055         | 13,825,227       | 242,769            | 471,059                | 98                                   | <sup>1</sup> 14,133,967            | 13,825,227            | <sup>1</sup> 308,740     | <sup>1</sup> 98               |
| 2951      | Paving mixtures and blocks.....1963..            | 427,460            | 358,961          | 30,528             | 37,971                 | 92                                   | 402,906                            | 358,961               | 43,945                   | 89                            |
|           | 1958..   | 267,676            | 225,766          | 13,644             | 28,266                 | 94                                   | 265,902                            | 225,766               | 40,136                   | 85                            |
| 2952      | Asphalt felts and coatings.....1963..            | 527,632            | 423,936          | 47,594             | 56,102                 | 90                                   | 459,482                            | 423,936               | 35,546                   | 92                            |
|           | 1958..   | 460,104            | 376,289          | 41,903             | 41,912                 | 90                                   | 408,130                            | 376,289               | 31,841                   | 92                            |
| 2992      | Lubricating oils and greases.....1963..          | 471,229            | 399,110          | 39,738             | 32,381                 | 91                                   | <sup>2</sup> 1,210,148             | 399,110               | <sup>2</sup> 811,038     | <sup>2</sup> 33               |
|           | 1958..   | 281,377            | 223,588          | 34,908             | 22,881                 | 86                                   | <sup>2</sup> 882,553               | 223,588               | <sup>2</sup> 658,965     | <sup>2</sup> 25               |
| 2999      | Petroleum and coal products,<br>n.e.c.....1963.. | 71,525             | 63,258           | 2,810              | 5,457                  | 96                                   | 69,257                             | 63,258                | 5,999                    | 91                            |
|           | 1958..   | 74,855             | 64,414           | 3,061              | 7,380                  | 95                                   | 66,976                             | 64,414                | 2,562                    | 96                            |

Note: See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

<sup>1</sup>Includes lubricating oils and greases which are also primary to industry 2992, Lubricating Oils and Greases.

<sup>2</sup>Included in the figures shown for this industry are lubricating oils and greases which are also primary to industry 2911, Petroleum Refining. A 1963 coverage ratio computed on the basis of including both industries to which lubricating oils and greases are primary would total 98 percent: 65 percent by industry 2911, and 33 percent by industry 2992. The remaining 2 percent was shipped by establishments in other industries. Computed on the basis of excluding industry 2911, the 1963 coverage ratio is 93 percent for industry 2992.



**TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963**

In thousands of dollars except for ranges (shown in parentheses) which are expressed in millions of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous

receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code   | Class of products and miscellaneous receipts  | All industries | Petroleum refining (SIC 2911) | Lubricating oils and greases (SIC 2992) | Other industries |
|--|---|----------------|-------------------------------|---|------------------|
| <b>PETROLEUM REFINING, AND LUBRICATING OILS AND GREASES INDUSTRY</b>                       |   |                |                               |   |                  |
|  | Total shipments and receipts of the industry.....   | (X)            | 16,496,896                    | 471,229                                 | (X)              |
|  | Primary products.....   | 15,983,265     | 15,479,138                    | 1,399,110                               | 1,105,017        |
| 29111  | Gasoline and jet fuel.....  | 8,328,428      | 8,328,428                     | -                                       | -                |
| 29112  | Kerosene.....   | 656,271        | 656,271                       | -                                       | -                |
| 29113  | Distillate fuel oil.....  | 2,896,298      | 3,515,778                     | -                                       | 2,295            |
| 29114  | Residual fuel oil.....  | 621,775        |                               | -                                       | 50,526           |
| 29115  | Liquefied petroleum gases (made in refineries).....   | 957,020        | 906,494                       | -                                       | 50,526           |
| 29116  | Lubricating oils.....   | 1,077,359      | 726,238                       | 325,727                                 | 25,394           |
| 29926  |   |                |                               |   |                  |
| 29117  | Lubricating greases.....  | 128,622        | 55,819                        | 69,391                                  | 3,412            |
| 29927  |   |                |                               |   |                  |
| 29118  | Unfinished oils and lubricating oil base stock.....   | 526,218        | 520,887                       | 1,6571                                  | 16,644           |
| 29119  | Asphalt.....  | 360,509        | 360,279                       |   |                  |
| 29110  | Other finished petroleum products including waxes.....  | 426,598        | 408,944                       |   |                  |
| 29920  | Other lubricating oils and greases, n.s.k.....  | 4,167          | -                             | 3,992                                   | 175              |
|  | Secondary products.....   | (X)            | 340,614                       | 39,738                                  | (X)              |
| 28134  | Elemental gases and compressed and liquefied gases, n.e.c.....  | (X)            | 2,560                         | -                                       | -                |
| 28151  | Cyclic intermediates.....   | (X)            | 41,002                        | -                                       | -                |
| 28181  | Miscellaneous cyclic chemical products.....   | (X)            | (5-10)                        | (under 2)                               | (X)              |
| 28182  | Miscellaneous acyclic chemicals and chemical products.....  | (X)            | 122,805                       | (under 2)                               | (X)              |
| 28191  | Synthetic ammonia, nitric acid and ammonia compounds.....   | (X)            | 23,403                        | -                                       | (X)              |
| 28199  | Reagent and high purity grades of inorganic chemicals and other inorganic chemicals, n.e.c.....                                       | (X)            | 19,792                        | (under 2)                               | (X)              |
| 28211  | Unsupported plastic film, sheets, sheetings, rods, tubes, and other stock shapes made from resins produced in this establishment..... | (X)            | (over 2)                      | -                                       | (X)              |
| 28213  | Thermoplastic resins and plastics materials.....  | (X)            | (2-5)                         | (under 2)                               | (X)              |
| 28214  | Thermosetting resins and plastics materials.....  | (X)            | (2-5)                         | (under 2)                               | (X)              |
| 28220  | Synthetic rubber (vulcanizable elastomers).....   | (X)            | (over 2)                      | -                                       | (X)              |
| 28430  | Surface active and finishing agents.....  | (X)            | 16,675                        | 2,086                                   | (X)              |
| 28790  | Insecticidal and fungicidal preparations (formulations) primarily for agricultural use.....   | (X)            | (5-10)                        | (under 2)                               | (X)              |
| 28993  | Essential oils, fireworks, and pyrotechnics, chemicals and chemical preparations, n.e.c.....  | (X)            | (2-5)                         | 15,229                                  | (X)              |
|  | Miscellaneous receipts.....   | (X)            | 677,144                       | 32,381                                  | (X)              |
| 99989  | Resales.....  | (X)            | 628,458                       | 29,757                                  | (X)              |
| 93000  | Contract work.....  | (X)            | 18,672                        | 1,942                                   | (X)              |
|  | Other miscellaneous receipts.....   | (X)            | 30,014                        | 682                                     | (X)              |
| Listing of other industries with over \$2 million shipments of each primary product class: |   |                |                               |   |                  |
| 29110  | 2844 Toilet preparations.....   | (X)            | (X)                           | (X)                                     | (over 2)         |
| 29115  | 2815 Intermediate coal tar products.....  | (X)            | (X)                           | (X)                                     | (over 2)         |
|  | 2818 Organic chemicals, n.e.c.....  | (X)            | (X)                           | (X)                                     | 42,972           |
| 29926  | 2818 Organic chemicals, n.e.c.....  | (X)            | (X)                           | (X)                                     | (X)              |
|  | 2842 Polishes and sanitation goods.....   | (X)            | (X)                           | (X)                                     | (X)              |
|  | 2899 Chemical preparations, n.e.c.....  | (X)            | (X)                           | (X)                                     | (X)              |

| Prod. class code                           | Class of products and miscellaneous receipts        | All industries | Paving mixtures and blocks (SIC 2951) | Other industries | Prod. class code                                     | Class of products and miscellaneous receipts                                     | All industries | Paving mixtures and blocks (SIC 2951) | Other industries |
|--|---|----------------|---------------------------------------|------------------|--|--|----------------|---------------------------------------|------------------|
| <b>PAVING MIXTURES AND BLOCKS INDUSTRY</b> |   |                |                                       |                  | <b>PAVING MIXTURES AND BLOCKS INDUSTRY—Continued</b> |  |                |                                       |                  |
|  | Total shipments and receipts of the industry.....   | (X)            | 427,460                               | (X)              |  | Miscellaneous receipts.....  | (X)            | 37,971                                | (X)              |
|  | Primary products:                                   |                |                                       |                  |  | Resales.....   | (X)            | 17,903                                | (X)              |
| 29510                                      | Paving mixtures and blocks.....                     | 402,906        | 358,961                               | 43,945           |  | Contract work.....   | (X)            | 14,774                                | (X)              |
|  | Secondary products.....                             | (X)            | 30,528                                | (X)              |  | Other miscellaneous receipts.....  | (X)            | 5,294                                 | (X)              |
| 14292                                      | Crushed and broken miscellaneous stone.....         | (X)            | 9,305                                 | (X)              | 29510  | Listing of other industries with over \$2 million shipments of primary products: |                |                                       |                  |
| 14420                                      | Construction sand and gravel.....                   | (X)            | 4,834                                 | (X)              | 1422   | Crushed and broken limestone   | (X)            | (X)                                   | 6,988            |
| 29522                                      | Asphalt and tar coatings, cements, and pitches..... | (X)            | 3,045                                 | (X)              | 1429   | Crushed and broken stone, n.e.c.....   | (X)            | (X)                                   | 2,585            |
| 32730                                      | Ready-mixed concrete.....                           | (X)            | 7,414                                 | (X)              | 1442   | Construction sand and gravel.....  | (X)            | (X)                                   | 3,488            |
|  | Other secondary products.....                       | (X)            | 5,930                                 | (X)              | 2952   | Asphalt felts and coatings..   | (X)            | (X)                                   | 8,380            |
|  |   |                |                                       |                  | 3272   | Other concrete products.....   | (X)            | (X)                                   | 2,872            |
|  |   |                |                                       |                  | 3273   | Ready-mixed concrete.....  | (X)            | (X)                                   | 14,740           |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code | Class of products and miscellaneous receipts                           | All industries | Asphalt felts and coatings (SIC 2952) | Other industries | Prod. class code | Class of products and miscellaneous receipts   | All industries | Asphalt felts and coatings (SIC 2952)          | Other industries |
|------------------|--|----------------|---------------------------------------|------------------|------------------|--|----------------|--|------------------|
|                  | ASPHALT FELTS AND COATINGS INDUSTRY                                    |                |                                       |                  |                  | ASPHALT FELTS AND COATINGS INDUSTRY—Continued  |                |  |                  |
|                  | Total shipments and receipts of the industry.....                      | (X)            | 527,632                               | (X)              |                  | Listing of other industries with over \$2 million shipments of each primary product class: |                |  |                  |
|                  | Primary products.....  | 459,482        | 423,936                               | 35,546           | 29521<br>29522   | 3982 Hand surface floor coverings  | (X)            | (X)  | (2-5)            |
| 29521            | Asphalt and tar saturated felts and boards for nonbuilding use..       | 21,086         | 15,757                                | 5,329            | 29523            | 2818 Organic chemicals, n.e.c....  | (X)            | (X)  | (2-5)            |
| 29522            | Asphalt and tar coatings, cements, and pitches.....                    | 94,402         | 76,651                                | 17,751           |                  | 2851 Paints and allied products..  | (X)            | (X)  | 5,072            |
| 29523            | Asphalt and tar roofing and siding products.....                       | 338,637        | 326,171                               | 12,466           |                  | 2951 Paving mixtures and blocks..  | (X)            | (X)  | 3,045            |
| 29520            | Asphalt felts and coatings, n.s.k.....                                 | 5,357          | 5,357                                 | -                |                  | 2814 Cyclic (coal tar) crudes....  | (X)            | (X)  | (over 2)         |
|                  | Secondary products.....  | (X)            | 47,594                                | (X)              |                  | 3444 Sheet metal work.....   | (X)            | (X)  | 2,837            |
| 28140            | Cyclic (coal tar) crude.....   | (X)            | (over 2)                              | (X)              |                  |  | All industries | Petroleum and coal products, n.e.c. (SIC 2999) | Other industries |
| 29510            | Paving mixtures and blocks.....  | (X)            | 8,380                                 | (X)              |                  | PETROLEUM AND COAL PRODUCTS, N.E.C., INDUSTRY  |                |  |                  |
| 32924            | Asbestos-cement shingles and clapboard.....                            | (X)            | (over 2)                              | (X)              |                  | Total shipments and receipts of the industry.....  | (X)            | 71,525   | (X)              |
| 32927            | Asbestos textiles and other asbestos and asbestos cement products..... | (X)            | 15,112                                | (X)              | 29990            | Products of petroleum and coal, n.e.c.....   | 69,257         | 63,258   | 5,999            |
|                  | Miscellaneous receipts.....  | (X)            | 56,102                                | (X)              |                  | Secondary products.....  | (X)            | 2,810  | (X)              |
|                  | Resales.....   | (X)            | 53,755                                | (X)              |                  | Miscellaneous receipts.....  | (X)            | 5,457  | (X)              |
|                  | Other miscellaneous receipts.....                                      | (X)            | 2,347                                 | (X)              |                  | Resales.....   | (X)            | 5,448  | (X)              |
|                  |  |                |                                       |                  |                  | Other miscellaneous receipts.....  | (X)            | 9  | (X)              |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.  
<sup>1</sup>Product class codes 29118, 29119, and 29110 are not primary to industry 2992 and are therefore excluded from the total for primary products of industry 2992 and are included in the total for "Other industries."



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code         | Product   | Unit of measure          | 1963                                |   |  |   | 1958                                |   |  |   |           |           |
|----------------------|---|--------------------------|-------------------------------------|---|--|---|-------------------------------------|---|--|---|-----------|-----------|
|                      |   |                          | Receipts <sup>1</sup><br>(quantity) | Total shipments including<br>interplant transfers |  | Net<br>shipments <sup>2</sup><br>(quantity) | Receipts <sup>1</sup><br>(quantity) | Total shipments including<br>interplant transfers |  | Net<br>shipments <sup>2</sup><br>(quantity) |           |           |
|                      |   |                          |                                     | Quantity  | Value<br>(excluding<br>tax)<br>(\$1,000) |   |                                     | Quantity  | Value<br>(excluding<br>tax)<br>(\$1,000) |   |           |           |
| 2911- --<br>2992- -- | PETROLEUM PRODUCTS, TOTAL.....  | .....                    | (X)                                 | (X)   | 15,983,265                               | (X)   | (X)                                 | (X)   | 14,133,967                               | (X)   |           |           |
| 29111 --             | Gasoline and jet fuel.....  | 1,000 bbls.              | 51,686                              | 1,730,431   | 8,328,428                                | 1,678,745                                   | 38,768                              | 1,525,508   | 7,825,021                                | 1,486,740                                   |           |           |
| 29111 11             | Aviation gasoline (except jet-<br>propulsion fuel).....   | ...do.....               | <sup>3</sup> 1,183                  | 94,626  | 510,044                                  | <sup>3</sup> 184,602                        | } <sup>4</sup> 37,560               | { 113,724   | 733,058                                  | } <sup>4</sup> 1,408,949                    |           |           |
| 29111 31             | Automotive gasoline.....  | ...do.....               | 16,031                              | 1,488,927   | 7,224,947                                | 1,472,896                                   |                                     |   |  |   | 1,299,745 | 6,628,060 |
| 29111 51             | Jet-propulsion fuel, excluding<br>kerosene.....   | ...do.....               | ( <sup>3</sup> )                    | 91,159  | 350,965                                  | ( <sup>3</sup> )                            |                                     |   |  |   | 1,208     | 78,999    |
| 29111 98             | Other finished gasolines, including<br>finished base stocks and blending<br>agents <sup>5</sup> .....             | ...do.....               | 34,472                              | 55,719  | 242,472                                  | 21,247                                      | ( <sup>4</sup> )                    | 33,040  | 157,573                                  | ( <sup>4</sup> )                            |           |           |
| 29112 --             | Kerosene.....   | ...do.....               | 3,800                               | 169,640   | 656,271                                  | 165,840                                     | 2,156                               | 102,549   | 411,720                                  | 100,393                                     |           |           |
| 29112 13             | Kerosene jet-propulsion fuel.....   | ...do.....               | } 3,800                             | 75,034  | 281,522                                  | } 165,840                                   | 2,156                               | 102,549   | 411,720                                  | 100,393                                     |           |           |
| 29112 19             | All other kerosene <sup>6</sup> .....   | ...do.....               |                                     | 94,606  | 374,749                                  |   |                                     |   |  |   |           |           |
| 29113 --             | Distillate fuel oil.....  | ...do.....               | 12,679                              | 799,010   | 2,896,298                                | 786,331                                     | 18,521                              | 661,316   | 2,490,886                                | 642,795                                     |           |           |
| 29113 11             | Grade No. 1.....  | ...do.....               | 5,201                               | 61,292  | 249,644                                  | 56,091                                      | (X)                                 | 57,622  | 238,175                                  | (X)   |           |           |
| 29113 31             | Grades No. 2-4.....   | ...do.....               | 4,921                               | 552,041   | 1,985,753                                | 547,120                                     | (X)                                 | 453,380   | 1,692,118                                | (X)   |           |           |
| 29113 51             | Diesel-type fuel oil (light).....   | ...do.....               | 979                                 | 165,450   | 589,216                                  | 164,471                                     | (X)                                 | 132,985   | 497,449                                  | (X)   |           |           |
| 29113 98             | All other distillate fuel oils, in-<br>cluding light gas-enrichment oil..   | ...do.....               | 1,578                               | 20,227  | 71,685                                   | 18,649                                      | (X)                                 | 17,329  | 63,144                                   | (X)   |           |           |
| 29114 --             | Residual fuel oil.....  | ...do.....               | 22,326                              | 286,253   | 621,775                                  | 263,927                                     | 17,295                              | 350,892   | 817,184                                  | 333,597                                     |           |           |
| 29114 11             | Grade No. 5, including Navy special   | ...do.....               | } 10,784                            | 27,753  | 71,094                                   | } 214,168                                   | { (X)                               | 46,940  | 118,247                                  | (X)   |           |           |
| 29114 31             | Grade No. 6, including Bunker C...  | ...do.....               |                                     | 188,078   | 392,636                                  |   |                                     | (X)   | 264,254                                  | 592,192                                     | (X)       |           |
| 29114 51             | Diesel-type fuel oil (heavy).....   | ...do.....               |                                     | 79,121  | 719,925                                  |   |                                     | (X)   | 8,820                                    | 24,345                                      | (X)       |           |
| 29114 98             | Other residual fuel oils, including<br>heavy gas-enrichment oil.....  | ...do.....               |                                     | 11,542  | 61,301                                   |   |                                     | 138,120   | 49,759                                   | (X)   | 30,568    | 81,361    |
| 29114 00             | Residual fuel oil, n.s.k.....   | ...do.....               | -                                   | ( <sup>7</sup> )                                  | ( <sup>7</sup> )                         | -   | (X)                                 | 310   | 1,039                                    | (X)   |           |           |
| 29115 --             | Liquefied refinery gases and<br>aromatics, including feed stocks <sup>8 9</sup> .                                 | ...do.....               | 51,806                              | 228,641   | 957,020                                  | 177,655                                     | 22,363                              | 106,177   | 560,029                                  | 83,814                                      |           |           |
| 29115 11             | For direct internal-combustion<br>engine use (not included in gas-<br>oline above), excluding acetylene.          | ...do.....               | (X)                                 | ( <sup>10</sup> )                                 | ( <sup>10</sup> )                        | (X)   | (X)                                 | 5,684   | 10,524                                   | (X)   |           |           |
|                      | Chemical raw material, including<br>synthetic rubber components:  |                          |                                     |   |  |   |                                     |   |  |   |           |           |
|                      | Aliphatics: <sup>11</sup>   |                          |                                     |   |  |   |                                     |   |  |   |           |           |
| 29115 51             | Ethylene.....   | ...do.....               | (X)                                 | 22,228  | 165,583                                  | (X)   | (X)                                 | 3,783   | 41,960                                   | (X)   |           |           |
| 29115 55             | Other aliphatics, including<br>feedstock mixtures.....  | ...do.....               | (X)                                 | 45,062  | 309,919                                  | (X)   | (X)                                 | 26,098  | 273,219                                  | (X)   |           |           |
| 29115 88             | Aromatics (including benzene,<br>toluene, xylenes, etc.) <sup>11</sup> .....                                      | ...do.....               | (X)                                 | 33,502  | 254,144                                  | (X)   | (X)                                 | 7,962   | 64,759                                   | (X)   |           |           |
| 29115 98             | Other liquefied gases.....  | ...do.....               | (X)                                 | <sup>10</sup> 127,849                             | <sup>10</sup> 227,374                    | (X)   | (X)                                 | 62,650  | 169,567                                  | (X)   |           |           |
| 29118 --             | Unfinished oils, and lubricating oil<br>base stock <sup>12</sup> .....  | ...do.....               | 106,627                             | 126,057   | 526,218                                  | 19,430                                      | 121,508                             | 93,367  | 440,885                                  | 28,141                                      |           |           |
| 29118 12             | Unfinished oils, including cracking<br>stock, and topped and enriched<br>petroleum <sup>13</sup> .....            | ...do.....               | 94,953                              | 101,060   | 323,716                                  | 6,107                                       | 96,508                              | 71,396  | 276,913                                  | 25,112                                      |           |           |
| 29118 51             | Lubricating-oil petroleum base<br>stocks (for blending, compounds,<br>and grease manufacture) <sup>14</sup> ..... | ...do.....               | 11,674                              | 24,997  | 202,502                                  | 13,323                                      | 25,000                              | 21,971  | 163,972                                  | 3,029                                       |           |           |
| 29119 --             | Asphalt.....  | ...do.....               | (X)                                 | 47,051  | 360,509                                  | (X)   | (X)                                 | (X)   | 284,629                                  | (X)   |           |           |
| 29119 11             | 200 penetration and over (including<br>emulsified asphalt produced at the<br>refinery) <sup>15</sup> .....        | ...do.....               | (D)                                 | 33,324  | 112,122                                  | (D)   | (X)                                 | 37,586  | 119,487                                  | (X)   |           |           |
| 29119 51             | Less than 200 penetration <sup>16</sup> .....   | 1,000 short<br>tons..... | (D)                                 | 13,727  | 248,387                                  | (D)   | (X)                                 | 8,645   | 160,847                                  | (X)   |           |           |
| 29119 00             | Asphalt, n.s.k.....   | .....                    | -                                   | -   | -  | -   | (X)                                 | 4,295   | -  | (X)   |           |           |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code                     | Product  | Unit of measure                       | 1963   |  |                                 |                          | 1958                      |  |                                 |                                    |
|----------------------------------|--|---------------------------------------|--|--|---------------------------------|--------------------------|---------------------------|--|---------------------------------|------------------------------------|
|                                  |  |                                       | Receipts (quantity)                            | Total shipments including interplant transfers |                                 | Net shipments (quantity) | Receipts (quantity)       | Total shipments including interplant transfers |                                 | Net shipments (quantity)           |
|                                  |  |                                       |  | Quantity                                       | Value (excluding tax) (\$1,000) |                          |                           | Quantity                                       | Value (excluding tax) (\$1,000) |                                    |
| 2911- --<br>2992- --             | PETROLEUM PRODUCTS—Continued   |                                       |  |  |                                 |                          |                           |  |                                 |                                    |
| 29110 --                         | Other finished petroleum products, including waxes <sup>9</sup> .....  |                                       | (X)  | (X)  | 17426,598                       | (X)                      | (X)                       | (X)  | 421,060                         | (X)                                |
| 29110 11<br>29110 21             | Petrolatum.....<br>Petroleum coke.....   | 1,000 bbls.<br>1,000 short tons.....  | 514<br>(S)                                     | 2,107<br>4,873                                 | 26,628<br>52,051                | 1,593<br>(S)             | 1 <sup>8</sup> 653<br>(X) | 1 <sup>8</sup> 1,930<br>3,514                  | 22,406<br>39,735                | 1 <sup>8</sup> 1,277<br>(X)        |
| 29110 31<br>29110 41             | Road oil <sup>19</sup> .....<br>Still gas.....   | 1,000 bbls.<br>Million cubic ft..     | (D)<br>(D)                                     | 9,334<br>21,751                                | 27,785<br>7,840                 | (D)<br>(D)               | (X)<br>(X)                | 10,371<br>57,994                               | 29,166<br>16,101                | (X)<br>(X)                         |
| 29110 51<br>29110 61<br>29110 71 | Naphtha solvents <sup>20</sup> .....<br>Microcrystalline wax <sup>21</sup> .....<br>Refined and semi-refined crystal-line wax..... | 1,000 bbls.<br>..do.....<br>..do..... | 1,831<br>(S)<br>(S)                            | 20,766<br>1,468<br>4,432                       | 124,909<br>31,942<br>49,343     | 18,935<br>(S)<br>(S)     | (X)<br>(X)<br>(X)         | 20,397<br>171,036<br>184,332                   | 135,651<br>27,500<br>75,723     | (X)<br>(X)<br>1 <sup>8</sup> 5,703 |
| 29110 81<br>29110 98             | Crude-scale crystalline wax.....<br>Other finished petroleum products..  | ..do.....<br>..do.....                | (S)<br>(S)                                     | 1,063<br>83,886                                | 9,369<br>83,886                 | (S)<br>(S)               | (X)<br>(X)                | 17,761<br>(X)                                  | 10,226<br>64,552                | (X)<br>(X)                         |
| 29110 00                         | Products of petroleum refining, n.sk. <sup>17</sup>  |                                       | (X)  | (X)  | 1712,845                        | (X)                      | (X)                       | (X)  | (X)                             | (X)                                |
| 29116 --<br>29926 --             | Lubricants and similar oils <sup>22</sup> .....  |                                       |  |  |                                 |                          |                           |  |                                 |                                    |
| 29116 11                         | Containing petroleum oils.....   | 1,000 bbls.                           | (X)  | 67,192   | 1,060,690                       | (X)                      | (X)                       | 52,946   | 748,185                         | (X)                                |
|                                  | Made in petroleum refineries.....  | ..do.....                             | 2,393  | 53,406   | 23728,283                       | 51,013                   | 2,718                     | 44,993   | 583,345                         | 42,275                             |
| 29926 11                         | Made in lubricating oils and greases industry.....   | ..do.....                             | 5,742  | 12,981   | 310,180                         | 7,239                    | 2,146                     | 7,207  | 157,703                         | 4,986                              |
|                                  | Made in other manufacturing industries.....  | ..do.....                             | (X)  | 805  | 22,227                          | (X)                      | (X)                       | 821  | 15,652                          | (X)                                |
| 29116 51                         | Containing animal and vegetable oils only.....   | ..do.....                             | (X)  | 428  | 14,248                          | (X)                      | (X)                       | 356  | 17,007                          | (X)                                |
|                                  | Made in petroleum refineries.....  | ..do.....                             | (X)  | (X)  | (23)                            | (X)                      | (X)                       | (23)   | (23)                            | (X)                                |
| 29926 51                         | Made in lubricating oils and greases industry.....   | ..do.....                             | (S)  | 428  | 14,248                          | (S)                      | 114                       | 225  | 6,713                           | 186                                |
|                                  | Made in other manufacturing industries.....  | ..do.....                             | (X)  | (X)  | (X)                             | (X)                      | (X)                       | 2356   | 231,779                         | (X)                                |
| 29116 00<br>29926 00             | Lubricants and similar oils, n.s.k. Made in petroleum refineries.....<br>Made in other manufacturing industries.....               |                                       | (X)<br>(X)                                     | (X)<br>(X)                                     | 2,421<br>435                    | (X)<br>(X)               | (X)<br>(X)                | (X)<br>(X)                                     | 7,170                           | (X)<br>(X)                         |
| 29117 --<br>29927 --             | Lubricating greases <sup>24</sup> .....  |                                       |  |  |                                 |                          |                           |  |                                 |                                    |
| 29117 11                         | Containing petroleum oils.....   | 1,000 bbls.                           | (X)  | 5,280  | 122,779                         | (X)                      | (X)                       | 2 <sup>5</sup> 3,027                           | 95,277                          | (X)                                |
|                                  | Made in petroleum refineries.....  | ..do.....                             | 88   | 3,232  | 53,942                          | 3,144                    | 2 <sup>5</sup> 33         | 2 <sup>5</sup> 2,005                           | 54,270                          | 2 <sup>5</sup> 1,972               |
| 29927 11                         | Made in lubricating oils and greases industry.....   | ..do.....                             | 567  | 1,961  | 65,714                          | 1,394                    | (NA)                      | 1,022  | 41,007                          | (NA)                               |
|                                  | Made in other manufacturing industries.....  | ..do.....                             | (X)  | 87   | 3,123                           | (X)                      | (X)                       | (X)  | (X)                             | (X)                                |
| 29117 51                         | Containing animal and vegetable oils only.....   | ..do.....                             | (X)  | 327  | 5,843                           | (X)                      | (X)                       | 2 <sup>5</sup> 68                              | 2,702                           | (X)                                |
|                                  | Made in petroleum refineries.....  | ..do.....                             | (S)  | (S)  | 1,877                           | (S)                      | (NA)                      | (NA)   | (NA)                            | (NA)                               |
| 29927 51                         | Made in lubricating oils and greases industry.....   | ..do.....                             | (S)  | (S)  | 2 <sup>5</sup> 3,966            | (S)                      | (NA)                      | 2 <sup>5</sup> 68                              | 2,702                           | (NA)                               |
|                                  | Made in other manufacturing industries.....  | ..do.....                             | (X)  | (X)  | (X)                             | (X)                      | (X)                       | (X)  | (X)                             | (X)                                |
| 29117 00<br>29927 00             | Lubricating greases, n.s.k.: Made in petroleum refineries.....<br>Made in other manufacturing industries.....                      |                                       | -<br>(X)                                       | -<br>(X)                                       | -<br>(26)                       | -<br>(X)                 | (X)<br>(X)                | (X)<br>(X)                                     | 2,368                           | (X)<br>(X)                         |
| 29920 00                         | Lubricating oils and greases, n.s.k.   |                                       | (X)  | (X)  | 4,167                           | (X)                      | (X)                       | (X)  | 9,844                           | (X)                                |
|                                  |  |                                       | Total shipments including interplant transfers |  |                                 |                          |                           |  |                                 |                                    |
|                                  |  |                                       | Product  |  | Unit of measure                 | 1963                     |                           | 1958   |                                 |                                    |
|                                  |  |                                       |  |  |                                 | Quantity                 | Value (\$1,000)           | Quantity                                       | Value (\$1,000)                 |                                    |
| 2951- --                         | PAVING MIXTURES AND BLOCKS, TOTAL.....   |                                       |  |  |                                 | (X)                      | 402,906                   | (X)  | 265,902                         |                                    |
| 29510 --                         | Paving mixtures and blocks:  |                                       |  |  |                                 |                          |                           |  |                                 |                                    |
|                                  | Liquid asphalt and tar paving materials:   |                                       |  |  |                                 |                          |                           |  |                                 |                                    |
| 29510 11                         | Emulsified asphalt, including liquid additives <sup>27</sup> .....   |                                       | 1,000 bbls....                                 |  |                                 | 12,054                   | 48,577                    | 6,544  | 34,257                          |                                    |
| 29510 15                         | Other liquid asphalt and tar paving materials, including cut-backs.....  |                                       | ..do.....                                      |  |                                 | 7,701                    | 33,549                    | 2,528  | 14,687                          |                                    |

See footnotes at end of table.





TABLE 6A. **Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued**

## Footnotes for Table 6A—29A—Continued

<sup>5</sup>Includes all finished gasolines (other than aviation and automotive gasoline), finished base stocks, and blending agents such as alkylate, polymers (dimer, codimer, etc.), hydropolymers (hydrodimer, hydrocodimer, etc.), cumene, isopetane, isohexane, neohexane, isooheptane, iso-octane, motor benzol (benzene), and other blending agents derived from petroleum (excludes natural gasoline).

<sup>6</sup>Includes range oils, signal oil, mineral seal oil, mineral colza oil, longtime burning oil, 300<sup>0</sup> oil, and insecticide base.

<sup>7</sup>Product code 2911400 included with 2911451 for 1963.

<sup>8</sup>Includes ethane, propane, propene, butane, butene, propane-butane mixtures, pentane, butadiene, and other liquefied hydrocarbon gases. Receipts and shipments exclude liquefied petroleum gases from natural gasoline plants.

<sup>9</sup>1963 figures are not directly comparable with those for 1958 because liquefied refinery gases and aromatics for 1963 (formerly defined as liquefied petroleum gases), product class code 29115, include undetermined amounts previously reported as other finished petroleum products, product class code 29110.

<sup>10</sup>Product code 2911511, included in code 2911598 for 1963.

<sup>11</sup>Detailed product statistics for liquefied gases used as chemical raw material are published by the United States Tariff Commission in the report "Synthetic Organic Chemicals, United States Production and Sales."

<sup>12</sup>Although respondents were requested to report receipts in the same manner as billed by the shipper, the figures indicate that items billed as other oils by the shipper were sometimes reported as receipts of "unfinished oils" or "lubricating oil base stock" for the refinery receiving these oils.

<sup>13</sup>Includes such products as cracking stock, unfinished gasoline, requiring further distillation, naphtha stocks, soaps, wax distillate, and other unfinished petroleum oils. Excludes lubricating oil base stocks, natural gasoline and cycle condensates.

<sup>14</sup>Includes light, medium, neutral, heavy neutral, and residual stocks.

<sup>15</sup>Includes flux for paving, roofing, waterproofing, mastic, and other purposes; cut-back asphalt, emulsified asphalt and fluxes made in petroleum refineries, and other liquid asphaltic products except road oil and fuel oil used for heating purposes.

<sup>16</sup>Includes asphalt for paving, roofing, waterproofing, briquetting, mastic, pipe coating, molding composition, and other heavy asphalt products.

<sup>17</sup>Product code 2911000, "Products of petroleum refining, n.s.k.," included in figure for code 29110, "Other finished petroleum products, including waxes."

<sup>18</sup>1958 figure, which was previously published in quantities of thousand pounds, has been converted to thousand barrels on the basis of 280 pounds per barrel.

<sup>19</sup>Represents residual asphaltic oil used for surface treatment of roads and highways.

<sup>20</sup>Includes petroleum ether, rubber solvent, mineral spirits (petroleum spirits), varnish makers' and painters' naphtha, high-solvency naphtha, benzol diluent, lacquer diluent, cleaners' naphtha, stoddard solvent, extraction solvents, and other petroleum distillates shipped as solvents.

<sup>21</sup>Represents amorphous paraffin of melting point not under 145<sup>0</sup>.

<sup>22</sup>Includes oils for lubricating purposes and such nonlubrication purposes as transformer oil, hydraulic oil, processing oil, quenching oil, and liquid rust preventative.

<sup>23</sup>For 1963, lubricants and similar oils containing animal and vegetable oils made in petroleum refineries, product code 2911651, valued at less than \$1 million, are included in lubricants and similar oils containing petroleum oils made in petroleum refineries, code 2911611. The exact figure is withheld to avoid disclosing figures of individual companies. For 1958, code 2911651 is included with code 2992651.

<sup>24</sup>Includes greases for aviation, automotive, industrial, and railroad uses; launching grease, and cutting, drawing, and grinding compounds and paste. Also includes paste rust-preventative compounds and thread compounds. See also footnote 22.

<sup>25</sup>1958 figure, which was previously published in quantities of thousand pounds, has been converted to thousand barrels on the basis of 315 pounds per barrel.

<sup>26</sup>Product code 2992700 included with code 2992751 for 1963.

<sup>27</sup>Excludes data for quantities produced in petroleum refineries, which are included in the statistics for code 2911911, asphalt of 200 penetration and over, in industry 2911, Petroleum Refining.

<sup>28</sup>Product code 2952231 included with code 2952200 for 1958.



TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year   | Indexes (1954 = 100) |            | Product code | Product and year   | Indexes (1954 = 100)                 |                                      |
|--------------|--|----------------------|------------|--------------|--|--------------------------------------|--------------------------------------|
|              |  | Production           | Unit value |              |  | Production                           | Unit value                           |
| 291--        | Petroleum refining <sup>1</sup> .....1963..<br>1958..                                    | 138<br>115           | 96<br>104  | 295--        | Paving and roofing materials.....1963..<br>1958..                                    | ( <sup>2</sup> )<br>( <sup>2</sup> ) | ( <sup>2</sup> )<br>( <sup>2</sup> ) |
| 2911-        | Petroleum products made in<br>petroleum refineries <sup>1</sup> .....1963..<br>1958..    | 138<br>115           | 96<br>104  | 2951-        | Paving mixtures and blocks.....1963..<br>1958..                                      | ( <sup>2</sup> )<br>( <sup>2</sup> ) | ( <sup>2</sup> )<br>( <sup>2</sup> ) |
| 29111        | Gasoline and jet fuel.....1963..<br>1958..   | 133<br>118           | 96<br>101  | 2952-        | Asphalt felts and coating.....1963..<br>1958..                                       | 118<br>105                           | 102<br>101                           |
| 29112        | Kerosene.....1963..<br>1958..  | 154<br>93            | 98<br>101  | 29522        | Asphalt and tar coatings,<br>cements and pitches.....1963..<br>1958..                | 170<br>125                           | 133<br>130                           |
| 29113        | Distillate fuel oil.....1963..<br>1958..   | 143<br>118           | 98<br>102  | 29523        | Asphalt and tar roofing and<br>siding products.....1963..<br>1958..                  | 102<br>96                            | 100<br>98                            |
| 29114        | Residual fuel oil.....1963..<br>1958..   | 73<br>88             | 108<br>118 | 2992-        | Lubricating oils and greases.....1963..<br>1958..                                    | 163<br>103                           | 124<br>119                           |
| 29115        | Liquefied refinery gases and<br>aromatics, including feed<br>stocks.....1963..<br>1958.. | 317<br>134           | 77<br>106  | 29926        | Lubricants and similar oils not<br>made in petroleum refineries.....1963..<br>1958.. | 183<br>108                           | 125<br>115                           |
| 29116        | Lubricants and similar oils made<br>in petroleum refineries.....1963..<br>1958..         | 120<br>101           | 112<br>106 | 29927        | Lubricating greases not made in<br>petroleum refineries.....1963..<br>1958..         | 142<br>73                            | 112<br>133                           |
| 29118        | Unfinished oils, and lubricating<br>oil base stock.....1963..<br>1958..                  | 174<br>133           | 103<br>113 | 2999-        | Products of petroleum and coal,<br>n.e.c.....1963..<br>1958..                        | ( <sup>2</sup> )<br>( <sup>2</sup> ) | ( <sup>2</sup> )<br>( <sup>2</sup> ) |
| 29119        | Asphalt.....1963..<br>1958..   | 154<br>122           | 106<br>106 |              |  |                                      |                                      |
| 29110        | Other finished petroleum products<br>including waxes.....1963..<br>1958..                | 140<br>118           | 95<br>111  |              |  |                                      |                                      |

n.e.c. Not elsewhere classified.

<sup>1</sup>Adjusted to include lubricating greases made petroleum refineries (product class 29117).

<sup>2</sup>Not shown because comparable quantity data were not obtained for a significant portion of these products.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class   | 1963       | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958       | 1954       | 1947      |
|-------|---|------------|-------------------|-------------------|-------------------|-------------------|------------|------------|-----------|
| 2911- | Petroleum refining.....   | 15,557,654 | 15,218,340        | 14,890,250        | 14,774,624        | 14,497,058        | 13,889,449 | 11,666,867 | (NA)      |
| 29111 | Gasoline and jet fuel.....  | 8,328,428  | 8,469,402         | 8,374,999         | 8,413,110         | 8,152,180         | 7,825,021  | 6,548,701  | 3,136,709 |
| 29112 | Kerosene.....   | 656,271    | (485,637)         | (451,825)         | (471,561)         | (433,081)         | 411,720    | 434,852    | 342,997   |
| 29113 | Distillate fuel oil.....  | 2,896,298  | 2,636,432         | 2,638,346         | 2,478,056         | 2,595,986         | 2,490,886  | 2,064,298  | 918,291   |
| 29114 | Residual fuel oil.....  | 621,775    | (726,861)         | (737,895)         | (777,635)         | (800,150)         | 817,184    | 787,783    | 899,581   |
| 29115 | Liquefied petroleum gases, (made in re-<br>fineries).....                         | 957,020    | 751,159           | 727,995           | 712,738           | 683,945           | 560,029    | 394,826    | 118,871   |
| 29116 | Lubricating oils (made in refineries)<br>(See also code 29926).....               | 728,718    | 740,461           | 675,323           | 662,532           | 624,423           | 583,679    | 546,051    | (NA)      |
| 29117 | Lubricating greases (made in refineries)<br>(See also code 29927).....            | 55,819     | 57,958            | 55,557            | 57,540            | 58,130            | 54,356     | 52,966     | (NA)      |
| 29118 | Unfinished oils and lubricating oils base<br>stock.....                           | 526,218    | 545,572           | 494,542           | 468,559           | 423,298           | 440,885    | 294,875    | 214,666   |
| 29119 | Asphalt.....  | 360,509    | 364,508           | 335,296           | 313,619           | 295,479           | 284,629    | 221,681    | 130,344   |
| 29110 | Other finished petroleum products, including<br>waxes.....                        | 2,426,598  | 440,350           | 398,472           | 419,274           | 430,386           | 421,060    | 320,834    | 234,904   |
| 29510 | Paving mixtures and blocks.....   | 402,906    | (353,418)         | (321,511)         | (318,077)         | (273,774)         | 265,902    | 120,717    | 57,066    |
| 2952- | Asphalt felts and coatings.....   | 459,482    | 460,926           | 448,097           | 489,821           | 445,914           | 408,130    | 388,237    | 333,947   |
| 29521 | Asphalt and tar saturated felts and boards<br>for nonbuilding use.....            | 21,086     | 20,500            | 20,051            | 20,104            | 22,293            | 21,526     | (NA)       | (NA)      |
| 29522 | Asphalt and tar coatings, cements, and<br>pitches.....                            | 94,402     | (82,525)          | (S)               | (S)               | 79,939            | 67,931     | 41,928     | 28,100    |
| 29523 | Asphalt and tar roofing and siding products.                                      | 338,637    | 357,901           | 346,165           | 328,325           | 337,632           | 313,554    | (NA)       | (NA)      |
| 29520 | Asphalt felts and coatings, n.s.k.....  | 5,357      | (S)               | (S)               | (S)               | (S)               | 5,119      | (NA)       | (NA)      |
| 2992- | Lubricating oils and greases.....   | 425,611    | (287,996)         | (275,781)         | (296,501)         | (278,356)         | 244,518    | 198,300    | (NA)      |
| 29926 | Lubricating oils (made from purchased<br>materials) (See also code 29116).....    | 348,641    | (223,548)         | (214,690)         | (234,472)         | (217,412)         | 188,683    | (NA)       | (NA)      |
| 29927 | Lubricating greases (made from purchased<br>materials) (See also code 29117)..... | 72,803     | (52,208)          | (52,105)          | (53,486)          | (52,228)          | 45,991     | 47,338     | (NA)      |
| 29920 | Lubricating oils and greases (made from<br>purchased materials), n.s.k.....       | 4,167      | (12,240)          | (8,986)           | (8,543)           | (8,716)           | 9,884      | (NA)       | (NA)      |
| 29990 | Products of petroleum and coal, n.e.c.....  | 69,257     | 74,261            | (S)               | (S)               | 70,704            | 66,976     | 61,241     | 47,231    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Includes \$12,845 thousand of "products of petroleum refining not specified by kind."



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area                                 | Value of shipments |                  | Product class and geographic area  | Value of shipments |                  | Product class and geographic area                             | Value of shipments |                  |
|---|--------------------|------------------|------------------------------------|--------------------|------------------|---|--------------------|------------------|
|   | 1963 <sup>1</sup>  | 1958             |                                    | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |
| <b>OTHER FINISHED PETROLEUM PRODUCTS, INCLUDING WAXES (29110)</b> |                    |                  | <b>KEROSENE (29112)—Continued</b>  |                    |                  | <b>LIQUEFIED REFINERY GASES (MADE IN REFINERIES) (29115)</b>  |                    |                  |
| United States, total.....   | 426,598            | 421,060          | South.....                         | 378,726            | 248,769          | United States, total...                                       | 957,020            | 560,029          |
| Northeast.....  | 84,338             | 85,535           | Louisiana.....                     | 102,761            | 64,517           | Northeast.....  | 48,748             | 41,098           |
| New Jersey.....   | 21,897             | 28,759           | Oklahoma.....                      | 13,352             | 6,385            | Pennsylvania.....   | 23,274             | 30,616           |
| Pennsylvania.....   | 49,497             | 50,734           | Texas.....                         | 239,796            | 154,292          | East North Central.....                                       | 70,819             | 45,767           |
| East North Central.....   | 58,247             | 65,915           | Mountain.....                      | 2,459              | 2,865            | Ohio.....   | 16,211             | 13,615           |
| Ohio.....   | 11,211             | 11,725           | Pacific.....                       | 100,033            | 15,065           | Illinois.....   | 17,310             | 20,776           |
| Indiana.....  | 15,264             | ( <sup>2</sup> ) | <b>DISTILLATE FUEL OIL (29113)</b> |                    |                  | West North Central.....                                       | 8,172              | 5,173            |
| Illinois.....   | 23,164             | 20,861           | United States, total...            | 2,896,298          | 2,490,886        | Kansas.....   | 6,470              | ( <sup>2</sup> ) |
| Michigan.....   | 4,017              | 7,082            | Northeast.....                     | 459,543            | 434,518          | South.....  | 760,441            | 410,265          |
| Wisconsin.....  | 4,591              | ( <sup>2</sup> ) | New Jersey.....                    | 214,190            | 158,194          | Louisiana.....  | 125,656            | 66,723           |
| West North Central.....   | 17,581             | 16,563           | East North Central.....            | 512,297            | 462,926          | Oklahoma.....   | 13,021             | ( <sup>2</sup> ) |
| South Atlantic.....   | 7,682              | 5,223            | Ohio.....                          | 112,745            | 103,034          | Texas.....  | 570,919            | 299,773          |
| East South Central.....   | 6,181              | 3,463            | Indiana.....                       | 171,458            | 154,828          | Mountain.....   | 3,342              | 6,833            |
| West South Central.....   | 193,888            | 172,387          | Illinois.....                      | 173,211            | 150,157          | Pacific.....  | 65,502             | 50,893           |
| Arkansas.....   | 1,458              | 2,787            | West North Central.....            | 191,756            | 167,538          | California.....   | 62,218             | ( <sup>2</sup> ) |
| Louisiana.....  | 31,928             | 27,324           | Kansas.....                        | 119,136            | 102,983          | <b>LUBRICATING OILS (MADE IN REFINERIES) (29116)</b>          |                    |                  |
| Oklahoma.....   | 35,226             | 28,738           | South Atlantic.....                | 77,567             | 67,036           | United States, total...                                       |                    | 728,718          |
| Texas.....  | 125,276            | 113,538          | East South Central.....            | 57,331             | 38,073           | Northeast.....  |                    | 165,971          |
| Mountain.....   | 12,023             | 11,281           | Alabama.....                       | 4,077              | 2,647            | East North Central.....                                       |                    | 91,691           |
| Wyoming.....  | 5,881              | 6,936            | West South Central.....            | 1,212,317          | 989,126          | Illinois.....   |                    | 25,561           |
| Pacific.....  | 46,658             | 60,293           | Louisiana.....                     | 239,262            | 187,880          | West North Central.....                                       |                    | 32,499           |
| <b>GASOLINE AND JET FUEL (29111)</b>                              |                    |                  | Texas.....                         | 833,018            | 670,453          | Kansas.....   |                    | 31,959           |
| United States, total.....   | 8,328,428          | 7,825,021        | Mountain.....                      | 100,086            | 95,148           | South.....  |                    | 349,685          |
| Northeast.....  | 962,945            | 922,517          | Montana.....                       | 24,160             | 24,968           | Arkansas.....   |                    | 7,124            |
| Pennsylvania.....   | 497,665            | 500,615          | Wyoming.....                       | 28,337             | 28,400           | Oklahoma.....   |                    | 46,003           |
| East North Central.....   | 1,562,609          | 1,457,269        | Colorado.....                      | 11,807             | 7,182            | Texas.....  |                    | 253,694          |
| Ohio.....   | 443,217            | 450,870          | New Mexico.....                    | 5,570              | ( <sup>2</sup> ) | West.....   |                    | 88,872           |
| Indiana.....  | 392,343            | 378,786          | Utah.....                          | 30,212             | ( <sup>2</sup> ) | California.....   |                    | 85,109           |
| Illinois.....   | 583,635            | 565,410          | Pacific.....                       | 285,401            | 236,521          | <b>LUBRICATING GREASES (MADE IN REFINERIES) (29117)</b>       |                    |                  |
| West North Central.....   | 503,698            | 462,548          | California.....                    | 231,411            | 212,012          | United States, total...                                       |                    | 55,819           |
| Kansas.....   | 324,026            | 289,549          | <b>RESIDUAL FUEL OIL (29114)</b>   |                    |                  | Middle Atlantic.....  |                    | 5,132            |
| South.....  | 3,679,899          | 3,508,705        | United States, total...            | 621,775            | 817,184          | North Central.....  |                    | 8,115            |
| Louisiana.....  | 672,515            | 709,571          | Northeast.....                     | 70,589             | 138,618          | South.....  |                    | 32,872           |
| Oklahoma.....   | 379,843            | 397,837          | Pennsylvania.....                  | 35,379             | 83,174           | Texas.....  |                    | 125,225          |
| Texas.....  | 2,275,655          | 2,082,605        | East North Central.....            | 129,320            | 141,433          | West.....   |                    | 9,700            |
| Mountain.....   | 338,903            | ( <sup>2</sup> ) | Ohio.....                          | 28,320             | 32,234           | <b>UNFINISHED OILS AND LUBRICATING OIL BASE STOCK (29118)</b> |                    |                  |
| Montana.....  | 69,800             | 61,898           | Indiana.....                       | 49,331             | 48,755           | United States, total...                                       | 526,218            | 440,885          |
| Wyoming.....  | 105,564            | 91,327           | Illinois.....                      | 29,852             | 32,243           | Northeast.....  | 71,917             | 62,245           |
| Utah.....   | 90,586             | 91,249           | West North Central.....            | 14,838             | 16,561           | New Jersey.....   | 40,107             | ( <sup>2</sup> ) |
| Pacific.....  | 1,280,374          | ( <sup>2</sup> ) | Minnesota.....                     | 8,724              | 8,833            | East North Central.....                                       | 28,068             | 16,598           |
| California.....   | 1,071,866          | 1,066,363        | Kansas.....                        | 3,394              | 5,978            | Illinois.....   | 19,557             | ( <sup>2</sup> ) |
| <b>KEROSENE (29112)</b>   |                    |                  | South Atlantic.....                | 9,349              | ( <sup>2</sup> ) | West North Central.....                                       | 7,207              | 9,738            |
| United States, total.....   | 656,271            | 411,720          | Maryland.....                      | 1,803              | 1,789            | South.....  | 281,466            | 216,012          |
| Northeast.....  | 66,994             | 48,455           | East South Central.....            | 20,076             | ( <sup>2</sup> ) | Louisiana.....  | 70,864             | 49,585           |
| New Jersey.....   | 33,295             | 15,184           | Alabama.....                       | 2,589              | 1,683            | Oklahoma.....   | 10,260             | 12,141           |
| East North Central.....   | 101,799            | 91,409           | West South Central.....            | 152,963            | ( <sup>2</sup> ) | Texas.....  | 188,791            | 136,017          |
| Ohio.....   | 22,062             | 20,827           | Louisiana.....                     | 26,804             | 39,100           | West.....   | 137,560            | 136,292          |
| Indiana.....  | 15,290             | 18,563           | Texas.....                         | 116,959            | 187,852          | California.....   | 118,854            | ( <sup>2</sup> ) |
| Illinois.....   | 55,887             | 35,180           | Mountain.....                      | 19,630             | 23,109           |   |                    |                  |
| Michigan.....   | 8,560              | ( <sup>2</sup> ) | Montana.....                       | 2,541              | 2,109            |   |                    |                  |
| West North Central.....   | 6,238              | 5,157            | Wyoming.....                       | 4,458              | 6,405            |   |                    |                  |
|   |                    |                  | Colorado.....                      | 4,372              | 6,470            |   |                    |                  |
|   |                    |                  | Pacific.....                       | 205,010            | 229,436          |   |                    |                  |
|   |                    |                  | California.....                    | 188,085            | 222,316          |   |                    |                  |

See footnotes at end of table.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area                      | Value of shipments |                  | Product class and geographic area                                | Value of shipments |                  | Product class and geographic area                                  | Value of shipments |
|--|--------------------|------------------|--|--------------------|------------------|--|--------------------|
|  | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |  |                    |
| ASPHALT (29119)  |                    |                  | ASPHALT AND TAR COATINGS, CEMENTS, AND PITCHES (29522)—Continued |                    |                  | LUBRICATING OILS (MADE FROM PURCHASED MATERIALS) (29926)—Continued |                    |
| United States, total....                               | 360,509            | 284,629          |  |                    |                  |  | 1963 <sup>1</sup>  |
| Northeast.....   | 55,933             | 42,509           | South Atlantic.....  | 8,828              | 7,323            | Middle Atlantic.....   | 98,309             |
| New Jersey.....  | 11,241             | 13,205           | Maryland.....  | 1,287              | 1,029            | New York.....  | 9,883              |
| East North Central.....                                | 78,015             | 66,663           | East South Central.....  | 2,302              | 1,968            | New Jersey.....  | 54,531             |
| Ohio.....  | 26,368             | 22,245           | West South Central.....  | 14,636             | 9,311            | Pennsylvania.....  | 33,895             |
| Indiana.....   | 16,272             | 10,816           | Louisiana.....   | 2,528              | (Z)              | East North Central.....  | 107,711            |
| Illinois.....  | 25,552             | 25,299           | Texas.....   | 11,347             | 8,112            | Ohio.....  | 29,080             |
| West North Central.....                                | 25,161             | 18,715           | West.....  | 6,516              | 4,556            | Illinois.....  | 50,519             |
| South Atlantic.....                                    | 38,762             | 26,564           | California.....  | 4,091              | 3,325            | Michigan.....  | 15,061             |
| Maryland.....  | 23,663             | 11,382           | ASPHALT AND TAR ROOFING AND SIDING PRODUCTS (29523)              |                    |                  | West North Central.....  | 48,811             |
| East South Central.....                                | 26,289             | 16,888           | United States, total....   | 338,637            | 313,554          | Minnesota.....   | 10,175             |
| West South Central.....                                | 65,512             | 56,350           | New England.....   | 14,559             | 14,741           | Missouri.....  | 24,786             |
| Oklahoma.....  | 11,258             | 8,151            | Middle Atlantic.....   | 58,571             | 59,088           | South Atlantic.....  | 19,648             |
| Texas.....   | 32,097             | 30,770           | New Jersey.....  | 37,163             | 36,727           | Maryland.....  | 2,870              |
| Mountain.....  | 21,002             | 19,229           | East North Central.....  | 83,736             | 85,165           | East South Central.....  | 2,866              |
| Montana.....   | 6,593              | 6,130            | Ohio.....  | 14,540             | 13,732           | West South Central.....  | 31,806             |
| Wyoming.....   | 7,856              | 7,097            | Illinois.....  | 59,112             | 60,467           | Louisiana.....   | 25,257             |
| Pacific.....   | 49,836             | 37,711           | West North Central.....  | 27,064             | 22,793           | Texas.....   | 3,671              |
| California.....  | 40,099             | ( <sup>2</sup> ) | Missouri.....  | 14,149             | 11,048           | West.....  | 32,086             |
| ASPHALT AND TAR COATINGS, CEMENTS, AND PITCHES (29522) |                    |                  | South Atlantic.....  | 38,216             | 29,949           | California.....  | 27,105             |
| United States, total....                               | 94,402             | 67,931           | Georgia.....   | 17,792             | 11,427           | LUBRICATING GREASES (MADE FROM PURCHASED MATERIALS) (29927)        |                    |
| New England.....                                       | 2,473              | 2,066            | East South Central.....  | 17,471             | 15,651           | United States, total...  | 72,803             |
| Middle Atlantic.....                                   | 16,281             | 14,975           | Alabama.....   | 9,837              | 10,634           | Northeast.....   | 23,877             |
| New York.....  | 1,124              | 1,016            | West South Central.....  | 46,713             | 38,503           | New Jersey.....  | 7,215              |
| New Jersey.....  | 8,703              | 6,070            | Arkansas.....  | 10,635             | ( <sup>2</sup> ) | Pennsylvania.....  | 10,355             |
| Pennsylvania.....                                      | 6,454              | 7,889            | Louisiana.....   | 14,719             | 14,492           | East North Central.....  | 16,547             |
| East North Central.....                                | 37,726             | 23,315           | Oklahoma.....  | 2,295              | ( <sup>2</sup> ) | Ohio.....  | 7,892              |
| Ohio.....  | 17,472             | 11,182           | Texas.....   | 19,064             | 16,752           | Illinois.....  | 6,358              |
| Indiana.....   | 2,527              | (Z)              | West.....  | 52,307             | 47,664           | Michigan.....  | 1,443              |
| Illinois.....  | 15,478             | 10,096           | Oregon.....  | 8,484              | 6,103            | West North Central.....  | 17,724             |
| West North Central.....                                | 5,640              | 4,417            | California.....  | 33,944             | 36,398           | Missouri.....  | 5,861              |
| Missouri.....  | 4,161              | ( <sup>2</sup> ) | LUBRICATING OILS (MADE FROM PURCHASED MATERIALS) (29926)         |                    |                  | South.....   | 9,779              |
|  |                    |                  | United States, total....   |                    | 348,641          | Pacific.....   | 4,870              |
|  |                    |                  | New England.....   |                    | 7,404            |  |                    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported.

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed, but the exact figures are withheld to avoid disclosure of individual company figures: 29110, Connecticut, Minnesota, Missouri, Kansas, Delaware, Maryland, Virginia, Kentucky, Montana, Colorado, Utah, and California; 29111, Massachusetts, New York, New Jersey, Michigan, Wisconsin, Minnesota, Missouri, North Dakota, Nebraska, Delaware, Maryland, Virginia, West Virginia, South Carolina, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Colorado, New Mexico, Washington, Alaska, and Hawaii; 29112, New York, Pennsylvania, Kansas, Mississippi, Arkansas, Washington, and Hawaii; 29113, Massachusetts, New York, Pennsylvania, Michigan, Wisconsin, Minnesota, Missouri, North Dakota, Delaware, Maryland, Virginia, West Virginia, South Carolina, Kentucky, Tennessee, Arkansas, Oklahoma, Washington, Alaska, and Hawaii; 29114, New York, New Jersey, Michigan, Wisconsin, Missouri, Delaware, Kentucky, Tennessee, Mississippi, Arkansas, Oklahoma, New Mexico, Utah, Washington, and Hawaii; 29115, New York, New Jersey, Indiana, Michigan, Minnesota, Delaware, Maryland, Virginia, West Virginia, Kentucky, Arkansas, Utah, and Washington; 29116, New York, New Jersey, Pennsylvania, Ohio, Indiana, Michigan, West Virginia, Kentucky, Louisiana, and Wyoming; 29117, New York, Pennsylvania, Indiana, Michigan, Louisiana, Oklahoma, and California; 29118, Massachusetts, Rhode Island, Pennsylvania, Ohio, Indiana, Kansas, Maryland, West Virginia, South Carolina, Arkansas, Wyoming, Washington, and Alaska; 29119, Massachusetts, Rhode Island, New York, Pennsylvania, Michigan, Wisconsin, Minnesota, Missouri, Kansas, South Carolina, Georgia, Florida, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Louisiana, Colorado, New Mexico, Utah, Washington, and Oregon; 29522, Massachusetts, Michigan, North Carolina, Georgia, Florida, Tennessee, and Oregon; 29523, Massachusetts, Connecticut, Pennsylvania, Indiana, Michigan, Minnesota, Delaware, Maryland, West Virginia, North Carolina, South Carolina, Florida, Tennessee, Mississippi, Colorado, New Mexico, and Washington; 29926, Indiana, Wisconsin, Nebraska, Kansas, West Virginia, Georgia, Florida, Kentucky, Oklahoma, Washington, and Oregon; 29927, Connecticut, New York, Iowa, Kansas, Louisiana, Oklahoma, Texas, and California.

<sup>2</sup>Shipments of \$1 million or more were reported, but exact figures are withheld to avoid disclosure of individual company figures.



TABLE 6E. Selected Petroleum Products, by Geographic Areas: 1963

| Product class and geographic area  | Shipments including interplant transfers |                 | Product class and geographic area                           | Shipments including interplant transfers |                 | Product class and geographic area                                       | Shipments including interplant transfers |                 |
|--|--|-----------------|---|--|-----------------|---|--|-----------------|
|  | Quantity (1,000 bbls.)                   | Value (\$1,000) |   | Quantity (1,000 bbls.)                   | Value (\$1,000) |   | Quantity (1,000 bbls.)                   | Value (\$1,000) |
| AVIATION GASOLINE (EXCEPT JET-PROPULSION FUEL) (2911111)                       |  |                 | KEROSENE JET-PROPULSION FUEL (2911213)                      |  |                 | DISTILLATE FUEL OIL, DIESEL-TYPE FUEL OIL (LIGHT) (2911351)--Con.       |  |                 |
| United States, total....   | 94,626                                   | 510,044         | United States, total...                                     | 75,034                                   | 281,522         | North Central.....  | 28,739                                   | 108,226         |
| Middle Atlantic.....   | 1,319                                    | 6,869           | South.....  | 44,712                                   | 161,331         | Ohio.....   | 5,926                                    | 22,808          |
| East North Central.....  | 23,210                                   | 118,180         | Louisiana.....  | 14,476                                   | 50,243          | Illinois.....   | 7,065                                    | 25,570          |
| South.....   | 43,272                                   | 226,689         | Texas.....  | 26,705                                   | 98,800          | Kansas.....   | 5,858                                    | 21,982          |
| Louisiana.....   | 11,455                                   | 60,526          | West.....   | 20,025                                   | 79,346          | South.....  | 84,673                                   | 294,896         |
| Texas.....   | 15,851                                   | 88,727          | California.....   | 15,353                                   | 60,697          | Arkansas.....   | 4,373                                    | 14,664          |
| Mountain.....  | 7,321                                    | 40,373          | ALL OTHER KEROSENE (2911219)                                |  |                 | Louisiana.....  | 20,268                                   | 69,808          |
| Pacific.....   | 19,127                                   | 115,685         | United States, total...                                     | 94,606                                   | 374,749         | Oklahoma.....   | 2,684                                    | 9,337           |
| AUTOMOTIVE GASOLINE (2911131)  |  |                 | South.....  | 56,587                                   | 216,830         | Texas.....  | 43,199                                   | 149,358         |
| United States, total....   | 1,488,927                                | 7,224,947       | Louisiana.....  | 14,210                                   | 52,518          | West.....   | 45,980                                   | 162,128         |
| Northeast.....   | 193,050                                  | 940,243         | Texas.....  | 36,702                                   | 140,996         | Montana.....  | 1,854                                    | 6,720           |
| Pennsylvania.....  | 100,405                                  | 484,879         | West.....   | 5,357                                    | 23,168          | Wyoming.....  | 3,336                                    | 12,650          |
| East North Central.....  | 275,405                                  | 1,389,705       | California.....   | 4,878                                    | 21,235          | Colorado.....   | 2,503                                    | 8,922           |
| Illinois.....  | 91,706                                   | 463,491         | DISTILLATE FUEL OIL, GRADE NO. 1 (2911311)                  |  |                 | Utah.....   | 5,607                                    | 20,666          |
| Michigan.....  | 23,706                                   | 126,667         | United States, total...                                     | 61,292                                   | 249,644         | California.....   | 25,896                                   | 88,637          |
| West North Central.....  | 100,975                                  | 473,573         | North Central.....  | 38,903                                   | 161,778         | RESIDUAL FUEL OIL, GRADE NO. 6 (2911431)                                |  |                 |
| Kansas.....  | 64,385                                   | 309,942         | Indiana.....  | 11,200                                   | 45,773          | United States, total...   | 188,078                                  | 392,636         |
| South.....   | 664,155                                  | 3,062,474       | Illinois.....   | 5,714                                    | 23,506          | Middle Atlantic.....  | 23,263                                   | 55,715          |
| Louisiana.....   | 124,414                                  | 555,941         | Kansas.....   | 9,590                                    | 40,369          | Pennsylvania.....   | 12,956                                   | 27,144          |
| Oklahoma.....  | 70,105                                   | 321,447         | South.....  | 10,722                                   | 39,922          | East North Central.....   | 24,168                                   | 67,509          |
| Texas.....   | 417,915                                  | 1,946,871       | Oklahoma.....   | 9,360                                    | 34,551          | Ohio.....   | 5,066                                    | 15,136          |
| Mountain.....  | 51,471                                   | 257,531         | Mountain.....   | 4,143                                    | 16,744          | Indiana.....  | 7,213                                    | 20,872          |
| Montana.....   | 12,329                                   | 58,857          | Montana.....  | 1,525                                    | 6,132           | Illinois.....   | 8,556                                    | 22,136          |
| Wyoming.....   | 16,411                                   | 85,455          | Utah.....   | 1,406                                    | 5,575           | South.....  | 67,996                                   | 132,984         |
| Utah.....  | 10,427                                   | 52,616          | Pacific.....  | 7,053                                    | 29,265          | West South Central.....   | 62,242                                   | 119,628         |
| Pacific.....   | 203,877                                  | 1,101,401       | California.....   | 4,966                                    | 20,031          | Louisiana.....  | 7,944                                    | 16,105          |
| California.....  | 174,404                                  | 938,023         | DISTILLATE FUEL OIL, GRADES NO. 2-4 (2911331)               |  |                 | Texas.....  | 50,742                                   | 97,519          |
| JET-PROPULSION FUEL, EXCLUDING KEROSENE (2911151)                              |  |                 | United States, total...                                     | 552,041                                  | 1,985,753       | Mountain.....   | 3,990                                    | 7,776           |
| United States, total....   | 91,159                                   | 350,965         | United States, total...                                     | 552,041                                  | 1,985,753       | Pacific.....  | 64,319                                   | 118,332         |
| Middle Atlantic.....   | 2,863                                    | 11,523          | Northeast.....  | 114,214                                  | 428,280         | California.....   | 60,204                                   | 109,906         |
| East North Central.....  | 11,732                                   | 46,508          | Pennsylvania.....   | 55,047                                   | 204,123         | OTHER RESIDUAL FUEL OILS (INCLUDING HEAVY GAS-ENRICHMENT OIL) (2911498) |  |                 |
| Michigan.....  | 913                                      | 3,845           | East North Central.....                                     | 84,477                                   | 325,592         | United States, total...   | 61,301                                   | 138,120         |
| West North Central.....  | 6,813                                    | 26,417          | Ohio.....   | 17,568                                   | 67,987          | Middle Atlantic.....  | 3,720                                    | 9,658           |
| Kansas.....  | 2,980                                    | 11,053          | Indiana.....  | 25,183                                   | 99,044          | North Central.....  | 14,701                                   | 42,391          |
| South.....   | 44,286                                   | 164,796         | Illinois.....   | 32,779                                   | 122,962         | South.....  | 16,792                                   | 37,196          |
| Oklahoma.....  | 8,081                                    | 30,427          | West North Central.....                                     | 25,611                                   | 93,585          | Texas.....  | 7,784                                    | 17,066          |
| Texas.....   | 21,808                                   | 81,681          | Kansas.....   | 14,841                                   | 55,296          | Mountain.....   | 4,360                                    | 7,963           |
| West.....  | 25,465                                   | 101,721         | South.....  | 288,652                                  | 995,232         | Colorado.....   | 1,046                                    | 2,097           |
| Utah.....  | 1,605                                    | 6,342           | Louisiana.....  | 49,910                                   | 162,125         | Pacific.....  | 21,728                                   | 40,912          |
| California.....  | 16,096                                   | 63,137          | Oklahoma.....   | 21,214                                   | 71,963          | ALIPHATICS: ETHYLENE (2911551)  |  |                 |
| OTHER FINISHED GASOLINES (INCLUDING BASE STOCKS AND BLENDING AGENTS) (2911198) |  |                 | Texas.....  | 192,740                                  | 668,799         | United States, total...   | 22,228                                   | 165,583         |
| United States, total....   | 55,719                                   | 242,472         | West.....   | 39,085                                   | 143,064         | West South Central.....   | 19,184                                   | 139,649         |
| Middle Atlantic.....   | 963                                      | 4,310           | Wyoming.....  | 3,145                                    | 11,386          | Louisiana.....  | 6,840                                    | 57,275          |
| East North Central.....  | 1,489                                    | 8,216           | Colorado.....   | 552                                      | 1,978           | Texas.....  | 12,344                                   | 82,374          |
| South.....   | 49,503                                   | 211,950         | California.....   | 24,429                                   | 89,498          | OTHER ALIPHATICS, INCLUDING FEED STOCK MIXTURES (2911555)               |  |                 |
| Texas.....   | 38,304                                   | 158,376         | DISTILLATE FUEL OIL, DIESEL-TYPE FUEL OIL (LIGHT) (2911351) |  |                 | United States, total...   | 45,062                                   | 309,919         |
| West.....  | 3,382                                    | 16,456          | United States, total...                                     | 165,450                                  | 589,216         | South.....  | 39,096                                   | 268,433         |
|  |  |                 | Middle Atlantic.....  | 6,058                                    | 23,969          | Texas.....  | 29,778                                   | 209,107         |

TABLE 6E. Selected Petroleum Products, by Geographic Areas: 1963—Continued

| Product class and geographic area                               | Shipments including interplant transfers |                 | Product class and geographic area   | Shipments including interplant transfers |                 | Product class and geographic area   | Shipments including interplant transfers |                 |
|---|--|-----------------|---|--|-----------------|---|--|-----------------|
|   | Quantity (1,000 bbls.)                   | Value (\$1,000) |   | Quantity (1,000 bbls.)                   | Value (\$1,000) |   | Quantity (1,000 bbls.)                   | Value (\$1,000) |
| AROMATICS (INCLUDING BENZENE, TOLUENE, XyTENES, ETC.) (2911588) |  |                 | UNFINISHED OILS, INCLUDING CRACKING STOCK, AND TOPPED AND ENRICHED PETROLEUM (2911812)              |  |                 | ASPHALT, 200 PENETRATION AND OVER (INCLUDING EMULSIFIED ASPHALT PRODUCED AT THE REFINERY) (2911911)—Continued | (1,000 bbls.)                            | (\$1,000)       |
| United States, total.....                                       | 33,502                                   | 254,144         | United States, total....  | 101,060                                  | 323,716         | South.....  | 11,834                                   | 41,395          |
| Northeast.....  | 1,746                                    | 14,516          | Northeast.....  | 8,566                                    | 30,923          | Texas.....  | 4,574                                    | 13,106          |
| North Central.....  | 4,202                                    | 21,729          | East North Central.....   | 3,428                                    | 12,380          | West.....   | 8,587                                    | 28,503          |
| Michigan.....   | 2,714                                    | 10,561          | South.....  | 43,869                                   | 157,835         | Montana.....  | 1,782                                    | 4,845           |
| South.....  | 24,410                                   | 197,979         | Texas.....  | 36,450                                   | 130,885         | California.....   | 4,539                                    | 14,777          |
| Texas.....  | 17,592                                   | 152,324         | West.....   | 43,757                                   | 118,591         | ASPHALT, LESS THAN 200 PENETRATION (2911951)  | (1,000 tons)                             | (\$1,000)       |
| West.....   | 3,144                                    | 19,920          | California.....   | 36,820                                   | 99,885          | United States, total....  | 13,727                                   | 248,387         |
| California.....   | 3,144                                    | 19,920          | LUBRICATING-OIL PETROLEUM BASE STOCKS (FOR BLENDING, COMPOUNDING, AND GREASE MANUFACTURE) (2911851) |  |                 | Northeast.....  | 2,472                                    | 46,969          |
| OTHER LIQUEFIED GASES (2911511 and 2911598)                     |  |                 | United States, total....  | 24,997                                   | 202,502         | North Central.....  | 3,721                                    | 69,916          |
| United States, total.....                                       | 127,849                                  | 227,374         | Northeast.....  | 4,971                                    | 40,994          | Ohio.....   | 716                                      | 16,598          |
| Middle Atlantic.....  | 7,948                                    | 20,125          | East North Central.....   | 1,697                                    | 15,688          | Illinois.....   | 997                                      | 16,154          |
| Pennsylvania.....   | 3,705                                    | 9,823           | South.....  | 15,232                                   | 123,631         | Kansas.....   | 838                                      | 14,589          |
| East North Central.....   | 13,036                                   | 27,029          | Texas.....  | 5,601                                    | 57,906          | South.....  | 5,067                                    | 89,219          |
| Ohio.....   | 4,374                                    | 11,076          | Pacific.....  | 2,614                                    | 18,969          | Texas.....  | 1,160                                    | 18,991          |
| Indiana.....  | 4,260                                    | 7,579           | California.....   | 2,614                                    | 18,969          | West.....   | 2,467                                    | 42,283          |
| Illinois.....   | 3,422                                    | 5,526           | ASPHALT, 200 PENETRATION AND OVER (INCLUDING EMULSIFIED ASPHALT PRODUCED AT THE REFINERY) (2911911) |  |                 | Montana.....  | 108                                      | 1,748           |
| West North Central.....   | 2,894                                    | 5,474           | United States, total....  | 33,324                                   | 112,122         | California.....   | 1,579                                    | 25,322          |
| Kansas.....   | 2,050                                    | 3,772           | Northeast.....  | 2,612                                    | 8,964           | NAPHTHA SOLVENTS (2911051)  | (1,000 bbls.)                            | (\$1,000)       |
| South.....  | 93,831                                   | 152,944         | North Central.....  | 10,291                                   | 33,260          | United States, total....  | 20,766                                   | 124,909         |
| Louisiana.....  | 6,847                                    | 10,224          | Ohio.....   | 2,695                                    | 9,770           | Middle Atlantic.....  | 911                                      | 5,884           |
| Oklahoma.....   | 4,359                                    | 6,347           | Illinois.....   | 3,482                                    | 9,398           | North Central.....  | 3,762                                    | 23,083          |
| Texas.....  | 78,564                                   | 127,113         | Kansas.....   | 1,005                                    | 3,268           | Illinois.....   | 1,436                                    | 9,715           |
| Pacific.....  | 8,383                                    | 18,513          |   |  |                 | South.....  | 12,842                                   | 72,291          |
| California.....   | 6,835                                    | 15,229          |   |  |                 | Louisiana.....  | 1,075                                    | 5,670           |
|   |  |                 |   |  |                 | Oklahoma.....   | 1,343                                    | 6,519           |
|   |  |                 |   |  |                 | Texas.....  | 9,584                                    | 56,058          |
|   |  |                 |   |  |                 | West.....   | 3,251                                    | 23,651          |
|   |  |                 |   |  |                 | California.....   | 3,083                                    | 22,908          |



TABLE 7A. Materials by Kind: 1963 and 1958

| Code  | Material  | Unit of measure | 1963      |                          | 1958      |                                     |
|---|---|-----------------|-----------|--------------------------|-----------|-------------------------------------|
|   |   |                 | Quantity  | Delivered cost (\$1,000) | Quantity  | Delivered cost (\$1,000)            |
| INDUSTRY 2911.—PETROLEUM REFINING           |   |                 |           |                          |           |                                     |
|   | Materials, containers, and supplies, total.....   |                 | (X)       | 12,383,982               | (X)       | 11,584,157                          |
| 131201                                      | Crude petroleum (including topped and enriched petroleum).....  | 1,000 bbls..... | 3,156,402 | 9,743,636                | 2,795,363 | 9,180,035                           |
| 131202                                      | Domestic.....   | do.....         | 2,742,868 | 8,487,285                | 2,440,538 | 8,068,597                           |
|   | Foreign.....  | do.....         | 413,534   | 1,256,351                | 354,825   | 1,111,438                           |
| 132121                                      | Cycle condensate.....   | do.....         | 17,686    | 57,506                   | 18,216    | 55,655                              |
| 132122                                      | Natural gasoline, mixed and crude, including drip gasoline.....   | do.....         | 104,463   | 297,823                  | 102,869   | 337,160                             |
| 132123                                      | Liquefied petroleum gases, including feedstocks <sup>1</sup> .....  | do.....         | 134,436   | 341,735                  | 33,021    | 92,466                              |
| 291152                                      | Benzol (benzene) (100% C <sub>6</sub> H <sub>6</sub> ).....   | do.....         | 2,655     | 24,740                   | 683       | 9,966                               |
|   | Additives, except animal and vegetable oil:   |                 |           |                          |           |                                     |
| 280011                                      | Antioxidants, antiknock compounds, and inhibitors.....  | do.....         | 2,531     | 283,988                  | } 2,168   | 155,057                             |
| 280012                                      | Other additives, including soaps and detergents.....  | do.....         | 1,904     | 99,102                   |           |                                     |
| 209001                                      | Animal and vegetable oils.....  | do.....         | 100       | 6,065                    |           |                                     |
| 281980                                      | Chemical catalytic preparations.....  |                 | (X)       | 71,416                   |           |                                     |
| 941121                                      | Crankcase drainings and other used oils consumed for refining or reclaiming.....  | 1,000 bbls..... | 3,158     | 8,766                    | 1,980     | 5,263                               |
| 281238                                      | Caustic soda (sodium hydroxide 100% NaOH).....  | Short tons..... | 243,569   | 14,290                   | 210,199   | 13,564                              |
| 281931                                      | Sulfuric acid (100% H <sub>2</sub> SO <sub>4</sub> ) excluding agent.....   | do.....         | 1,667,262 | 33,318                   | 421,605   | 30,014                              |
| 281946                                      | Hydrofluoric acid (100% HF).....  | do.....         | 4,943     | 1,638                    | 7,180     | 3,073                               |
|   | Containers:   |                 |           |                          |           |                                     |
| 340001                                      | Metal.....  |                 | (X)       | 80,913                   | (X)       | 100,913                             |
| 260091                                      | Paper and paperboard.....   |                 | (X)       | 12,310                   | (X)       | 16,255                              |
| 265522                                      | Cans, bodies with combinations of fiber and other materials (foil, plastic, etc.) with metal ends.....  |                 | (X)       | 23,795                   | (X)       | ( <sup>2</sup> )                    |
| 970089                                      | Cost of materials received from petroleum refineries and lube manufacturers (represents cost of materials for which quantities are shown in the "Receipts" column of table 6A)..... |                 | (X)       | 806,944                  | (X)       | ( <sup>3</sup> )                    |
| 970099                                      | All other materials, components, parts, containers, and supplies consumed.....  |                 | (X)       | 462,479                  | (X)       | <sup>2</sup> <sup>3</sup> 1,536,078 |
| 973000                                      | Materials, containers, and supplies, n.s.k. <sup>4</sup> .....  |                 | (X)       | 5,942                    | (X)       | 48,658                              |
| INDUSTRY 2951.—PAVING MIXTURES AND BLOCKS   |   |                 |           |                          |           |                                     |
|   | Materials, containers, and supplies, total.....   |                 | (X)       | 223,461                  | (X)       | 130,890                             |
|   | Asphalt:  |                 |           |                          |           |                                     |
| 291191                                      | Less than 200 penetration.....  | Short tons..... | 4,007,018 | 85,979                   | 2,077,005 | 44,899                              |
| 291195                                      | 200 and over penetration.....   | 1,000 bbls..... | 3,332     | 9,584                    | 1,568     | 4,097                               |
| 970099                                      | All other materials and components, parts, containers, and supplies consumed.....   |                 | (X)       | 89,886                   | (X)       | 52,493                              |
| 973000                                      | Materials, containers, and supplies, n.s.k. <sup>4</sup> .....  |                 | (X)       | 38,012                   | (X)       | 29,401                              |
| INDUSTRY 2952.—ASPHALT FELTS AND COATINGS   |   |                 |           |                          |           |                                     |
|   | Materials, containers, and supplies, total.....   |                 | (X)       | 285,050                  | (X)       | 261,592                             |
|   | Asphalt:  |                 |           |                          |           |                                     |
| 291191                                      | Less than 200 penetration.....  | Short tons..... | 3,280,779 | 67,819                   | 2,580,721 | 52,784                              |
| 291195                                      | 200 and over penetration.....   | 1,000 bbls..... | 8,555     | 25,867                   | 7,601     | 26,003                              |
| 266101                                      | Roofing felts (unsaturated), other construction paper and insulating board.....   | Short tons..... | 1,283,173 | 77,360                   | } (X)     | 150,850                             |
| 329501                                      | Roofing granules.....   | do.....         | 1,686,379 | 43,785                   |           |                                     |
| 970099                                      | All other materials and components, parts, containers, and supplies consumed.....   |                 | (X)       | 62,642                   | (X)       |                                     |
| 973000                                      | Materials, containers, and supplies, n.s.k. <sup>4</sup> .....  |                 | (X)       | 7,577                    | (X)       | 31,955                              |
| INDUSTRY 2992.—LUBRICATING OILS AND GREASES |   |                 |           |                          |           |                                     |
|   | Materials, containers, and supplies, total.....   |                 | (X)       | 250,535                  | (X)       | 159,271                             |
|   | Additives (except animal and vegetable oil):  |                 |           |                          |           |                                     |
| 280011                                      | Antioxidants, antiknock compounds, and inhibitors.....  | 1,000 bbls..... | 60        | 2,562                    | } 666     | 20,032                              |
| 280012                                      | Other additives, including soap and detergents.....   | do.....         | 269       | 19,376                   |           |                                     |
| 209001                                      | Animal and vegetable oils.....  | do.....         | 225       | 5,772                    |           |                                     |
| 941121                                      | Crank case drainings and other used oils consumed for refining or reclaiming.....   | do.....         | 242       | 367                      | 163       | 354                                 |
| 281238                                      | Caustic soda (sodium hydroxide, 100% NaOH).....   | Short tons..... | 4,581     | 239                      | 3,535     | 285                                 |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure | 1963     |                             | 1958     |                             |
|---|---|-----------------|----------|-----------------------------|----------|-----------------------------|
|   |   |                 | Quantity | Delivered cost<br>(\$1,000) | Quantity | Delivered cost<br>(\$1,000) |
| INDUSTRY 2992.—LUBRICATING OILS AND GREASES—Continued |   |                 |          |                             |          |                             |
| 340001  | Containers:<br>Metal.....   | .....           | (X)      | 29,940                      | (X)      | 18,638                      |
| 260091  | Paper and paperboard.....   | .....           | (X)      | 2,376                       | (X)      | 1,449                       |
| 265522  | Cans, bodies with combinations of fiber and other materials<br>(foil, plastic, etc.) with metal ends.....   | .....           | (X)      | 9,265                       | }        | (X) 101,220                 |
| 970089  | Cost of materials received from petroleum refineries and lube<br>manufacturers (represents cost of materials for which quantities<br>are shown in the "Receipts" column of table 6A)..... | .....           | (X)      | 110,118                     |          |                             |
| 970099  | All other materials, containers, components, parts and supplies<br>consumed.....  | .....           | (X)      | 47,497                      |          |                             |
| 973000  | Materials, containers and supplies, n.s.k. <sup>4</sup> .....   | .....           | (X)      | 23,023                      |          | 17,293                      |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

<sup>1</sup>Represents liquefied petroleum gases from natural gasoline plants only.

<sup>2</sup>Separate data not collected to code 265522 in 1958. Included in figure for code 970099 for industry 2911.

<sup>3</sup>Data for code 970089, included in figure for code 970099 for 1958 for industry 2911.

<sup>4</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Petroleum refining (SIC 2911) | Paving mixtures and blocks (SIC 2951) | Asphalt felts and coatings (SIC 2952) | Lubricating oils and greases (SIC 2992) | Petroleum and coal products, n.e.c. (SIC 2999) |
|---|-------------------------------|---------------------------------------|---------------------------------------|---|--|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 336,916                       | 14,543                                | 9,897                                 | 1,666                                   | 2,123  |
| Total cost of purchased fuels.....do....  | 242,997                       | 10,618                                | 6,930                                 | 965                                     | 1,464  |
| Bituminous coal, lignite, and anthracite:   |                               |                                       |                                       |   |  |
| Quantity.....1,000 short tons..   | 789                           | (S)                                   | 93                                    | (S)                                     | 17   |
| Cost.....\$1,000..  | 4,101                         | (S)                                   | 656                                   | (S)                                     | 166  |
| Coke and breeze:  |                               |                                       |                                       |   |  |
| Quantity.....1,000 short tons..   | -                             | (S)                                   | 4                                     | -                                       | (S)  |
| Cost.....\$1,000..  | -                             | (S)                                   | 72                                    | -                                       | (S)  |
| Fuel oil (distillate and residual):   |                               |                                       |                                       |   |  |
| Quantity.....1,000 barrels of 42 gallons..  | 7,334                         | 1,391                                 | 878                                   | 138                                     | (S)  |
| Cost.....\$1,000..  | 16,806                        | 5,558                                 | 2,493                                 | 428                                     | (S)  |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |                               |                                       |                                       |   |  |
| Quantity.....million cu.ft..  | 942,488                       | 6,502                                 | 8,432                                 | 557                                     | 2,556  |
| Cost.....\$1,000..  | 210,880                       | 3,320                                 | 3,120                                 | 248                                     | 851  |
| Other fuels.....do....  | 11,210                        | 1,686                                 | 589                                   | 89                                      | 116  |
| Electric energy:  |                               |                                       |                                       |   |  |
| Purchased:  |                               |                                       |                                       |   |  |
| Quantity.....million kw.-hrs..  | 12,147                        | 192                                   | 235                                   | 40                                      | 38   |
| Cost.....\$1,000..  | 93,919                        | 3,925                                 | 2,967                                 | 701                                     | 659  |
| Generated less sold.....million kw.-hrs..   | 4,313                         | (S)                                   | 12                                    | -                                       | -  |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 9,385                         | 257                                   | 194                                   | 47                                      | 33   |
| Prime movers, total.....do....  | 5,999                         | 48                                    | 42                                    | 9                                       | 4  |
| Driving generators.....do....   | 1,021                         | 13                                    | 20                                    | 6                                       | 1  |
| Not driving generators.....do....   | 4,978                         | 35                                    | 22                                    | 3                                       | 3  |
| Electric motors, total.....do....   | 4,569                         | 211                                   | 160                                   | 38                                      | 29   |
| Driven by purchased energy.....do....   | 3,386                         | 209                                   | 152                                   | 38                                      | 29   |
| Driven by energy generated at establishment.....do....  | 1,183                         | 2                                     | 7                                     | -                                       | -  |
| Aggregate horsepower per 100 production workers.....  | 10,688                        | 4,159                                 | 2,039                                 | 1,175                                   | 1,326  |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: the standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

TABLE 7C. Selected Materials Consumed by Industries 2911, Petroleum Refining, and 2992, Lubricating Oils and Greases, by Geographic Areas: 1963 and 1958

| Geographic area   | 1963                        |                             | 1958                        |                             | Geographic area   | 1963                        |                             | 1958                        |                             |
|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|---|-----------------------------|-----------------------------|-----------------------------|-----------------------------|
|   | Quantity<br>(1,000 barrels) | Delivered cost<br>(\$1,000) | Quantity<br>(1,000 barrels) | Delivered cost<br>(\$1,000) |   | Quantity<br>(1,000 barrels) | Delivered cost<br>(\$1,000) | Quantity<br>(1,000 barrels) | Delivered cost<br>(\$1,000) |
| CRUDE PETROLEUM (FOREIGN AND DOMESTIC)<br>(CODES 131201 AND 131202) |                             |                             |                             |                             | DOMESTIC CRUDE PETROLEUM (CODE 131201)--Con.                                |                             |                             |                             |                             |
| United States, total.....   | 3,156,402                   | 9,743,636                   | 2,795,363                   | 9,180,035                   | West.....   | 445,947                     | 1,207,730                   | 434,005                     | 1,324,599                   |
| Northeast.....  | 395,449                     | 1,299,475                   | 380,376                     | 1,327,256                   | Montana.....  | (D)                         | (D)                         | 23,333                      | 65,193                      |
| New Jersey.....   | (D)                         | (D)                         | 129,271                     | 452,672                     | Wyoming.....  | 39,608                      | 105,336                     | 30,727                      | 92,147                      |
| Pennsylvania.....   | 205,024                     | 666,745                     | 208,761                     | 720,799                     | Colorado.....   | (D)                         | (D)                         | 10,890                      | 36,103                      |
| East North Central.....   | 569,902                     | 1,817,101                   | 503,862                     | 1,707,806                   | New Mexico.....   | (D)                         | (D)                         | 9,475                       | 28,039                      |
| Ohio.....   | 145,122                     | 497,542                     | 129,170                     | 452,246                     | Utah.....   | 29,881                      | 91,059                      | (D)                         | (D)                         |
| Indiana.....  | 151,543                     | 471,517                     | 146,871                     | 488,415                     | California.....   | 322,897                     | 860,993                     | 320,131                     | 973,131                     |
| Illinois.....   | 216,234                     | 680,002                     | 179,718                     | 598,647                     | NATURAL GASOLINE, MIXED AND CRUDE, INCLUDING<br>DRIP GASOLINE (CODE 132122) |                             |                             |                             |                             |
| West North Central.....   | 178,200                     | 531,376                     | 166,012                     | 529,119                     | United States, total.....   | 104,463                     | 297,823                     | 102,869                     | 337,160                     |
| Minnesota.....  | (D)                         | (D)                         | 20,392                      | 57,740                      | East North Central..  | 8,855                       | 29,009                      | 7,793                       | 24,983                      |
| Kansas.....   | 112,075                     | 345,847                     | 105,169                     | 339,696                     | Indiana.....  | (D)                         | (D)                         | 3,617                       | 11,210                      |
| South Atlantic.....   | 68,806                      | 204,886                     | 58,888                      | 173,523                     | West North Central..  | 4,310                       | 12,552                      | 2,548                       | 8,607                       |
| Maryland.....   | 7,502                       | 19,982                      | 5,398                       | 13,137                      | Kansas.....   | 3,630                       | 10,424                      | (D)                         | (D)                         |
| East South Central.....   | 63,511                      | 192,307                     | 46,553                      | 144,741                     | East South Central..  | (D)                         | (D)                         | 463                         | 1,310                       |
| Alabama.....  | 5,448                       | 13,646                      | 3,464                       | 8,894                       | West South Central..  | 67,060                      | 176,132                     | 69,477                      | 220,357                     |
| West South Central.....   | 1,307,922                   | 4,114,448                   | 1,138,164                   | 3,753,251                   | Oklahoma.....   | 6,790                       | 20,441                      | 7,134                       | 21,956                      |
| Arkansas.....   | 28,739                      | 78,175                      | 24,461                      | 72,635                      | Texas.....  | 56,250                      | 143,072                     | 53,906                      | 169,144                     |
| Louisiana.....  | 280,173                     | 888,721                     | 245,981                     | 826,222                     | West.....   | 21,199                      | 70,187                      | 20,597                      | 74,329                      |
| Oklahoma.....   | 134,685                     | 413,098                     | 127,433                     | 406,010                     | Mountain.....   | 3,683                       | 11,167                      | (D)                         | (D)                         |
| Texas.....  | 864,325                     | 2,734,454                   | 740,289                     | 2,448,384                   | Montana.....  | 450                         | 1,490                       | (D)                         | (D)                         |
| West.....   | 572,612                     | 1,584,043                   | 501,508                     | 1,544,339                   | Wyoming.....  | 717                         | 2,170                       | 1,234                       | 3,298                       |
| Mountain.....   | 121,512                     | 341,833                     | (D)                         | (D)                         | New Mexico.....   | 882                         | 2,716                       | 731                         | 2,643                       |
| Montana.....  | 28,380                      | 74,709                      | 23,333                      | 65,193                      | Utah.....   | (D)                         | (D)                         | 392                         | 1,122                       |
| Wyoming.....  | 41,693                      | 111,043                     | 30,727                      | 92,147                      | Pacific.....  | 17,516                      | 59,020                      | (D)                         | (D)                         |
| Colorado.....   | 12,242                      | 38,718                      | 10,890                      | 36,103                      | California.....   | 17,516                      | 59,020                      | 17,846                      | 65,734                      |
| New Mexico.....   | 9,316                       | 26,304                      | 9,475                       | 28,039                      | LIQUEFIED PETROLEUM GASES, INCLUDING<br>FEED STOCKS <sup>1</sup> (132123)   |                             |                             |                             |                             |
| Utah.....   | 29,881                      | 91,059                      | (D)                         | (D)                         | United States, total.....   | 134,436                     | 341,735                     | 33,021                      | 92,466                      |
| Pacific.....  | 451,100                     | 1,242,210                   | (D)                         | (D)                         | Northeast.....  | 2,411                       | 7,674                       | 360                         | 1,175                       |
| California.....   | 383,754                     | 1,038,780                   | 368,264                     | 1,129,398                   | East North Central..  | 14,552                      | 41,977                      | 4,951                       | 14,145                      |
| DOMESTIC CRUDE PETROLEUM (CODE 131201)                              |                             |                             |                             |                             | Illinois.....   | 4,142                       | 12,342                      | 2,697                       | 8,784                       |
| United States, total.....   | 2,742,868                   | 8,487,285                   | 2,440,538                   | 8,068,597                   | West North Central..  | 5,681                       | 15,702                      | 955                         | 2,687                       |
| Northeast.....  | 198,699                     | 684,288                     | 179,694                     | 677,015                     | South.....  | 103,838                     | 250,915                     | 24,312                      | 67,121                      |
| Pennsylvania.....   | 122,465                     | 422,013                     | 100,280                     | 373,314                     | Louisiana.....  | 12,099                      | 31,272                      | 8,128                       | 22,079                      |
| East North Central.....   | 552,155                     | 1,762,840                   | 499,073                     | 1,693,182                   | Oklahoma.....   | 5,692                       | 13,229                      | 2,940                       | 7,464                       |
| Ohio.....   | 138,247                     | 476,178                     | (D)                         | (D)                         | Texas.....  | 83,086                      | 197,913                     | 12,813                      | 35,981                      |
| Indiana.....  | (D)                         | (D)                         | 146,871                     | 488,415                     | West.....   | 7,954                       | 25,467                      | 2,443                       | 7,338                       |
| Illinois.....   | (D)                         | (D)                         | 179,718                     | 598,647                     | Mountain.....   | 2,195                       | 6,166                       | (D)                         | (D)                         |
| West North Central.....   | 161,081                     | 484,430                     | 134,829                     | 434,662                     | Wyoming.....  | 604                         | 1,463                       | (D)                         | (D)                         |
| South.....  | 1,384,986                   | 4,347,997                   | 1,192,937                   | 3,939,139                   | Utah.....   | 1,326                       | 3,224                       | (D)                         | (D)                         |
| Arkansas.....   | 28,739                      | 78,175                      | 24,461                      | 72,635                      | Pacific.....  | 5,759                       | 19,301                      | (D)                         | (D)                         |
| Louisiana.....  | 280,173                     | 888,721                     | (D)                         | (D)                         | California.....   | 4,684                       | 15,802                      | 2,001                       | 6,049                       |
| Oklahoma.....   | 134,685                     | 413,098                     | 127,433                     | 406,010                     |   |                             |                             |                             |                             |
| Texas.....  | (D)                         | (D)                         | 725,346                     | 2,409,797                   |   |                             |                             |                             |                             |

See footnotes at end of table.



TABLE 7C. Selected Materials Consumed by Industries 2911, Petroleum Refining, and 2992, Lubricating Oils and Greases, by Geographic Areas: 1963 and 1958—Continued

| Geographic area           | ADDITIVES (EXCEPT ANIMAL AND VEGETABLE OIL)<br>ANTIOXIDANTS, ANTIKNOCK COMPOUNDS, AND INHIBITORS<br>(CODE 280011) 1963 |                             | Geographic area           | ADDITIVES (EXCEPT ANIMAL AND VEGETABLE OIL)<br>OTHER ADDITIVES, INCLUDING SOAPS AND DETERGENTS<br>(CODE 280012) 1963 |                             |
|---------------------------|--|-----------------------------|---------------------------|--|-----------------------------|
|                           | Quantity<br>(1,000 barrels)  | Delivered cost<br>(\$1,000) |                           | Quantity<br>(1,000 barrels)  | Delivered cost<br>(\$1,000) |
| United States, total..... | 2,591  | 286,550                     | United States, total..... | 2,173  | 118,478                     |
| Northeast.....            | 491  | 41,326                      | Northeast.....            | 624  | 37,862                      |
| New Jersey.....           | 281  | 21,622                      | Pennsylvania.....         | 280  | 17,070                      |
| Pennsylvania.....         | 86   | 16,720                      | East North Central.....   | 377  | 24,399                      |
| East North Central.....   | 453  | 46,106                      | Ohio.....                 | 101  | 5,335                       |
| Ohio.....                 | 81   | 13,297                      | Illinois.....             | 164  | 8,036                       |
| Indiana.....              | 135  | 9,717                       | West North Central.....   | 262  | 11,093                      |
| Illinois.....             | 172  | 16,904                      | Kansas.....               | 79   | 7,738                       |
| West North Central.....   | 107  | 11,025                      | South.....                | 1,214  | 138,034                     |
| Kansas.....               | 79   | 7,738                       | Louisiana.....            | 227  | 29,653                      |
| South.....                | 1,214  | 138,034                     | Oklahoma.....             | 218  | 13,026                      |
| Louisiana.....            | 227  | 29,653                      | Texas.....                | 689  | 83,353                      |
| Oklahoma.....             | 218  | 13,026                      | Mountain.....             | 52   | 7,323                       |
| Texas.....                | 689  | 83,353                      | Wyoming.....              | 16   | 2,334                       |
| Mountain.....             | 52   | 7,323                       | Colorado.....             | 8  | 1,464                       |
| Wyoming.....              | 16   | 2,334                       | New Mexico.....           | 12   | 1,241                       |
| Colorado.....             | 8  | 1,464                       | Pacific.....              | 274  | 42,736                      |
| New Mexico.....           | 12   | 1,241                       | California.....           | 225  | 36,372                      |
| Pacific.....              | 274  | 42,736                      | South.....                | 739  | 32,820                      |
| California.....           | 225  | 36,372                      | Arkansas.....             | 21   | 1,436                       |
|                           |  |                             | Louisiana.....            | 85   | 4,485                       |
|                           |  |                             | Texas.....                | 523  | 21,618                      |
|                           |  |                             | Mountain.....             | 29   | 2,169                       |
|                           |  |                             | Pacific.....              | 142  | 10,135                      |
|                           |  |                             | California.....           | 127  | 9,117                       |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>Represents liquefied petroleum gases from natural gasoline plants only.

TABLE 7D. Fuels Produced and Consumed by Industry 2911, Petroleum Refining: 1963 and 1958

| Industry and year                                   | Petroleum refining        |  |
|---|---------------------------|--|
|   | Quantity<br>(1,000 bbls.) | Sales value<br>f.o.b. plant<br>(\$1,000) |
| Residual fuels.....1963..                           | 42,278                    | 75,438                                   |
| 1958..  | 43,147                    | 95,836                                   |
| Still gas.....1963..                                | 754,154                   | 199,430                                  |
| 1958..  | 671,699                   | 205,780                                  |
| Other (acid, sludge, etc.) <sup>1</sup> .....1963.. | 30,640                    | 39,666                                   |
| 1958..  | 17,415                    | 25,021                                   |

<sup>1</sup>Although it was intended that respondents include petroleum coke in these figures, a comparison of these data with those collected and published for 1962 (table 8 of 1963 Census of Manufactures Report MC63(1)-7, Fuels and Electric Energy Consumed in Manufacturing Industries: 1962) shows that some companies did not report their production and consumption of petroleum coke for 1963 and 1958.

**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 2911-                          | PETROLEUM REFINING  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 427                     | 119,297        | 922,319           | 85,929             | 166,409           | 614,318         | 3,137,603                                      | 13,367,328                  | 16,496,896                   | 385,126                             |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 403                     | 112,911        | 871,972           | 81,500             | 157,353           | 581,806         | 2,947,468                                      | 12,749,196                  | 15,686,613                   | 368,111                             |
|                                | 75-89% specialization.....  | 8                       | 4,445          | 35,694            | 3,112              | 6,192             | 23,236          | 129,922  | 527,716                     | 660,926                      | 6,895                               |
| 29111                          | Gasoline and jet fuel (primary product class of estab.).....  | 210                     | 104,828        | 818,299           | 75,952             | 146,215           | 548,053         | 2,773,647                                      | 12,374,339                  | 15,142,412                   | 325,291                             |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 9                       | 383            | 2,629             | 307                | 618               | 1,858           | 5,646  | 19,897                      | 25,671                       | 1,164                               |
|                                | 75-89% specialization.....  | 31                      | 7,270          | 54,606            | 5,231              | 10,431            | 38,077          | 187,006  | 904,061                     | 1,108,859                    | 20,308                              |
| 29113                          | Distillate fuel oil (primary product class of estab.).....  | 9                       | 412            | 3,092             | 326                | 685               | 2,307           | 2,291  | 54,228                      | 58,822                       | (D)                                 |
| 29114                          | Residual fuel oil (primary product class of estab.).....  | 5                       | 175            | 1,416             | 114                | 231               | 794             | 3,688  | 25,957                      | 29,153                       | 68                                  |
| 29115                          | Liquefied petroleum gases (made in refineries) (primary product class of estab.).....                 | 23                      | 5,611          | 44,143            | 3,511              | 7,128             | 25,416          | 212,359  | 279,095                     | 487,590                      | 35,708                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 11                      | 3,093          | 24,094            | 1,987              | 3,854             | 13,985          | 103,587  | 113,587                     | 215,934                      | 11,976                              |
|                                | 75-89% specialization.....  | 3                       | 423            | 2,933             | 256                | 533               | 1,756           | 11,735   | 11,845                      | 23,218                       | (D)                                 |
| 29116                          | Lubricating oils made in refineries (primary product class of estab.).....                            | 86                      | 3,026          | 19,607            | 2,112              | 4,414             | 12,875          | 62,557   | 206,187                     | 269,916                      | 5,018                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 69                      | 568            | 3,422             | 372                | 845               | 2,071           | 13,950   | 12,084                      | 25,831                       | 1,498                               |
|                                | 75-89% specialization.....  | 3                       | 140            | 749               | 116                | 298               | 544             | 1,476  | 1,734                       | 3,193                        | 382                                 |
| 29118                          | Unfinished oils and lubricating oil base stock (primary product class of estab.).....                 | 9                       | 1,318          | 9,710             | 961                | 1,880             | 6,636           | 13,647   | 119,425                     | 131,159                      | (D)                                 |
| 29119                          | Asphalt (primary product class of estab.).....  | 31                      | 2,069          | 14,001            | 1,510              | 2,786             | 9,416           | 41,702   | 250,060                     | 292,017                      | 2,608                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 75-89% specialization.....  | 9                       | 624            | 4,676             | 477                | 920               | 3,342           | 17,126   | 49,704                      | 67,050                       | 463                                 |
| 2952-                          | ASPHALT FELTS AND COATINGS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 230                     | 14,581         | 82,477            | 10,894             | 23,046            | 57,328          | 189,981  | 339,006                     | 527,632                      | 6,954                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 183                     | 10,229         | 56,203            | 8,054              | 17,043            | 40,692          | 126,498  | 252,928                     | 378,575                      | 5,004                               |
|                                | 75-89% specialization.....  | 14                      | 1,179          | 7,758             | 863                | 1,931             | 5,298           | 15,154   | 29,843                      | 44,973                       | 661                                 |
| 29521                          | Asphalt and tar saturated felts and boards for nonbuilding use (primary product class of estab.)..... | 13                      | 371            | 2,273             | 267                | 574               | 1,480           | 4,754  | 6,882                       | 11,669                       | 192                                 |
| 29522                          | Asphalt and tar coatings, cements, and pitches (primary product class of estab.).....                 | 78                      | 2,299          | 12,450            | 1,123              | 2,304             | 5,351           | 33,233   | 48,870                      | 81,955                       | 1,305                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 43                      | 712            | 3,935             | 486                | 1,026             | 2,328           | 11,561   | 24,133                      | 35,663                       | 607                                 |
|                                | 75-89% specialization.....  | 5                       | 128            | 771               | 88                 | 168               | 428             | 1,763  | 2,816                       | 4,584                        | 17                                  |
| 29523                          | Asphalt and tar roofing and siding products (primary product class of estab.).....                    | 113                     | 11,770         | 67,042            | 9,402              | 19,963            | 50,058          | 150,666  | 280,348                     | 429,767                      | 5,399                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 89                      | 7,191          | 39,108            | 5,676              | 12,160            | 28,454          | 90,736   | 178,980                     | 268,034                      | 3,453                               |
|                                | 75-89% specialization.....  | 12                      | 1,904          | 11,194            | 1,515              | 3,051             | 8,539           | 21,054   | 48,279                      | 69,993                       | 628                                 |
| 2992-                          | LUBRICATING OILS AND GREASES  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 353                     | 8,433          | 57,946            | 4,701              | 9,778             | 27,007          | 199,074  | 273,833                     | 471,229                      | 4,703                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 311                     | 5,442          | 37,760            | 3,025              | 6,556             | 17,637          | 138,576  | 188,220                     | 326,376                      | 3,421                               |
|                                | 75-89% specialization.....  | 21                      | 1,116          | 7,226             | 621                | 1,149             | 3,509           | 34,895   | 51,358                      | 84,978                       | 853                                 |
| 29926                          | Lubricating oils (made from purchased materials) (primary product class of estab.).....               | 281                     | 6,536          | 45,011            | 3,710              | 7,766             | 21,304          | 169,319  | 236,832                     | 404,356                      | 3,964                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 209                     | 2,812          | 19,670            | 1,497              | 3,394             | 8,625           | 77,752   | 104,787                     | 182,010                      | 1,618                               |
|                                | 75-89% specialization.....  | 42                      | 1,535          | 10,476            | 954                | 1,825             | 5,672           | 54,329   | 78,619                      | 132,389                      | 1,320                               |
| 29927                          | Lubricating greases (made from purchased materials) (primary product class of estab.).....            | 35                      | 1,584          | 11,030            | 838                | 1,645             | 4,817           | 27,162   | 33,928                      | 60,619                       | 619                                 |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 20                      | 672            | 4,347             | 378                | 770               | 2,056           | 10,193   | 14,395                      | 24,606                       | 342                                 |
|                                | 75-89% specialization.....  | 7                       | 299            | 2,097             | 136                | 263               | 781             | 5,222  | 4,778                       | 9,572                        | 117                                 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.



## Rubber and Plastics Products, N.E.C.

### 30A Rubber and miscellaneous plastics products

This major group includes establishments manufacturing from natural, synthetic, or reclaimed rubber, gutta percha, balata, or gutta siak rubber products such as tires, rubber footwear, mechanical rubber goods, heels and soles, flooring, and rubber sundries. Automobile tire repair shops engaged in recapping and retreading automobile tires are classified in services. Major Group 30 also includes establishments engaged in molding plastics products for the trade and fabricating miscellaneous finished plastics products. The manufacture of elastic webbing is classified in Major Group 22; products made of elastic webbing and garments made from rubberized fabrics in Major Group 23; synthetic rubber in Industry 2822; and plastics materials in the forms of sheets, rods, tubes, granules, powders, and liquids in Industry 2821.

# RUBBER AND PLASTICS PRODUCTS, N.E.C.: MAJOR GROUP 30

Value Added by Manufacture by State: 1963

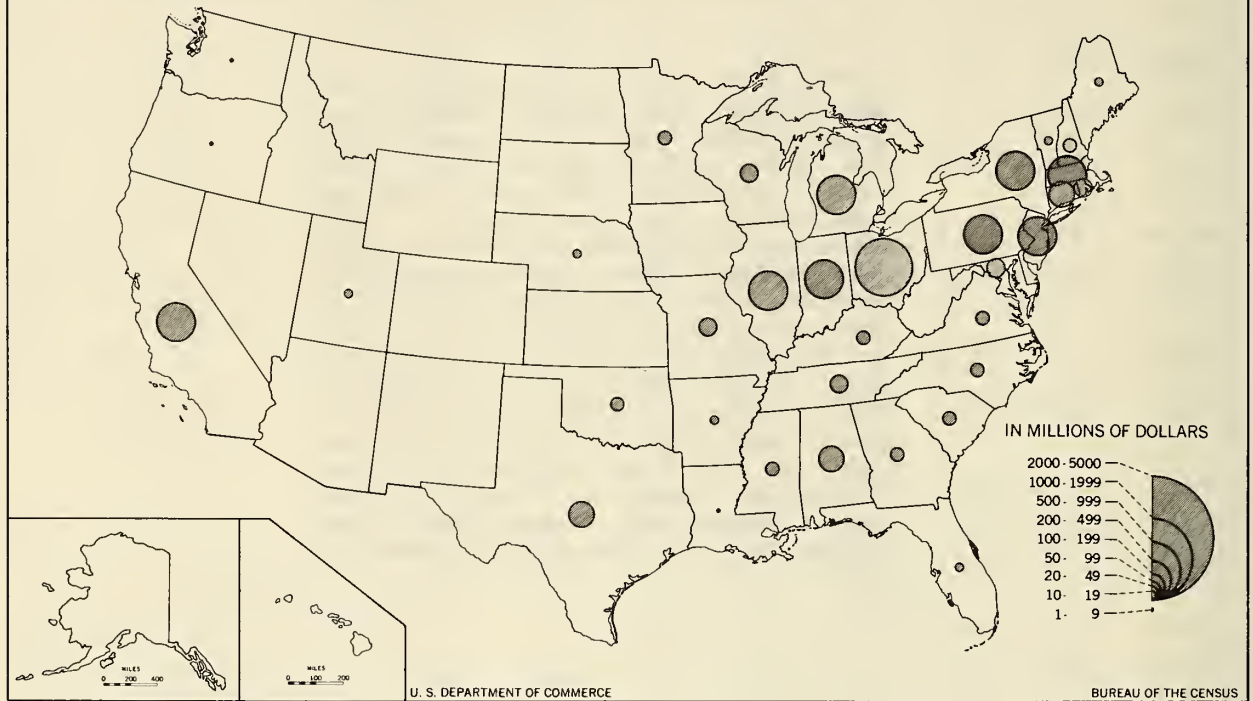




TABLE 1. General Statistics: 1963 and Earlier Years

| Year and item                                   | Establishments    |                                       | All employees <sup>1</sup> |                      | Production workers |                      |                    | Value added by manufacture, adjusted <sup>2</sup> | Cost of materials <sup>3</sup> | Value of shipments <sup>3</sup> | Capital expenditures, new <sup>4</sup> |
|---|-------------------|---------------------------------------|----------------------------|----------------------|--------------------|----------------------|--------------------|---|--------------------------------|---------------------------------|--|
|   | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number)          | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                |                                 |  |
| <b>ALL MANUFACTURING ESTABLISHMENTS, TOTAL:</b> |                   |                                       |                            |                      |                    |                      |                    |   |                                |                                 |  |
| 1963 . . . . .                                  | 5 800             | 2 488                                 | 426 716                    | 2 470 772            | 328 785            | 658 464              | 1 672 376          | 4 653 953   | 4 480 104                      | 9 116 230                       | 343 466                                |
| 1958 . . . . .                                  | 4 502             | 1 846                                 | 356 109                    | 1 785 542            | 270 500            | 530 976              | 1 211 372          | 3 276 612   | (NA)                           | 6 599 638                       | 197 138                                |
| 1954 . . . . .                                  | (NA)              | (NA)                                  | 252 456                    | 1 102 979            | 196 238            | 377 414              | 775 499            | 1 954 401   | (NA)                           | (NA)                            | 128 431                                |
| <b>ADMINISTRATIVE AND AUXILIARY UNITS:</b>      |                   |                                       |                            |                      |                    |                      |                    |   |                                |                                 |  |
| 1963 . . . . .                                  | 72                | 39                                    | 11 757                     | 106 739              | (x)                | (x)                  | (x)                | (x)   | (x)                            | (x)                             | (x)                                    |
| 1958 . . . . .                                  | 40                | 19                                    | 8 267                      | 62 247               | (x)                | (x)                  | (x)                | (x)   | (x)                            | (x)                             | (x)                                    |
| 1954 . . . . .                                  | (NA)              | (NA)                                  | 5 930                      | 43 642               | (x)                | (x)                  | (x)                | (x)   | (x)                            | (x)                             | (x)                                    |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                   |                                       |                            |                      |                    |                      |                    |   |                                |                                 |  |
| 1963 . . . . .                                  | 5 728             | 2 449                                 | 414 959                    | 2 364 033            | 328 785            | 658 464              | 1 672 376          | 4 653 953   | 4 480 104                      | 9 116 230                       | 343 466                                |
| 1958 . . . . .                                  | 4 462             | 1 827                                 | 347 842                    | 1 723 295            | 270 500            | 530 976              | 1 211 372          | 3 276 612   | (NA)                           | 6 599 638                       | 197 138                                |
| 1954 . . . . .                                  | 1 406             | 653                                   | 246 526                    | 1 059 337            | 196 238            | 377 414              | 775 499            | 1 954 401   | (NA)                           | (NA)                            | 128 431                                |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                   |                                       |                            |                      |                    |                      |                    |   |                                |                                 |  |
| 1962 . . . . .                                  | (NA)              | (NA)                                  | 398 124                    | 2 249 534            | 313 761            | 636 719              | 1 584 496          | 4 316 098   | 4 255 769                      | 8 519 359                       | 353 966                                |
| 1961 . . . . .                                  | (NA)              | (NA)                                  | 370 648                    | 2 018 852            | 288 028            | 576 972              | 1 401 588          | 3 915 589   | 3 827 679                      | 7 742 436                       | 282 686                                |
| 1960 . . . . .                                  | (NA)              | (NA)                                  | 378 095                    | 1 998 110            | 295 897            | 589 696              | 1 399 913          | 3 772 630   | (NA)                           | (NA)                            | 298 717                                |
| 1959 . . . . .                                  | (NA)              | (NA)                                  | 379 157                    | 1 968 346            | 300 137            | 600 082              | 1 406 059          | 3 792 891   | (NA)                           | (NA)                            | 214 382                                |
| 1957 . . . . .                                  | (NA)              | (NA)                                  | 259 894                    | 1 309 851            | 205 342            | 402 846              | 953 723            | 2 462 080   | (NA)                           | (NA)                            | 148 678                                |
| 1956 . . . . .                                  | (NA)              | (NA)                                  | 264 969                    | 1 260 324            | 211 273            | 414 694              | 931 053            | 2 417 713   | (NA)                           | (NA)                            | 152 257                                |
| 1955 . . . . .                                  | (NA)              | (NA)                                  | 264 869                    | 1 257 265            | 213 404            | 437 308              | 946 571            | 2 377 068   | (NA)                           | (NA)                            | 126 716                                |
| 1953 . . . . .                                  | (NA)              | (NA)                                  | 269 780                    | 1 140 019            | 218 853            | 432 359              | 866 215            | 2 021 443   | (NA)                           | (NA)                            | 127 052                                |
| 1952 . . . . .                                  | 730               | (NA)                                  | 255 079                    | 1 042 166            | 205 866            | 408 513              | 785 548            | 1 744 141   | (NA)                           | (NA)                            | 126 918                                |
| 1951 . . . . .                                  | 743               | (NA)                                  | 252 792                    | 962 586              | 206 600            | 414 746              | 734 920            | 1 729 343   | (NA)                           | (NA)                            | 113 706                                |
| 1950 . . . . .                                  | 838               | (NA)                                  | 238 671                    | 837 019              | 196 261            | 392 414              | 644 367            | 1 619 927   | (NA)                           | (NA)                            | 79 958                                 |
| 1949 . . . . .                                  | (NA)              | (NA)                                  | 222 368                    | 713 385              | 180 336            | 342 305              | 532 471            | 1 194 668   | (NA)                           | (NA)                            | 63 253                                 |
| 1947 . . . . .                                  | 872               | (NA)                                  | 258 237                    | 781 378              | 213 823            | 423 667              | 613 189            | 1 299 491   | (NA)                           | (NA)                            | 109 783                                |
| 1939 . . . . .                                  | 595               | (NA)                                  | 149 738                    | 226 922              | 120 740            | (NA)                 | 161 410            | 406 155   | (NA)                           | (NA)                            | (NA)                                   |
| 1937 . . . . .                                  | 478               | (NA)                                  | 149 965                    | 216 327              | 129 818            | (NA)                 | 171 305            | 368 773   | (NA)                           | (NA)                            | (NA)                                   |
| 1935 . . . . .                                  | 466               | (NA)                                  | 131 526                    | 169 415              | 114 681            | (NA)                 | 133 715            | 308 848   | (NA)                           | (NA)                            | (NA)                                   |
| 1933 . . . . .                                  | 408               | (NA)                                  | 121 157                    | 125 440              | 106 283            | (NA)                 | 99 117             | 261 347   | (NA)                           | (NA)                            | (NA)                                   |
| 1931 . . . . .                                  | 453               | (NA)                                  | (NA)                       | (NA)                 | 99 259             | (NA)                 | 112 596            | 361 398   | (NA)                           | (NA)                            | (NA)                                   |
| 1929 . . . . .                                  | 525               | (NA)                                  | 171 982                    | 262 659              | 149 148            | (NA)                 | 207 306            | 538 782   | (NA)                           | (NA)                            | (NA)                                   |
| 1927 . . . . .                                  | 516               | (NA)                                  | 168 593                    | 258 733              | 141 997            | (NA)                 | 198 074            | 564 707   | (NA)                           | (NA)                            | (NA)                                   |
| 1925 . . . . .                                  | 530               | (NA)                                  | (NA)                       | (NA)                 | 141 869            | (NA)                 | 191 286            | 539 075   | (NA)                           | (NA)                            | (NA)                                   |
| 1923 . . . . .                                  | 529               | (NA)                                  | 160 054                    | 231 047              | 137 868            | (NA)                 | 182 084            | 457 355   | (NA)                           | (NA)                            | (NA)                                   |
| 1921 . . . . .                                  | 496               | (NA)                                  | 124 643                    | 170 868              | 103 273            | (NA)                 | 123 613            | 327 024   | (NA)                           | (NA)                            | (NA)                                   |
| 1919 . . . . .                                  | 477               | (NA)                                  | 206 104                    | 278 992              | 158 549            | (NA)                 | 193 763            | 543 872   | (NA)                           | (NA)                            | (NA)                                   |
| 1914 . . . . .                                  | 342               | (NA)                                  | 88 734                     | 60 446               | 74 022             | (NA)                 | 44 167             | 137 959   | (NA)                           | (NA)                            | (NA)                                   |
| 1909 . . . . .                                  | 267               | (NA)                                  | 55 956                     | 32 978               | 49 264             | (NA)                 | 25 137             | 74 650  | (NA)                           | (NA)                            | (NA)                                   |
| 1904 . . . . .                                  | 265               | (NA)                                  | 47 571                     | 24 623               | 43 873             | (NA)                 | 20 084             | 68 013  | (NA)                           | (NA)                            | (NA)                                   |
| 1899 . . . . .                                  | 301               | (NA)                                  | 39 071                     | 18 576               | 36 566             | (NA)                 | 15 427             | 39 640  | (NA)                           | (NA)                            | (NA)                                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The figures for 1939 to 1963 include data for employees at manufacturing establishments who were engaged in distribution and in construction work. The extent to which data for such employees were included in the figures for earlier years is not known.

<sup>2</sup>For the period 1954 to 1963, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. For 1899 to 1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture.

<sup>3</sup>The total value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry classification. For a more complete explanation, see Introduction.

<sup>4</sup>The figures for 1958 to 1963 include expenditures for plants under construction and

not yet in operation.

<sup>5</sup>Based upon the 1957 revisions of the Standard Industrial Classification Manual, establishments engaged in molding plastics products for the trade and fabricating miscellaneous finished plastics products were reclassified from Major Group 39, Miscellaneous manufacturing industries to Major Group 30. Data for years prior to 1958 exclude data for plastic products.

<sup>6</sup>In addition to data for operating establishments 1954, 1958, and 1963 figures are shown for manufacturer's central administrative offices and auxiliary units. Similar data are shown for the years 1949 to 1953 and 1955 to 1957 in annual survey of manufactures volumes. Data for these units are not available for the years prior to 1949.

<sup>7</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>8</sup>The figures for 1925 to 1963, but not for earlier years, include data for establishments primarily engaged in manufacture of rubber cement and rubber toy ballons. Value added by manufacture for 1925, excluding data for these establishments and on a basis comparable with earlier years, was \$536.6 million.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Code | Industry group and geographic area                   | 1963           |                                    |                |                   |                    |                   |                 | 1958   |                                     |                        |  |
|------|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 30   | RUBBER & PLASTICS PRDDUCTS, NEC, TOTAL               | 5 728          | 2 449                              | 414 959        | 2 364 033         | 328 785            | 658 464           | 1 672 376       | 4 653 953                                      | 343 466                             | 347 842                | 3 276 612                                      |
|      | NORTHEAST . . . . .                                  | 2 198          | 981                                | 144 382        | 761 110           | 116 070            | 229 925           | 537 605         | 1 432 825                                      | 89 775                              | 129 394                | 1 109 051                                      |
|      | NEW ENGLAND . . . . .                                | 645            | 340                                | 64 878         | 340 165           | 52 047             | 101 794           | 239 036         | 623 522  | 32 356                              | 61 388                 | 519 965  |
|      | MAINE . . . . .                                      | 24             | 12                                 | 1 958          | 7 467             | 1 689              | 3 322             | 5 339           | 12 275   | 583                                 | 1 146                  | 8 434  |
|      | NEW HAMPSHIRE . . . . .                              | 26             | 17                                 | 3 301          | 13 553            | 2 840              | 5 327             | 9 815           | 20 842   | 1 623                               | (D)                    | (D)  |
|      | VERMONT . . . . .                                    | 12             | 6                                  | 1 161          | 5 714             | 950                | 1 851             | 4 175           | 11 509   | 1 029                               | (D)                    | (D)  |
|      | MASSACHUSETTS . . . . .                              | 365            | 195                                | 33 596         | 179 593           | 26 613             | 52 066            | 122 712         | 324 987  | 14 985                              | 34 679                 | 281 894  |
|      | RHODE ISLAND . . . . .                               | 76             | 37                                 | 7 926          | 38 291            | 6 593              | 12 834            | 28 606          | 83 263   | 3 537                               | 7 589                  | 70 697   |
|      | CONNECTICUT . . . . .                                | 142            | 73                                 | 16 936         | 95 547            | 13 362             | 26 394            | 68 389          | 170 646  | 10 599                              | 15 617                 | 141 757  |
|      | MIDDLE ATLANTIC . . . . .                            | 1 553          | 641                                | 79 504         | 420 945           | 64 023             | 128 131           | 298 569         | 809 303  | 57 419                              | 68 006                 | 589 086  |
|      | NEW YDRK . . . . .                                   | 759            | 271                                | 28 206         | 135 549           | 23 177             | 45 518            | 95 385          | 256 842  | 17 051                              | 25 401                 | 193 518  |
|      | NEW JERSEY . . . . .                                 | 492            | 233                                | 27 976         | 153 470           | 22 010             | 44 851            | 106 200         | 284 064  | 24 278                              | 22 537                 | 191 748  |
|      | PENNSYLVANIA . . . . .                               | 302            | 137                                | 23 322         | 131 926           | 18 836             | 37 762            | 96 984          | 268 397  | 16 090                              | 20 068                 | 203 820  |
|      | NORTH CENTRAL . . . . .                              | 1 861          | 869                                | 175 902        | 1 081 023         | 137 220            | 276 385           | 759 615         | 2 060 505                                      | 160 856                             | 149 476                | 1 397 032                                      |
|      | EAST NORTH CENTRAL . . . . .                         | 1 542          | 750                                | 157 392        | 971 825           | 122 429            | 246 273           | 678 340         | 1 824 051                                      | 147 622                             | 137 387                | 1 256 791                                      |
|      | DHID . . . . .                                       | 479            | 273                                | 80 471         | 535 795           | 61 026             | 122 887           | 369 086         | 968 715  | 65 205                              | 76 627                 | 710 124  |
|      | INDIANA . . . . .                                    | 169            | 84                                 | 22 434         | 124 692           | 18 213             | 36 571            | 93 486          | 243 155  | 13 073                              | 17 357                 | 142 432  |
|      | ILLINDIS . . . . .                                   | 467            | 220                                | 28 489         | 157 980           | 22 485             | 45 377            | 106 189         | 308 077  | 51 354                              | 22 143                 | 185 240  |
|      | MICHIGAN . . . . .                                   | 296            | 118                                | 19 005         | 114 533           | 15 037             | 30 143            | 81 358          | 232 808  | 15 107                              | 14 113                 | 146 565  |
|      | WISCONSIN . . . . .                                  | 131            | 55                                 | 6 993          | 38 825            | 5 668              | 11 295            | 28 221          | 71 296   | 2 883                               | 7 147                  | 72 430   |
|      | WEST NRTH CENTRAL . . . . .                          | 319            | 119                                | 18 510         | 109 198           | 14 791             | 30 112            | 81 275          | 236 454  | 13 234                              | 12 089                 | 140 241  |
|      | MINNESOTA . . . . .                                  | 116            | 31                                 | 3 496          | 18 519            | 2 721              | 5 553             | 12 405          | 37 195   | 2 590                               | 2 106                  | 15 071   |
|      | IDWA . . . . .                                       | 36             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | MISSOURI . . . . .                                   | 118            | 55                                 | 5 444          | 26 560            | 4 242              | 8 523             | 18 595          | 53 484   | 2 657                               | 2 828                  | 23 001   |
|      | SOUTH OAKOTA . . . . .                               | 3              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | NEBRASKA . . . . .                                   | 16             | 8                                  | 1 450          | 8 380             | 1 182              | 2 509             | 6 452           | 15 575   | 1 245                               | 1 146                  | 9 799  |
|      | KANSAS . . . . .                                     | 30             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | SOUTH . . . . .                                      | 727            | 300                                | 57 815         | 304 780           | 47 582             | 97 341            | 229 791         | 718 837  | 49 278                              | 38 526                 | 438 631  |
|      | SDUTH ATLANTIC . . . . .                             | 376            | 151                                | 28 090         | 133 528           | 22 794             | 46 189            | 95 083          | 266 816  | 25 567                              | 17 898                 | 146 371  |
|      | DELAWARE . . . . .                                   | 14             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | MARYLAND . . . . .                                   | 50             | 33                                 | 10 592         | 53 668            | 8 717              | 17 707            | 39 386          | 87 873   | 12 667                              | 8 392                  | 74 000   |
|      | DISTRICT OF COLUMBIA . . . . .                       | 2              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | VIRGINIA . . . . .                                   | 32             | 18                                 | 4 671          | 19 470            | 3 860              | 7 712             | 13 887          | 40 705   | 3 029                               | 2 505                  | 15 594   |
|      | WEST VIRGINIA . . . . .                              | 8              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | NORTH CAROLINA . . . . .                             | 59             | 25                                 | 3 461          | 14 972            | 2 756              | 5 558             | 10 640          | 33 917   | 1 296                               | 1 900                  | 18 078   |
|      | SOUTH CAROLINA . . . . .                             | 20             | 11                                 | 2 160          | 11 259            | 1 577              | 3 290             | 6 874           | 34 759   | 1 712                               | 953                    | 8 506  |
|      | GEORGIA . . . . .                                    | 66             | 30                                 | 2 516          | 9 808             | 2 147              | 4 496             | 6 987           | 26 769   | 2 631                               | 1 061                  | 8 755  |
|      | FLORIDA . . . . .                                    | 125            | 23                                 | 1 456          | 5 999             | 1 189              | 2 335             | 4 236           | 12 343   | 1 003                               | 711                    | 3 687  |
|      | EAST SDUTH CENTRAL . . . . .                         | 120            | 72                                 | 18 723         | 110 477           | 15 695             | 32 241            | 87 864          | 282 387  | 14 673                              | 13 116                 | 183 854  |
|      | KENTUCKY . . . . .                                   | 22             | 12                                 | 2 069          | 9 656             | 1 675              | 3 455             | 7 039           | 33 534   | 1 735                               | (D)                    | (D)  |
|      | TENNESSEE . . . . .                                  | 54             | 36                                 | 7 604          | 44 948            | 6 422              | 12 961            | 35 876          | 82 971   | 4 792                               | 5 032                  | 66 562   |
|      | ALABAMA . . . . .                                    | 25             | 12                                 | 6 535          | 42 691            | 5 538              | 11 497            | 34 766          | 133 625  | 6 414                               | 5 799                  | 96 790   |
|      | MISSISSIPPI . . . . .                                | 19             | 12                                 | 2 515          | 13 182            | 2 060              | 4 328             | 10 183          | 32 257   | 1 732                               | (D)                    | (D)  |
|      | WEST SDUTH CENTRAL . . . . .                         | 231            | 77                                 | 11 002         | 60 775            | 9 093              | 18 911            | 46 844          | 169 634  | 9 038                               | 7 512                  | 108 406  |
|      | ARKANSAS . . . . .                                   | 24             | 12                                 | 1 585          | 7 253             | 1 342              | 2 774             | 5 679           | 18 757   | 1 709                               | (D)                    | (D)  |
|      | LDUISIANA . . . . .                                  | 13             | 4                                  | 1 899          | 730               | 156                | 309               | 510             | 3 168  | 194                                 | 133                    | 1 580  |
|      | DKLAHOMA . . . . .                                   | 28             | 11                                 | 2 471          | 16 379            | 2 113              | 4 537             | 13 674          | 47 370   | 2 896                               | (D)                    | (D)  |
|      | TEXAS . . . . .                                      | 166            | 50                                 | 6 757          | 36 413            | 5 482              | 11 291            | 26 981          | 100 339  | 4 239                               | 4 646                  | 62 379   |
|      | WEST . . . . .                                       | 942            | 300                                | 36 977         | 217 483           | 28 002             | 54 999            | 145 621         | 444 936  | 43 550                              | 30 446                 | 331 898  |
|      | MDUNTAIN . . . . .                                   | 80             | 17                                 | 6 753          | 41 868            | 4 627              | 8 655             | 25 108          | 99 610   | 5 505                               | (D)                    | (D)  |
|      | MONTANA . . . . .                                    | 2              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | IDAHO . . . . .                                      | 2              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | WYDMING . . . . .                                    | 1              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | CDLDRADO . . . . .                                   | 34             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | NEW MEXICO . . . . .                                 | 3              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | ARIZONA . . . . .                                    | 25             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | UTAH . . . . .                                       | 13             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | PACIFIC . . . . .                                    | 862            | 283                                | 30 224         | 175 615           | 23 375             | 46 344            | 120 513         | 345 326  | 38 045                              | (D)                    | (D)  |
|      | WASHINGTON . . . . .                                 | 49             | 8                                  | 490            | 2 794             | 375                | 732               | 1 884           | 5 415  | 475                                 | (D)                    | (D)  |
|      | DREGON . . . . .                                     | 35             | 6                                  | 409            | 2 433             | 308                | 603               | 1 505           | 4 696  | 236                                 | (D)                    | (D)  |
|      | CALIFORNIA . . . . .                                 | 769            | 269                                | 29 275         | 170 168           | 22 650             | 44 927            | 116 956         | 334 626  | 37 268                              | 23 810                 | 248 361  |
|      | ALASKA . . . . .                                     | 1              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | HAWAII . . . . .                                     | 8              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
| 301  | TIRES AND INNER TUBES, TDTAL <sup>1</sup> . . . . .  | 155            | 96                                 | 85 259         | 621 741           | 66 268             | 131 783           | 460 145         | 1 321 712                                      | 112 783                             | 89 395                 | 1 179 957                                      |
| 302  | RUBBER FDDTWEAR, TDTAL <sup>1</sup> . . . . .        | 53             | 46                                 | 29 147         | 130 361           | 25 951             | 48 168            | 105 763         | 216 959  | 6 903                               | 20 359                 | 149 608  |
| 303  | RECLAIMED RUBBER, TDTAL <sup>1</sup> . . . . .       | 13             | 13                                 | 2 010          | 13 598            | 1 658              | 3 145             | 10 413          | 27 378   | 1 309                               | 2 215                  | 20 843   |
| 306  | RUBBER PRDDUCTS, NEC, TDTAL <sup>1</sup> . . . . .   | 1 173          | 620                                | 132 228        | 760 761           | 100 581            | 203 392           | 516 065         | 1 427 022                                      | 64 955                              | 119 565                | 997 254  |
| 307  | PLASTICS PRDDUCTS, NEC, TDTAL <sup>1</sup> . . . . . | 4 334          | 1 674                              | 166 315        | 837 572           | 134 327            | 271 976           | 579 990         | 1 660 882                                      | 157 516                             | 116 308                | 928 950  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.  
<sup>1</sup>This industry group consists of a single 4-digit industry. Detailed data by State are included in the 4-digit industry tables.



TABLE 3. Detailed Statistics: 1963

| Item  | Rubber and plastics products, n.e.c. (SIC 30) | Tires and inner tubes (SIC 301) | Rubber footwear (SIC 302) | Reclaimed rubber (SIC 303) | Rubber products, n.e.c. (SIC 306) | Plastics products, n.e.c. (SIC 307) |
|---|---|---------------------------------|---------------------------|----------------------------|-----------------------------------|-------------------------------------|
| ESTABLISHMENTS, TOTAL . . . . . NUMBER . .                                  | 5 728   | 155                             | 53                        | 13                         | 1 173                             | 4 334                               |
| WITH 1 TO 19 EMPLOYEES . . . . . DO. . .                                    | 3 279   | 59                              | 7                         | -                          | 553                               | 2 660                               |
| WITH 20 TO 99 EMPLOYEES . . . . . DO. . .                                   | 1 695   | 35                              | 8                         | 6                          | 369                               | 1 277                               |
| WITH 100 EMPLOYEES OR MORE . . . . . DO. . .                                | 754   | 61                              | 38                        | 7                          | 251                               | 397                                 |
| PROPRIETORS AND WORKING PARTNERS . . . . . DO. . .                          | 1 651   | 37                              | 4                         | 2                          | 300                               | 1 308                               |
| ALL EMPLOYEES (AVERAGE FOR THE YEAR) . . . . . DO. . .                      | 414 959                                       | 85 259                          | 29 147                    | 2 010                      | 132 228                           | 166 315                             |
| PAYROLL (ALL EMPLOYEES), TOTAL FOR YEAR . . . . . \$1,000. . .              | 2 364 033                                     | 621 741                         | 130 361                   | 13 598                     | 760 761                           | 837 572                             |
| PRODUCTION WORKERS:   |   |                                 |                           |                            |                                   |                                     |
| AVERAGE FOR THE YEAR . . . . . NUMBER . .                                   | 328 785                                       | 66 268                          | 25 951                    | 1 658                      | 100 581                           | 134 327                             |
| MARCH . . . . . DO. . .   | 323 388                                       | 68 381                          | 23 657                    | 1 667                      | 100 635                           | 129 048                             |
| MAY . . . . . DO. . .   | 328 667                                       | 66 972                          | 27 314                    | 1 674                      | 100 914                           | 131 793                             |
| AUGUST . . . . . DO. . .  | 329 729                                       | 64 695                          | 26 494                    | 1 666                      | 99 913                            | 136 961                             |
| NOVEMBER . . . . . DO. . .  | 333 356                                       | 65 024                          | 26 339                    | 1 625                      | 100 862                           | 139 506                             |
| MAN-HOURS . . . . . 1,000. . .  | 658 464                                       | 131 783                         | 48 168                    | 3 145                      | 203 392                           | 271 976                             |
| JANUARY-MARCH . . . . . DO. . .   | 164 278                                       | 34 876                          | 12 671                    | 803                        | 51 323                            | 64 605                              |
| APRIL-JUNE . . . . . DO. . .  | 166 217                                       | 34 018                          | 12 676                    | 803                        | 51 273                            | 67 447                              |
| JULY-SEPTEMBER . . . . . DO. . .  | 158 937                                       | 30 286                          | 10 687                    | 760                        | 48 488                            | 68 716                              |
| OCTOBER-DECEMBER . . . . . DO. . .  | 169 032                                       | 32 603                          | 12 134                    | 779                        | 52 308                            | 71 208                              |
| WAGES . . . . . \$1,000. . .  | 1 672 376                                     | 460 145                         | 105 763                   | 10 413                     | 516 065                           | 579 990                             |
| COST OF MATERIALS, ETC., TOTAL <sup>1</sup> . . . . . DO. . .               | 4 480 104                                     | 1 623 090                       | 141 115                   | 21 669                     | 1 171 331                         | 1 522 899                           |
| MATERIALS, PARTS, CONTAINERS, AND SUPPLIES CONSUMED . . . . . DO. . .       | 3 844 319                                     | 1 324 820                       | 113 771                   | 17 190                     | 1 008 067                         | 1 380 471                           |
| COST OF REALES . . . . . DO. . .  | 462 615                                       | 263 603                         | 22 727                    | 1 804                      | 117 868                           | 56 613                              |
| FUELS CONSUMED . . . . . DO. . .  | 44 858  | 13 979                          | 981                       | 552                        | 16 108                            | 13 238                              |
| ELECTRIC ENERGY:  |   |                                 |                           |                            |                                   |                                     |
| PURCHASED:  |   |                                 |                           |                            |                                   |                                     |
| QUANTITY . . . . . MILLION KW.-HRS. . .                                     | 6 805   | 1 949                           | 230                       | 242                        | 1 833                             | 2 551                               |
| COST . . . . . \$1,000. . .   | 83 474  | 20 097                          | 2 587                     | 2 103                      | 22 657                            | 36 030                              |
| GENERATED LESS SOLD . . . . . MILLION KW.-HRS. . .                          | 1 162   | 745                             | (0)                       | -                          | (0)                               | 13                                  |
| CONTRACT WORK . . . . . \$1,000. . .  | 44 838  | 591                             | 1 049                     | 20                         | 6 631                             | 36 547                              |
| VALUE OF SHIPMENTS (INCLUDING REALES), TOTAL <sup>1</sup> . . . . . DO. . . | 19 116 230                                    | 2 949 673                       | 354 239                   | 48 879                     | 2 597 999                         | 3 165 440                           |
| VALUE OF REALES . . . . . DO. . .   | 584 329                                       | (0)                             | 25 050                    | (0)                        | 152 300                           | 68 599                              |
| VALUE ADDED BY MANUFACTURE, ADJUSTED . . . . . DO. . .                      | 4 653 953                                     | 1 321 712                       | 216 959                   | 27 378                     | 1 427 022                         | 1 660 882                           |
| MANUFACTURERS' INVENTORIES:   |   |                                 |                           |                            |                                   |                                     |
| BEGINNING OF YEAR, TOTAL . . . . . DO. . .                                  | 1 159 641                                     | 411 351                         | 82 969                    | 5 232                      | 325 907                           | 334 182                             |
| FINISHED PRODUCTS . . . . . DO. . .   | 613 572                                       | 260 563                         | 61 975                    | 2 422                      | 148 319                           | 140 293                             |
| WORK-IN-PROCESS . . . . . DO. . .   | 186 790                                       | 47 892                          | 6 412                     | 259                        | 70 567                            | 61 660                              |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO. . .                             | 359 279                                       | 102 896                         | 14 582                    | 2 551                      | 107 021                           | 132 229                             |
| END OF YEAR, TOTAL . . . . . DO. . .  | 1 189 924                                     | 413 217                         | 86 390                    | 5 823                      | 323 446                           | 361 048                             |
| FINISHED PRODUCTS . . . . . DO. . .   | 625 088                                       | 255 291                         | 65 074                    | 2 514                      | 148 782                           | 153 427                             |
| WORK-IN-PROCESS . . . . . DO. . .   | 193 101                                       | 48 293                          | 7 148                     | 335                        | 70 458                            | 66 867                              |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO. . .                             | 371 735                                       | 109 633                         | 14 168                    | 2 974                      | 104 206                           | 140 754                             |
| EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . . . DO. . .               | 359 586                                       | 113 759                         | 7 189                     | 1 314                      | 68 343                            | 168 981                             |
| NEW, TOTAL . . . . . DO. . .  | 343 466                                       | 112 783                         | 6 903                     | 1 309                      | 64 955                            | 157 516                             |
| NEW STRUCTURES AND ADDITIONS TO PLANT . . . . . DO. . .                     | 58 564  | 14 640                          | 822                       | 53                         | 12 752                            | 30 297                              |
| NEW MACHINERY AND EQUIPMENT . . . . . DO. . .                               | 284 902                                       | 98 143                          | 6 081                     | 1 256                      | 52 203                            | 127 219                             |
| USED PLANT AND EQUIPMENT . . . . . DO. . .                                  | 16 120  | 976                             | 286                       | 5                          | 3 388                             | 11 465                              |
| SELECTED OPERATING RATIOS:  |   |                                 |                           |                            |                                   |                                     |
| PAYROLL/TOTAL EMPLOYMENT . . . . .  | 5 697   | 7 292                           | 4 473                     | 6 765                      | 5 753                             | 5 036                               |
| PRODUCTION WORKERS/TOTAL EMPLOYMENT . . . . .                               | .79   | .78                             | .89                       | .82                        | .76                               | .81                                 |
| MAN-HOURS/PRODUCTION WORKERS . . . . .                                      | 2 003   | 1 989                           | 1 856                     | 1 897                      | 2 022                             | 2 025                               |
| PRODUCTION WORKER WAGES/MAN-HOURS . . . . .                                 | 2.54  | 3.49                            | 2.20                      | 3.31                       | 2.54                              | 2.13                                |
| COST OF MATERIALS AND PAYROLLS/TOTAL VALUE OF SHIPMENTS . . . . .           | .75   | .76                             | .77                       | .72                        | .74                               | .75                                 |
| COST OF MATERIALS/TOTAL VALUE OF SHIPMENTS . . . . .                        | .49   | .55                             | .40                       | .44                        | .45                               | .48                                 |
| ADJUSTED VALUE ADDED/TOTAL EMPLOYMENT . . . . .                             | 11 215  | 15 502                          | 7 444                     | 13 621                     | 10 792                            | 9 986                               |
| SALARIES AND WAGES/ADJUSTED VALUE ADDED . . . . .                           | .51   | .47                             | .60                       | .50                        | .53                               | .50                                 |

Standard Notes: - Represents zero.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

<sup>1</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.





## RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3011—Tires and Inner Tubes
- 3021—Rubber Footwear
- 3031—Reclaimed Rubber
- 3069—Fabricated Rubber Products, Not Elsewhere Classified
- 3079—Miscellaneous Plastics Products

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3011—TIRES AND INNER TUBES

This industry comprises establishments primarily engaged in the manufacture of pneumatic casings, inner tubes, and solid and cushion tires for all types of vehicles, airplanes, farm equipment, and children's vehicles, as well as tire repair and tire retreading (camelback) materials. For a detailed list of products of industry 3011, refer to table 6A, product codes 3011111 to 3011539.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Tires and Inner Tubes Industry totaled \$2,950 million. This amount included shipments of tires and inner tubes (primary products) valued at \$2,399 million, and shipments of other products (secondary products) and miscellaneous receipts (mainly resales) valued at \$551 million.

Shipments of tires and inner tubes by this industry represented 99 percent of all shipments of these products (\$2,420 million) by all industries. In 1958 the coverage ratio was also 99 percent. Other industries shipping tires and inner tubes consisted mainly of industry 3069, Rubber Products, N.E.C.; and industry 3949, Sporting and Athletic Goods.

The production index for the primary products of the industry increased to 145 in 1963 from the 1958 level of 110. The unit value index for 1963 was 96 compared to 113 in 1958. Both indexes were computed on a basis of 1954 = 100.

### 3021—RUBBER FOOTWEAR

This industry comprises establishments primarily engaged in the manufacture of all rubber footwear, waterproof fabric upper footwear, and other fabric upper footwear having rubber soles vulcanized to the uppers. For a detailed list of products of industry 3021, refer to table 6A, product codes 3021011 to 3021098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Rubber Footwear Industry totaled \$354 million. This amount included shipments of rubber footwear (primary products) valued at \$305 million, shipments of other products (secondary products) valued at \$23 million, and miscellaneous receipts (mainly resales) at \$26 million.

This industry's shipments of rubber footwear represented 93 percent of its total product shipments. Secondary products shipped by this industry in 1963 consisted mainly of rubber products, n.e.c. (\$9 million), and boot and shoe cut stock and findings.

Shipments of rubber footwear by this industry represented 90 percent of all shipments of these products (\$340 million) by all industries. Other industries shipping rubber footwear consisted mainly of industry 3142, House Slippers.

The production index for the primary products of the industry increased to 203 in 1963 from the 1958 level of 127. The unit value index for 1963 was 101 compared to 103 in 1958. Both indexes were computed on a basis of 1954 = 100.

### 3031—RECLAIMED RUBBER

This industry comprises establishments primarily engaged in reclaiming rubber from used tires, scrap, and miscellaneous waste rubber articles by processes which result in a devulcanized, depolymerized, or regenerated, replasticized product containing added ingredients. This product is sold for use as a raw material in the manufacture of rubber goods with or without a mixture with natural or synthetic rubber.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Reclaimed Rubber Industry totaled \$49 million. This amount included shipments of reclaimed rubber (primary products) valued at \$43 million, and shipments of other products (secondary products) and miscellaneous receipts valued at \$6 million.

Secondary products shipped by this industry in 1963 consisted mainly of rubber products, n.e.c.

Shipments of reclaimed rubber by this industry represented 77 percent of all shipments of these products (\$55 million) by all industries. In 1958 the coverage ratio was 72 percent. Other industries shipping reclaimed rubber consisted mainly of industry 2818, Organic Chemicals, N.E.C., and industry 3011, Tires and Inner Tubes.

The production index for the primary products of the industry increased to 107 in 1963 from the 1958 level of 100. The unit value index for 1963 was 117 compared to 107 in 1958. Both indexes were computed on a basis of 1954 = 100.



### 3069—FABRICATED RUBBER PRODUCTS, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in the manufacture of industrial and mechanical rubber goods, rubberized fabrics and vulcanized rubber clothing, and miscellaneous rubber specialties and sundries. For a detailed list of products of industry 3069, refer to table 6A, product codes 3069000 to 3069898.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Rubber Products, N.E.C., Industry totaled \$2,598 million. This amount included shipments of rubber products, n.e.c., (primary products) valued at \$2,085 million, shipments of other products (secondary products) valued at \$343 million, and miscellaneous receipts (mainly resales) at \$170 million.

This industry's shipments of rubber products, n.e.c., represented 86 percent of its total product shipments. The industry specialization ratio in 1958 was also 86 percent. Secondary products shipped by this industry in 1963 consisted mainly of consumer and commercial plastics products, n.e.c. (\$29 million), foamed plastics products (\$28 million), and rubber footwear.

Shipments of rubber products, n.e.c., by this industry represented 89 percent of all shipments of these products (\$2,356 million) by all industries. In 1958 the coverage ratio was 86 percent. Other industries shipping rubber products, n.e.c., consisted mainly of industry 3011, Tires and Inner Tubes, \$115 million; and industry 3079, Plastics Products, N.E.C., \$25 million.

The production index for the primary products of the industry increased to 143 in 1963 from the 1958 level of 106. The unit value index for 1963 was 102 compared to 104 in 1958. Both indexes were computed on a basis of 1954 = 100.

### 3079—MISCELLANEOUS PLASTICS PRODUCTS

This industry comprises establishments primarily engaged in molding primary plastics for the trade, in manufacturing film, sheets, sheeting, rods, tubes, and other stock shapes from purchased resins, and in fabricating miscellaneous finished plastics products. For a detailed list of products of industry 3079, refer to table 6A, product codes 3079000 to 3079898.

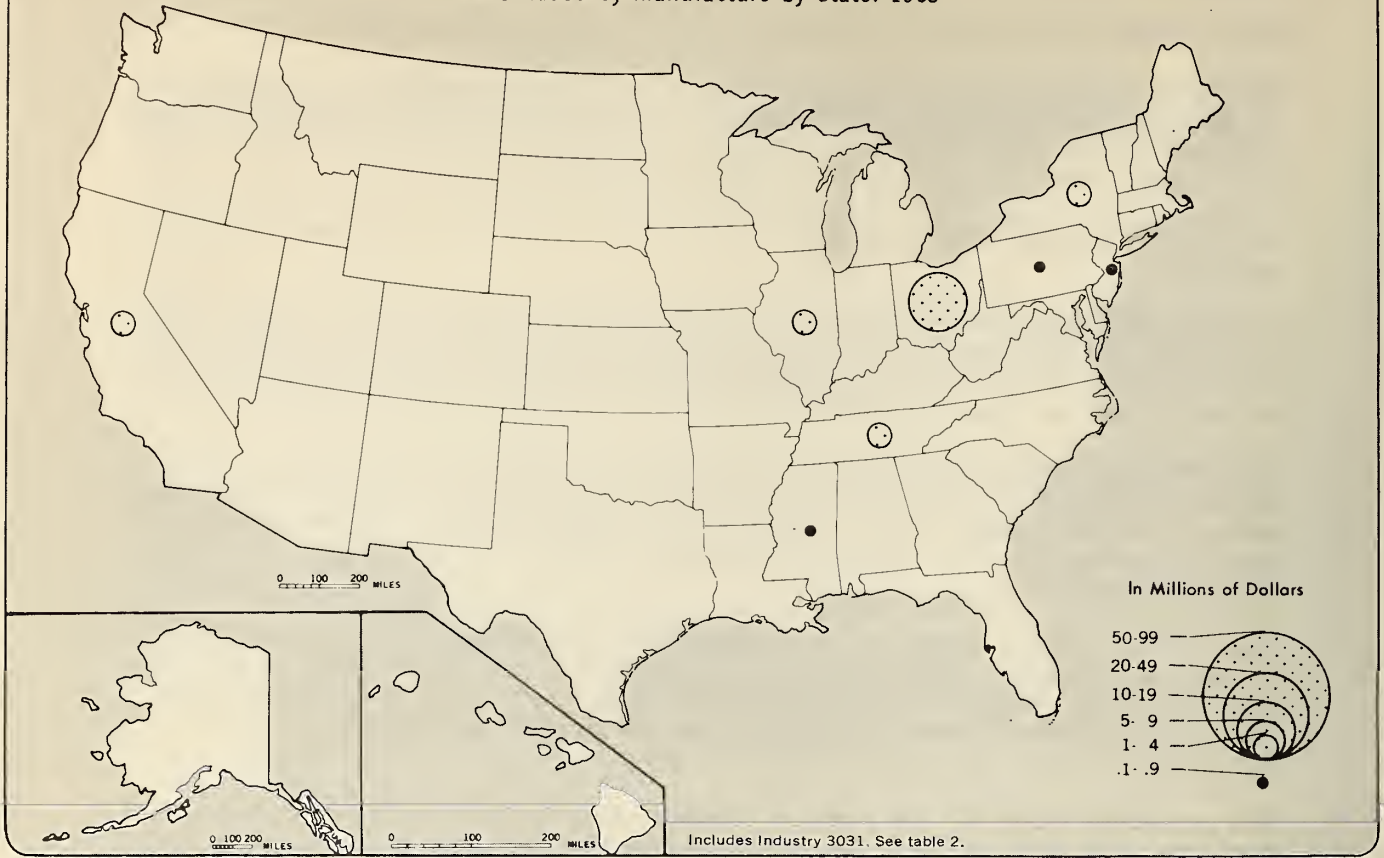
The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Plastics Products, N.E.C., Industry totaled \$3,165 million. This amount included shipments of plastics products, n.e.c. (primary products) valued at \$2,812 million, shipments of other products (secondary products) valued at \$251 million, and miscellaneous receipts (mainly products bought and resold without further manufacture) at \$102 million.

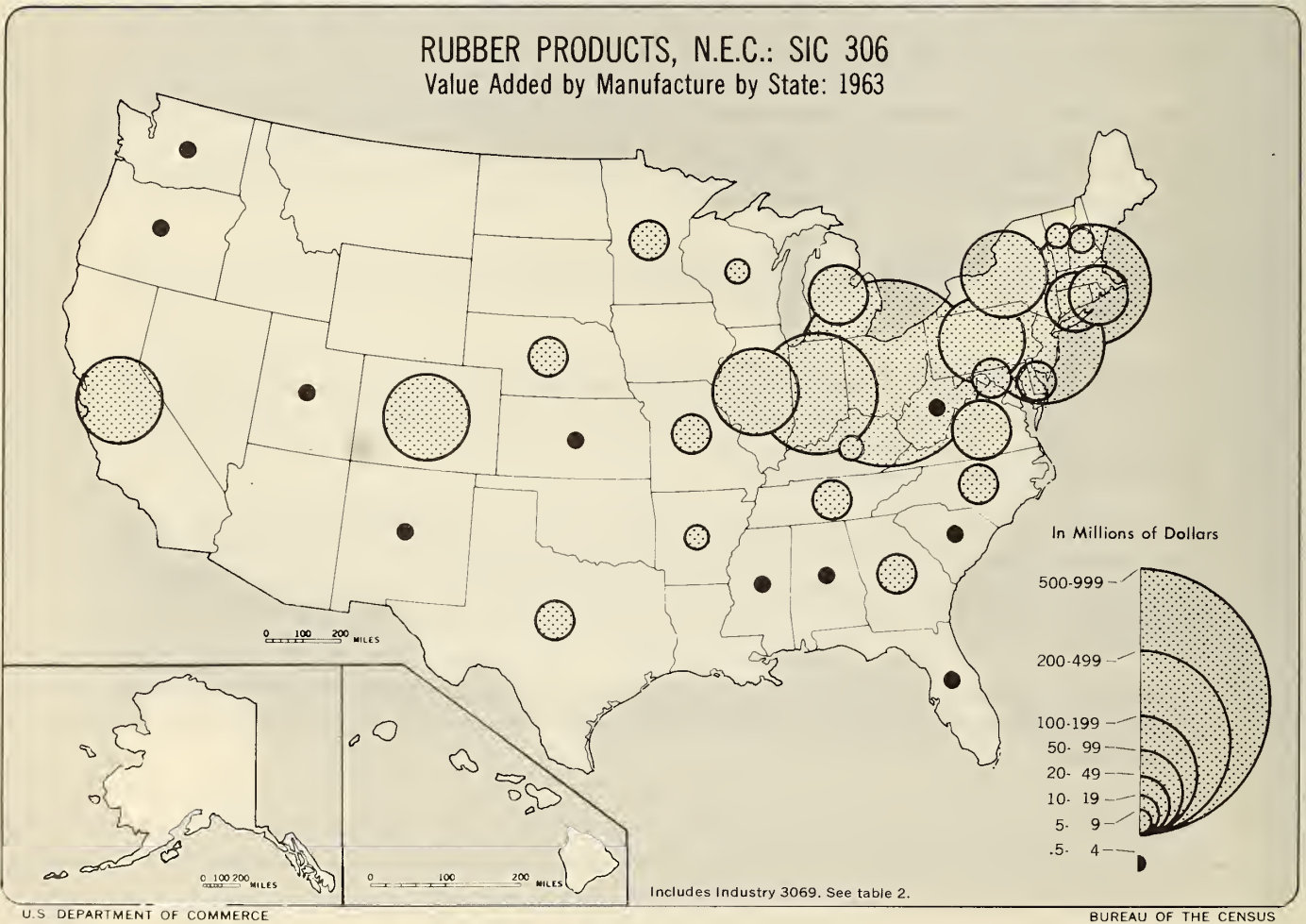
This industry's shipments of plastics products, n.e.c., represented 92 percent of its total product shipments. The industry specialization ratio in 1958 was 91 percent. Secondary products shipped by this industry in 1963 consisted mainly of custom compounded purchased resins (\$24 million), and games and toys, except dolls and children's vehicles (\$17 million).

Shipments of plastics products, n.e.c., by this industry represented 80 percent of all shipments of these products (\$3,495 million) by all industries. In 1958 the coverage ratio was 85 percent.

**RECLAIMED RUBBER: SIC 303**  
 Value Added by Manufacture by State: 1963

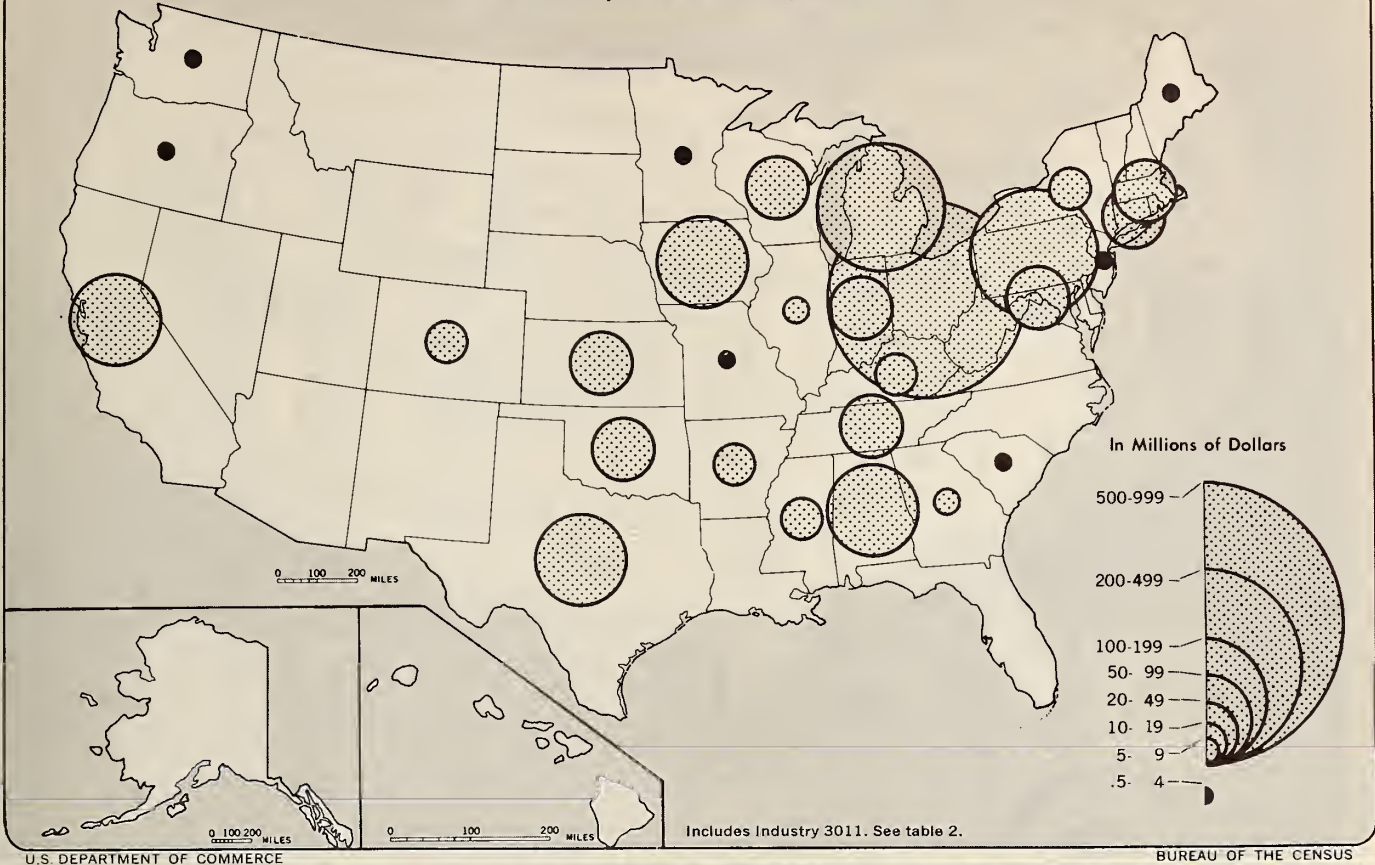


**RUBBER PRODUCTS, N.E.C.: SIC 306**  
 Value Added by Manufacture by State: 1963

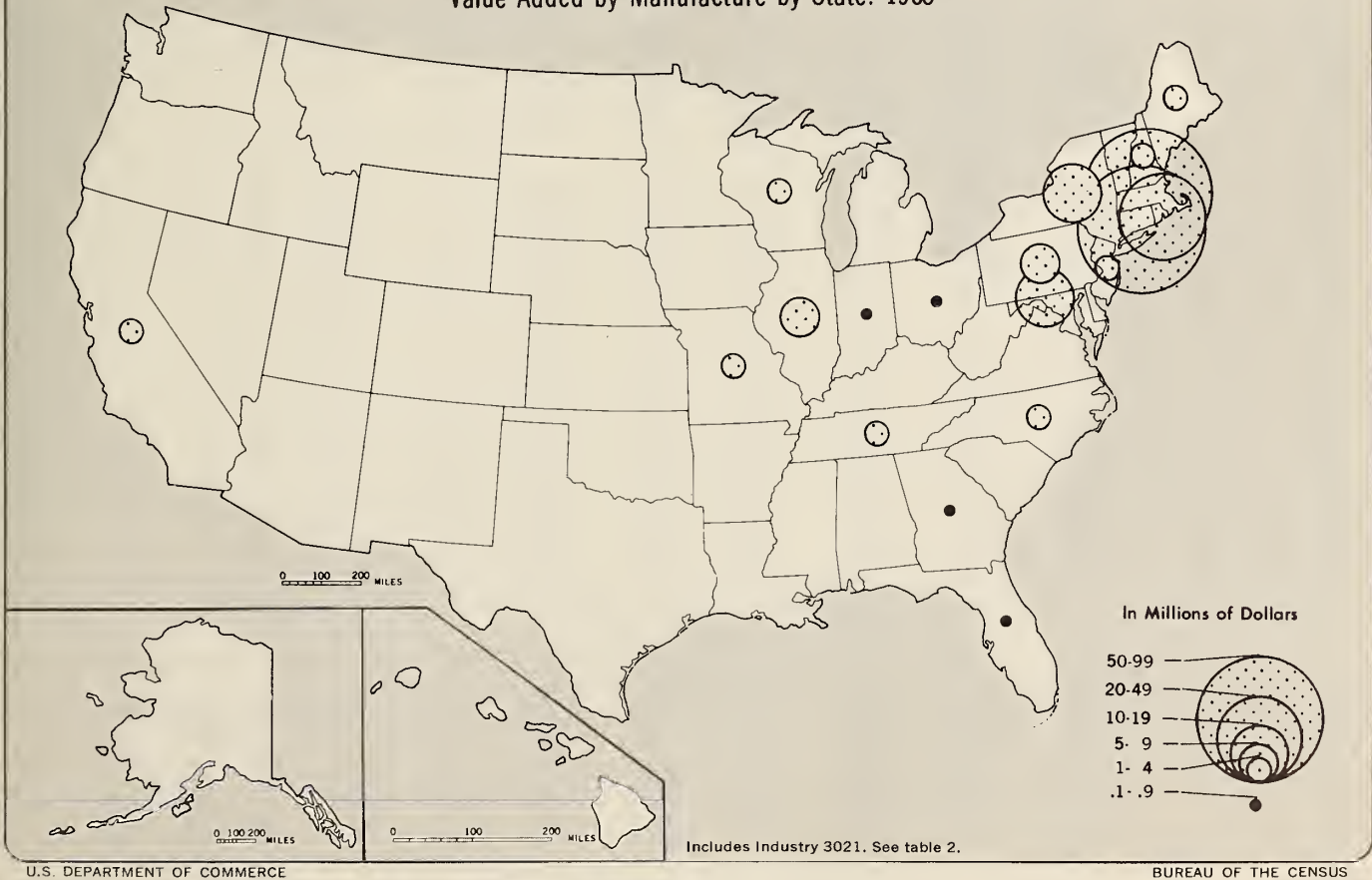




**TIRES AND INNER TUBES: SIC 301**  
 Value Added by Manufacture by State: 1963



**RUBBER FOOTWEAR: SIC 302**  
 Value Added by Manufacture by State: 1963



PLASTICS PRODUCTS, N.E.C.: SIC 307  
Value Added by Manufacture by State: 1963

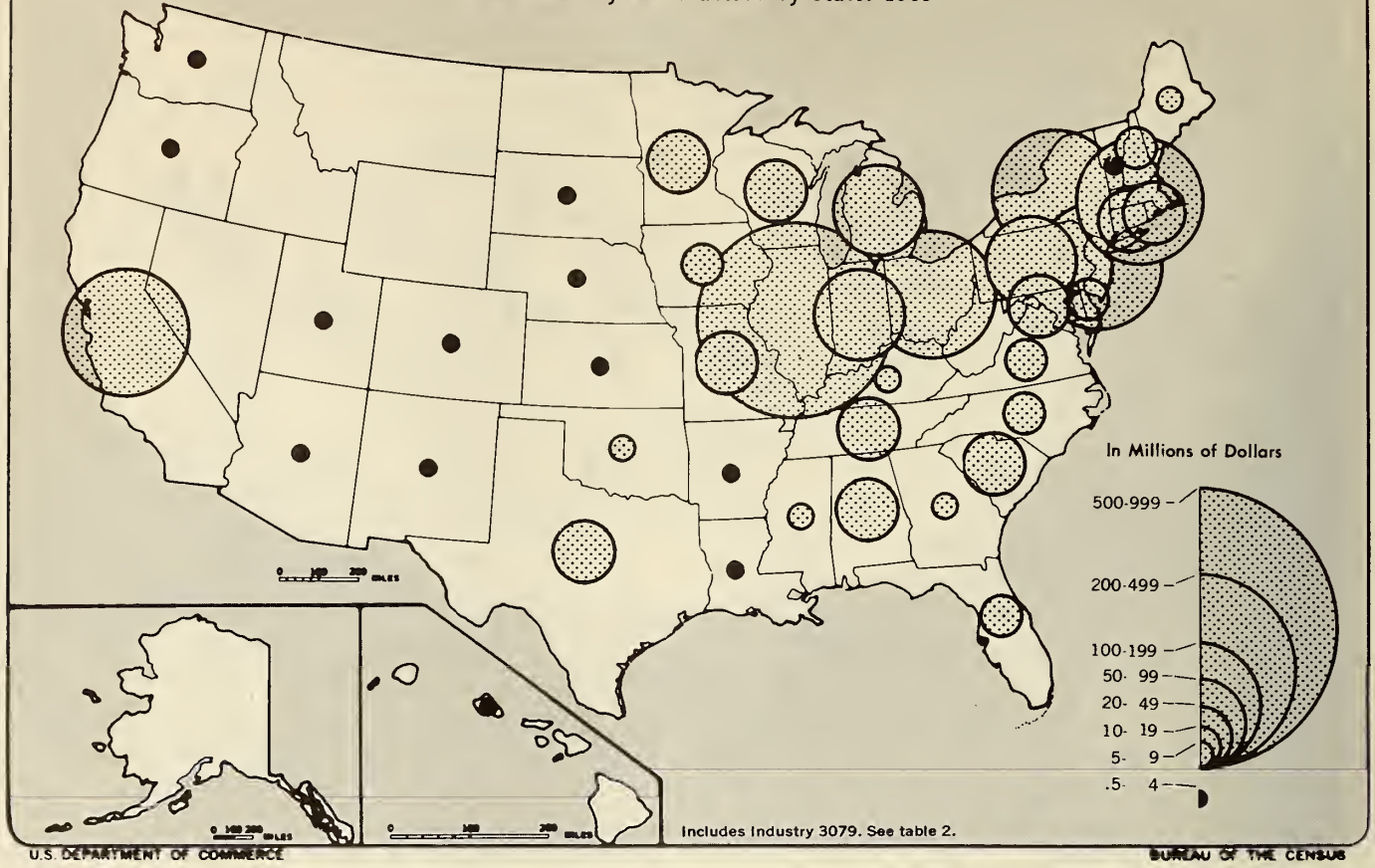




TABLE 1. General Statistics: 1963 and Earlier Years

| Year                                 | Compan-<br>ies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Speci-<br>alization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--------------------------------------|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|---|-----------------------------------|------------------------------------|---|--|--|
|                                      |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                   |                                    |   |  |  |
| INDUSTRY 3011.—TIRES AND INNER TUBES |                            |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                            | 105                        | 155               | 96   | 85,259            | 621,741              | 66,268             | 131,783              | 460,145            | 1,321,712   | 1,623,090                         | 2,949,673                          | 112,783   | (D)  | 99                                       |
| 1962 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 86,316            | 618,809              | 67,559             | 137,576              | 463,107            | 1,278,062   | 1,602,273                         | 2,883,654                          | 123,271   | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 86,234            | 568,998              | 66,356             | 129,463              | 419,094            | 1,260,845   | 1,443,557                         | 2,722,958                          | 113,836   | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 92,003            | 589,556              | 72,168             | 140,191              | 438,538            | 1,271,606   | 1,607,879                         | 2,844,255                          | 133,443   | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 94,603            | 596,411              | 75,313             | 146,993              | 451,954            | 1,313,383   | 1,660,643                         | 2,947,089                          | 73,944  | (NA)   | (NA)                                     |
| 1958 (new SIC) <sup>2</sup>          | 94                         | 123               | 86   | 89,395            | 521,855              | 69,959             | 133,268              | 388,702            | 1,179,957   | 1,386,694                         | 2,577,788                          | 72,269  | 91   | 99                                       |
| 1958 (old SIC) <sup>2</sup>          | (NA)                       | 62                | 55   | 87,246            | 510,786              | 68,268             | 129,888              | 382,181            | 1,155,205   | 1,353,178                         | 2,519,765                          | 70,611  | 87   | 99                                       |
| 1957 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 96,889            | 556,893              | 76,643             | 148,666              | 419,829            | 1,118,060   | 1,228,367                         | 2,295,173                          | 91,029  | (NA)   | (NA)                                     |
| 1956 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 98,280            | 528,580              | 78,218             | 150,226              | 403,639            | 1,093,034   | 1,262,269                         | 2,286,823                          | 86,452  | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 98,653            | 547,517              | 79,421             | 166,985              | 427,948            | 1,096,390   | 1,316,427                         | 2,336,963                          | 69,056  | (NA)   | (NA)                                     |
| 1954.....                            | 27                         | 49                | 46   | 92,748            | 441,607              | 73,976             | 137,981              | 334,104            | 877,771   | 1,115,813                         | 1,997,399                          | 67,430  | 88   | 99                                       |
| 1953 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 97,026            | 462,653              | 79,187             | 154,833              | 367,545            | 1,167,765   | 1,272,738                         | 2,072,738                          | 79,733  | (NA)   | (NA)                                     |
| 1952 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 97,911            | 452,458              | 79,933             | 157,868              | 355,853            | 762,369   | 1,232,793                         | 1,995,162                          | 72,897  | (NA)   | (NA)                                     |
| 1951 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 92,244            | 402,966              | 75,732             | 151,418              | 315,752            | 753,633   | 1,313,559                         | 2,067,192                          | 58,008  | (NA)   | (NA)                                     |
| 1950 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 89,520            | 357,291              | 73,899             | 146,074              | 283,109            | 763,787   | 960,917                           | 1,724,704                          | 42,229  | (NA)   | (NA)                                     |
| 1949 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 87,042            | 300,663              | 70,992             | 130,052              | 233,429            | 518,968   | 752,665                           | 1,271,633                          | 25,899  | (NA)   | (NA)                                     |
| 1947.....                            | 35                         | 57                | 49   | 115,657           | 390,841              | 93,916             | 185,392              | 311,276            | 650,165   | 944,215                           | 1,547,040                          | 54,883  | 90   | 95                                       |
| 1939.....                            | (NA)                       | 53                | (NA)   | 67,169            | 122,164              | 54,115             | (NA)                 | 89,774             | 231,372   | 349,557                           | 580,929                            | (NA)  | (NA)   | (NA)                                     |
| 1937.....                            | (NA)                       | 46                | (NA)   | 74,242            | 122,031              | 63,290             | (NA)                 | 96,707             | 209,002   | 366,858                           | 575,860                            | (NA)  | (NA)   | (NA)                                     |
| 1935.....                            | (NA)                       | 42                | (NA)   | 65,715            | 97,061               | 57,128             | (NA)                 | 78,253             | 180,577   | 265,515                           | 446,092                            | (NA)  | (NA)   | (NA)                                     |
| 1933.....                            | (NA)                       | 44                | (NA)   | 61,227            | 70,648               | 52,976             | (NA)                 | 54,737             | 159,921   | 139,392                           | 299,313                            | (NA)  | (NA)   | (NA)                                     |
| 1931.....                            | (NA)                       | 48                | (NA)   | (NA)              | (NA)                 | 49,159             | (NA)                 | 63,089             | 232,679   | 173,604                           | 406,283                            | (NA)  | (NA)   | (NA)                                     |
| 1929.....                            | (NA)                       | 91                | (NA)   | 96,244            | 158,180              | 83,263             | (NA)                 | 127,082            | 340,570   | 429,607                           | 770,177                            | (NA)  | (NA)   | (NA)                                     |
| 1927.....                            | (NA)                       | 109               | (NA)   | 95,418            | 160,494              | 78,256             | (NA)                 | 120,064            | 370,467   | 499,221                           | 869,688                            | (NA)  | (NA)   | (NA)                                     |
| 1925.....                            | (NA)                       | 126               | (NA)   | 97,063            | 152,964              | 81,640             | (NA)                 | 120,614            | 365,062   | 559,940                           | 925,002                            | (NA)  | (NA)   | (NA)                                     |
| 1923.....                            | (NA)                       | 160               | (NA)   | 87,059            | 139,711              | 73,663             | (NA)                 | 108,623            | 279,029   | 365,165                           | 644,194                            | (NA)  | (NA)   | (NA)                                     |
| 1921.....                            | (NA)                       | 178               | (NA)   | 68,864            | 107,119              | 55,496             | (NA)                 | 75,054             | 204,569   | 291,554                           | 496,123                            | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3021.—RUBBER FOOTWEAR       |                            |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                            | 44                         | 53                | 46   | 29,147            | 130,361              | 25,951             | 48,168               | 105,763            | 216,959   | 141,115                           | 354,239                            | 6,903   | 93   | 90                                       |
| 1962 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 27,112            | 126,413              | 24,249             | 46,570               | 104,247            | 214,077   | 130,629                           | 330,369                            | 7,374   | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 23,768            | 107,423              | 21,067             | 40,796               | 87,130             | 182,271   | 109,018                           | 287,249                            | 4,780   | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 21,966            | 96,399               | 19,093             | 36,625               | 76,721             | 162,158   | 100,566                           | 265,452                            | 4,502   | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 21,952            | 95,693               | 19,319             | 37,382               | 77,284             | 161,734   | 98,277                            | 250,632                            | 4,180   | (NA)   | (NA)                                     |
| 1958.....                            | 22                         | 27                | 26   | 20,359            | 85,611               | 17,602             | 34,131               | 68,573             | 149,608   | 81,715                            | 229,439                            | 3,109   | (D)  | (D)                                      |
| 1957 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 20,179            | 81,635               | 17,474             | 33,808               | 65,683             | 144,844   | 74,374                            | 219,466                            | 2,947   | (NA)   | (NA)                                     |
| 1956 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 21,655            | 83,462               | 18,926             | 36,958               | 68,320             | 139,664   | 77,590                            | 209,069                            | (S)   | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 20,113            | 73,039               | 17,576             | 34,268               | 59,244             | 115,173   | 73,169                            | 185,545                            | (S)   | (NA)   | (NA)                                     |
| 1954.....                            | 19                         | 22                | 21   | 18,322            | 64,022               | 15,773             | 30,317               | 51,296             | 106,768   | 63,651                            | 171,471                            | 4,217   | 84   | 85                                       |
| 1953 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 25,384            | 87,549               | 21,685             | 42,540               | 69,594             | 128,660   | 90,860                            | 219,520                            | 4,779   | (NA)   | (NA)                                     |
| 1952 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 23,274            | 79,626               | 19,638             | 39,561               | 63,181             | 124,842   | 88,768                            | 213,610                            | 3,230   | (NA)   | (NA)                                     |
| 1951 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 23,813            | 73,317               | 20,258             | 40,384               | 58,177             | 113,791   | 97,365                            | 211,156                            | 5,294   | (NA)   | (NA)                                     |
| 1950 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 18,924            | 53,301               | 15,672             | 31,389               | 40,715             | 86,123  | 53,433                            | 139,556                            | 3,820   | (NA)   | (NA)                                     |
| 1949 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 24,331            | 68,184               | 20,384             | 39,564               | 52,468             | 107,333   | 72,318                            | 179,651                            | 2,158   | (NA)   | (NA)                                     |
| 1947.....                            | 20                         | 26                | 21   | 28,125            | 72,666               | 23,952             | 48,954               | 58,462             | 121,040   | 80,607                            | 198,691                            | 4,982   | 80   | 99                                       |
| 1939.....                            | (NA)                       | 13                | (NA)   | 18,098            | 22,056               | 14,861             | (NA)                 | 16,802             | 29,231  | 20,750                            | 49,981                             | (NA)  | (NA)   | (NA)                                     |
| 1937.....                            | (NA)                       | 12                | (NA)   | 20,731            | 24,645               | 18,356             | (NA)                 | 20,422             | 36,980  | 27,475                            | 64,455                             | (NA)  | (NA)   | (NA)                                     |
| 1935.....                            | (NA)                       | 12                | (NA)   | 19,377            | 19,838               | 17,246             | (NA)                 | 16,113             | 32,341  | 20,821                            | 53,162                             | (NA)  | (NA)   | (NA)                                     |
| 1933.....                            | (NA)                       | 13                | (NA)   | 20,131            | 17,609               | 18,102             | (NA)                 | 14,440             | 27,895  | 14,124                            | 42,019                             | (NA)  | (NA)   | (NA)                                     |
| 1931.....                            | (NA)                       | 15                | (NA)   | (NA)              | (NA)                 | 15,882             | (NA)                 | 13,770             | 35,607  | 12,298                            | 47,905                             | (NA)  | (NA)   | (NA)                                     |
| 1929.....                            | (NA)                       | 22                | (NA)   | 29,278            | 37,690               | 25,659             | (NA)                 | 29,945             | 68,142  | 34,396                            | 102,538                            | (NA)  | (NA)   | (NA)                                     |
| 1927.....                            | (NA)                       | 22                | (NA)   | 30,267            | 37,260               | 26,848             | (NA)                 | 32,079             | 81,235  | 43,373                            | 124,608                            | (NA)  | (NA)   | (NA)                                     |
| 1925.....                            | (NA)                       | 23                | (NA)   | 28,402            | 33,434               | 24,999             | (NA)                 | 28,058             | 75,369  | 40,566                            | 115,935                            | (NA)  | (NA)   | (NA)                                     |
| 1923.....                            | (NA)                       | 25                | (NA)   | 32,989            | 39,431               | 29,435             | (NA)                 | 33,671             | 86,471  | 45,269                            | 131,740                            | (NA)  | (NA)   | (NA)                                     |
| 1921.....                            | (NA)                       | 24                | (NA)   | 27,436            | 28,964               | 23,888             | (NA)                 | 23,428             | 61,900  | 32,133                            | 94,033                             | (NA)  | (NA)   | (NA)                                     |
| 1919.....                            | (NA)                       | 25                | (NA)   | 37,928            | 38,284               | 32,875             | (NA)                 | 30,883             | 66,570  | 50,347                            | 116,917                            | (NA)  | (NA)   | (NA)                                     |
| 1914.....                            | (NA)                       | 23                | (NA)   | 20,357            | 11,945               | 18,687             | (NA)                 | 9,986              | 29,866  | 23,956                            | 53,822                             | (NA)  | (NA)   | (NA)                                     |
| 1909.....                            | (NA)                       | 22                | (NA)   | 18,899            | 9,959                | 17,612             | (NA)                 | 8,544              | 20,144  | 29,577                            | 49,721                             | (NA)  | (NA)   | (NA)                                     |
| 1904.....                            | (NA)                       | 22                | (NA)   | 19,813            | 9,741                | 18,991             | (NA)                 | 8,867              | 38,065  | 32,000                            | 70,065                             | (NA)  | (NA)   | (NA)                                     |
| 1899.....                            | (NA)                       | 22                | (NA)   | 14,874            | 7,024                | 14,391             | (NA)                 | 6,427              | 18,407  | 22,683                            | 41,090                             | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3031.—RECLAIMED RUBBER      |                            |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                            | 7                          | 13                | 13   | 2,010             | 13,598               | 1,658              | 3,145                | 10,413             | 27,378  | 21,669                            | 48,879                             | 1,309   | (D)  | 77                                       |
| 1962 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 2,086             | 13,481               | 1,699              | 3,129                | 10,170             | 26,706  | 22,942                            | 49,793                             | 990   | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 2,225             | 13,164               | 1,812              | 3,218                | 10,105             | 25,426  | 20,664                            | 46,538                             | 1,175   | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 2,415             | 14,508               | 2,016              | 3,722                | 11,431             | 29,149  | 21,744                            | 49,933                             | 2,755   | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 2,339             | 14,149               | 1,976              | 3,770                | 11,268             | 25,004  | 20,719                            | 46,956                             | 1,110   | (NA)   | (NA)                                     |
| 1958.....                            | 12                         | 16                | 14   | 2,215             | 11,658               | 1,793              | 3,330                | 9,076              | 20,843  | 18,615                            | 39,260                             | 964   | 94   | 72                                       |
| 1957 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 2,742             | 13,965               | 2,298              | 4,647                | 10,690             | 25,110  | 21,116                            | 46,504                             | 2,549   | (NA)   | (NA)                                     |
| 1956 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 3,338             | 15,670               | 2,815              | 5,519                | 12,056             | 28,339  | 24,965                            | 51,330                             | (S)   | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....              | (NA)                       | (NA)              | (NA)   | 3,218             | 16,411               | 2,726              | 5,812                | 12,862             | 31,914  | 26,070                            | 55,596                             | (S)   | (NA)   | (NA)                                     |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year                                      | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spec-<br>ializa-<br>tion<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3031.—RECLAIMED RUBBER—Continued |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1954.....                                 | 15                         | 20                | 18   | 2,953             | 12,697               | 2,460              | 4,602                | 9,671              | 23,454   | 40,149                            | 63,599                             | 2,834   | 87  | 74                                       |
| 1953 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 2,368             | 10,403               | 2,013              | 3,871                | 8,127              | 16,172   | 14,100                            | 30,272                             | 1,004   | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 2,259             | 9,503                | 1,932              | 3,769                | 7,539              | 16,534   | 14,138                            | 30,673                             | 1,334   | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 2,696             | 11,623               | 2,367              | 5,079                | 9,713              | 18,025   | 23,442                            | 41,467                             | 2,151   | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 2,365             | 9,312                | 2,097              | 4,485                | 7,834              | 16,707   | 14,980                            | 31,687                             | 535   | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 2,153             | 7,070                | 1,868              | 4,249                | 5,763              | 9,280  | 10,460                            | 19,740                             | 705   | (NA)  | (NA)                                     |
| 1947.....                                 | 14                         | 15                | 11   | 2,070             | 6,849                | 1,855              | 4,015                | 5,826              | 9,604  | 8,049                             | 17,263                             | 2,864   | 95  | 44                                       |
| 1939.....                                 | (NA)                       | 10                | (NA)   | 1,282             | 1,970                | 1,072              | (NA)                 | 1,477              | 3,902  | 2,992                             | 6,894                              | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                 | (NA)                       | 9                 | (NA)   | (NA)              | (NA)                 | 1,258              | (NA)                 | 1,830              | 3,771  | 4,172                             | 7,943                              | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3069.—RUBBER PRODUCTS, N.E.C.    |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                 | 1,046                      | 1,173             | 620  | 132,228           | 760,761              | 100,581            | 203,392              | 516,065            | 1,427,022  | 1,171,331                         | 2,597,999                          | 64,955  | 86  | 89                                       |
| 1962 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 128,814           | 725,763              | 96,874             | 197,250              | 489,305            | 1,330,558  | 1,117,981                         | 2,435,970                          | (78,776)  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 121,610           | 664,187              | 90,828             | 182,360              | 438,508            | 1,192,781  | 1,019,419                         | 2,212,536                          | 49,994  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 127,687           | 670,121              | 96,379             | 192,940              | 449,225            | 1,161,778  | 1,057,851                         | 2,225,520                          | 52,301  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 130,740           | 678,294              | 100,380            | 202,445              | 464,003            | 1,199,032  | 1,029,100                         | 2,204,951                          | 48,418  | (NA)  | (NA)                                     |
| 1958 (new SIC)                            | 976                        | 1,074             | 558  | 119,565           | 592,964              | 89,158             | 176,994              | 396,129            | 997,254  | 881,321                           | 1,885,274                          | 43,603  | 86  | 86                                       |
| 1958 (old SIC) <sup>2</sup>               | (NA)                       | 1,138             | 590  | 122,114           | 606,033              | 91,209             | 181,124              | 404,250            | 1,026,006  | 917,837                           | 1,950,297                          | 45,365  | 86  | 80                                       |
| 1957 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 140,084           | 657,358              | 108,927            | 215,725              | 457,521            | 1,174,066  | 951,847                           | 2,094,765                          | 52,153  | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 141,696           | 632,612              | 111,314            | 221,991              | 447,038            | 1,156,676  | 927,766                           | 2,039,972                          | 64,047  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 142,885           | 620,298              | 113,681            | 230,243              | 446,517            | 1,133,591  | 939,729                           | 2,036,622                          | 55,984  | (NA)  | (NA)                                     |
| 1954.....                                 | 1,152                      | 1,315             | (NA)   | 132,503           | 541,011              | 104,028            | 204,513              | 380,427            | 946,407  | 830,253                           | 1,777,331                          | 53,949  | 88  | 78                                       |
| 1953 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 145,002           | 579,414              | 115,968            | 231,115              | 420,949            | 971,638  | 840,417                           | 1,812,055                          | 41,536  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 131,635           | 500,579              | 104,363            | 207,315              | 358,975            | 840,396  | 803,594                           | 1,643,605                          | 49,457  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 134,039           | 474,680              | 108,243            | 217,865              | 351,278            | 843,894  | 826,147                           | 1,669,655                          | 48,253  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 127,656           | 417,115              | 104,593            | 210,466              | 312,709            | 753,310  | 589,830                           | 1,342,755                          | 33,374  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 108,842           | 337,468              | 87,092             | 168,440              | 240,811            | 559,087  | 438,100                           | 1,000,005                          | 34,491  | (NA)  | (NA)                                     |
| 1947.....                                 | 733                        | 774               | (NA)   | 112,385           | 311,022              | 94,100             | 185,306              | 237,625            | 518,682  | 436,410                           | 945,257                            | 47,054  | 85  | 81                                       |
| 1939.....                                 | (NA)                       | 519               | (NA)   | 63,189            | 80,733               | 50,692             | (NA)                 | 53,358             | 141,650  | 122,875                           | 264,525                            | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                 | (NA)                       | 411               | (NA)   | (NA)              | (NA)                 | 46,914             | (NA)                 | 52,346             | 119,019  | 115,755                           | 234,774                            | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3079.—PLASTICS PRODUCTS, N.E.C.  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                 | 4,101                      | 4,334             | 1,674  | 166,315           | 837,572              | 134,327            | 271,976              | 579,990            | 1,660,882  | 1,522,899                         | 3,165,440                          | 157,516   | 92  | 80                                       |
| 1962 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 153,796           | 765,068              | 123,380            | 252,194              | 517,667            | 1,466,695  | 1,381,944                         | 2,819,573                          | 143,555   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 136,811           | 665,080              | 107,965            | 221,135              | 446,751            | 1,254,266  | 1,235,021                         | 2,473,155                          | 112,901   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 134,024           | 627,526              | 106,241            | 216,218              | 423,998            | 1,147,939  | 1,172,146                         | 2,303,178                          | 105,716   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 129,523           | 583,799              | 103,149            | 209,492              | 401,550            | 1,093,738  | 1,129,811                         | 2,217,655                          | 86,730  | (NA)  | (NA)                                     |
| 1958 (new SIC)                            | 3,093                      | 3,222             | 1,143  | 116,308           | 511,207              | 91,988             | 183,253              | 348,892            | 928,950  | 948,283                           | 1,867,877                          | 77,193  | 91  | 85                                       |
| 1958 (old SIC)                            | (NA)                       | 3,208             | 1,136  | 113,066           | 492,436              | 89,905             | 178,812              | 337,510            | 894,440  | 935,142                           | 1,822,087                          | 75,229  | 89  | 79                                       |
| 1954.....                                 | 2,377                      | 2,439             | 829  | 91,967            | 350,227              | 75,689             | 152,179              | 248,975            | 598,388  | 632,976                           | 1,227,116                          | 45,290  | 90  | 84                                       |
| 1947.....                                 | (NA)                       | 1,362             | (NA)   | 58,400            | 156,369              | 49,502             | 102,331              | 119,455            | 258,917  | 214,040                           | 472,957                            | 27,042  | 91  | 89                                       |
| 1939.....                                 | (NA)                       | 216               | (NA)   | 17,953            | 24,289               | 15,094             | (NA)                 | 17,688             | 40,157   | 31,747                            | 71,904                             | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: **All employees:** For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** For 1947 and prior years figures represent an average of 12 monthly figures. **Value added:** Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. **Cost of materials:** Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. **Value of shipments:** Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so the industry is not comparable. The 1957 and earlier figures are on the old SIC definition of the industry.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>           | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3011.—TIRES AND INNER TUBES   |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                             | 155            | 96                                 | 85,259         | 621,741           | 66,268             | 131,783           | 460,145         | 1,321,712                            | 1,623,090         | 2,949,673          | 112,783                   | 89,395           | 1,179,957                            |
| Northeast.....                         | 25             | 16                                 | 10,155         | 73,189            | 7,901              | 15,865            | 54,062          | 165,194                              | 205,192           | 373,674            | 6,829                     | 12,048           | 178,970                              |
| Pennsylvania.....                      | 12             | 8                                  | 5,543          | 40,934            | 4,525              | 9,264             | 32,014          | 101,358                              | 110,598           | 214,267            | 4,376                     | 5,352            | 91,995                               |
| East North Central.                    | 38             | 24                                 | 41,456         | 308,649           | 31,418             | 60,477            | 219,566         | 609,256                              | 726,242           | 1,348,674          | 63,620                    | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Ohio.....                              | 22             | 16                                 | 30,983         | 235,041           | 23,237             | 45,538            | 164,967         | 437,658                              | 550,291           | 991,134            | 32,557                    | 35,887           | 384,119                              |
| West North Central.                    | 15             | 7                                  | 6,158          | 46,749            | 5,087              | 10,745            | 38,046          | 113,950                              | 147,025           | 258,429            | 4,981                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South Atlantic.....                    | 13             | 8                                  | 3,237          | 22,099            | 2,536              | 5,456             | 16,403          | 43,450                               | 57,598            | 101,397            | (D)                       | } 15,020         | } 257,588                            |
| East South Central.                    | 18             | 14                                 | 10,376         | 74,030            | 8,815              | 18,086            | 61,539          | 168,690                              | 240,997           | 407,364            | (D)                       |                  |                                      |
| West South Central.                    | 16             | 8                                  | 4,570          | 31,150            | 3,893              | 8,133             | 25,973          | 103,710                              | 98,522            | 198,614            | (D)                       |                  |                                      |
| West.....                              | 30             | 19                                 | 9,307          | 65,875            | 6,618              | 13,021            | 44,556          | 117,462                              | 147,514           | 261,521            | 20,165                    | 10,365           | 135,018                              |
| INDUSTRY 3021.—RUBBER FOOTWEAR         |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                             | 53             | 46                                 | 29,147         | 130,361           | 25,951             | 48,168            | 105,763         | 216,959                              | 141,115           | 354,239            | 6,903                     | 20,359           | 149,608                              |
| Northeast.....                         | 37             | 33                                 | 22,225         | 103,282           | 19,841             | 36,845            | 84,224          | 178,461                              | 107,522           | 281,795            | 4,974                     | 15,181           | 119,417                              |
| Maine.....                             | 3              | 3                                  | 763            | 2,202             | 684                | 1,255             | 1,654           | 1,305                                | 4,216             | 5,326              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South Atlantic.....                    | 7              | 5                                  | 3,890          | 14,379            | 3,481              | 6,610             | 11,814          | 21,230                               | 22,168            | 43,878             | 1,296                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| All other divisions.                   | 9              | 8                                  | 3,032          | 12,700            | 2,629              | 4,713             | 9,725           | 17,268                               | 11,425            | 28,566             | 633                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| INDUSTRY 3031.—RECLAIMED RUBBER        |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                             | 13             | 13                                 | 2,010          | 13,598            | 1,658              | 3,145             | 10,413          | 27,378                               | 21,669            | 48,879             | 1,309                     | 2,215            | 20,843                               |
| Middle Atlantic....                    | 4              | 4                                  | 350            | 2,106             | 273                | 520               | 1,475           | 3,839                                | 2,436             | 6,280              | 99                        | 429              | 16,845                               |
| North Central, South and West....      | 9              | 9                                  | 1,660          | 11,492            | 1,385              | 2,625             | 8,938           | 23,539                               | 19,233            | 42,599             | 1,210                     | 1,786            | 16,845                               |
| INDUSTRY 3069.—RUBBER PRODUCTS, N.E.C. |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                             | 1,173          | 620                                | 132,228        | 760,761           | 100,581            | 203,392           | 516,065         | 1,427,022                            | 1,171,331         | 2,597,999          | 64,955                    | 119,565          | 997,254                              |
| New England.....                       | 158            | 90                                 | 21,162         | 123,559           | 15,457             | 31,551            | 78,944          | 229,333                              | 200,049           | 431,769            | 9,672                     | 23,748           | 200,971                              |
| Massachusetts....                      | 85             | 50                                 | 11,991         | 71,337            | 8,613              | 17,675            | 44,998          | 138,350                              | 124,524           | 265,162            | 4,122                     | 13,945           | 120,155                              |
| Rhode Island.....                      | 20             | 11                                 | 3,085          | 17,276            | 2,421              | 4,953             | 12,102          | 29,343                               | 23,115            | 52,413             | 976                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Middle Atlantic....                    | 252            | 121                                | 23,606         | 131,655           | 17,883             | 35,414            | 90,687          | 247,511                              | 172,647           | 420,549            | 9,227                     | 23,504           | 191,567                              |
| New York.....                          | 84             | 29                                 | 5,846          | 28,607            | 4,438              | 8,367             | 18,990          | 56,270                               | 40,118            | 97,142             | 1,811                     | 5,738            | 42,855                               |
| New Jersey.....                        | 105            | 57                                 | 10,828         | 62,649            | 8,177              | 16,375            | 43,989          | 111,266                              | 77,926            | 189,736            | 4,642                     | 12,172           | 103,940                              |
| Pennsylvania.....                      | 63             | 35                                 | 6,932          | 40,399            | 5,268              | 10,672            | 27,708          | 79,975                               | 54,603            | 133,671            | 2,774                     | 5,594            | 44,772                               |
| East North Central.                    | 380            | 215                                | 57,014         | 347,421           | 43,274             | 87,820            | 237,048         | 599,516                              | 526,081           | 1,128,606          | 28,514                    | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Ohio.....                              | 159            | 99                                 | 31,961         | 201,841           | 23,440             | 46,868            | 132,123         | 327,571                              | 298,906           | 630,112            | 17,255                    | 29,223           | 222,262                              |
| Illinois.....                          | 80             | 41                                 | 6,973          | 39,573            | 5,276              | 10,648            | 25,804          | 82,599                               | 61,713            | 144,820            | 4,712                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West North Central.                    | 52             | 22                                 | 3,779          | 20,497            | 3,019              | 6,234             | 15,168          | 44,541                               | 28,939            | 73,541             | 2,236                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South Atlantic.....                    | 83             | 50                                 | 9,455          | 42,785            | 7,872              | 15,891            | 31,493          | 88,012                               | 88,611            | 174,604            | 3,272                     | 7,777            | 58,748                               |
| Maryland.....                          | 12             | 10                                 | 1,826          | 7,724             | 1,546              | 3,099             | 5,740           | 12,929                               | 11,914            | 24,168             | 376                       | 2,099            | 14,148                               |
| Virginia.....                          | 12             | 8                                  | 2,537          | 10,610            | 2,059              | 4,188             | 7,441           | 21,116                               | 19,444            | 40,518             | 745                       | 1,834            | 11,108                               |
| North Carolina....                     | 14             | 5                                  | 1,593          | 7,595             | 1,272              | 2,512             | 5,627           | 19,297                               | 15,743            | 34,876             | 450                       | 1,548            | 14,740                               |
| Georgia.....                           | 27             | 16                                 | 1,408          | 5,319             | 1,203              | 2,515             | 3,670           | 12,849                               | 25,442            | 38,006             | 356                       | 685              | 5,788                                |
| Florida.....                           | 10             | 4                                  | 178            | 600               | 150                | 288               | 421             | 1,151                                | 1,142             | 2,157              | 35                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| East South Central.                    | 30             | 24                                 | 3,266          | 14,476            | 2,690              | 5,664             | 10,358          | 29,590                               | 31,879            | 60,891             | 2,916                     | 1,568            | 14,624                               |
| Tennessee.....                         | 16             | 15                                 | 1,934          | 8,985             | 1,585              | 3,250             | 6,186           | 16,890                               | 23,195            | 39,938             | 2,507                     | 929              | 7,966                                |
| Mississippi.....                       | 5              | 3                                  | 456            | 1,595             | 379                | 813               | 1,187           | 3,413                                | 3,607             | 6,721              | 138                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West South Central.                    | 42             | 19                                 | 2,172          | 10,066            | 1,836              | 3,874             | 7,978           | 19,368                               | 15,734            | 35,227             | 1,824                     | 1,721            | 13,204                               |
| Arkansas.....                          | 7              | 6                                  | 733            | 2,608             | 641                | 1,348             | 2,143           | 5,629                                | 5,720             | 11,435             | 1,038                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West.....                              | 176            | 79                                 | 11,774         | 70,302            | 8,550              | 16,944            | 44,389          | 169,151                              | 107,391           | 272,812            | 7,294                     | 10,124           | 115,479                              |
| California.....                        | 148            | 68                                 | 7,398          | 42,709            | 5,544              | 11,227            | 27,747          | 88,319                               | 71,753            | 159,185            | 3,961                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>             | 1963           |                                    |                |                   |                    |                   |                 | 1958                                 |                   |                    |                           |               |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|---------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |               |                                      |
| INDUSTRY 3079.—PLASTICS PRODUCTS, N.E.C. |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |               |                                      |
| Total.....                               | 4,334          | 1,674                              | 166,315        | 837,572           | 134,327            | 271,976           | 579,990         | 1,660,882                            | 1,522,899         | 3,165,440          | 157,516                   | 116,308       | 928,950                              |
| New England.....                         | 458            | 225                                | 21,869         | 101,664           | 17,910             | 35,358            | 71,169          | 191,722                              | 165,541           | 356,447            | 16,507                    | (2)           | (2)                                  |
| Maine.....                               | 15             | 7                                  | 1,056          | 4,649             | 888                | 1,817             | 3,263           | 9,731                                | 10,821            | 20,488             | (D)                       | 1,017         | 7,723                                |
| New Hampshire....                        | 17             | 12                                 | 1,564          | 6,729             | 1,328              | 2,616             | 4,802           | 11,028                               | 12,371            | 23,430             | 959                       | 343           | 1,690                                |
| Massachusetts....                        | 269            | 136                                | 11,972         | 55,715            | 9,705              | 19,137            | 38,097          | 100,910                              | 86,946            | 187,525            | (D)                       | 11,083        | 72,119                               |
| Connecticut.....                         | 96             | 44                                 | 4,555          | 23,690            | 3,804              | 7,361             | 17,219          | 37,417                               | 34,081            | 71,755             | 4,855                     | 3,920         | 30,813                               |
| Middle Atlantic....                      | 1,265          | 492                                | 45,015         | 225,655           | 36,705             | 74,372            | 157,044         | 417,797                              | 399,021           | 811,965            | 42,482                    | (2)           | (2)                                  |
| New York.....                            | 664            | 233                                | 19,160         | 92,212            | 15,900             | 31,816            | 64,121          | 171,545                              | 152,290           | 320,471            | 14,393                    | (2)           | (2)                                  |
| New Jersey.....                          | 382            | 172                                | 16,793         | 88,622            | 13,534             | 27,862            | 60,755          | 168,035                              | 172,008           | 338,869            | 19,394                    | (2)           | (2)                                  |
| Pennsylvania....                         | 219            | 87                                 | 9,062          | 44,821            | 7,371              | 14,694            | 32,168          | 78,217                               | 152,625           | 152,625            | 8,695                     | 8,320         | 63,729                               |
| East North Central.                      | 1,114          | 501                                | 55,468         | 297,545           | 44,830             | 92,679            | 208,012         | 584,961                              | 529,554           | 1,109,985          | 54,123                    | 38,756        | 331,257                              |
| Ohio.....                                | 293            | 153                                | 16,480         | 91,668            | 13,461             | 28,830            | 66,276          | 189,226                              | 174,095           | 360,943            | 14,604                    | 10,336        | 92,564                               |
| Indiana.....                             | 114            | 48                                 | 7,621          | 38,399            | 6,195              | 12,476            | 27,316          | 72,486                               | 77,918            | 150,340            | 7,375                     | 4,993         | 38,853                               |
| Illinois.....                            | 379            | 175                                | 19,665         | 108,825           | 15,723             | 32,015            | 73,959          | 209,395                              | 163,367           | 371,453            | 22,803                    | 16,311        | 140,440                              |
| Michigan.....                            | 227            | 86                                 | 8,108          | 41,237            | 6,548              | 13,513            | 28,595          | 81,501                               | 78,981            | 159,995            | 7,450                     | 4,302         | 35,588                               |
| Wisconsin.....                           | 101            | 39                                 | 3,594          | 17,416            | 2,903              | 5,845             | 11,866          | 32,353                               | 35,193            | 67,254             | 1,891                     | 2,814         | 23,812                               |
| West North Central.                      | 251            | 89                                 | 8,419          | 41,491            | 6,536              | 12,881            | 27,640          | 76,380                               | 72,787            | 148,938            | 5,975                     | 4,205         | 29,685                               |
| Minnesota.....                           | 90             | 23                                 | 2,425          | 12,613            | 1,832              | 3,755             | 8,065           | 24,715                               | 17,737            | 42,876             | 1,758                     | 1,122         | 7,584                                |
| Iowa.....                                | 29             | 11                                 | 1,711          | 8,145             | 1,411              | 2,702             | 6,078           | 14,437                               | 14,261            | 28,721             | 1,373                     | 890           | 4,358                                |
| Missouri.....                            | 93             | 44                                 | 3,473          | 16,979            | 2,653              | 5,276             | 11,330          | 30,938                               | 35,025            | 65,412             | 2,180                     | 1,687         | 14,213                               |
| Kansas.....                              | 26             | 6                                  | 415            | 1,872             | 340                | 610               | 1,100           | 3,221                                | 3,130             | 6,271              | 327                       | 225           | 1,251                                |
| South Atlantic.....                      | 273            | 88                                 | 11,508         | 54,265            | 8,905              | 18,232            | 35,373          | 114,124                              | 116,587           | 227,901            | (D)                       | (2)           | (2)                                  |
| Delaware.....                            | 12             | 7                                  | 1,549          | 8,448             | 1,101              | 2,247             | 5,248           | 11,707                               | 14,032            | 25,501             | 2,647                     | (2)           | (2)                                  |
| Maryland.....                            | 34             | 19                                 | 2,640          | 13,215            | 1,984              | 4,180             | 8,031           | 21,974                               | 22,153            | 43,330             | 6,343                     | 1,489         | 11,837                               |
| Virginia.....                            | 20             | 10                                 | 2,134          | 8,860             | 1,801              | 3,524             | 6,446           | 19,589                               | 18,217            | 37,301             | 2,284                     | 671           | 4,486                                |
| South Carolina....                       | 15             | 7                                  | 1,838          | 9,911             | 1,294              | 2,725             | 5,811           | 31,318                               | 18,070            | 48,961             | 952                       | (2)           | (2)                                  |
| Georgia.....                             | 32             | 8                                  | 615            | 2,756             | 518                | 1,058             | 2,025           | 6,371                                | 9,808             | 16,436             | 1,161                     | (2)           | (2)                                  |
| Florida.....                             | 111            | 18                                 | 1,149          | 4,941             | 922                | 1,794             | 3,430           | 10,374                               | 9,554             | 19,483             | 923                       | 531           | 3,049                                |
| East South Central.                      | 69             | 31                                 | 4,690          | 20,062            | 3,839              | 7,804             | 14,285          | 78,655                               | 57,543            | 133,409            | (D)                       | (2)           | (2)                                  |
| Mississippi.....                         | 9              | 5                                  | 628            | 2,190             | 567                | 1,131             | 1,739           | 9,891                                | 10,730            | 19,917             | 1,035                     | (2)           | (2)                                  |
| West South Central.                      | 173            | 50                                 | 4,260          | 19,559            | 3,364              | 6,904             | 12,893          | 44,059                               | 44,785            | 88,295             | (D)                       | (2)           | (2)                                  |
| Louisiana.....                           | 13             | 4                                  | 189            | 730               | 156                | 309               | 510             | 3,168                                | 1,267             | 4,503              | 194                       | (2)           | (2)                                  |
| Texas.....                               | 123            | 33                                 | 3,053          | 14,618            | 2,412              | 4,955             | 9,602           | 31,868                               | 35,679            | 67,222             | 2,346                     | (2)           | (2)                                  |
| West.....                                | 731            | 198                                | 15,086         | 77,331            | 12,138             | 23,746            | 53,574          | 153,184                              | 137,081           | 288,500            | 15,792                    | 539           | 2,883                                |
| Colorado.....                            | 27             | 2                                  | 195            | 862               | 153                | 288               | 592             | 1,530                                | 1,079             | 2,604              | 154                       | (2)           | (2)                                  |
| Arizona.....                             | 21             | 4                                  | 255            | 1,164             | 206                | 385               | 802             | 2,060                                | 1,987             | 4,030              | 270                       | (2)           | (2)                                  |
| Washington.....                          | 41             | 5                                  | 359            | 1,939             | 278                | 534               | 1,301           | 3,607                                | 3,158             | 6,740              | 400                       | 254           | 1,927                                |
| Oregon.....                              | 27             | 3                                  | 166            | 762               | 127                | 233               | 488             | 1,309                                | 1,145             | 2,443              | 69                        | 122           | 839                                  |
| California.....                          | 591            | 181                                | 13,894         | 71,711            | 11,194             | 21,966            | 49,734          | 142,562                              | 128,074           | 268,947            | 14,691                    | 8,400         | 72,179                               |

Standard Notes: - Represents Zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State. SIC 3011, Tires and Inner Tubes: New England—Maine, 3 (20-99); Massachusetts, 3 (2,042); Connecticut, 2 (1,000-2,499); Middle Atlantic—New York, 2 (500-999); New Jersey, 3 (20-99); East North Central—Indiana, 5 (1,000-2,499); Illinois, 6 (250-499); Michigan, 3 (6,354); Wisconsin, 2 (1,000-2,499); West North Central—Minnesota, 4 (100-249); Iowa, 4 (3,529); Missouri, 5 (250-499); Kansas, 2 (1,000-2,499); South Atlantic—Maryland, 2 (2,500-4,999); West Virginia, 1 (1-19); North Carolina, 2 (1-19); South Carolina, 1 (20-99); Georgia, 5 (250-499); Florida, 2 (1-19); East South Central—Kentucky, 1 (500-999); Tennessee, 7 (3,729); Alabama, 6 (2,500-4,999); Mississippi, 4 (1,000-2,499); West South Central—Arkansas, 1 (500-999); Oklahoma, 4 (1,000-2,499); Texas, 11 (2,299) Mountain—Colorado, 1 (1,000-2,499); Pacific—Washington, 1 (20-99); Oregon, 2 (20-99); California, 26 (7,173).

SIC 3021, Rubber Footwear: New England—New Hampshire, 3 (1,032); Massachusetts, 8 (7,591); Rhode Island, 6 (2,500-4,999); Connecticut, 2 (5,000-9,999); Middle Atlantic—New York, 7 (1,965); New Jersey, 1 (200-249); Pennsylvania, 7 (1,000-2,499); East North Central—Ohio, 1 (20-99); Indiana, 1 (100-249); Illinois, 1 (1,000-2,499); Wisconsin, 1 (500-999); West North Central—Missouri, 1 (100-249); South Atlantic—Maryland, 2 (2,500-4,999); North Carolina, 1 (250-499); Georgia, 2 (100-249); Florida, 2 (100-249); East South Central—Tennessee, 1 (100-249); Pacific—Oregon, 1 (1-19); California, 2 (500-999).

SIC 3031, Reclaimed Rubber: Middle Atlantic—New York, 2 (250-499); New Jersey, 1 (20-99); Pennsylvania, 1 (20-99); East North Central—Ohio, 4 (500-999); Illinois, 1 (250-499); East South Central—Tennessee, 1 (100-249); Mississippi, 1 (20-99); Pacific—California, 2 (100-249).

SIC 3069, Rubber Products, n.e.c.: New England—Maine, 4 (20-99); New Hampshire, 6 (705); Vermont, 1 (500-999); Connecticut, 42 (2,500-4,999); East North Central—Indiana, 48 (12,636); Michigan, 66 (4,543); Wisconsin, 27 (901); West North Central—Minnesota, 22 (500-999); Iowa, 3 (20-99); Missouri, 19 (1,474); South Dakota, 1 (1-19); Nebraska, 5 (1,000-2,499); Kansas, 2 (20-99); South Atlantic—Delaware, 2 (2,500-4,999); West Virginia, 2 (250-499); South Carolina, 4 (250-499); East South Central—Kentucky, 4 (679); Alabama, 5 (197); West South Central—Oklahoma, 3 (20-99); Texas, 32 (1,405); Mountain—Colorado, 6 (2,500-4,999); New Mexico, 1 (100-249); Arizona, 4 (20-99); Utah, 5 (250-499); Pacific—Washington, 7 (20-99); Oregon, 5 (100-249).

SIC 3079, Plastics Products, n.e.c.: New England—Vermont, 11 (500-999); Rhode Island, 50 (1,000-2,499); West North Central—South Dakota, 2 (100-249); Nebraska, 11 (100-249); South Atlantic—District of Columbia, 2 (1-19); West Virginia, 5 (20-99); North Carolina, 42 (1549); East South Central—Kentucky, 17 (500-999); Tennessee, 29 (1,000-2,499); Alabama, 14 (1,599); West South Central—Arkansas, 16 (250-499); Oklahoma, 21 (500-999); Mountain—Montana, 2 (1-19); Idaho, 2 (1-19); Wyoming, 1 (1-19); New Mexico, 2 (20-99); Utah, 8 (20-99); Pacific—Alaska, 1 (1-19); Hawaii, 8 (20-99).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.



TABLE 3. Detailed Statistics: 1963

| Item   | Tires and inner tubes (SIC 3011) | Rubber footwear (SIC 3021) | Reclaimed rubber (SIC 3031) | Rubber products, n.e.c. (SIC 3069) | Plastics products, n.e.c. (SIC 3079) |
|--|----------------------------------|----------------------------|-----------------------------|------------------------------------|--------------------------------------|
| Primary product specialization ratio <sup>1</sup> .....        | (D)                              | .93                        | (D)                         | .86                                | .92                                  |
| Coverage ratio <sup>2</sup> .....                              | .99                              | .90                        | .77                         | .89                                | .80                                  |
| Establishments, total.....number..                             | 155                              | 53                         | 13                          | 1,173                              | 4,334                                |
| With 1 to 19 employees.....do....                              | 59                               | 7                          | -                           | 553                                | 2,660                                |
| With 20 to 99 employees.....do....                             | 35                               | 8                          | 6                           | 369                                | 1,277                                |
| With 100 employees or more.....do....                          | 61                               | 38                         | 7                           | 251                                | 397                                  |
| Proprietors and working partners.....do....                    | 37                               | 4                          | 2                           | 300                                | 1,308                                |
| All employees (average for the year).....do....                | 85,259                           | 29,147                     | 2,010                       | 132,228                            | 166,315                              |
| Payroll (all employees), total for year.....\$1,000..          | 621,741                          | 130,361                    | 13,598                      | 760,761                            | 837,572                              |
| Production workers:  |                                  |                            |                             |                                    |                                      |
| Average for the year.....number..                              | 66,268                           | 25,951                     | 1,658                       | 100,581                            | 134,327                              |
| March.....do....   | 68,381                           | 23,657                     | 1,667                       | 100,635                            | 129,048                              |
| May.....do....   | 66,972                           | 27,314                     | 1,674                       | 100,914                            | 131,793                              |
| August.....do....  | 64,695                           | 26,494                     | 1,666                       | 99,913                             | 136,961                              |
| November.....do....  | 65,024                           | 26,339                     | 1,625                       | 100,862                            | 139,506                              |
| Man-hours.....1,000..  | 131,783                          | 48,168                     | 3,145                       | 203,392                            | 271,976                              |
| January-March.....do....                                       | 34,876                           | 12,671                     | 803                         | 51,323                             | 64,605                               |
| April-June.....do....  | 34,018                           | 12,676                     | 803                         | 51,273                             | 67,447                               |
| July-September.....do....                                      | 30,286                           | 10,687                     | 760                         | 48,488                             | 68,716                               |
| October-December.....do....                                    | 32,603                           | 12,134                     | 779                         | 52,308                             | 71,208                               |
| Wages.....\$1,000..  | 460,145                          | 105,763                    | 10,413                      | 516,065                            | 579,990                              |
| Cost of materials, etc., total.....do....                      | 1,623,090                        | 141,115                    | 21,669                      | 1,171,331                          | 1,522,899                            |
| Materials, parts, containers, and supplies consumed.....do.... | 1,324,820                        | 113,771                    | 17,190                      | 1,008,067                          | 1,380,471                            |
| Cost of resales.....do....                                     | 263,603                          | 22,727                     | 1,804                       | 117,868                            | 56,613                               |
| Fuels consumed.....do....                                      | 13,979                           | 981                        | 552                         | 16,108                             | 13,238                               |
| Electric energy:   |                                  |                            |                             |                                    |                                      |
| Purchased:   |                                  |                            |                             |                                    |                                      |
| Quantity.....million kw.-hrs..                                 | 1,949                            | 230                        | 242                         | 1,833                              | 2,551                                |
| Cost.....\$1,000..   | 20,097                           | 2,587                      | 2,103                       | 22,657                             | 36,030                               |
| Generated less sold.....million kw.-hrs..                      | 745                              | (D)                        | -                           | 76                                 | 13                                   |
| Contract work.....\$1,000..                                    | 591                              | 1,049                      | 20                          | 6,631                              | 36,547                               |
| Value of shipments (including resales), total.....do....       | 2,949,673                        | 354,239                    | 48,879                      | 2,597,999                          | 3,165,440                            |
| Value of resales.....do....                                    | (D)                              | 25,050                     | (D)                         | 152,300                            | 68,599                               |
| Value added by manufacture, adjusted.....do....                | 1,321,712                        | 216,959                    | 27,378                      | 1,427,022                          | 1,660,882                            |
| Manufacturers' inventories:                                    |                                  |                            |                             |                                    |                                      |
| Beginning of year, total.....do....                            | 411,351                          | 82,969                     | 5,232                       | 325,907                            | 334,182                              |
| Finished products.....do....                                   | 260,563                          | 61,975                     | 2,422                       | 148,319                            | 140,293                              |
| Work-in-process.....do....                                     | 47,892                           | 6,412                      | 259                         | 70,567                             | 61,660                               |
| Materials, supplies, fuel, etc.....do....                      | 102,896                          | 14,582                     | 2,551                       | 107,021                            | 132,229                              |
| End of year, total.....do....                                  | 413,217                          | 86,390                     | 5,823                       | 323,446                            | 361,048                              |
| Finished products.....do....                                   | 255,291                          | 65,074                     | 2,514                       | 148,782                            | 153,427                              |
| Work-in-process.....do....                                     | 48,293                           | 7,148                      | 335                         | 70,458                             | 66,867                               |
| Materials, supplies, fuel, etc.....do....                      | 109,633                          | 14,168                     | 2,974                       | 104,206                            | 140,754                              |
| Expenditures for plant and equipment, total.....do....         | 113,759                          | 7,189                      | 1,314                       | 68,343                             | 168,981                              |
| New, total.....do....  | 112,783                          | 6,903                      | 1,309                       | 64,955                             | 157,516                              |
| New structures and additions to plant.....do....               | 14,640                           | 822                        | 53                          | 12,752                             | 30,297                               |
| New machinery and equipment.....do....                         | 98,143                           | 6,081                      | 1,256                       | 52,203                             | 127,219                              |
| Used plant and equipment.....do....                            | 976                              | 286                        | 5                           | 3,388                              | 11,465                               |
| Selected operating ratios:                                     |                                  |                            |                             |                                    |                                      |
| Payroll/Total employment.....                                  | 7,292                            | 4,473                      | 6,765                       | 5,753                              | 5,036                                |
| Production workers/Total employment.....                       | .78                              | .89                        | .82                         | .76                                | .81                                  |
| Man-hours/Production workers.....                              | 1,989                            | 1,856                      | 1,897                       | 2,022                              | 2,025                                |
| Production worker wages/Man-hours.....                         | 3.49                             | 2.20                       | 3.31                        | 2.54                               | 2.13                                 |
| Cost of materials and payrolls/Total value of shipments.....   | .76                              | .77                        | .72                         | .74                                | .75                                  |
| Cost of materials/Total value of shipments.....                | .55                              | .40                        | .44                         | .45                                | .48                                  |
| Adjusted value added/Total employment.....                     | 15,502                           | 7,444                      | 13,621                      | 10,792                             | 9,986                                |
| Salaries and wages/Adjusted value added.....                   | .47                              | .60                        | .50                         | .53                                | .50                                  |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item                                     | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3011.—TIRES AND INNER TUBES     |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..              | 155                   | 32                                 | 13               | 14                 | 22                 | 13                 | 12                   | 12                   | 9                    | 22                       | 6                        |
| All employees:                           |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                         | 85,259                | 46                                 | 91               | 194                | 711                | 965                | 2,087                | 4,372                | 6,846                | 36,855                   | 33,092                   |
| Payroll.....\$1,000..                    | 621,741               | 268                                | 450              | 1,023              | 4,550              | 5,908              | 10,274               | 31,082               | 46,101               | 272,955                  | 249,130                  |
| Value added, adjusted.....do....         | 1,321,712             | 519                                | 1,031            | 2,517              | 14,526             | 12,400             | 21,745               | 53,607               | 121,608              | 633,844                  | 459,915                  |
| Value of shipments.....do....            | 2,949,673             | 1,189                              | 1,839            | 4,983              | 35,042             | 34,973             | 45,152               | 138,173              | 251,621              | 1,415,756                | 1,020,945                |
| Capital expenditures, new.....do....     | 112,783               | <sup>1</sup> 24,733                | (D)              | (D)                | (D)                | (D)                | (D)                  | 18,270               | 4,029                | 33,195                   | 32,556                   |
| INDUSTRY 3021.—RUBBER FOOTWEAR           |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..              | 53                    | 7                                  | -                | -                  | 3                  | 5                  | 14                   | 10                   | 6                    | 5                        | 3                        |
| All employees:                           |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                         | 29,147                | 7                                  | -                | -                  | 544                | (D)                | 2,212                | 3,880                | 4,099                | 6,258                    | 12,147                   |
| Payroll.....\$1,000..                    | 130,361               | 36                                 | -                | -                  | 2,172              | (D)                | 7,834                | 12,852               | 16,020               | 29,356                   | 62,091                   |
| Value added, adjusted.....do....         | 216,959               | 90                                 | -                | -                  | 3,531              | (D)                | 14,831               | 18,258               | 20,411               | 49,846                   | 109,992                  |
| Value of shipments.....do....            | 354,239               | 160                                | -                | -                  | 6,020              | (D)                | 25,983               | 35,797               | 41,863               | 85,872                   | 158,544                  |
| Capital expenditures, new.....do....     | 6,903                 | <sup>2</sup> 2,429                 | -                | -                  | (D)                | (D)                | (D)                  | (D)                  | 498                  | 1,366                    | 2,610                    |
| INDUSTRY 3031.—RECLAIMED RUBBER          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..              | 13                    | -                                  | -                | -                  | 4                  | 2                  | 4                    | 3                    | -                    | -                        | -                        |
| All employees:                           |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                         | 2,010                 | -                                  | -                | -                  | 277                | (D)                | 709                  | 1,024                | -                    | -                        | -                        |
| Payroll.....\$1,000..                    | 13,598                | -                                  | -                | -                  | 1,494              | (D)                | 4,813                | 7,291                | -                    | -                        | -                        |
| Value added, adjusted.....do....         | 27,378                | -                                  | -                | -                  | 3,804              | (D)                | 10,231               | 13,343               | -                    | -                        | -                        |
| Value of shipments.....do....            | 48,879                | -                                  | -                | -                  | 6,390              | (D)                | 17,200               | 25,289               | -                    | -                        | -                        |
| Capital expenditures, new.....do....     | 1,309                 | -                                  | -                | -                  | 186                | (D)                | 1,123                | (D)                  | -                    | -                        | -                        |
| INDUSTRY 3069.—RUBBER PRODUCTS, N.E.C.   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..              | 1,173                 | 265                                | 130              | 158                | 230                | 139                | 125                  | 69                   | 34                   | 19                       | 4                        |
| All employees:                           |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                         | 132,228               | 492                                | 876              | 2,225              | 7,503              | 9,579              | 19,499               | 23,709               | 23,614               | 24,417                   | 20,314                   |
| Payroll.....\$1,000..                    | 760,761               | 2,716                              | 4,258            | 11,581             | 37,118             | 50,540             | 105,777              | 130,227              | 134,374              | 146,463                  | 137,707                  |
| Value added, adjusted.....do....         | 1,427,022             | 6,252                              | 9,806            | 24,895             | 84,536             | 109,326            | 199,296              | 242,787              | 254,534              | 266,046                  | 229,544                  |
| Value of shipments.....do....            | 2,597,999             | 12,777                             | 21,190           | 51,910             | 172,197            | 211,510            | 365,188              | 422,370              | 446,723              | 483,294                  | 410,840                  |
| Capital expenditures, new.....do....     | 64,955                | <sup>1</sup> 1,770                 | 2,158            | (D)                | 4,010              | 3,898              | 11,193               | 12,588               | 9,977                | 10,240                   | 9,121                    |
| INDUSTRY 3079.—PLASTICS PRODUCTS, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..              | 4,334                 | 1,365                              | 618              | 677                | 854                | 423                | 294                  | 78                   | 20                   | 5                        | -                        |
| All employees:                           |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                         | 166,315               | 2,640                              | 4,142            | 9,538              | 27,019             | 29,662             | 45,523               | 27,561               | 13,238               | 6,992                    | -                        |
| Payroll.....\$1,000..                    | 837,572               | 11,492                             | 18,421           | 43,688             | 123,603            | 145,799            | 230,913              | 144,020              | 74,985               | 44,651                   | -                        |
| Value added, adjusted.....do....         | 1,660,882             | 26,839                             | 34,974           | 89,623             | 244,761            | 291,099            | 456,933              | 277,512              | 149,854              | 89,287                   | -                        |
| Value of shipments.....do....            | 3,165,440             | 51,611                             | 70,927           | 170,629            | 469,091            | 576,070            | 893,354              | 513,247              | 279,615              | 140,896                  | -                        |
| Capital expenditures, new.....do....     | 157,516               | <sup>3</sup> 6,291                 | 3,580            | 7,552              | 22,847             | 26,786             | 48,390               | 25,759               | 10,069               | 6,242                    | -                        |

- Represents zero. n.e.c. Not elsewhere classified.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

<sup>1</sup>Includes capital expenditures of approximately \$5-\$10 million for plants under construction but not in operation.

<sup>2</sup>Includes capital expenditures of approximately \$500-\$1,000 thousand for plants under construction but not in operation.

<sup>3</sup>Includes capital expenditures of approximately \$1-\$2 million for plants under construction but not in operation.



TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year            | Value of shipments |                  |                    |                        |  | Value of primary product shipments |                       |                          |  |
|-----------|-------------------------------------|--------------------|------------------|--------------------|------------------------|--|------------------------------------|-----------------------|--------------------------|--|
|           |                                     | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio                 | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                                     |
|           |                                     | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | $\frac{\text{Col. B}}{\text{Col. B+C}}$<br>(percent) | (\$1,000)                          | (\$1,000)             | (\$1,000)                | $\frac{\text{Col. B}}{\text{Col. F}}$<br>(percent) |
|           |                                     | A                  | B                | C                  | D                      | E  | F                                  | G                     | H                        | I  |
| 3011      | Tires and inner tubes.....1963..    | 2,949,673          | 2,398,549        | (D)                | (D)                    | (D)  | 2,419,789                          | 2,398,549             | 21,240                   | 99   |
|           | 1958..                              | 2,577,788          | 2,122,024        | 197,273            | 258,491                | 91   | 2,145,326                          | 2,122,024             | 23,302                   | 99   |
| 3021      | Rubber footwear.....1963..          | 354,239            | 305,475          | 23,085             | 25,679                 | 93   | 339,584                            | 305,475               | 34,109                   | 90   |
|           | 1958..                              | 229,439            | (D)              | (D)                | 10,929                 | (D)  | 213,684                            | (D)                   | (D)                      | (D)  |
| 3031      | Reclaimed rubber.....1963..         | 48,879             | 42,720           | (D)                | (D)                    | (D)  | 55,249                             | 42,720                | 12,529                   | 77   |
|           | 1958..                              | 39,260             | 34,137           | 2,181              | 2,942                  | 94   | 47,646                             | 34,137                | 13,509                   | 72   |
| 3069      | Rubber products, n.e.c.....1963..   | 2,597,999          | 2,084,965        | 342,829            | 170,205                | 86   | 2,355,614                          | 2,084,965             | 270,649                  | 89   |
|           | 1958..                              | 1,885,274          | 1,508,525        | 253,280            | 123,469                | 86   | 1,759,077                          | 1,508,525             | 250,552                  | 86   |
| 3079      | Plastics products, n.e.c.....1963.. | 3,165,440          | 2,812,355        | 250,615            | 102,470                | 92   | 3,494,584                          | 2,812,355             | 682,229                  | 80   |
|           | 1958..                              | 1,867,877          | 1,631,533        | 159,708            | 76,636                 | 91   | 1,914,467                          | 1,631,533             | 282,934                  | 85   |

Note: See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.  
n.e.c. Not elsewhere classified.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars except for ranges (shown in parentheses) which are expressed in millions of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous

receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                                    | Class of products and miscellaneous receipts  | All industries | Tires and inner tubes (SIC 3011) | Rubber footwear (SIC 3021) | Reclaimed rubber (SIC 3031) | Rubber products, n.e.c. (SIC 3069) | Other industries |
|---|---|----------------|----------------------------------|----------------------------|-----------------------------|------------------------------------|------------------|
| RUBBER AND MISCELLANEOUS PLASTICS PRODUCTS INDUSTRY |   |                |                                  |                            |                             |                                    |                  |
|   | Total shipments and receipts of the industry.....                                     | (X)            | 2,949,673                        | 354,239                    | 48,879                      | 2,597,999                          | (X)              |
|   | Rubber products.....  | 5,170,236      | 2,518,068                        | 314,664                    | (D)                         | 2,128,505                          | (D)              |
| 30111   | Passenger car and motorcycle pneumatic tires.....                                     | 1,285,885      | (over 1,000)                     | -                          | -                           | (under 2)                          | -                |
| 30112   | Truck and bus (and off-the-road) pneumatic tires.....                                 | 659,516        | (over 500)                       | -                          | -                           | (under 2)                          | -                |
| 30113   | Other pneumatic tires and solid tires.....  | 186,792        | 177,714                          | -                          | -                           | (under 2)                          | (under 2)        |
| 30114   | All inner tubes.....  | 95,065         | (over 50-100)                    | -                          | -                           | (under 2)                          | -                |
| 30115   | Tread rubber, tires sundries, and repair materials....                                | 192,531        | 182,081                          | -                          | -                           | 5,135                              | 15,315           |
| 30210   | Rubber footwear.....  | 339,584        | -                                | 305,475                    | -                           | (over 2)                           | (2)              |
| 30310   | Reclaimed rubber.....   | 55,249         | (2-5)                            | -                          | 42,720                      | (under 2)                          | (3)              |
| 30691   | Rubber belts and belting.....   | 179,016        | (over 2)                         | -                          | -                           | (100-200)                          | (under 2)        |
| 30692   | Rubber hose and tubing.....   | 297,365        | 9,325                            | -                          | -                           | 267,854                            | 420,186          |
| 30693   | Sponge and foam rubber goods.....   | 226,433        | (10-20)                          | (over 2)                   | -                           | 195,107                            | (6)              |
| 30694   | Rubber floor and wall covering.....   | 93,238         | 9,479                            | -                          | -                           | 79,798                             | 63,961           |
| 30695   | Mechanical rubber goods, n.e.c.....   | 850,747        | 36,260                           | (under 2)                  | -                           | 776,634                            | (7)              |
| 30696   | Rubber heels and soles.....   | 136,213        | (under 2)                        | (under 2)                  | -                           | 122,337                            | (8)              |
| 30697   | Druggist and medical sundries.....  | 79,232         | (under 2)                        | -                          | -                           | 71,129                             | (9)              |
| 30698   | Other rubber goods, n.e.c.....  | 450,956        | (20-50)                          | (under 2)                  | (2-5)                       | 366,493                            | 1046,477         |
| 30690   | Rubber products, n.s.k.....   | 42,414         | (under 2)                        | -                          | -                           | (20-50)                            | (under 2)        |
|   | Other products.....   | (X)            | (50-100)                         | (10-20)                    | (under 2)                   | 299,289                            | (X)              |
| 28424   | Polishing preparations and related products.....                                      | (X)            | -                                | -                          | -                           | 2,168                              | (X)              |
| 28911   | Glues and adhesives and sizes.....  | (X)            | (under 2)                        | -                          | -                           | 4,029                              | (X)              |
| 30791   | Unsupported plastics film, sheets, sheeting, rods, tubes, and other stock shapes..... | (X)            | -                                | -                          | -                           | 13,502                             | (X)              |
| 30792   | Foamed plastics products.....   | (X)            | (over 2)                         | -                          | -                           | 28,280                             | (X)              |
| 30795   | Industrial plastics products.....   | (X)            | (under 2)                        | (under 2)                  | -                           | 18,787                             | (X)              |
| 30796   | Construction plastics products.....   | (X)            | -                                | -                          | -                           | 8,470                              | (X)              |
| 30798   | Consumer and commercial plastics products, n.e.c.....                                 | (X)            | (under 2)                        | (2-5)                      | -                           | 28,720                             | (X)              |
| 32932   | Gaskets, all types.....   | (X)            | (over 2)                         | -                          | -                           | 22,846                             | (X)              |
| 35442   | Industrial molds.....   | (X)            | -                                | -                          | -                           | 2,845                              | (X)              |
| 35552   | Other printing trades machinery, including parts and attachments.....                 | (X)            | (over 2)                         | -                          | -                           | 5,497                              | (X)              |
| 39410   | Games and toys, except dolls and children's vehicles..                                | (X)            | (under 2)                        | -                          | -                           | 2,148                              | (X)              |
| 39492   | Other sporting and athletic goods.....  | (X)            | -                                | -                          | -                           | 16,486                             | (X)              |
|   | Other secondary products.....   | (X)            | (over 2)                         | (11)                       | (under 2)                   | 12145,511                          | (X)              |
|   | Miscellaneous receipts.....   | (X)            | (D)                              | 25,679                     | (D)                         | 170,205                            | (X)              |
|   | Resales.....  | (X)            | (D)                              | 25,050                     | (D)                         | 152,300                            | (X)              |
|   | Contract work.....  | (X)            | (D)                              | (D)                        | (D)                         | 8,819                              | (X)              |
|   | Other miscellaneous receipts.....   | (X)            | (D)                              | (D)                        | (D)                         | 9,086                              | (X)              |

| Prod. class code          | Class of products and miscellaneous receipts   | All industries | Plastics products, n.e.c. (SIC 3079) | Other industries | Prod. class code                    | Class of products and miscellaneous receipts                    | All industries | Plastics products, n.e.c. (SIC 3079) | Other industries |
|---------------------------|--|----------------|--------------------------------------|------------------|-------------------------------------|---|----------------|--------------------------------------|------------------|
| PLASTICS PRODUCTS, N.E.C. |  |                |                                      |                  | PLASTICS PRODUCTS, N.E.C.—Continued |   |                |                                      |                  |
|                           | Total shipments and receipts of the industry.....                                      | (X)            | 3,165,440                            | (X)              |                                     | Secondary products.....   | (X)            | 250,615                              | (X)              |
|                           | Primary products.....  | 3,494,584      | 2,812,355                            | 682,229          | 22953                               | Other impregnated and coated fabrics (except rubbercoated)....  | (X)            | 11,951                               | (X)              |
| 30791                     | Unsupported plastics film, sheets, sheetings, rods, tubes, and other stock shapes..... | 688,090        | 397,020                              | 291,070          | 23920                               | Other housefurnishings.....                                     | (X)            | 2,756                                | (X)              |
| 28211                     |  |                |                                      |                  | 24995                               | Wood products, n.e.c.....                                       | (X)            | 3,644                                | (X)              |
| 30792                     | Foam plastics products.....  | 261,210        | 198,825                              | 62,385           | 25190                               | Household furniture, n.e.c.....                                 | (X)            | 17,017                               | (X)              |
| 30793                     | Laminated sheets, rods, and tubes..  | 244,138        | 231,859                              | 12,279           | 26432                               | Specialty bags and liners.....                                  | (X)            | 5,230                                | (X)              |
| 30794                     | Packaging and shipping containers, plastics.....                                       | 441,841        | 401,573                              | 40,268           | 26451                               | Office supplies (filing accessories) and miscellaneous products | (X)            | (over 2)                             | (X)              |
| 30795                     | Industrial plastics products.....  | 832,761        | 734,950                              | 97,811           | 26552                               | Fiber cans, tubes, and other fiber products.....                | (X)            | (10-15)                              | (X)              |
| 30796                     | Construction plastics products...  | 283,832        | 231,469                              | 52,363           | 28214                               | Thermosetting resins and plastics materials.....                | (X)            | (over 2)                             | (X)              |
| 30797                     | Plastics dinnerware, tableware and kitchenware.....                                    | 147,580        | 136,619                              | 10,961           | 28217                               | Custom compounding of purchased resins.....                     | (X)            | 24,516                               | (X)              |
| 30798                     | Consumer and commercial plastics products, n.e.c.....                                  | 457,064        | 348,040                              | 109,024          | 28219                               | Plastics and resin materials, n.e.c.                            | (X)            | 7,310                                | (X)              |
| 30790                     | Plastics products, n.s.k.....  | 138,068        | 132,000                              | 6,068            | 28242                               | Other noncellulosic synthetic organic fibers.....               | (X)            | (over 2)                             | (X)              |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code | Class of products and miscellaneous receipts  | All industries | Plastics products, n.e.c. (SIC 3079) | Other industries | Prod. class code | Class of products and miscellaneous receipts   | All industries                     | Plastics products, n.e.c. (SIC 3079) | Other industries |          |
|------------------|---|----------------|--------------------------------------|------------------|------------------|--|------------------------------------|--------------------------------------|------------------|----------|
|                  | PLASTICS PRODUCTS, N.E.C.—Continued   |                |                                      |                  |                  | PLASTICS PRODUCTS, N.E.C.—Continued  |                                    |                                      |                  |          |
|                  | Secondary products—Continued  |                |                                      |                  |                  | List of other industries with over \$2 million shipments of each primary product class—continued |                                    |                                      |                  |          |
| 28519            | Miscellaneous paint products.....   | (X)            | (over 2)                             | (X)              |                  | 2293 Padding and upholstery filling.....   | (X)                                | (X)                                  | 6,035            |          |
| 30692            | Rubber hose and tubing.....   | (X)            | (5-10)                               | (X)              | 30792            | 2821 Plastics materials and resins.....  | (X)                                | (X)                                  | (10-20)          |          |
| 30693            | Sponge and foam rubber goods.....   | (X)            | 8,415                                | (X)              |                  | 3011 Tires and inner tubes.....  | (X)                                | (X)                                  | (over 2)         |          |
| 30694            | Rubber floor and wall covering...   | (X)            | 3,848                                | (X)              |                  | 3069 Rubber products, n.e.c.....   | (X)                                | (X)                                  | 21,027           |          |
| 30698            | Other rubber goods, n.e.c.....  | (X)            | 2,907                                | (X)              |                  | 3293 Gaskets and insulations.....  | (X)                                | (X)                                  | (over 2)         |          |
| 31310            | Boot and shoe cut stock and findings.....   | (X)            | 2,529                                | (X)              |                  | 2821 Plastics materials and resins.....  | (X)                                | (X)                                  | (over 2)         |          |
| 32922            | Asbestos friction materials.....  | (X)            | (over 2)                             | (X)              | 30793            | 3299 Nonmetallic products, n.e.c.  | (X)                                | (X)                                  | (over 2)         |          |
| 34443            | Other sheet metal work.....   | (X)            | (over 2)                             | (X)              |                  | 2654 Sanitary food containers...   | (X)                                | (X)                                  | (over 2)         |          |
| 34944            | Other metal valves and fittings, except plumbers' brass goods and fittings.....                   | (X)            | (over 2)                             | (X)              | 30794            | 2834 Pharmaceutical preparations.  | (X)                                | (X)                                  | (over 2)         |          |
| 35442            | Industrial molds.....   | (X)            | 20,316                               | (X)              |                  | 3461 Metal stampings.....  | (X)                                | (X)                                  | 16,812           |          |
| 35690            | General industrial machinery, n.e.c.....  | (X)            | (over 2)                             | (X)              | 30795            | 2295 Coated fabric, not rubberized.....  | (X)                                | (X)                                  | 2,287            |          |
| 35990            | Carburetors, pistons, and other machine shop products.....  | (X)            | 2,253                                | (X)              |                  | 2641 Paper coating and glazing...  | (X)                                | (X)                                  | (over 2)         |          |
| 39410            | Games and toys, except dolls and children's vehicles.....   | (X)            | 17,576                               | (X)              |                  | 2821 Plastics materials and resins.....  | (X)                                | (X)                                  | 7,151            |          |
| 39492            | Other sporting and athletic goods   | (X)            | 2,184                                | (X)              |                  | 3069 Rubber products, n.e.c.....   | (X)                                | (X)                                  | 21,558           |          |
| 39630            | Buttons and parts, except of precious or semiprecious metals and precious or semiprecious stones. | (X)            | 3,906                                | (X)              |                  | 3259 Structural clay products, n.e.c.....  | (X)                                | (X)                                  | (over 2)         |          |
| 39932            | Nonelectric signs and advertising displays.....   | (X)            | 3,089                                | (X)              |                  | 3296 Mineral wool.....   | (X)                                | (X)                                  | (10-20)          |          |
|                  | Other secondary products.....   | (X)            | 67,229                               | (X)              |                  | 3461 Metal stampings.....  | (X)                                | (X)                                  | 3,900            |          |
|                  | Miscellaneous receipts.....   | (X)            | 102,470                              | (X)              |                  | 3679   | 3679 Electronic components, n.e.c. | (X)                                  | (X)              | (over 2) |
|                  | Resales.....  | (X)            | 68,599                               | (X)              |                  | 3729 Aircraft equipment, n.e.c....   | (X)                                | (X)                                  | (over 2)         |          |
|                  | Contract work.....  | (X)            | 24,725                               | (X)              |                  | 3941 Games and toys.....   | (X)                                | (X)                                  | 3,167            |          |
|                  | Other miscellaneous receipts.....   | (X)            | 9,146                                | (X)              |                  | 3981 Brooms and brushes.....   | (X)                                | (X)                                  | (2-5)            |          |
|                  | List of other industries with over \$2 million shipments of each primary product class:           |                |                                      |                  | 30797            | 2643 Bags, except textile bags...  | (X)                                | (X)                                  | (over 2)         |          |
| 30791            | 2295 Coated fabric, not rubberized.....   | (X)            | (X)                                  | 16,523           | 30798            | 2851 Paints and allied products..  | (X)                                | (X)                                  | (over 2)         |          |
|                  | 2641 Paper coating and glazing..  | (X)            | (X)                                  | (over 2)         |                  | 3069 Rubber products, n.e.c.....   | (X)                                | (X)                                  | 5,993            |          |
|                  | 2643 Bags, except textile bags..  | (X)            | (X)                                  | 12,236           |                  | 3259 Structural clay products, n.e.c.....  | (X)                                | (X)                                  | (5-10)           |          |
|                  | 2821 Plastics materials and resins.....   | (X)            | (X)                                  | 52,755           |                  | 3729 Aircraft equipment, n.e.c....   | (X)                                | (X)                                  | (over 2)         |          |
|                  | 3292 Asbestos products.....   | (X)            | (X)                                  | (over 2)         |                  | 3981 Brooms and brushes.....   | (X)                                | (X)                                  | (over 2)         |          |
|                  | 3729 Aircraft equipment, n.e.c....  | (X)            | (X)                                  | (5-10)           |                  | 2821 Plastics materials and resins.....  | (X)                                | (X)                                  | 3,254            |          |
|                  | 3861 Photographic equipment.....  | (X)            | (X)                                  | (5-10)           |                  | 3021 Rubber footwear.....  | (X)                                | (X)                                  | 3,954            |          |
|                  |   |                |                                      |                  |                  | 3069 Rubber products, n.e.c.....   | (X)                                | (X)                                  | 34,932           |          |
|                  |   |                |                                      |                  |                  | 3429 Hardware, n.e.c.....  | (X)                                | (X)                                  | (over 2)         |          |
|                  |   |                |                                      |                  |                  | 3452 Bolts, nuts, rivets, and washers.....   | (X)                                | (X)                                  | (over 2)         |          |
|                  |   |                |                                      |                  |                  | 3461 Metal stampings.....  | (X)                                | (X)                                  | (15-20)          |          |
|                  |   |                |                                      |                  |                  | 3941 Games and toys.....   | (X)                                | (X)                                  | 3,282            |          |
|                  |   |                |                                      |                  |                  | 3981 Brooms and brushes.....   | (X)                                | (X)                                  | (over 2)         |          |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Includes \$2 million or more shipped by establishments classified in industry 3949, Sporting and Athletic Goods, but exact data are withheld to avoid disclosing individual company figures.

<sup>2</sup>Includes \$2 million or more shipped by establishments classified in industry 3142, House Slippers, but exact data are withheld to avoid disclosing individual company figures.

<sup>3</sup>Includes \$2 million or more shipped by establishments classified in industry 2818, Organic Chemicals, N.E.C., and in industry 3633, Household Laundry Equipment, but exact data are withheld to avoid disclosing individual company figures.

<sup>4</sup>Includes \$2 million or more shipped by establishments classified in each of the following industries: 3079, Plastics Products, N.E.C.; 3494, Valves and Pipe Fittings; 3561, Pumps and Compressors; and 3644, Noncurrent Carrying Devices. Exact data are withheld to avoid disclosing individual company figures.

<sup>5</sup>Includes \$3,166 thousand shipped by establishments classified in industry 2291, Felt Goods, N.E.C., and \$8,415 thousand shipped by establishments classified in industry 3079, Plastics Products, N.E.C.

<sup>6</sup>Includes \$3,848 thousand shipped by establishments classified in industry 3079, Plastics Products, N.E.C.

<sup>7</sup>Includes \$4,306 thousand shipped by establishments classified in industry 3121, Industrial Leather Belting, \$12,480 thousand shipped by establishments classified in industry 3293, Gaskets and Insulations, and \$12,831 thousand shipped by establishments classified in industry 3555, Printing Trades Machinery. In addition, \$2 million or more was shipped by establishments classified in industry 3842, Surgical Appliances and Supplies, but exact data are withheld to avoid disclosing individual company figures.

<sup>8</sup>Includes \$7,326 thousand shipped by establishments classified in industry 3131, Footwear Cut Stock. In addition, \$2 million or more was shipped by establishments classified in industry 2821, Plastics Materials and Resins, but exact data are withheld to avoid disclosing individual company figures.

<sup>9</sup>Includes \$2 million or more shipped by establishments classified in industry 2342, Corsets and Allied Garments, but exact data are withheld to avoid disclosing individual company figures.

<sup>10</sup>Includes \$2,871 thousand shipped by establishments classified in industry 2295, Coated Fabric, Not Rubberized, \$2,373 thousand shipped by establishments classified in industry 2821, Plastics Materials and Resins, and \$2,907 thousand shipped by establishments classified in industry 3079, Plastics Products, N.E.C. In addition, shipments of \$2 million or more were made by establishments classified in the following industries, but exact data are withheld to avoid disclosing individual company figures: 2291, Felt Goods, N.E.C.; 2641, Paper Coating and Glazing; 2818, Organic Chemicals, N.E.C.; and 2891, Glue and Gelatin.

<sup>11</sup>Includes shipments of \$2 million or more in product class 31310, Boot and shoe cut stock and findings, but exact data are withheld to avoid disclosing individual company figures.

<sup>12</sup>Includes shipments of \$2 million or more in each of the following product classes, but exact data are withheld to avoid disclosing individual company figures: 22562, Circular knit fabrics; 22952, Resin-coated fabrics; 26414, Pressure sensitive tape; 26495, Other converted paper and board products; 28430, Surface active and finishing agents; 28993, Essential oils, fireworks, and pyrotechnics, and chemicals and chemical preparations, n.e.c.; 31210, Industrial leather belting and packing; 32926, Vinyl asbestos floor tile; 32933, Packing, except leather, rubber, and metal, and asbestos insulations; 34612, Job stampings, except automotive; 34942, Fittings and unions for piping systems; 37175, Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufacturers; 37291, Other aircraft parts and auxiliary equipment; 37292, Guided missile components and subassemblies, n.e.c.; 38421, Surgical, orthopedic, and prosthetic appliances and supplies; and 38423, Personal industrial safety devices.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Unit of measure | 1963                                   |   |                 | 1958                                   |   |                 |       |
|--------------|---|-----------------|--|---|-----------------|--|---|-----------------|-------|
|              |   |                 | Production for all purposes (quantity) | Total shipments, including interplant transfers |                 | Production for all purposes (quantity) | Total shipments, including interplant transfers |                 |       |
|              |   |                 |  | Quantity  | Value (\$1,000) |  | Quantity  | Value (\$1,000) |       |
| 3011- --     | TIRES AND INNER TUBES, TOTAL.....   |                 | (X)                                    | (X)   | 2,419,789       | (X)                                    | (X)   | 2,145,326       |       |
| 30111 11     | Passenger car and motorcycle pneumatic tires (casings).....   | 1,000 tires..   | 123,549                                | 121,921   | 1,285,885       | 84,675                                 | 84,188  | 1,076,828       |       |
| 30112 11     | Truck and bus (and off-the-highway) pneumatic tires.....  | do.....         | 16,957                                 | 16,535  | 659,516         | 12,999                                 | 13,804  | 601,952         |       |
| 30113 --     | Other pneumatic tires and solid tires.....  |                 | (X)                                    | (X)   | 186,792         | (X)                                    | (X)   | 185,455         |       |
| 30113 11     | Aircraft.....   | 1,000 tires..   | 570                                    | 575   | 31,388          | 477                                    | 463   | 43,715          |       |
| 30113 13     | Tractor and implement (farm, garden, and industrial).....   | do.....         | 3,616                                  | 3,498   | 90,186          | 3,636                                  | 3,474   | 94,969          |       |
| 30113 15     | Industrial.....   | do.....         | 3,152                                  | 3,068   | 21,888          | 1,782                                  | 1,838   | 12,994          |       |
| 30113 17     | Bicycle casings and single tube tires.....  | do.....         | 9,609                                  | 9,706   | 10,167          | 8,243                                  | 8,152   | 9,352           |       |
|              | Solid tires:  |                 |  |   |                 |  |   |                 |       |
| 30113 33     | Industrial and highway.....   | do.....         | }                                      | (S)   | 17,096          | {                                      | (NA)  | (NA)            | 8,254 |
| 30113 35     | Bogie, idler, and support rollers.....  | 1,000 units..   |  |   |                 |  | 270   | 222             | 1,789 |
|              | Other solid and semipneumatic:  |                 |  |   |                 |  |   |                 |       |
| 30113 41     | 2.00" and larger, except hand lawn mower, baby carriage, tricycle, juvenile, etc.....   | 1,000 tires..   | (S)                                    | (S)   | 5,235           | (S)                                    | (S)   | 2,908           |       |
| 30113 51     | Less than 2.00", including hand lawn mower, baby carriage, tricycle, juvenile, etc.....   | do.....         | (S)                                    | (S)   | 10,832          | (S)                                    | (S)   | 11,474          |       |
| 30114 --     | All inner tubes.....  |                 | (X)                                    | (X)   | 95,065          | (X)                                    | (X)   | 100,185         |       |
| 30114 21     | Passenger car and motor vehicle.....  | 1,000 tubes..   | 28,397                                 | 28,826  | 39,672          | 33,737                                 | 33,027  | 48,575          |       |
| 30114 23     | Truck and bus, including off-the-highway.....   | do.....         | 11,431                                 | 11,488  | 36,285          | 8,572                                  | 8,813   | 32,780          |       |
| 30114 24     | Aircraft.....   | do.....         | 281                                    | 284   | 1,885           | 278                                    | 276   | 2,705           |       |
| 30114 25     | Tractor and implement (farm, garden, and industrial).....   | do.....         | 2,767                                  | 2,798   | 8,159           | 2,721                                  | 2,694   | 8,916           |       |
| 30114 26     | Industrial.....   | do.....         | 2,621                                  | 2,552   | 2,885           | 1,991                                  | 1,888   | 2,077           |       |
| 30114 27     | Bicycle.....  | do.....         | 9,808                                  | 10,057  | 6,179           | 8,746                                  | 8,451   | 5,132           |       |
| 30115 --     | Tread rubber, tire sundries, and repair materials, total.....   |                 | (X)                                    | (X)   | 192,531         | (X)                                    | (X)   | 180,906         |       |
| 30115 11     | Tread rubber (camelback), including slab rubber for use in automatic tread rubber extruding machines.....   | 1,000 lbs....   | 515,372                                | 518,433   | 140,729         | 489,993                                | 487,211   | 138,442         |       |
| 30115 31     | Tire flaps.....   | 1,000 units..   | 12,218                                 | 9,142   | 12,578          | 11,152                                 | 10,866  | 8,116           |       |
| 30115 39     | Other tire sundries, repair materials and tiring.....   | 1,000 lbs....   | (S)                                    | (S)   | 35,894          | (S)                                    | (S)   | 30,147          |       |
| 30115 00     | Tread rubber, tire sundries, and repair materials, n.s.k.....   |                 | (X)                                    | (X)   | 3,330           | (X)                                    | (X)   | 4,201           |       |
| 3021- --     | RUBBER FOOTWEAR, TOTAL.....   |                 | (X)                                    | (X)   | 339,584         | (X)                                    | (X)   | 213,684         |       |
|              | Canvas footwear, total.....   | 1,000 pairs..   | 152,885                                | 148,335   | 268,216         | 71,409                                 | 70,001  | 135,274         |       |
| 30210 11     | Bals.....   | do.....         | 23,943                                 | 24,125  | 48,786          | 20,392                                 | 19,855  | 42,821          |       |
| 30210 13     | Oxfords.....  | do.....         | 102,011                                | 97,585  | 179,618         | 40,717                                 | 39,999  | 72,114          |       |
| 30210 15     | Specialty shoes.....  | do.....         | 26,931                                 | 26,625  | 39,812          | 10,300                                 | 10,147  | 20,339          |       |
|              | Waterproof footwear, total.....   | do.....         | 20,869                                 | 21,314  | 65,526          | 25,437                                 | 26,469  | 76,750          |       |
| 30210 21     | Boots.....  | do.....         | 1,475                                  | 1,540   | 9,653           | 3,014                                  | 3,009   | 14,347          |       |
| 30210 31     | Lumberman and pacs.....   | do.....         | 1,060                                  | 1,139   | 8,260           | 1,691                                  | 1,672   | 10,277          |       |
|              | Arctics and gaiters:  |                 |  |   |                 |  |   |                 |       |
| 30210 41     | Buckle and automatic, except style.....   | do.....         | 4,602                                  | 4,840   | 16,705          | 6,500                                  | 6,914   | 24,004          |       |
| 30210 45     | Style, rubber and cloth.....  | do.....         | 6,115                                  | 6,190   | 18,526          | 6,011                                  | 6,503   | 15,124          |       |
| 30210 51     | Light and heavy rubbers.....  | do.....         | 7,617                                  | 7,605   | 12,382          | 8,221                                  | 8,371   | 12,998          |       |
| 30210 98     | Other rubber footwear and rubber footwear, n.s.k....  |                 | (NA)                                   | (NA)  | 5,842           | (NA)                                   | (NA)  | 1,660           |       |
| 3031- --     | RECLAIMED RUBBER.....   |                 | (X)                                    | (X)   | 55,249          | (X)                                    | (X)   | 147,646         |       |
| 30310 11     | Reclaimed rubber (any vulcanizable material, except reclaimed residue or "mud," derived from processing or treatment of natural or synthetic (chemical) vulcanized scrap rubber)..... | 1,000 lbs....   | 632,872                                | 533,044   | 55,249          | 582,568                                | 501,963   | 47,123          |       |
| 30310 51     | Crumb or ground rubber.....   | do.....         | (1)                                    | (1)   | (1)             | 14,197                                 | 10,030  | 523             |       |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure | 1963                                   |   |                 | 1958                                   |   |                 |
|--------------|--|-----------------|--|---|-----------------|--|---|-----------------|
|              |  |                 | Production for all purposes (quantity) | Total shipments, including interplant transfers |                 | Production for all purposes (quantity) | Total shipments, including interplant transfers |                 |
|              |  |                 |  | Quantity  | Value (\$1,000) |  | Quantity  | Value (\$1,000) |
| 3069- --     | FABRICATED RUBBER PRODUCTS, N.E.C., TOTAL.....                             |                 | (X)                                    | (X)   | 2,355,614       | (X)                                    | (X)   | 1,759,077       |
| 30691 --     | Rubber belts and belting, total.....                                       |                 | (X)                                    | (X)   | 179,016         | (X)                                    | (X)   | 137,930         |
| 30691 11     | Conveyor and elevator.....   | 1,000 lbs...    | 61,970                                 | 62,679  | 59,459          | 52,373                                 | 52,199  | 52,403          |
|              | Transmission:  |                 |  |   |                 |  |   |                 |
| 30691 13     | Flat.....  | ...do.....      | (S)                                    | (S)   | 14,391          | 8,837                                  | 9,924   | 11,228          |
|              | V-belt:  |                 |  |   |                 |  |   |                 |
|              | Motor vehicles:  |                 |  |   |                 |  |   |                 |
| 30691 21     | Pounds.....  | ...do.....      | 17,665                                 | 19,734  | 35,164          | 13,189                                 | 12,408  | 21,902          |
| 30691 25     | Units.....   | 1,000 units..   | 45,399                                 | -   | -               | (S)                                    | -   | -               |
| 30691 31     | Industrial, except fractional.....   | 1,000 lbs...    | 14,552                                 | 15,039  | 28,350          | 11,103                                 | 11,162  | 22,651          |
| 30691 41     | Agricultural, except fractional.....                                       | ...do.....      | 4,439                                  | 4,370   | 7,403           | 3,217                                  | 2,932   | 4,794           |
| 30691 51     | Fractional horsepower.....   | ...do.....      | 9,003                                  | 9,941   | 19,990          | 8,420                                  | 8,080   | 16,125          |
| 30691 59     | Other V-belt.....  | ...do.....      | (S)                                    | (S)   | 2,587           |  |   |                 |
| 30691 69     | Other transmission.....  | ...do.....      |  |   |                 | (S)                                    | (S)   | 8,450           |
| 30691 98     | All other rubber belts and belting.....                                    | ...do.....      | (S)                                    | (S)   | 9,420           |  |   |                 |
| 30691 00     | Rubber belts and belting, n.s.k.....                                       | ...do.....      | (X)                                    | (X)   | 2,252           | (X)                                    | (X)   | 377             |
| 30692 --     | Rubber hose and tubing, total.....   |                 | (X)                                    | (X)   | 297,365         | (X)                                    | (X)   | 180,655         |
|              | Hose:  |                 |  |   |                 |  |   |                 |
|              | Horizontal reinforced:   |                 |  |   |                 |  |   |                 |
| 30692 13     | Textile.....   | 1,000 lbs...    | (S)                                    | (S)   | 34,378          | (NA)                                   | (NA)  | (NA)            |
| 30692 15     | Wire.....  | ...do.....      | 31,393                                 | 30,996  | 42,285          | 17,585                                 | 18,052  | 23,420          |
|              | Vertical braided:  |                 |  |   |                 |  |   |                 |
| 30692 21     | Garden.....  | ...do.....      | 34,234                                 | 33,943  | 13,583          | 20,890                                 | 19,786  | 7,581           |
| 30692 27     | Radiator.....  | ...do.....      | 51,152                                 | 48,797  | 24,944          | 45,833                                 | 44,480  | 23,019          |
| 30692 29     | Other.....   | ...do.....      | 70,087                                 | 66,514  | 43,951          | (S)                                    | (S)   | 33,686          |
|              | Wrapped:   |                 |  |   |                 |  |   |                 |
| 30692 31     | Hand built.....  | ...do.....      | 17,637                                 | 17,623  | 22,135          | 13,781                                 | 13,662  | 15,043          |
| 30692 39     | Machine.....   | ...do.....      | 15,763                                 | 15,516  | 16,564          | (S)                                    | (S)   | 17,142          |
|              | Circular woven-fire:   |                 |  |   |                 |  |   |                 |
| 30692 41     | Specification.....   | ...do.....      | 10,425                                 | 10,315  | 9,539           | 6,218                                  | 6,393   | 6,751           |
| 30692 45     | Commercial.....  | ...do.....      | (S)                                    | (S)   | 7,058           | (S)                                    | (S)   | 5,305           |
| 30692 49     | Other.....   | ...do.....      | (S)                                    | (S)   | 1,751           | (S)                                    | (S)   | 3,131           |
| 30692 61     | Gasoline.....  | ...do.....      | 12,216                                 | 11,999  | 12,561          | 12,027                                 | 12,319  | 11,687          |
| 30692 71     | Other rubber hose, including railroad specification.....                   | ...do.....      | (S)                                    | (S)   | 51,872          | (S)                                    | (S)   | 25,371          |
| 30692 81     | Tubing, except medical and surgical and reinforced                         | ...do.....      | 20,320                                 | 20,374  | 12,004          | 12,519                                 | 12,452  | 6,987           |
| 30692 00     | Rubber hose and tubing, n.s.k.....   | ...do.....      | (X)                                    | (X)   | 4,740           | (X)                                    | (X)   | 1,532           |
| 30693 --     | Sponge and foam rubber goods, total.....                                   |                 | (X)                                    | (X)   | 226,433         | (X)                                    | (X)   | 200,751         |
|              | Latex foam:  |                 |  |   |                 |  |   |                 |
| 30693 11     | Automobile seating.....  | 1,000 lbs...    | 36,857                                 | 37,028  | 26,056          | 36,610                                 | 37,528  | 29,618          |
|              | Upholstery:  |                 |  |   |                 |  |   |                 |
| 30693 21     | Fully molded cushions.....   | ...do.....      |  |   |                 | 54,703                                 | 58,274  | 47,103          |
| 30693 29     | Other, including slab stock, cored building stock, etc.....                | ...do.....      | 74,139                                 | 71,193  | 36,796          | 19,789                                 | 20,316  | 12,309          |
|              | Mattress cores (except polyurethane):                                      |                 |  |   |                 |  |   |                 |
| 30693 31     | Pounds.....  | ...do.....      | 24,137                                 | -   | -               | 23,938                                 | -   | -               |
| 30693 35     | Units.....   | 1,000 units..   | 595                                    | 593   | 12,568          | 737                                    | 768   | 19,839          |
|              | Pillows:   |                 |  |   |                 |  |   |                 |
| 30693 41     | Pounds.....  | 1,000 lbs...    | (S)                                    | -   | -               | 12,310                                 | -   | -               |
| 30693 45     | Units.....   | 1,000 units..   | 2,948                                  | 2,948   | 4,766           | 7,987                                  | 7,762   | 15,278          |
| 30693 51     | Carpet and rug cushions.....   | 1,000 sq. yds.  | (S)                                    | (S)   | 8,251           |  |   |                 |
| 30693 69     | Other latex foam products, including hospital padding and topper pads..... | 1,000 lbs...    | (S)                                    | (S)   | 59,119          | 35,476                                 | 36,895  | 30,168          |
|              | Chemically blown sponge:   |                 |  |   |                 |  |   |                 |
| 30693 72     | Carpet and rug cushions.....   | 1,000 sq. yds.  | 50,806                                 | 50,670  | 43,480          |  |   |                 |
| 30693 79     | Other.....   | 1,000 lbs...    | 46,525                                 | 49,631  | 31,845          | 119,009                                | 120,192   | 39,436          |
| 30693 00     | Sponge and foam rubber goods, n.s.k.....                                   | ...do.....      | (X)                                    | (X)   | 3,552           | (X)                                    | (X)   | 7,000           |
| 30694 --     | Rubber floor and wall covering, total.....                                 |                 | (X)                                    | (X)   | 93,238          | (X)                                    | (X)   | 99,376          |
|              | Mats, matting and stair treads:  |                 |  |   |                 |  |   |                 |
| 30694 21     | Rolls.....   | 1,000 sq. yds.  | (S)                                    | (S)   | 7,295           | (S)                                    | (S)   | 7,918           |
|              | Individual mats:   |                 |  |   |                 |  |   |                 |
| 30694 23     | Automotive.....  | ...do.....      | (S)                                    | (S)   | 49,899          | (S)                                    | (S)   | 41,942          |
| 30694 25     | All other, including stair treads.....                                     | ...do.....      | (S)                                    | (S)   | 12,378          | (S)                                    | (S)   | 13,537          |
|              | Other flooring:  |                 |  |   |                 |  |   |                 |
| 30694 27     | Sheet goods.....   | ...do.....      | (S)                                    | (S)   | 6,305           | (S)                                    | (S)   | 5,671           |
| 30694 28     | Tile.....  | ...do.....      | 5,719                                  | 5,822   | 12,587          | (S)                                    | (S)   | 20,001          |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | 1963                                   |   |                 | 1958                                   |   |                 |
|--------------|---|-----------------|--|---|-----------------|--|---|-----------------|
|              |   |                 | Production for all purposes (quantity) | Total shipments, including interplant transfers |                 | Production for all purposes (quantity) | Total shipments, including interplant transfers |                 |
|              |   |                 |  | Quantity  | Value (\$1,000) |  | Quantity  | Value (\$1,000) |
| 3069- --     | FABRICATED RUBBER PRODUCTS, N.E.C.—Continued  |                 |  |   |                 |  |   |                 |
| 30694 --     | Rubber floor and wall covering—Continued  |                 |  |   |                 |  |   |                 |
| 30694 29     | Wall coverings, including core base, wainscoting, etc.....                          | 1,000sq. yds.   | (S)                                    | (S)   | 4,579           | 8,038                                  | 7,837   | 10,307          |
| 30694 00     | Rubber floor and wall covering, n.s.k.....  |                 | (X)                                    | (X)   | 195             | (X)                                    | (X)   |                 |
| 30695 --     | Mechanical rubber goods, n.e.c., total.....   |                 | (X)                                    | (X)   | 850,747         | (X)                                    | (X)   | 534,671         |
|              | Hard rubber mechanical goods:   |                 |  |   |                 |  |   |                 |
|              | Battery, jars, boxes, and parts:  |                 |  |   |                 |  |   |                 |
| 30695 11     | Jars and boxes.....   | 1,000 units..   | 33,055                                 | 32,242  | 33,828          | 19,775                                 | 20,803  | 21,940          |
| 30695 15     | Parts.....  |                 | (X)                                    | (X)   | 24,692          | (X)                                    | (X)   | 21,485          |
| 30695 18     | Other.....  |                 | (X)                                    | (X)   | 25,473          | (X)                                    | (X)   | 11,755          |
|              | Other rubber mechanical goods (except printer's rolls and ink rollers and gaskets): |                 |  |   |                 |  |   |                 |
|              | Molded:   |                 |  |   |                 |  |   |                 |
| 30695 21     | Automotive.....   | 1,000 lbs....   | (S)                                    | (S)   | 141,822         | (S)                                    | (S)   | 174,416         |
| 30695 23     | Adhered to metal, except automotive.....  | ..do.....       | (S)                                    | (S)   | 42,110          |  |   |                 |
| 30695 29     | Other.....  | ..do.....       | (S)                                    | (S)   | 118,027         |  |   |                 |
|              | Extrusion and lathe cut (except tubing):  |                 |  |   |                 |  |   |                 |
| 30695 33     | Extrusions only.....  | ..do.....       | (S)                                    | (S)   | 78,515          | (S)                                    | (S)   | 35,785          |
| 30695 35     | Lathe cut.....  | ..do.....       | (S)                                    | (S)   | 15,907          | (S)                                    | (S)   | 11,904          |
| 30695 41     | O-rings.....  | ..do.....       | (S)                                    | (S)   | 37,768          | (S)                                    | (S)   | 24,089          |
| 30695 45     | Packing (for sealing moving parts).....   | ..do.....       | (S)                                    | (S)   | 69,796          | (S)                                    | (S)   | 38,586          |
| 30695 51     | Pressure sensitive tape, including friction....                                     | ..do.....       | (S)                                    | (S)   | 23,885          | (S)                                    | (S)   | 20,285          |
| 30695 71     | Rolls, covered, including all industry rolls except graphic arts.....               |                 | (X)                                    | (X)   | 21,448          | (X)                                    | (X)   | 16,903          |
| 30695 81     | Tank blocks, treads, and band tracks.....   |                 | (X)                                    | (X)   | 44,197          | (X)                                    | (X)   | 11,165          |
| 30695 83     | Fuel cells.....   |                 | (X)                                    | (X)   | 30,403          | (X)                                    | (X)   | 42,499          |
| 30695 85     | Boats, pontoons, and life rafts.....  |                 | (X)                                    | (X)   | 10,765          | (X)                                    | (X)   | 6,281           |
| 30695 98     | Other, including sheet rubber and jar rings....                                     |                 | (X)                                    | (X)   | 102,275         | (X)                                    | (X)   | 85,709          |
| 30695 00     | Mechanical rubber goods, n.e.c., n.s.k.....   |                 | (X)                                    | (X)   | 29,836          | (X)                                    | (X)   | 11,869          |
| 30696 --     | Rubber heels and soles, total.....  |                 | (X)                                    | (X)   | 136,213         | (X)                                    | (X)   | 134,856         |
|              | Shoe products rubber, elastomer resin:  |                 |  |   |                 |  |   |                 |
| 30696 11     | Heels.....  | 1,000 pairs..   | 200,723                                | 201,104   | 30,736          | 287,973                                | 283,408   | 41,470          |
| 30696 31     | Soles.....  | ..do.....       | 140,795                                | 140,371   | 49,075          | 135,808                                | 131,184   | 45,414          |
| 30696 51     | Soling slabs and top lift sheets.....   | 1,000 sq. ft.   | 174,711                                | 170,675   | 55,484          | 148,190                                | 143,671   | 47,972          |
| 30696 00     | Shoe products rubber, elastomer resin, n.s.k....                                    |                 | (X)                                    | (X)   | 918             | (X)                                    | (X)   | -               |
| 30697 --     | Druggist and medical sundries, total.....   |                 | (X)                                    | (X)   | 79,232          | (X)                                    | (X)   | 56,953          |
|              | Rubber druggist and medical sundries including household gloves:                    |                 |  |   |                 |  |   |                 |
| 30697 11     | Water bottles, fountain syringes, and combinations.....                             | Gross.....      | 56,159                                 | 56,648  | 9,270           | 30,145                                 | 30,464  | 5,352           |
| 30697 31     | Nipples and pacifiers.....  | ..do.....       | 822,240                                | 845,724   | 5,741           | 763,209                                | 696,923   | 4,635           |
|              | Gloves, including rubberized:   |                 |  |   |                 |  |   |                 |
| 30697 51     | Household.....  | Dozen pairs..   | 1,865,534                              | 1,846,915                                       | 10,782          | 1,378,471                              | 1,395,486                                       | 8,632           |
| 30697 61     | Surgical.....   | ..do.....       | 4,968,379                              | 4,763,541                                       | 13,947          | 2,404,983                              | 2,299,824                                       | 7,780           |
| 30697 75     | Prophylactics (including rubber and other materials).....                           | Dozen.....      | 53,411,937                             | 50,357,330                                      | 17,319          | (X)                                    | (X)   | 30,187          |
| 30697 76     | Diaphragms, separate and in kits.....   | Number.....     | (S)                                    | (S)   | 2,152           |  |   |                 |
| 30697 79     | Other, including ice bags and caps, and medical-surgical tubing.....                |                 | (X)                                    | (X)   | 17,796          |  |   |                 |
| 30697 00     | Druggist and medical sundries, n.s.k.....   |                 | (X)                                    | (X)   | 2,225           | (X)                                    | (X)   | 367             |
| 30698 --     | Other rubber goods, n.e.c., total.....  |                 | (X)                                    | (X)   | 450,956         | (X)                                    | (X)   | 392,308         |
|              | Rubber coated fabrics:  |                 |  |   |                 |  |   |                 |
| 30698 14     | Garment fabrics.....  | 1,000 sq. yds.  | (S)                                    | (S)   | 7,274           | 13,801                                 | 13,781  | 6,506           |
| 30698 16     | Shoe and slipper fabrics.....   | ..do.....       | (S)                                    | (S)   | 11,601          | 21,964                                 | 21,980  | 9,691           |
| 30698 17     | Other coated fabrics, including automotive and furniture upholstery.....            | ..do.....       | (S)                                    | (S)   | 36,329          | (S)                                    | (S)   | 22,579          |
|              | Rubber clothing:  |                 |  |   |                 |  |   |                 |
| 30698 41     | Industrial rubber gloves.....   | Dozen pair..    | 1,663,391                              | 1,628,585                                       | 12,513          | 817,683                                | 820,350   | 7,206           |
| 30698 55     | Bathing and shower caps.....  | Gross.....      | (S)                                    | (S)   | 4,641           | 69,302                                 | 66,996  | 5,360           |
| 30698 58     | Other rubber clothing (rainwear, aprons, dress shields, etc.).....                  |                 | (X)                                    | (X)   | 10,094          | (X)                                    | (X)   | 3,006           |
| 30698 61     | Thread bare.....  | 1,000 lbs....   | 19,860                                 | 18,844  | 25,296          | 15,139                                 | 15,415  | 22,267          |
|              | Cement for sale as such:  |                 |  |   |                 |  |   |                 |
| 30698 64     | Latex type.....   | 1,000 gals....  | (S)                                    | (S)   | 49,032          | (S)                                    | (S)   | 28,669          |
| 30698 65     | Solvent type.....   | ..do.....       | (S)                                    | (S)   | 38,380          | (S)                                    | (S)   | 44,835          |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure | 1963  |   |                 | 1958                                   |   |                 |         |      |
|--------------|--|-----------------|---|---|-----------------|--|---|-----------------|---------|------|
|              |  |                 | Production for all purposes (quantity)                      | Total shipments, including interplant transfers |                 | Production for all purposes (quantity) | Total shipments, including interplant transfers |                 |         |      |
|              |  |                 |   | Quantity  | Value (\$1,000) |  | Quantity  | Value (\$1,000) |         |      |
| 3069- --     | FABRICATED RUBBER PRODUCTS, N.E.C.—Continued   |                 |   |   |                 |  |   |                 |         |      |
| 30698 --     | Other rubber goods, n.e.c.—Continued   |                 |   |   |                 |  |   |                 |         |      |
|              | Balloons:  |                 |   |   |                 |  |   |                 |         |      |
| 30698 68     | Toy and advertising.....   | Gross.....      | (S)   | (S)   | 12,841          | }                                      | (S)   | (S)             | 11,584  |      |
| 30698 69     | Meteorological.....  | ...do.....      | (S)   | (S)   | 2,692           |  |   |                 |         |      |
|              | Stationers' sundries:  |                 |   |   |                 |  |   |                 |         |      |
| 30698 73     | Bands.....   | 1,000 lbs....   | (S)   | (S)   | 7,550           | (S)                                    | (S)   | 7,039           |         |      |
| 30698 74     | Other, including finger cots, erasers, excluding pencil plugs.....                       | ...do.....      | (S)   | (S)   | 5,236           | (S)                                    | (S)   | 4,284           |         |      |
| 30698 79     | Balls, except tennis, bowling, golf, footballs, and other inflatable athletic balls..... |                 | (X)   | (X)   | 2,629           | (X)                                    | (X)   | 5,629           |         |      |
| 30698 81     | Toys, except balloons, balls, and dolls.....   |                 | (X)   | (X)   | 8,238           | (X)                                    | (X)   | 6,124           |         |      |
| 30698 91     | Compounds, or mixtures for sale or interplant transfers.....                             |                 | (X)   | (X)   | 118,396         | (X)                                    | (X)   | 78,136          |         |      |
| 30698 98     | Other rubber goods, including rubber brushes, combs, mouthpieces, etc.....               |                 | (X)   | (X)   | 85,503          | (X)                                    | (X)   | 109,892         |         |      |
| 30698 00     | Other rubber goods, n.e.c., n.s.k.....   |                 | (X)   | (X)   | 12,711          | (X)                                    | (X)   | 19,501          |         |      |
| 30690 00     | Fabricated rubber products, n.e.c., n.s.k.....   |                 | (X)   | (X)   | 42,414          | (X)                                    | (X)   | 21,577          |         |      |
|              | Product  |                 | Value of shipments including interplant transfers (\$1,000) |   | 1963            | 1958                                   |   |                 |         |      |
| 3079- --     | PLASTICS PRODUCTS, N.E.C.:   |                 |   |   |                 |  |   |                 |         |      |
|              | As reported in census of manufactures <sup>3</sup> .....                                 |                 |   |   |                 |  |   |                 |         |      |
|              | As reported in Current Industrial Reports M30D.....                                      |                 |   |   |                 |  |   |                 |         |      |
|              | Unsupported plastics film, sheets, sheeting, rods, tubes, and other stock shapes:        |                 |   |   |                 |  |   |                 |         |      |
|              | As reported in census of manufactures <sup>3</sup> .....                                 |                 |   |   |                 |  |   |                 |         |      |
| 30791 --     | Made from purchased resins.....  |                 |   |   |                 |  |   |                 |         |      |
| 28211 --     | Made from resins produced in the same establishment.....                                 |                 |   |   |                 |  |   |                 |         |      |
|              | As reported in Current Industrial Reports M30D.....                                      |                 |   |   |                 |  |   |                 |         |      |
| 30791 --     | Made from purchased resins.....  |                 |   |   |                 |  |   |                 |         |      |
| 28211 --     | Made from resins produced in the same establishment.....                                 |                 |   |   |                 |  |   |                 |         |      |
|              | Unsupported film, sheets, and sheeting, total.....                                       |                 |   |   |                 |  |   |                 |         |      |
|              | Cellulosic, total.....   |                 |   |   |                 |  |   |                 |         |      |
| 30791 10     | Less than 3.0 mils and not specified by gauge.....                                       |                 |   |   |                 |  |   |                 | 56,771  | (NA) |
| 30791 11     |  |                 |   |   |                 |  |   |                 | 34,308  | (NA) |
| 28211 1-     | 3.0 mils to 9.9 mils.....  |                 |   |   |                 |  |   |                 | 11,134  | (NA) |
| 30791 13     |  |                 |   |   |                 |  |   |                 | 11,329  | (NA) |
| 30791 15     | 10.0 mils and over.....  |                 |   |   |                 |  |   |                 | 167,691 | (NA) |
| 28211 5-     |  |                 |   |   |                 |  |   |                 | 126,175 | (NA) |
| 30791 21     | Polyethylene, total.....   |                 |   |   |                 |  |   |                 | 30,814  | (NA) |
| 28211 21     |  |                 |   |   |                 |  |   |                 | 4,299   | (NA) |
| 30791 23     | Less than 3.0 mils.....  |                 |   |   |                 |  |   |                 | 6,403   | (NA) |
| 28211 23     |  |                 |   |   |                 |  |   |                 | 15,847  | (NA) |
| 30791 25     | 3.0 mils to 9.9 mils.....  |                 |   |   |                 |  |   |                 | 14,665  | (NA) |
| 28211 25     |  |                 |   |   |                 |  |   |                 | 1,182   | (NA) |
| 30791 20     | 10.0 mils and over.....  |                 |   |   |                 |  |   |                 | 18,456  | (NA) |
| 28211 20     |  |                 |   |   |                 |  |   |                 | 7,099   | (NA) |
| 30791 31     | Not specified by gauge.....  |                 |   |   |                 |  |   |                 | 11,357  | (NA) |
| 28211 31     |  |                 |   |   |                 |  |   |                 | 2,665   | (NA) |
| 30791 33-    | Polypropylene, total.....  |                 |   |   |                 |  |   |                 | 183,569 | (NA) |
| 35           |  |                 |   |   |                 |  |   |                 | 39,132  | (NA) |
| 30791 41     | Less than 3.0 mils.....  |                 |   |   |                 |  |   |                 | 44,818  | (NA) |
| 28211 41     |  |                 |   |   |                 |  |   |                 | 9,601   | (NA) |
| 30791 43     | 3.0 mils to 9.9 mils.....  |                 |   |   |                 |  |   |                 |         |      |
| 30791 45     |  |                 |   |   |                 |  |   |                 |         |      |
| 28211 45     | 10.0 mils and over.....  |                 |   |   |                 |  |   |                 |         |      |
| 30791 51     |  |                 |   |   |                 |  |   |                 |         |      |
| 30791 55     | Styrene, copolymer, all gauges.....  |                 |   |   |                 |  |   |                 |         |      |
|              |  |                 |   |   |                 |  |   |                 |         |      |
| 30791 61     | Vinyl and vinyl copolymer, total.....  |                 |   |   |                 |  |   |                 |         |      |
| 28211 61     |  |                 |   |   |                 |  |   |                 |         |      |
| 30791 63     | Less than 3.0 mils.....  |                 |   |   |                 |  |   |                 |         |      |
| 28211 63     |  |                 |   |   |                 |  |   |                 |         |      |
|              | 3.0 mils to 9.9 mils.....  |                 |   |   |                 |  |   |                 |         |      |
|              |  |                 |   |   |                 |  |   |                 |         |      |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Value of shipments including interplant transfers (\$1,000) |         |
|--------------|--|---|---------|
|              |  | 1963  | 1958    |
| 3079- --     | PLASTICS PRODUCTS, N.E.C.—Continued  |   |         |
| 30791 --     | Unsupported plastics film, sheets, sheeting, rods, tubes, and other stock shapes—Continued   |   |         |
| 28211 --     |  |   |         |
|              | As reported in Current Industrial Reports M30D—Continued                                     |   |         |
|              | Unsupported film, sheets, and sheeting—Continued   |   |         |
|              | Vinyl and vinyl copolymer—Continued  |   |         |
| 30791 65     | 10.0 mils and over.....  | 67,318  | (NA)    |
| 28211 65     |  | 7,031   | (NA)    |
| 30791 60     | Not specified by gauge.....  | 15,669  | (NA)    |
| 28211 60     |  |   |         |
| 30791 70-77  | Other unsupported plastic film, sheets, and sheeting, all gauges.....                        | 135,632   | (NA)    |
| 28211 71-77  |  |   |         |
|              | Unsupported plastics rods, tubes, and other stock shapes (excluding foam), total.....        | 76,629  | (NA)    |
| 30791 81     | Acrylate and methacrylate.....   | 3,487   | (NA)    |
| 30791 83     | Cellulosics.....   | 9,816   | (NA)    |
| 28211 83     |  |   |         |
| 30791 85     | Polyamide (nylon).....   | 4,936   | (NA)    |
| 30791 87     | Polyethylene.....  | 7,093   | (NA)    |
| 30791 89     | Polypropylene.....   | 3,163   | (NA)    |
| 30791 91     | Polystyrene.....   | 6,320   | (NA)    |
| 30791 93     | Styrene copolymer.....   | 1,397   | (NA)    |
| 30791 95     | Vinyl and vinyl copolymer.....   | 19,226  | (NA)    |
| 28211 95     |  |   |         |
| 30791 97     | Other unsupported plastics rods, tubes, and other stock shapes.....                          | 21,191  | (NA)    |
| 30791 00     | Unsupported plastics film, sheets, sheeting, rods, tubes, and other stock shapes, n.s.k..... | 14,727  | (NA)    |
| 28210 0-     |  |   |         |
| 30792 --     | Foamed plastics products, total:   |   |         |
|              | As reported in census of manufactures <sup>3</sup> .....                                     | 261,210   | 54,040  |
|              | As reported in Current Industrial Reports M30D.....  | 246,451   | (NA)    |
| 30792 11     | Mattress cores (uncovered only).....   | 8,430   | (NA)    |
| 30792 21     | Formed and slab stock for pillows, sealing, cushioning, etc.....                             | 127,168   | (NA)    |
| 30792 31     | Insulation.....  | 48,873  | (NA)    |
| 30792 98     | Other foamed plastics products.....  | 51,601  | (NA)    |
| 30792 00     | Foamed plastics products, n.s.k.....   | 10,379  | (NA)    |
| 30793 --     | Laminated sheets, rods, and tubes, total:  |   |         |
|              | As reported in census of manufactures <sup>3</sup> .....                                     | 244,138   | 162,924 |
|              | As reported in Current Industrial Reports M30D.....  | 239,509   | (NA)    |
|              | High pressure thermosetting:   |   |         |
| 30793 11     | Decorative sheets.....   | 136,832   | (NA)    |
| 30793 21     | Metal clad sheets.....   | 22,062  | (NA)    |
| 30793 31     | Other sheets.....  | 34,759  | (NA)    |
| 30793 41     | Rods and tubes.....  | 9,577   | (NA)    |
|              | Low pressure:  |   |         |
| 30793 51     | Thermosetting sheets.....  | 10,633  | (NA)    |
| 30793 61     | Thermosetting rods and tubes.....  | 2,409   | (NA)    |
| 30793 71     | Thermoplastic sheets, rods, and tubes on materials other than textile or random fiber.....   | 13,965  | (NA)    |
| 30793 00     | Laminated sheets, rods, and tubes, n.s.k.....  | 9,272   | (NA)    |
| 30794 --     | Plastics packaging and shipping containers, total:   |   |         |
|              | As reported in census of manufactures <sup>3</sup> .....                                     | 441,841   | (NA)    |
|              | As reported in Current Industrial Reports M30D.....  | 440,935   | (NA)    |
| 30794 11     | Baskets.....   | 2,773   | (NA)    |
| 30794 21     | Open top and trays (except tote boxes).....  | 6,916   | (NA)    |
| 30794 23     | Tote boxes.....  | 2,117   | (NA)    |
| 30794 27     | Boxes and cases with tops.....   | 32,254  | (NA)    |
|              | Bottles and drums:   |   |         |
| 30794 31     | Less than 8 fluid ounce bottles and vials.....   | 26,207  | (NA)    |
| 30794 32     | 8 to 32 fluid ounce bottles.....   | 66,439  | (NA)    |
| 30794 33     | 33 to 64 fluid ounce bottles.....  | 20,630  | (NA)    |
| 30794 35     | 65 to 128 fluid ounce bottles.....   | 20,057  | (NA)    |
| 30794 37     | 129 to 256 fluid ounce bottles.....  | 441   | (NA)    |
| 30794 41     | 5 gallons only.....  | 2,557   | (NA)    |
| 30794 43     | Over 2 gallons (except 5 gallons).....   |   | (NA)    |
| 30794 53     | Disposable cups and tumblers (including foamed).....   | 26,093  | (NA)    |
| 30794 57     | Jars and tubs.....   | 12,931  | (NA)    |
| 30794 67     | Foamed protective shipping pads and shaped packaging.....                                    | 8,227   | (NA)    |
| 30794 71     | Caps and closures.....   | 98,090  | (NA)    |
| 30794 77     | Blister and bubble formed packaging.....   | 9,742   | (NA)    |
| 30794 51     | Cans.....  | 1,618   | (NA)    |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Value of shipments including interplant transfers (\$1,000) |      |
|--------------|---|---|------|
|              |   | 1963  | 1958 |
| 3079- --     | PLASTICS PRODUCTS, N.E.C.—Continued   |   |      |
| 30794 --     | Plastics packaging and shipping containers—Continued  |   |      |
|              | As reported in Current Industrial Reports M3OD—Continued  |   |      |
| 30794 61     | Tubes, collapsible only.....  | 88,192  | (NA) |
| 30794 98     | Other plastics packaging and related products (including synthetic meat and sausage casings)..... |   | (NA) |
| 30794 00     | Plastics packaging and shipping containers, n.s.k.....  | 15,651  | (NA) |
| 30795 --     | Industrial plastics products, total:  |   |      |
|              | As reported in census of manufactures <sup>3</sup> .....  | 832,761   | (NA) |
|              | As reported in Current Industrial Reports M3OD.....   | 828,178   | (NA) |
| 30795 11     | Gears, bearings, bushings, and cams.....  | 22,811  | (NA) |
|              | Components, housing, accessories, and parts for—transportation equipment:                         |   |      |
| 30795 21     | Motor vehicles.....   | 166,331   | (NA) |
| 30795 23     | Aircraft .....  | 30,430  | (NA) |
| 30795 25     | Missile.....  | 56,830  | (NA) |
| 30795 28     | Other transportation equipment.....   | 13,155  | (NA) |
| 30795 31     | Office, computing, accounting machines, cash register, data processing machines, etc.....         | 19,867  | (NA) |
|              | Household and commercial appliances:  |   |      |
| 30795 41     | Air conditioners.....   | 7,254   | (NA) |
| 30795 43     | Refrigerators and freezers.....   | 45,085  | (NA) |
| 30795 45     | Other major appliances.....   | 45,668  | (NA) |
| 30795 47     | Small appliances.....   | 41,089  | (NA) |
| 30795 51     | Other electrical and electronic equipment, including wiring devices.....                          | 137,531   | (NA) |
| 30795 68     | Other components, housings, accessories, and parts.....   | 77,595  | (NA) |
| 30795 98     | Other industrial plastics products.....   | 76,102  | (NA) |
| 30795 00     | Industrial plastics products, n.s.k.....  | 88,436  | (NA) |
| 30796 --     | Construction plastics products, total:  |   |      |
|              | As reported in census of manufactures <sup>3</sup> .....  | 283,832   | (NA) |
|              | As reported in Current Industrial Report M3OD.....  | 280,604   | (NA) |
| 30796 11     | Corrugated and flat panels.....   | 40,761  | (NA) |
| 30796 21     | Doors and partitions, folding accordian type.....   | 19,105  | (NA) |
|              | Unsupported plastics floor, wall, and counter covering:   |   |      |
| 30796 31     | Sheet goods.....  | 11,379  | (NA) |
| 30796 35     | Floor tile.....   | 45,200  | (NA) |
| 30796 37     | Wall tile.....  | 9,895   | (NA) |
| 30796 51     | Plumbing fixturer and parts (excluding pipe and fittings).....                                    | 13,613  | (NA) |
|              | Pipe:   |   |      |
| 30796 53     | 1/2 to less than 2 inches, inside diameter.....   | 32,452  | (NA) |
| 30796 55     | 2 inches and over inside diameter.....  | 16,837  | (NA) |
| 30796 54     | Not specified by size.....  | 8,379   | (NA) |
| 30796 57     | Fittings and unions.....  | 21,394  | (NA) |
| 30796 98     | Other construction plastics products.....   | 60,694  | (NA) |
| 30796 00     | Construction plastics products, n.s.k.....  | 895   | (NA) |
| 30797 --     | Plastics dinnerware, tableware and kitchenware, total:  |   |      |
|              | As reported in census of manufactures <sup>3</sup> .....  | 147,580   | (NA) |
|              | As reported in Current Industrial Reports M3OD.....   | 144,843   | (NA) |
| 30797 13     | Plastics dinnerware and kitchenware (for serving food and drink).....                             | 89,467  | (NA) |
| 30797 15     | Plastics kitchenware (for storing food and drink).....  | 55,376  | (NA) |
| 30798 --     | Consumer and commercial plastics products, n.e.c., total:   |   |      |
|              | As reported in census of manufactures <sup>3</sup> .....  | 4457,064  | (NA) |
|              | As reported in Current Industrial Reports M3OD.....   | 4333,394  | (NA) |
| 30798 11     | Utility containers.....   | 40,409  | (NA) |
| 30798 21     | Flower pots, flower boxes, and planters.....  | 11,370  | (NA) |
|              | Footwear and shoe products:   |   |      |
| 30798 41     | Shoe products.....  | 33,682  | (NA) |
| 30798 31     | Artics and gaiters.....   |   | (NA) |
| 30798 51     | Other footwear.....   | 10,553  | (NA) |
| 30798 61     | Garden hose.....  | 23,137  | (NA) |
| 30798 63     | Other hose.....   | 9,978   | (NA) |
| 30798 65     | Tubing (under 1/2 inch inside diameter).....  | 9,244   | (NA) |
| 30798 71     | Hardware.....   | 9,457   | (NA) |
| 30798 73     | Picnic jugs, cooler chests, and ice buckets (including foamed).....                               | 11,681  | (NA) |
| 30798 75     | Clotheslines.....   | 1,920   | (NA) |
| 30798 98     | Other consumer and commercial plastics products, n.e.c.....                                       | 152,313   | (NA) |
| 30798 00     | Other consumer and commercial plastics products, n.e.c., n.s.k.....                               | 19,650  | (NA) |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Value of shipments including interplant transfers (\$1,000) |                |
|--------------|--|---|----------------|
|              |  | 1963  | 1958           |
| 3079- --     | PLASTICS PRODUCTS, N.E.C.—Continued  |   |                |
| 30798 --     | Consumer and commercial plastics products, n.e.c.—Continued  |   |                |
| 30790 00     | Plastics products, n.s.k:<br>As reported in census of manufactures.....<br>As reported in Current Industrial Reports M30D..... | 138,068<br>113,897  | 79,400<br>(NA) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>Includes crumb or ground rubber (grindings of scrap not devulcanized by the pan or digester process) in 1958. Crumb or ground rubber data were not collected in 1963.

<sup>2</sup>For 1958, quantity in 1,000 pounds.

<sup>3</sup>Because of changes in classification, 1963 and 1958 product lines are, for the most part, not comparable. In 1958 the only unsupported film, sheet, and sheeting separately classified were vinyl and polyethylene; other unsupported film, sheets, sheeting, rods, tubes, and other stock shapes made from purchased resins were reported in other classifications. For quantities of resins consumed in producing individual product lines see Current Industrial Reports Series M30D, "Shipments of Selected Plastics Products."

<sup>4</sup>The difference between the value of shipments reported in the census of manufactures and the value reported in the Current Industrial Reports Series M30D is accounted for in part by plastics products reported in the census of manufactures as products of industry 3079, Plastics Products, N.E.C., without sufficient description to recode properly into a more correct product code in other industries and by new producers reporting in the census of manufactures but not included in the 1963 Current Industrial Reports.

TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year   | Indexes (1954 = 100) |            | Product code | Product and year   | Indexes (1954 = 100)                 |                                      |
|--------------|--|----------------------|------------|--------------|--|--------------------------------------|--------------------------------------|
|              |  | Production           | Unit value |              |  | Production                           | Unit value                           |
| 3011-        | Tires and inner tubes.....1963..<br>1958..                                     | 145<br>110           | 96<br>113  | 3031-        | Reclaimed rubber.....1963..<br>1958..                              | 107<br>100                           | 117<br>107                           |
| 30111        | Passenger car and motorcycle<br>pneumatic tires (casings).....1963..<br>1958.. | 159<br>110           | 95<br>115  | 3069-        | Fabricated rubber products, n.e.c. <sup>1</sup> ..1963..<br>1958.. | 143<br>106                           | 102<br>104                           |
| 30112        | Truck and bus (and off-the-highway)<br>tires.....1963..<br>1958..              | 132<br>104           | 96<br>111  | 30691        | Rubber belts and belting.....1963..<br>1958..                      | 114<br>85                            | 124<br>127                           |
| 30113        | Other pneumatic tires and solid<br>tires.....1963..<br>1958..                  | 144<br>120           | 102<br>122 | 30692        | Rubber hose and tubing.....1963..<br>1958..                        | 178<br>111                           | 112<br>109                           |
| 30114        | All inner tubes.....1963..<br>1958..   | 83<br>78             | 95<br>106  | 30693        | Sponge and foam rubber goods.....1963..<br>1958..                  | 121<br>108                           | 93<br>111                            |
| 30115        | Tread rubber, tire, sundries,<br>and repair materials.....1963..<br>1958..     | 163<br>157           | 108<br>106 | 30696        | Rubber heels and soles.....1963..<br>1958..                        | 107<br>107                           | 111<br>105                           |
| 3021-        | Rubber footwear.....1963..<br>1958..   | 203<br>127           | 101<br>103 | 30697        | Druggist and medical sundries.....1963..<br>1958..                 | 162<br>107                           | 105<br>113                           |
|              |  |                      |            | 3079-        | Plastics products, n.e.c.....1963..<br>1958..                      | ( <sup>2</sup> )<br>( <sup>2</sup> ) | ( <sup>2</sup> )<br>( <sup>2</sup> ) |

n.e.c. Not elsewhere classified.

<sup>1</sup>Adjusted to include product classes 30694, Rubber floor and wall covering; 30695, Mechanical rubber goods, n.e.c.; and 30698, Other rubber goods, n.e.c., for which separate indexes are not shown due to the lack of adequate quantity information covering these products.

<sup>2</sup>Not shown because comparable quantity data going back to 1958 and 1954 were not obtained for these products.



TABLE 6C. Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963

| Code           | Product class   | 1963      | 1962 <sup>1</sup>      | 1961 <sup>1</sup>      | 1960 <sup>1</sup>      | 1959 <sup>1</sup>      | 1958                   | 1954                   | 1947                 |
|----------------|---|-----------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|----------------------|
| 3011-          | Tires and inner tubes.....\$1,000..   | 2,419,789 | 2,367,283              | 2,254,218              | 2,365,350              | 2,424,345              | 2,145,326              | 1,729,912              | 1,512,980            |
| 30111          | Passenger car and motorcycle<br>pneumatic tires.....do..                        | 1,285,885 | 1,276,358              | 1,213,101              | 1,256,751              | 1,215,574              | 1,076,828              | 854,244                | 671,404              |
| 30112          | Truck and bus (and off-the-road)<br>pneumatic tires.....do..                    | 659,516   | 639,957                | 589,494                | 639,648                | 695,763                | 601,952                | 520,169                | 536,708              |
| 30113          | Other pneumatic tires and solid<br>tires.....do..                               | 186,792   | 173,328                | 179,848                | 195,896                | 211,565                | 185,455                | 127,143                | 105,244              |
| 30114          | All inner tubes.....do..  | 95,065    | 97,588                 | 92,969                 | 98,056                 | 112,763                | 100,185                | 120,361                | 150,001              |
| 30115          | Tread rubber, tire sundries,<br>and repair materials.....do..                   | 192,531   | 180,052                | 178,806                | 174,999                | 188,680                | 180,906                | 107,995                | 49,623               |
| 3021-          | Rubber footwear:  |           |                        |                        |                        |                        |                        |                        |                      |
|                | Quantity..... 1,000 pairs..   | 169,531   | 163,983                | 131,552                | 115,565                | 104,511                | 96,597                 | 75,761                 | 79,358               |
|                | Value.....\$1,000..   | 339,584   | 314,993                | 274,747                | 252,061                | 232,948                | 213,684                | 163,730                | 159,190              |
| 3031-          | Reclaimed rubber.....do..   | 55,249    | 57,100                 | 53,329                 | 57,476                 | 56,156                 | 47,646                 | 44,542                 | 36,040               |
| 3069-          | Rubber products, n.e.c. ....do..  | 2,355,614 | 2,217,523              | 2,036,292              | 2,021,341              | 2,035,801              | 1,759,077              | 1,610,268              | 936,121              |
| 30691          | Rubber belts and belting:   |           |                        |                        |                        |                        |                        |                        |                      |
|                | Quantity.....1,000 lbs..  | (S)       | 113,293                | 102,762                | 105,028                | 111,468                | 102,805                | 113,423                | 140,732              |
|                | Value.....\$1,000..   | 179,016   | 160,866                | 147,489                | 146,501                | 159,614                | 137,930                | 126,932                | 128,782              |
| 30692          | Rubber hose and tubing.....do..   | 297,365   | 249,035                | 225,502                | 220,575                | 231,750                | 180,655                | 148,509                | 122,784              |
| 30693          | Sponge and foam rubber goods.....do..   | 226,433   | 240,842                | 214,377                | 220,013                | 223,704                | 200,751                | 178,924                | 50,559               |
| 30694          | Rubber floor and wall covering.....do..   | 93,238    | 82,889                 | 83,910                 | 107,057                | 111,177                | 99,376                 | 92,444                 | 49,204               |
| 30695          | Mechanical rubber goods,n.e.c. ....do..   | 850,747   | 756,443                | 649,438                | 647,750                | 623,865                | 534,671                | 556,276                | 255,826              |
| 30696          | Rubber heels and soles.....do..   | 136,213   | 140,753                | 133,008                | 132,398                | 144,283                | 134,856                | 113,088                | 72,175               |
| 30697          | Druggist and medical sundries.....do..  | 79,232    | 74,302                 | 71,946                 | 65,262                 | 65,002                 | 56,953                 | 46,776                 | 35,133               |
| 30698          | Other rubber goods, n.e.c.....do..  | 450,956   | 481,064                | 485,363                | 456,895                | 453,085                | 392,308                | 343,100                | 215,854              |
| 30690          | Rubber products, n.e.c., n.s.k.....do..   | 42,414    | (S)                    | (S)                    | (S)                    | (S)                    | 21,577                 | 4,219                  | 5,804                |
| 3079-<br>28211 | Plastics products, n.e.c.....do..   | 3,494,584 | <sup>2</sup> 3,061,104 | <sup>2</sup> 2,613,779 | <sup>2</sup> 2,397,923 | <sup>2</sup> 2,312,170 | <sup>2</sup> 1,914,467 | <sup>2</sup> 1,285,603 | <sup>2</sup> 480,680 |
| 30791<br>28211 | Unsupported plastics film, sheets,<br>rods, tubes, and other stock shapes..do.. | 688,090   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                 |
| 30792          | Foamed plastics products.....do..   | 261,210   | 187,675                | 169,980                | 111,943                | 91,224                 | 54,040                 | 17,746                 | (NA)                 |
| 30793          | Laminated sheets, rods, and tubes.....do..                                      | 244,138   | 252,636                | 219,092                | 211,025                | 200,434                | 162,924                | 102,401                | 48,340               |
| 30794          | Packaging and shipping containers,<br>plastics.....do..                         | 441,841   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                 |
| 30795          | Industrial plastics products.....do..   | 832,761   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                 |
| 30796          | Construction plastics products.....do..   | 283,832   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                 |
| 30797          | Plastics, dinnerware, tableware,<br>and kitchenware.....do..                    | 147,580   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                 |
| 30798          | Consumer and commercial plastics<br>products, n.e.c.....do..                    | 457,064   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                 |
| 30790          | Plastics products, n.e.c., n.s.k.....do..                                       | 138,068   | (S)                    | (S)                    | (S)                    | (S)                    | 79,400                 | 23,123                 | 17,147               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>2</sup>Because a major revision in the classification of products assigned to Industry 3079, Miscellaneous Plastics Products, was introduced in 1963, prior data, for the most part, are not comparable at the product class level.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area                               | Value of shipments |                  | Product class and geographic area             | Value of shipments |                  | Product class and geographic area              | Value of shipments |                  |
|---|--------------------|------------------|---|--------------------|------------------|--|--------------------|------------------|
|   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |
| <b>PASSENGER CAR AND MOTORCYCLE PNEUMATIC TIRES (30111)</b>     |                    |                  | <b>RUBBER BELTS AND BELTING (30691)</b>       |                    |                  | <b>MECHANICAL RUBBER GOODS, N.E.C. (30695)</b> |                    |                  |
| United States, total....  | 1,285,885          | 1,076,828        | United States, total....                      | 179,016            | 137,930          | United States, total....                       | 850,747            | 534,671          |
| Northeast.....  | 203,198            | 198,243          | New England.....                              | 9,163              | 49,504           | New England.....                               | 84,021             | 68,236           |
| East North Central.....   | 470,087            | 381,638          | Middle Atlantic.....                          | 47,124             |                  | Massachusetts.....                             | 54,798             | 42,212           |
| Ohio.....   | 247,929            | ( <sup>2</sup> ) | New Jersey.....                               | 25,809             | 25,111           | Connecticut.....                               | 18,828             | 17,158           |
| West North Central.....   | 125,251            | 99,625           | East North Central.....                       | 37,588             | ( <sup>2</sup> ) | Middle Atlantic.....                           | 131,180            | 98,699           |
| South.....  | 355,181            | 258,361          | Ohio.....                                     | 35,033             | 39,946           | New York.....                                  | 30,250             | 17,286           |
| West.....   | 132,168            | 138,911          | West North Central.....                       | 38,122             | ( <sup>2</sup> ) | New Jersey.....                                | 56,761             | 48,236           |
| <b>TRUCK AND BUS (AND OFF-THE-ROAD) PNEUMATIC TIRES (30112)</b> |                    |                  | South and West.....                           | 47,019             | 33,025           | Pennsylvania.....                              | 44,169             | 33,177           |
| United States, total....  | 659,516            | 601,952          | <b>RUBBER HOSE AND TUBING (30692)</b>         |                    |                  | East North Central.....                        | 467,171            | 261,094          |
| Northeast.....  | 64,419             | 74,117           | United States, total....                      | 297,365            | 180,655          | Ohio.....                                      | 212,772            | 132,489          |
| Pennsylvania.....   | 40,496             | 38,973           | New England.....                              | 20,945             | 9,963            | Indiana.....                                   | 127,618            | 65,163           |
| East North Central.....   | 296,905            | 285,307          | Middle Atlantic.....                          | 63,967             | 59,459           | Illinois.....                                  | 66,826             | 30,901           |
| Ohio.....   | 210,682            | ( <sup>2</sup> ) | New York.....                                 | 10,169             | ( <sup>2</sup> ) | Michigan.....                                  | 48,477             | 26,033           |
| West North Central.....   | 64,238             | 52,612           | New Jersey.....                               | 45,572             | 44,385           | Wisconsin.....                                 | 11,478             | 6,508            |
| South.....  | 192,471            | 143,487          | Pennsylvania.....                             | 8,226              | ( <sup>2</sup> ) | West North Central.....                        | 12,345             | 4,274            |
| West.....   | 41,483             | 46,429           | East North Central.....                       | 128,593            | 59,609           | Minnesota.....                                 | 8,730              | 2,538            |
| <b>OTHER PNEUMATIC TIRES AND SOLID TIRES (30113)</b>            |                    |                  | Ohio.....                                     | 76,982             | 48,137           | Missouri.....                                  | 2,235              | ( <sup>2</sup> ) |
| United States, total....  | 186,792            | 185,455          | Illinois.....                                 | 33,938             | ( <sup>2</sup> ) | South Atlantic.....                            | 26,429             | 16,176           |
| Northeast.....  | 13,868             | 11,717           | Michigan.....                                 | 9,835              | ( <sup>2</sup> ) | Maryland.....                                  | 3,559              | 1,842            |
| East North Central.....   | 93,135             | 110,393          | West North Central.....                       | 6,777              | 3,154            | Virginia.....                                  | 8,087              | 3,650            |
| West North Central.....   | 40,661             | 28,494           | South.....                                    | 30,306             | 19,134           | Georgia.....                                   | 3,770              | 2,300            |
| South.....  | 35,678             | 33,124           | West.....                                     | 46,777             | 29,336           | Florida.....                                   | 26,429             | ( <sup>2</sup> ) |
| Tennessee.....  | 2,973              | 4,860            | <b>SPONGE AND FOAM RUBBER GOODS (30693)</b>   |                    |                  | East South Central.....                        | 15,862             | 6,152            |
| West.....   | 3,450              | 1,727            | United States, total....                      | 226,433            | 200,751          | West South Central.....                        | 18,436             | 7,751            |
| <b>ALL INNER TUBERS (30114)</b>                                 |                    |                  | New England.....                              | 60,792             | 59,276           | Mountain.....                                  | 9,579              | 72,289           |
| United States, total....  |                    | 95,065           | Middle Atlantic.....                          | 30,798             | 34,780           | Pacific.....                                   | 85,724             |                  |
| Northeast.....  |                    | 17,439           | New York.....                                 | 2,730              | 16,486           | California.....                                | 82,195             | 64,450           |
| North Central.....  |                    | 31,609           | New Jersey.....                               | 9,516              | 9,511            | <b>RUBBER HEELS AND SOLES (30696)</b>          |                    |                  |
| South and West.....   |                    | 46,017           | Pennsylvania.....                             | 18,552             | 8,783            | United States, total....                       | 136,213            | 134,856          |
| <b>TREAD RUBBER, TIRE SUNDRIES, AND REPAIR MATERIALS(30115)</b> |                    |                  | North Central.....                            | 90,096             | 67,970           | Northeast.....                                 | 74,520             | 81,458           |
| United States, total....  | 192,531            | 180,906          | Ohio.....                                     | 60,143             | 43,880           | Massachusetts.....                             | 44,418             | 47,330           |
| New England.....  | 9,067              | 13,569           | Indiana.....                                  | 15,014             | ( <sup>2</sup> ) | Rhode Island.....                              | 5,235              | 3,899            |
| Middle Atlantic.....  | 22,176             | 19,128           | Illinois.....                                 | 7,528              | 3,855            | North Central.....                             | 19,136             | 15,542           |
| Pennsylvania.....   | 18,397             | 17,255           | South.....                                    | 19,867             | 14,703           | Ohio.....                                      | 8,495              | 7,218            |
| East North Central.....   | 51,609             | 58,676           | Georgia.....                                  | 1,991              | ( <sup>2</sup> ) | South and West.....                            | 42,557             | 37,856           |
| Ohio.....   | 39,812             | 44,904           | West.....                                     | 24,880             | 24,022           | Maryland.....                                  | 15,664             | 18,320           |
| West North Central.....   | 10,272             | 6,512            | <b>RUBBER FLOOR AND WALL COVERING (30694)</b> |                    |                  | <b>DRUGGIST AND MEDICAL SUNDRIES (30697)</b>   |                    |                  |
| Iowa.....   | 7,723              | ( <sup>2</sup> ) | United States, total....                      | 93,238             | 99,376           | United States, total....                       | 79,232             | 56,953           |
| South Atlantic.....   | 22,566             | 41,408           | New England.....                              | 8,636              | 20,696           | Northeast.....                                 | 36,984             | 28,040           |
| East South Central.....   | 19,441             |                  | Ohio.....                                     | 12,331             |                  | 38,328   | New Jersey.....    | 16,923           |
| West South Central.....   | 17,966             | 9,726            | East North Central.....                       | 52,698             | 54,351           | East North Central.....                        | 32,920             | ( <sup>2</sup> ) |
| Texas.....  | 8,489              |                  | Ohio.....                                     | 42,114             | 38,328           | South and West.....                            | 9,328              | 5,791            |
| West.....   | 39,434             | 41,613           | South.....                                    | 10,327             | 13,254           | <b>OTHER RUBBER GOODS, N.E.C. (30698)</b>      |                    |                  |
| California.....   | 33,768             | 30,802           | Alabama.....                                  | 5,517              | ( <sup>2</sup> ) | United States, total....                       | 450,956            | 392,308          |
|   |                    |                  | West.....                                     | 9,246              | 11,075           | New England.....                               | 109,194            | 106,726          |
|   |                    |                  |   |                    |                  | Massachusetts.....                             | 72,464             | 70,196           |
|   |                    |                  |   |                    |                  | Rhode Island.....                              | 16,722             | 15,425           |
|   |                    |                  |   |                    |                  | Connecticut.....                               | 17,439             | 19,944           |

See footnotes at end of table.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area  | Value of shipments |                  | Product class and geographic area                   | Value of shipments | Product class and geographic area      | Value of shipments |
|--|--------------------|------------------|---|--------------------|--|--------------------|
|  | 1963 <sup>1</sup>  | 1958             |   |                    |  |                    |
| OTHER RUBBER GOODS, N.E.C. (30698)--Continued  |                    |                  | FOAMED PLASTICS PRODUCTS (30792)--Continued         |                    | INDUSTRIAL PLASTICS PRODUCTS (30795)   |                    |
| Middle Atlantic.....   | 79,586             | 66,420           | East North Central.....                             | 101,935            | United States, total...                | 832,761            |
| New York.....  | 24,735             | 18,162           | Ohio.....   | 42,010             | New England.....                       | 83,246             |
| New Jersey.....  | 29,691             | 30,407           | Indiana.....  | 24,390             | Massachusetts.....                     | 45,529             |
| Pennsylvania.....  | 25,160             | 17,851           | Michigan.....                                       | 20,575             | Rhode Island.....                      | 6,525              |
| East North Central.....  | 146,392            | 140,962          | West North Central.....                             | 24,480             | Connecticut.....                       | 16,762             |
| Ohio.....  | 104,199            | 97,186           | South Atlantic.....                                 | 38,140             | Middle Atlantic.....                   | 200,040            |
| Indiana.....   | 3,015              | 9,795            | Virginia.....                                       | 16,880             | New York.....                          | 76,428             |
| Illinois.....  | 16,142             | 17,863           | North Carolina.....                                 | 17,560             | New Jersey.....                        | 62,839             |
| Michigan.....  | 18,263             | 11,775           | East South Central.....                             | 9,899              | Pennsylvania.....                      | 60,773             |
| Wisconsin.....   | 4,773              | 4,343            | West South Central.....                             | 5,321              | East North Central.....                | 389,107            |
| West North Central.....  | 13,346             | 9,345            | Texas.....  | 3,182              | Ohio.....                              | 114,132            |
| Missouri.....  | 4,546              | ( <sup>2</sup> ) | West.....   | 21,861             | Indiana.....                           | 58,361             |
| South Atlantic.....  | 49,069             | 30,705           | California.....                                     | 20,156             | Illinois.....                          | 109,436            |
| North Carolina.....  | 5,180              | 7,172            | LAMINATED SHEETS, RODS, AND TUBES (30793)           |                    | Michigan.....                          | 87,898             |
| Georgia.....   | 29,176             | 14,675           | United States, total...                             | 244,138            | Wisconsin.....                         | 19,280             |
| East South Central.....  | 16,703             | 10,653           | New England.....                                    | 27,912             | West North Central.....                | 30,894             |
| Tennessee.....   | 13,423             | ( <sup>2</sup> ) | Middle Atlantic.....                                | 32,788             | Minnesota.....                         | 14,389             |
| West South Central.....  | 3,686              | 3,185            | New York.....                                       | 8,010              | Missouri.....                          | 9,216              |
| West.....  | 32,980             | 24,312           | New Jersey.....                                     | 11,389             | Kansas.....                            | 3,893              |
| UNSUPPORTED FILM, SHEETS, SHEETING, RODS, TUBES AND OTHER STOCK SHAPES (28211 AND 30791) |                    |                  | Pennsylvania.....                                   | 13,389             | South Atlantic.....                    | 29,903             |
| United States, total....   | 688,090            |                  | East North Central.....                             | 120,502            | Maryland.....                          | 2,302              |
| New England.....   | 74,253             |                  | Illinois.....                                       | 10,644             | Virginia.....                          | 7,345              |
| Massachusetts.....   | 41,580             |                  | Wisconsin.....                                      | 18,763             | North Carolina.....                    | 3,588              |
| Connecticut.....   | 21,355             |                  | West North Central.....                             | 2,032              | South Carolina.....                    | 3,054              |
| Middle Atlantic.....   | 250,710            |                  | South.....  | 50,596             | Florida.....                           | 3,665              |
| New York.....  | 80,082             |                  | West.....   | 10,308             | East South Central.....                | 9,660              |
| New Jersey.....  | 114,705            |                  | California.....                                     | 10,110             | Tennessee.....                         | 4,522              |
| Pennsylvania.....  | 55,923             |                  | PACKAGING AND SHIPPING CONTAINERS, PLASTICS (30794) |                    | Mississippi.....                       | 1,764              |
| East North Central.....  | 176,107            |                  | United States, total...                             | 441,841            | West South Central.....                | 9,837              |
| Ohio.....  | 67,860             |                  | New England.....                                    | 53,626             | Texas.....                             | 6,011              |
| Indiana.....   | 22,588             |                  | Massachusetts.....                                  | 31,793             | West.....                              | 80,074             |
| Illinois.....  | 39,539             |                  | Rhode Island.....                                   | 3,343              | California.....                        | 78,324             |
| Michigan.....  | 36,256             |                  | Connecticut.....                                    | 15,083             | CONSTRUCTION PLASTICS PRODUCTS (30796) |                    |
| Wisconsin.....   | 9,864              |                  | Middle Atlantic.....                                | 131,583            | United States, total...                | 283,832            |
| West North Central.....  | 10,864             |                  | New York.....                                       | 43,564             | New England.....                       | 8,945              |
| Minnesota.....   | 6,427              |                  | New Jersey.....                                     | 66,993             | Massachusetts.....                     | 4,308              |
| Missouri.....  | 3,346              |                  | Pennsylvania.....                                   | 21,026             | Middle Atlantic.....                   | 48,326             |
| South Atlantic.....  | 73,492             |                  | East North Central.....                             | 148,647            | New York.....                          | 10,865             |
| Delaware.....  | 8,720              |                  | Ohio.....   | 26,234             | New Jersey.....                        | 32,473             |
| Virginia.....  | 20,993             |                  | Indiana.....  | 18,574             | Pennsylvania.....                      | 4,988              |
| North Carolina.....  | 3,994              |                  | Illinois.....                                       | 94,000             | East North Central.....                | 67,020             |
| South Carolina.....  | 30,813             |                  | Michigan.....                                       | 6,114              | Ohio.....                              | 37,572             |
| Florida.....   | 1,511              |                  | Wisconsin.....                                      | 3,725              | Indiana.....                           | 13,557             |
| East South Central.....  | 52,215             |                  | West North Central.....                             | 20,113             | Illinois.....                          | 6,384              |
| West South Central.....  | 20,980             |                  | Minnesota.....                                      | 1,710              | Michigan.....                          | 4,423              |
| West.....  | 29,469             |                  | Missouri.....                                       | 16,082             | Wisconsin.....                         | 5,084              |
| Washington.....  | 1,496              |                  | South Atlantic.....                                 | 37,280             | West North Central.....                | 29,964             |
| California.....  | 27,359             |                  | Maryland.....                                       | 12,212             | Missouri.....                          | 5,523              |
| FOAMED PLASTICS PRODUCTS (30792)   |                    |                  | Georgia.....  | 3,823              | South Atlantic.....                    | 15,842             |
| United States, total....   | 261,210            |                  | East South Central.....                             | 14,500             | Virginia.....                          | 2,088              |
| New England.....   | 15,358             |                  | West South Central.....                             | 4,751              | North Carolina.....                    | 3,888              |
| Massachusetts.....   | 6,909              |                  | Mountain.....                                       | 1,909              | Florida.....                           | 6,276              |
| Middle Atlantic.....   | 44,216             |                  | Pacific.....  | 29,432             | East South Central.....                | 48,874             |
| New York.....  | 7,383              |                  | California.....                                     | 29,084             | West South Central.....                | 17,884             |
| New Jersey.....  | 24,946             |                  |   |                    | Oklahoma.....                          | 4,654              |
| Pennsylvania.....  | 11,887             |                  |   |                    | Texas.....                             | 9,914              |

See footnotes at end of table.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area                       | Value of shipments | Product class and geographic area                         | Value of shipments | Product class and geographic area                                    | Value of shipments |
|---|--------------------|---|--------------------|--|--------------------|
| PLASTICS DINNERTWARE, TABLEWARE, AND KITCHENWARE(30797) | 1963 <sup>1</sup>  | CONSUMER AND COMMERCIAL PLASTICS PRODUCTS, N.E.C. (30798) | 1963 <sup>1</sup>  | CONSUMER AND COMMERCIAL PLASTICS PRODUCTS, N.E.C. (30798)--Continued | 1963 <sup>1</sup>  |
| United States, total....                                | 147,580            | United States, total..                                    | 457,064            | West North Central.....  | 20,508             |
| New England.....  | 43,968             | New England.....  | 84,201             | Minnesota.....   | 4,522              |
| Middle Atlantic.....                                    | 18,450             | Maine.....  | 5,462              | Iowa.....  | 3,163              |
| New York.....   | 7,223              | New Hampshire.....  | 6,328              | Missouri.....  | 11,324             |
| New Jersey.....   | 7,835              | Vermont.....  | 1,224              | South Atlantic.....  | 21,499             |
| Pennsylvania.....                                       | 3,392              | Massachusetts.....  | 56,235             | Maryland.....  | 4,991              |
| East North Central.....                                 | 40,664             | Rhode Island.....   | 7,195              | Virginia.....  | 1,784              |
| Ohio.....   | 13,397             | Connecticut.....  | 7,757              | North Carolina.....  | 5,596              |
| Illinois.....   | 16,576             | Middle Atlantic.....                                      | 136,437            | Florida.....   | 3,033              |
| Michigan.....   | 3,364              | New York.....   | 59,529             | East South Central.....  | 9,572              |
| West North Central.....                                 | 8,659              | New Jersey.....   | 43,670             | Tennessee.....   | 6,648              |
| South.....  | 21,664             | Pennsylvania.....   | 33,238             | West South Central.....  | 12,079             |
| West.....   | 14,175             | East North Central.....                                   | 127,473            | Texas.....   | 9,995              |
| California.....   | 14,074             | Ohio.....   | 48,648             | Mountain.....  | 2,200              |
|   |                    | Indiana.....  | 6,950              | Colorado.....  | 1,299              |
|   |                    | Illinois.....   | 51,437             | Pacific.....   | 43,095             |
|   |                    | Michigan.....   | 14,034             | Washington.....  | 1,133              |
|   |                    | Wisconsin.....  | 6,404              | California.....  | 41,268             |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported. n.e.c. Not elsewhere classified.

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed, but the exact figures are withheld to avoid disclosure of individual company figures: 30111, Massachusetts, Connecticut, New York, Pennsylvania, Indiana, Illinois, Michigan, Wisconsin, Iowa, Kansas, Maryland, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Oklahoma, Texas, Colorado, and California; 30112, Massachusetts, Connecticut, New York, Indiana, Michigan, Wisconsin, Iowa, Kansas, Maryland, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Oklahoma, Texas, Colorado, and California; 30113, Maine, Massachusetts, Pennsylvania, Ohio, Indiana, Michigan, Wisconsin, Iowa, Kansas, Maryland, Georgia, Alabama, Oklahoma, Texas, and California; 30114, Massachusetts, Pennsylvania, Ohio, Indiana, Missouri, Maryland, Tennessee, Alabama, Mississippi, Oklahoma, and California; 30115, Massachusetts, Rhode Island, Connecticut, New Jersey, Indiana, Illinois, Michigan, Kansas, Maryland, South Carolina, Georgia, Tennessee, Alabama, Mississippi, Arkansas, Oklahoma, Colorado, Washington, and Oregon; 30210, New Hampshire, Rhode Island, Connecticut, New Jersey, Indiana, Illinois, Wisconsin, Missouri, Maryland, North Carolina, Florida, Tennessee, and California; 30310, Connecticut, New York, Illinois, Tennessee, and Mississippi; 30691, Massachusetts, New York, Pennsylvania, Indiana, Minnesota, Missouri, Nebraska, North Carolina, Colorado, Utah, and California; 30692, Massachusetts, Connecticut, Indiana, Minnesota, Nebraska, Kansas, Delaware, Virginia, North Carolina, Georgia, Texas, Colorado, Utah, and California; 30693, Massachusetts, Rhode Island, Connecticut, Iowa, Virginia, North Carolina, and Tennessee; 30694, Massachusetts, Rhode Island, New Jersey, Pennsylvania, Indiana, Michigan, Tennessee, Texas, and California; 30695, New Hampshire, Rhode Island, West Virginia, North Carolina, South Carolina, Kentucky, Tennessee, Alabama, Arkansas, Texas, Colorado, Utah, and Oregon; 30696, New Hampshire, Vermont, New York, New Jersey, Michigan, Virginia, West Virginia, Tennessee, Mississippi, Arkansas, and Texas; 30697, Rhode Island, Connecticut, Pennsylvania, Delaware, and Maryland; 30698, Vermont, Minnesota, Kansas, Virginia, South Carolina, Kentucky, Mississippi, Arkansas, New Mexico, and California; 30791 and 28211, Rhode Island, Georgia, Kentucky, Tennessee, Alabama, Mississippi, Louisiana, and Texas; 30792, New Hampshire, Connecticut, Illinois, Iowa, Missouri, Maryland, Tennessee, Mississippi, and Arkansas; 30793, Maine, Massachusetts, Connecticut, Ohio, Michigan, Minnesota, Iowa, Delaware, Maryland, South Carolina, Georgia, Mississippi, and Texas; 30794, New Hampshire, Nebraska, Delaware, Virginia, West Virginia, North Carolina, South Carolina, Tennessee, Texas, New Mexico, and Utah; 30795, New Hampshire, Vermont, Iowa, Delaware, Georgia, Kentucky, Arkansas, and Oklahoma; 30796, Maine, New Hampshire, Minnesota, Kansas, Delaware, Georgia, Kentucky, Tennessee, Alabama, Arkansas, and Louisiana; 30797, Vermont, Massachusetts, Rhode Island, Indiana, Wisconsin, Minnesota, Missouri, Mississippi, Louisiana, and Texas; 30798, Delaware, South Carolina, Alabama, and Arkansas.

<sup>2</sup>Shipments of \$1 million or more were reported, but exact figures are withheld to avoid disclosure of individual company figures.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code                                 | Material   | Unit of measure | 1963                   |                          | 1958                 |                          |
|--------------------------------------|--|-----------------|------------------------|--------------------------|----------------------|--------------------------|
|                                      |  |                 | Quantity               | Delivered cost (\$1,000) | Quantity             | Delivered cost (\$1,000) |
| INDUSTRY 3011.—TIRES AND INNER TUBES |  |                 |                        |                          |                      |                          |
|                                      | Materials, containers, and supplies, total.....                                    |                 | (X)                    | 1,324,820                | (X)                  | 1,158,324                |
|                                      | Natural Rubber:  |                 |                        |                          |                      |                          |
| 086113                               | Latex (dry solids content).....  | Long tons.....  | 1,739                  | 1,156                    | 12,750               | 10,311                   |
| 086115                               | Dry.....   | ..do.....       | 296,274                | 169,047                  | 303,397              | 177,108                  |
|                                      | Synthetic Rubber:  |                 |                        |                          |                      |                          |
| 282203                               | Butadiene-styrene type.....  | ..do.....       | <sup>1</sup> 643,431   | 272,585                  | <sup>2</sup> 500,198 | 234,444                  |
| 282204                               | Butyl type.....  | ..do.....       | 48,445                 | 28,064                   | 43,145               | 22,845                   |
| 282205                               | Neoprene.....  | ..do.....       | 7,388                  | 6,814                    | 5,105                | 4,733                    |
| 282206                               | N-type (butadiene-acrylonitrile).....  | ..do.....       | <sup>2</sup> 2,404     | 1,155                    | <sup>2</sup> 1,734   | 1,037                    |
| 282207                               | Stereo elastomers.....   | ..do.....       | 90,113                 | 51,046                   | } 2,2070             | 1,731                    |
| 282208                               | Polyurethane.....  | ..do.....       | 59                     | 172                      |                      |                          |
| 282209                               | Other elastomers.....  | ..do.....       | 1,924                  | 1,419                    |                      |                          |
| 303101                               | Reclaimed rubber (excluding "mud" and crumb or ground scrap).....                  | ..do.....       | <sup>1</sup> 175,470   | 36,381                   | <sup>2</sup> 153,118 | 30,667                   |
| 306980                               | Rubber compounds and mixtures purchased (dry rubber solid content).....            | ..do.....       | 28,485                 | 12,962                   | (NA)                 | 7,993                    |
| 281833                               | Rubber processing chemicals.....   |                 | (X)                    | 49,123                   | ( <sup>3</sup> )     | ( <sup>3</sup> )         |
| 281835                               | Plasticizers.....  | 1,000 pounds... | 202,089                | 9,116                    | ( <sup>3</sup> )     | ( <sup>3</sup> )         |
| 289501                               | Carbon black.....  | ..do.....       | <sup>1</sup> 0,046,498 | 83,262                   | ( <sup>3</sup> )     | ( <sup>3</sup> )         |
| 281600                               | Inorganic pigments.....  | ..do.....       | 218,271                | 16,632                   | ( <sup>3</sup> )     | ( <sup>3</sup> )         |
| 282130                               | Thermoplastic resins including modified resins.....                                | ..do.....       | <sup>9</sup> 0,015     | 1,468                    | <sup>2</sup> 3,153   | 879                      |
| 282140                               | Thermosetting resins.....  | ..do.....       | 4,350                  | 1,992                    | 307                  | 207                      |
|                                      | Tire cord and tire fabric:   |                 |                        |                          |                      |                          |
| 229601                               | Cotton cord.....   | ..do.....       | 943                    | 754                      | 5,688                | 5,482                    |
| 229602                               | Rayon cord.....  | ..do.....       | 179,290                | 108,402                  | 220,467              | 153,281                  |
| 229603                               | Nylon cord.....  | ..do.....       | 192,009                | 210,922                  | 92,244               | 139,366                  |
| 229609                               | Chafer and other tire fabrics.....   | ..do.....       | 21,153                 | 20,922                   | 24,386               | 20,753                   |
|                                      | Other fabrics:   |                 |                        |                          |                      |                          |
| 220311                               | Cotton.....  | ..do.....       | (D)                    | (D)                      | 9,089                | 6,007                    |
| 220312                               | Rayon.....   | ..do.....       | 4,939                  | 3,337                    | 2,287                | 1,622                    |
| 220313                               | Nylon.....   | ..do.....       | 3,385                  | 3,153                    | 3,517                | 5,173                    |
| 220319                               | Other.....   | ..do.....       | 6,951                  | 2,261                    | 593                  | 446                      |
| 342956                               | Hose fittings and couplings.....   |                 | (X)                    | 1,821                    | ( <sup>3</sup> )     | ( <sup>3</sup> )         |
| 331017                               | Steel wire.....  | Short tons..... | 68,373                 | 25,962                   | ( <sup>3</sup> )     | ( <sup>3</sup> )         |
| 970099                               | All other materials and components, parts, containers, and supplies, consumed..... |                 | (X)                    | 191,467                  | (X)                  | 325,259                  |
| 973000                               | Materials, containers, supplies, n.s.k.....  |                 | (X)                    | <sup>4</sup> 13,425      | (X)                  | <sup>4</sup> 3,980       |
| INDUSTRY 3021.—RUBBER FOOTWEAR       |  |                 |                        |                          |                      |                          |
|                                      | Materials, containers, and supplies, total.....                                    |                 | (X)                    | 113,771                  | (X)                  | 68,997                   |
|                                      | Natural rubber:  |                 |                        |                          |                      |                          |
| 086113                               | Latex (dry solids content).....  | Long tons.....  | 942                    | 738                      | 1,201                | 901                      |
| 086115                               | Dry.....   | ..do.....       | 17,106                 | 9,789                    | 17,418               | 10,703                   |
|                                      | Synthetic rubber:  |                 |                        |                          |                      |                          |
| 282203                               | Butadiene-styrene type.....  | ..do.....       | 11,913                 | 5,856                    | 6,365                | 3,577                    |
| 282204                               | Butyl type.....  | ..do.....       | 24                     | 15                       | 225                  | 114                      |
| 282205                               | Neoprene.....  | ..do.....       | 243                    | 214                      | 284                  | 238                      |
| 282206                               | N-type (butadiene-acrylonitrile).....  | ..do.....       | (D)                    | (D)                      | 68                   | 63                       |
| 282207                               | Stereo elastomers.....   | ..do.....       | 1,080                  | 589                      | -                    | -                        |
| 282209                               | Other elastomers.....  | ..do.....       | (D)                    | (D)                      | -                    | -                        |
| 303101                               | Reclaimed rubber (excluding "mud" and crumb or ground scrap).....                  | ..do.....       | <sup>1</sup> 1,289     | 201                      | 1,501                | 348                      |
| 306980                               | Rubber compounds and mixtures purchased (dry rubber solids content).....           | ..do.....       | 3,957                  | 4,177                    | 1,742                | 2,961                    |
| 281833                               | Rubber processing chemicals.....   |                 | (X)                    | 4,747                    | ( <sup>3</sup> )     | ( <sup>3</sup> )         |
| 281835                               | Plasticizers.....  | 1,000 pounds... | 3,877                  | 775                      | ( <sup>3</sup> )     | ( <sup>3</sup> )         |
| 289501                               | Carbon black.....  | ..do.....       | 2,003                  | 180                      | ( <sup>3</sup> )     | ( <sup>3</sup> )         |
| 281600                               | Inorganic pigments.....  | ..do.....       | 9,537                  | 586                      | ( <sup>3</sup> )     | ( <sup>3</sup> )         |
| 282130                               | Thermoplastic resins including modified resins.....                                | ..do.....       | 2,350                  | 454                      | 2,232                | 1,110                    |
|                                      | Other fabrics:   |                 |                        |                          |                      |                          |
| 220311                               | Cotton.....  | ..do.....       | 27,596                 | 27,039                   | 13,403               | 12,593                   |
| 220312                               | Rayon.....   | ..do.....       | -                      | -                        | 119                  | 165                      |
| 220313                               | Nylon.....   | ..do.....       | 525                    | 673                      | 118                  | 234                      |
| 220319                               | Other.....   | ..do.....       | 1,329                  | 2,469                    | 1,172                | 1,540                    |
| 970099                               | All other materials and components, parts, containers, and supplies.....           |                 | (X)                    | 41,411                   | (X)                  | 30,012                   |
| 973000                               | Materials, containers, supplies, n.s.k.....  |                 | (X)                    | <sup>4</sup> 13,858      | (X)                  | <sup>4</sup> 4,438       |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material   | Unit of measure  | 1963   |                             | 1958                |                             |
|---|--|------------------|--|-----------------------------|---------------------|-----------------------------|
|   |  |                  | Quantity   | Delivered cost<br>(\$1,000) | Quantity            | Delivered cost<br>(\$1,000) |
|   |  |                  | INDUSTRY 3031 and 3069.—RECLAIMED RUBBER, AND<br>RUBBER PRODUCTS, N.E.C. |                             |                     |                             |
| Materials, containers, and supplies, total..... |  |                  | (X)  | <sup>5</sup> 1,025,257      | (X)                 | <sup>6</sup> 765,081        |
| Natural rubber:                                 |  |                  |  |                             |                     |                             |
| 086113  | Latex (dry solids contents).....   | Long tons.....   | 37,920   | 29,750                      | 54,036              | 44,181                      |
| 086115  | Dry.....   | ..do.....        | 78,244   | 49,318                      | 75,313              | 46,784                      |
| Synthetic rubber:                               |  |                  |  |                             |                     |                             |
| 282203  | Butadiene-styrene type.....  | ..do.....        | 239,967  | 116,798                     | 161,624             | 84,580                      |
| 282204  | Butyl type.....  | ..do.....        | 16,663   | 9,442                       | 7,145               | 3,864                       |
| 282205  | Neoprene.....  | ..do.....        | 53,042   | 49,172                      | 37,733              | 34,218                      |
| 282206  | N-type (butadiene-acrylonitrile).....  | ..do.....        | 25,462   | 25,745                      | 10,504              | 12,137                      |
| 282207  | Stereo elastomers.....   | ..do.....        | 6,717  | 3,874                       | 4,828               | 7,132                       |
| 282208  | Polyurethane.....  | ..do.....        | 604  | 1,308                       |                     |                             |
| 282209  | Other elastomers.....  | ..do.....        | 11,327   | 15,433                      |                     |                             |
| 303101  | Reclaimed rubber (excluding "mud" and crumb or ground scrap).....                  | ..do.....        | <sup>1</sup> 81,493  | 12,837                      | <sup>2</sup> 93,214 | 14,370                      |
| 306980  | Rubber compounds and mixtures purchased.....                                       | ..do.....        | 26,592   | 18,443                      | (NA)                | 15,900                      |
| 281833  | Rubber processing chemicals.....   | ..do.....        | (X)  | 45,947                      | ( <sup>3</sup> )    | ( <sup>3</sup> )            |
| 281835  | Plasticizers.....  | 1,000 pounds.... | 159,396  | 21,374                      | ( <sup>3</sup> )    | ( <sup>3</sup> )            |
| 289501  | Carbon black.....  | ..do.....        | 235,919  | 18,559                      | ( <sup>3</sup> )    | ( <sup>3</sup> )            |
| 281600  | Inorganic pigments.....  | ..do.....        | 403,712  | 20,138                      | ( <sup>3</sup> )    | ( <sup>3</sup> )            |
| 282130  | Thermoplastic resins including modified resins.....                                | ..do.....        | 139,712  | 29,734                      | 72,793              | 23,877                      |
| 282140  | Thermosetting resins.....  | ..do.....        | <sup>1</sup> 20,196  | 7,517                       | 9,373               | 2,088                       |
| Tire cord and tire fabric:                      |  |                  |  |                             |                     |                             |
| 229601  | Cotton cord.....   | ..do.....        | 804  | 370                         | 1,398               | 1,067                       |
| 229602  | Rayon cord.....  | ..do.....        | 2,376  | 1,603                       | 2,901               | 1,905                       |
| 229603  | Nylon cord.....  | ..do.....        | (D)  | (D)                         | 605                 | 867                         |
| 229609  | Chafer and other tire fabrics.....   | ..do.....        | 1,146  | 838                         | 531                 | 496                         |
| Other fabrics:                                  |  |                  |  |                             |                     |                             |
| 220311  | Cotton.....  | ..do.....        | 64,969   | 49,028                      | 59,001              | 42,550                      |
| 220312  | Rayon.....   | ..do.....        | 17,511   | 9,164                       | 7,560               | 5,435                       |
| 220313  | Nylon.....   | ..do.....        | 7,044  | 11,079                      | (NA)                | 5,230                       |
| 220319  | Other.....   | ..do.....        | 7,270  | 7,945                       | (NA)                | 12,963                      |
| 342956  | Hose fittings and couplings.....   | ..do.....        | (X)  | 6,782                       | ( <sup>3</sup> )    | ( <sup>3</sup> )            |
| 331017  | Steel wire.....  | Short tons.....  | 24,427   | 12,292                      | ( <sup>3</sup> )    | ( <sup>3</sup> )            |
| 970099  | All other materials, and components, parts, containers, and supplies consumed..... | ..do.....        | (X)  | 386,482                     | (X)                 | 356,894                     |
| 973000  | Materials, containers, supplies, n.s.k.....  | ..do.....        | (X)  | <sup>4</sup> 64,285         | (X)                 | <sup>4</sup> 48,543         |
|   |  |                  | INDUSTRY 3079.—PLASTICS PRODUCTS, N.E.C.                                 |                             |                     |                             |
| Materials, containers, supplies, total.....     |  |                  | (X)  | 1,380,471                   | (X)                 | 861,827                     |
| 282130  | Thermoplastic resins including modified resins.....                                | 1,000 pounds.... | 2,143,520  | 503,286                     | 824,331             | 284,657                     |
| 282140  | Thermosetting resins.....  | ..do.....        | 485,223  | 157,789                     | 254,848             | 80,786                      |
| 307911  | Unsupported plastics film and sheeting.....  | ..do.....        | (NA)   | 43,308                      | ( <sup>3</sup> )    | ( <sup>3</sup> )            |
| 307912  | Plastics rods, tubes, and other shapes.....  | ..do.....        | (NA)   | 24,716                      | ( <sup>3</sup> )    | ( <sup>3</sup> )            |
| 281835  | Plasticizers.....  | ..do.....        | 90,027   | 17,913                      | ( <sup>3</sup> )    | ( <sup>3</sup> )            |
| 322931  | Glass fiber, roving, mats, etc.....  | ..do.....        | 38,426   | 19,591                      | ( <sup>3</sup> )    | ( <sup>3</sup> )            |
| 220234  | Cotton fabrics.....  | 1,000 lin. yds.. | 37,598   | 13,946                      | 30,584              | 8,018                       |
| 220239  | Other textile fabrics.....   | ..do.....        | (NA)   | 15,874                      | 13,385              | 8,512                       |
| 970099  | All other materials, and components, parts, containers, and supplies consumed..... | ..do.....        | (X)  | 382,278                     | (X)                 | 307,751                     |
| 973000  | Materials, containers, supplies, n.s.k.....  | ..do.....        | (X)  | <sup>4</sup> 201,770        | (X)                 | <sup>4</sup> 172,103        |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Included in these quantity figures are the following percentages which were produced and consumed in the same establishments, and for which no value is shown: industry 3011—Butadiene-styrene type, less than 1 percent; N-type, between 30 and 60 percent; reclaimed rubber, between 12 and 15 percent; thermoplastic resins, between 10 and 20 percent; industry 3021—Reclaimed rubber, between 25 and 50 percent; industries 3031 and 3069—Reclaimed rubber between 20 and 25 percent; thermosetting resins, between 3 and 5 percent.

<sup>2</sup>Included in these quantity figures are the following percentages which were produced and consumed in the same establishments, and for which no value is shown: industry 3011—Butadiene-styrene type, less than 2 percent; N-type, between 27 and 32 percent; other synthetic rubber, between 2 and 5 percent; reclaimed rubber, less than 10 percent; thermoplastic resins, between 40 and 45 percent; industries 3031 and 3069—Reclaimed rubber, between 25 and 30 percent.

<sup>3</sup>Not separately classified in 1958; included in code 970099.

<sup>4</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested, and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

<sup>5</sup>Includes \$17,190 thousand for industry 3031 and \$1,008,067 thousand for industry 3069.

<sup>6</sup>Includes \$14,923 thousand for industry 3031 and \$750,158 thousand for industry 3069.



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Tires and inner tubes (SIC 3011) | Rubber footwear (SIC 3021) | Reclaimed rubber (SIC 3031) | Rubber products, n.e.c. (SIC 3069) | Plastics products, n.e.c. (SIC 3079) |
|---|----------------------------------|----------------------------|-----------------------------|------------------------------------|--------------------------------------|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 34,585                           | 3,001                      | 3,012                       | 38,092                             | 48,271                               |
| Total cost of purchased fuels.....do....  | 14,371                           | 1,000                      | 841                         | 15,495                             | 13,771                               |
| Bituminous coal, lignite, and anthracite:   |                                  |                            |                             |                                    |                                      |
| Quantity.....1,000 short tons..   | 1,467                            | 8                          | 77                          | 634                                | 153                                  |
| Cost.....\$1,000..  | 9,095                            | 77                         | 357                         | 4,802                              | 1,049                                |
| Coke and breeze:  |                                  |                            |                             |                                    |                                      |
| Quantity.....1,000 short tons..   | -                                | -                          | -                           | -                                  | 2                                    |
| Cost.....\$1,000..  | -                                | -                          | -                           | -                                  | 69                                   |
| Fuel oil (distillate and residual):   |                                  |                            |                             |                                    |                                      |
| Quantity.....1,000 barrels of 42 gallons..  | 303                              | 284                        | (S)                         | 1,810                              | 1,405                                |
| Cost.....\$1,000..  | 892                              | 733                        | (S)                         | 5,280                              | 4,606                                |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |                                  |                            |                             |                                    |                                      |
| Quantity.....million cu.ft..  | 13,070                           | 253                        | 349                         | 8,871                              | 8,504                                |
| Cost.....\$1,000..  | 4,239                            | 134                        | 124                         | 4,213                              | 5,031                                |
| Other fuels.....do....  | 145                              | 56                         | 245                         | 1,200                              | 3,016                                |
| Electric energy:  |                                  |                            |                             |                                    |                                      |
| Purchased:  |                                  |                            |                             |                                    |                                      |
| Quantity.....million kw.-hrs..  | 2,165                            | 138                        | 257                         | 1,761                              | 2,369                                |
| Cost.....\$1,000..  | 20,214                           | 2,001                      | 2,171                       | 22,597                             | 34,500                               |
| Generated less sold.....million kw.-hrs..   | 605                              | (S)                        | (S)                         | 87                                 | (S)                                  |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 1,171                            | 82                         | 127                         | 1,118                              | 1,052                                |
| Prime movers, total.....do....  | 236                              | 5                          | 18                          | 90                                 | 53                                   |
| Driving generators.....do....   | 193                              | 2                          | 17                          | 46                                 | 14                                   |
| Not driving generators.....do....   | 43                               | 3                          | 1                           | 44                                 | 39                                   |
| Electric motors, total.....do....   | 1,124                            | 78                         | 108                         | 1,071                              | 1,001                                |
| Driven by purchased energy.....do....   | 935                              | 76                         | 108                         | 1,027                              | 998                                  |
| Driven by energy generated at establishment.....do....  | 189                              | 2                          | (Z)                         | 44                                 | 3                                    |
| Aggregate horsepower per 100 production workers.....  | 1,733                            | 338                        | 7,475                       | 1,154                              | 853                                  |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

Table 7C. Rubber Consumed in the Rubber Products Industries,  
by Geographic Areas: 1963

| Geographic Area           | Natural rubber          |                             | Synthetic rubber        |                             | Reclaimed rubber        |                             |
|---------------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|-------------------------|-----------------------------|
|                           | Quantity<br>(long tons) | Delivered cost<br>(\$1,000) | Quantity<br>(long tons) | Delivered cost<br>(\$1,000) | Quantity<br>(long tons) | Delivered cost<br>(\$1,000) |
| United States, total..... | 432,225                 | 259,798                     | <sup>1</sup> 1,161,121  | <sup>1</sup> 589,885        | <sup>2</sup> 258,252    | <sup>2</sup> 49,419         |
| New England.....          | 50,660                  | 33,857                      | 108,689                 | 62,437                      | 18,123                  | 2,898                       |
| New Hampshire.....        | (D)                     | (D)                         | 1,885                   | 1,187                       | (D)                     | (D)                         |
| Massachusetts.....        | 24,671                  | 17,337                      | 58,903                  | 34,389                      | 12,100                  | 1,501                       |
| Rhode Island.....         | 6,604                   | 5,161                       | 3,807                   | 2,914                       | (D)                     | (D)                         |
| Connecticut.....          | 18,487                  | 10,820                      | 38,960                  | 21,681                      | (D)                     | (D)                         |
| Middle Atlantic.....      | 43,152                  | 26,286                      | 122,692                 | 66,606                      | 26,471                  | 6,175                       |
| New York.....             | 7,817                   | 4,933                       | 16,545                  | 9,499                       | 2,933                   | 670                         |
| New Jersey.....           | 9,888                   | 6,419                       | 16,651                  | 12,504                      | 3,222                   | 862                         |
| Pennsylvania.....         | 25,447                  | 14,934                      | 89,496                  | 44,603                      | 20,316                  | 4,643                       |
| East North Central.....   | 175,638                 | 103,793                     | 408,236                 | 205,972                     | 105,963                 | 19,994                      |
| Ohio.....                 | 127,442                 | 75,636                      | 240,056                 | 119,751                     | 71,109                  | 12,111                      |
| Indiana.....              | 13,204                  | 7,725                       | 51,160                  | 26,697                      | 17,383                  | 2,988                       |
| Illinois.....             | (D)                     | (D)                         | 16,646                  | 11,037                      | (D)                     | (D)                         |
| Michigan.....             | (D)                     | (D)                         | 74,688                  | 36,080                      | 10,969                  | 3,105                       |
| Wisconsin.....            | 6,779                   | 3,916                       | 25,686                  | 12,407                      | (D)                     | (D)                         |
| West North Central.....   | 35,612                  | 20,612                      | 87,192                  | 42,167                      | 23,278                  | 5,357                       |
| Minnesota.....            | (D)                     | (D)                         | 1,348                   | 1,215                       | (D)                     | (D)                         |
| Missouri.....             | 879                     | 576                         | 6,477                   | 4,488                       | 1,528                   | 365                         |
| Nebraska.....             | 159                     | 111                         | 254                     | 182                         | (D)                     | (D)                         |
| South Atlantic.....       | 22,635                  | 14,118                      | 82,505                  | 41,952                      | 7,467                   | 1,684                       |
| Maryland.....             | 11,862                  | 6,578                       | 32,364                  | 14,473                      | 4,647                   | 999                         |
| Virginia.....             | 1,359                   | 995                         | 3,893                   | 3,207                       | (D)                     | (D)                         |
| North Carolina.....       | 978                     | 600                         | 8,200                   | 4,783                       | (D)                     | (D)                         |
| Georgia.....              | 7,740                   | 5,517                       | 26,213                  | 13,605                      | (D)                     | (D)                         |
| East South Central.....   | 48,105                  | 28,132                      | 165,228                 | 78,656                      | 35,575                  | 6,486                       |
| Tennessee.....            | 23,452                  | 13,867                      | 59,688                  | 29,222                      | 12,742                  | 3,355                       |
| Alabama.....              | (D)                     | (D)                         | (D)                     | (D)                         | 16,389                  | 1,593                       |
| Mississippi.....          | (D)                     | (D)                         | 17,466                  | 9,129                       | (D)                     | (D)                         |
| West South Central.....   | 26,269                  | 15,207                      | 68,067                  | 32,119                      | 14,228                  | 3,126                       |
| West.....                 | 30,154                  | 17,793                      | 118,512                 | 59,976                      | 27,147                  | 3,699                       |
| California.....           | 23,923                  | 13,845                      | 96,417                  | 47,945                      | 15,889                  | 3,528                       |

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies, or valued at less than \$100,000.

<sup>1</sup>Includes less than 1 percent synthetic rubber produced and consumed in the same establishment. Value of this rubber is not reflected in the "delivered cost" column.

<sup>2</sup>Includes 43,642 long tons of reclaimed rubber produced and consumed in the same establishment. Of this total, 6,079 long tons were in New England and 18,161 tons in East North Central. Value of this reclaimed rubber is not reflected in the "delivered cost" column.



TABLE 7D. Rubber Consumed in the Rubber Products Industries, by Type of Rubber and Class of Product: 1963 and 1958

(Long tons)

| Code | Class of product  | 1963           |                  |                  | 1958           |                  |                  |
|------|---|----------------|------------------|------------------|----------------|------------------|------------------|
|      |   | Natural rubber | Synthetic rubber | Reclaimed rubber | Natural rubber | Synthetic rubber | Reclaimed rubber |
|      | Total rubber reported consumed by rubber products industries (3011-3069)..... | 432,225        | 1,161,121        | 258,252          | 464,115        | 781,028          | 247,833          |
|      | Tires and tire products:  |                |                  |                  |                |                  |                  |
| 161  | Passenger car tires.....  | 106,718        | 462,698          | 103,378          | 99,813         | 315,097          | 91,781           |
| 162  | Truck and bus tires (including off-the-highway)..                             | 152,140        | 123,769          | 20,797           | 164,178        | 66,312           | 20,939           |
| 163  | All other pneumatic and solid tires.....                                      | 15,238         | 38,912           | 34,917           | 16,896         | 33,252           | 21,883           |
| 164  | Inner tubes.....  | 2,413          | 37,146           | 4,302            | 3,077          | 39,418           | 5,988            |
| 165  | Tread rubber, tire sundries and repair materials.                             | 16,215         | 130,738          | 6,658            | 18,340         | 103,160          | 7,730            |
|      | Mechanical rubber goods:  |                |                  |                  |                |                  |                  |
| 166  | Flooring (mats, matting, tile, etc.).....                                     | 1,451          | 26,366           | 26,841           | 3,641          | 15,064           | 40,389           |
| 167  | Belting, hoses, and packing.....  | 12,725         | 56,996           | 19,938           | 15,543         | 31,137           | 15,161           |
| 168  | Foam and sponge rubber.....   | 18,869         | 66,525           | 793              | 52,969         | 29,775           | 943              |
| 169  | Other, including flotation equipment, tank tracks, etc.....                   | 34,896         | 105,450          | 20,932           | 23,819         | 64,651           | 24,434           |
| 170  | Tread and cements.....  | 13,036         | 7,365            | 2,452            | 14,751         | 10,876           | 1,906            |
| 171  | Footwear.....   | 20,050         | 15,169           | 1,257            | 18,995         | 5,013            | 1,410            |
| 172  | Shoe products (heels, soles and findings).....                                | 2,696          | 49,821           | 6,067            | 8,038          | 46,778           | 9,369            |
| 173  | Druggist and medical sundries.....  | 5,601          | 1,333            | 15               | 4,259          | 736              | 5                |
| 174  | Compounds and mixtures (produced for sale as such) <sup>1</sup>               | 10,190         | 18,214           | 6,915            | 5,841          | 4,318            | 1,659            |
| 175  | All other rubber products, including proofed goods.                           | 19,984         | 20,619           | 2,990            | 13,955         | 15,441           | 4,236            |

<sup>1</sup>Respondents were requested to include in this table the rubber reported in table 7A under code 306980. Since this involves some duplication of rubber reported above under code 174, the quantities in code 174 were reduced so that total rubber consumed would equal the totals reported in tables 7A for codes 086113-15, 282203-09, and 303101.

**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization                                   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3011-                          | <b>TIRES AND INNER TUBES</b>   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 155                     | 85,259         | 621,741           | 66,268             | 131,783           | 460,145         | 1,321,712                                      | 1,623,090                   | 2,949,673                    | 112,783                             |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 130                     | 65,989         | 484,645           | 51,605             | 103,238           | 363,880         | 1,070,483                                      | 1,330,421                   | 2,408,257                    | 93,347                              |
| 30111                          | Passenger car and motorcycle pneumatic tires (primary product class of estab.).....      | 39                      | 69,654         | 518,553           | 53,613             | 107,205           | 384,289         | 1,068,161                                      | 1,312,643                   | 2,373,623                    | 91,853                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 5                       | 2,463          | 14,874            | 1,877              | 3,482             | 10,665          | 42,350   | 55,035                      | 86,767                       | (D)                                 |
|                                | 75-89% specialization.....   | 7                       | 5,849          | 42,909            | 4,164              | 8,412             | 29,632          | 88,316   | 133,776                     | 235,362                      | (D)                                 |
| 30113                          | Other pneumatic tires and solid tires (primary product class of estab.).....             | 18                      | 4,473          | 29,068            | 3,392              | 6,264             | 19,730          | 45,367   | 45,930                      | 92,191                       | 1,802                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 9                       | 256            | 1,193             | 210                | 464               | 754             | 3,119  | 3,117                       | 6,014                        | 146                                 |
|                                | 75-89% specialization.....   | 3                       | 668            | 3,997             | 542                | 1,038             | 2,976           | 7,231  | 7,916                       | 15,143                       | (D)                                 |
| 30115                          | Tread rubber, tire sundries, and repair materials (primary product class of estab.)..... | 82                      | 2,259          | 13,582            | 1,726              | 3,571             | 8,351           | 35,043   | 49,341                      | 84,341                       | 1,360                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 74                      | 1,817          | 11,071            | 1,405              | 2,917             | 6,909           | 28,960   | 41,002                      | 70,223                       | 1,147                               |
| 3069-                          | <b>RUBBER PRODUCTS, N.E.C.</b>   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 1,173                   | 132,228        | 760,761           | 100,581            | 203,392           | 516,065         | 1,427,022                                      | 1,171,331                   | 2,597,999                    | 64,955                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 968                     | 78,336         | 435,737           | 61,246             | 124,937           | 302,604         | 862,804  | 673,632                     | 1,532,225                    | 40,219                              |
|                                | 75-89% specialization.....   | 77                      | 25,416         | 156,704           | 17,739             | 35,037            | 97,330          | 251,328  | 253,524                     | 508,251                      | 11,216                              |
| 30691                          | Rubber belts and belting (primary product class of estab.).....                          | 25                      | 15,586         | 103,718           | 9,818              | 18,428            | 58,223          | 173,934  | 136,343                     | 310,664                      | 7,141                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 14                      | 1,375          | 8,299             | 1,024              | 2,118             | 5,542           | 22,607   | 11,660                      | 33,674                       | 448                                 |
| 30692                          | Rubber hose and tubing (primary product class of estab.).....                            | 52                      | 12,667         | 77,909            | 9,738              | 20,111            | 56,040          | 153,216  | 124,248                     | 278,630                      | 6,873                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 29                      | 2,635          | 13,997            | 2,135              | 4,370             | 10,400          | 32,821   | 33,169                      | 66,545                       | 1,475                               |
| 30693                          | Sponge and foam rubber goods (primary product class of estab.).....                      | 83                      | 12,027         | 77,636            | 9,304              | 19,325            | 55,836          | 152,872  | 139,623                     | 293,534                      | 7,721                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 67                      | 3,529          | 20,312            | 2,642              | 5,359             | 13,449          | 38,975   | 42,737                      | 81,814                       | 3,111                               |
|                                | 75-89% specialization.....   | 6                       | 471            | 3,276             | 373                | 803               | 2,237           | 9,081  | 11,379                      | 20,392                       | 425                                 |
| 30694                          | Rubber floor and wall covering (primary product class of estab.).....                    | 26                      | 3,056          | 16,496            | 2,458              | 5,104             | 11,790          | 34,469   | 27,599                      | 60,410                       | 2,399                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 17                      | 821            | 4,273             | 672                | 1,393             | 2,979           | 7,478  | 5,340                       | 12,377                       | 617                                 |
| 30695                          | Mechanical rubber goods, n.e.c. (primary product class of estab.).....                   | 379                     | 52,781         | 302,605           | 41,656             | 85,413            | 215,037         | 528,192  | 375,959                     | 905,355                      | 22,856                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 262                     | 25,186         | 139,567           | 20,153             | 41,517            | 98,957          | 241,890  | 156,000                     | 396,970                      | 12,019                              |
|                                | 75-89% specialization.....   | 49                      | 9,326          | 54,681            | 7,154              | 14,671            | 38,285          | 100,613  | 78,952                      | 179,871                      | 4,549                               |
| 30696                          | Rubber heels and soles (primary product class of estab.).....                            | 29                      | 7,660          | 34,875            | 6,362              | 12,757            | 26,705          | 68,786   | 70,652                      | 139,202                      | 3,239                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 17                      | 4,714          | 21,956            | 3,910              | 7,918             | 16,724          | 46,250   | 44,243                      | 89,922                       | 1,710                               |
|                                | 75-89% specialization.....   | 5                       | 509            | 2,451             | 434                | 916               | 1,811           | 3,798  | 3,870                       | 7,788                        | 459                                 |
| 30697                          | Druggist and medical sundries (primary product class of estab.).....                     | 30                      | 5,619          | 28,958            | 4,324              | 8,474             | 19,374          | 61,383   | 33,151                      | 94,488                       | 2,187                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 21                      | 2,424          | 12,627            | 1,971              | 3,965             | 8,595           | 29,498   | 14,857                      | 44,539                       | 1,056                               |

See footnotes at end of table.



TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
|                                | RUBBER PRODUCTS, N.E.C.—Continued   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
| 30698                          | Other rubber goods, n.e.c. (primary product class of estab.).....   | 301                     | 19,817         | 105,702           | 14,464             | 28,930            | 63,864          | 224,302  | 241,770                     | 463,901                      | 9,673                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 216                     | 7,251          | 37,143            | 5,514              | 11,206            | 22,278          | 90,989   | 110,182                     | 201,046                      | 3,168                               |
|                                | 75-89% specialization.....  | 29                      | 3,891          | 19,378            | 2,802              | 5,259             | 11,636          | 42,647   | 44,117                      | 85,644                       | 1,104                               |
| 3079-                          | PLASTICS PRODUCTS, N.E.C.   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 4,334                   | 166,315        | 837,572           | 134,327            | 271,976           | 579,990         | 1,660,882                                      | 1,522,899                   | 3,165,440                    | 157,516                             |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 3,810                   | 125,045        | 621,669           | 101,001            | 204,387           | 431,266         | 1,261,286                                      | 1,162,162                   | 2,408,808                    | 120,522                             |
|                                | 75-89% specialization.....  | 201                     | 16,088         | 80,946            | 13,103             | 26,331            | 55,912          | 157,977  | 172,240                     | 291,349                      | 11,863                              |
| 30791                          | Unsupported plastics film, sheets, sheeting, rods, tubes, and other stock shapes, from purchased resin materials (primary product class of estab.)..... | 346                     | 16,639         | 98,384            | 13,162             | 28,546            | 67,685          | 205,293  | 249,580                     | 454,597                      | 27,505                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 281                     | 10,095         | 59,990            | 7,839              | 17,187            | 40,245          | 134,516  | 155,471                     | 289,460                      | 14,756                              |
|                                | 75-89% specialization.....  | 19                      | 1,691          | 9,093             | 1,418              | 3,075             | 6,903           | 15,418   | 26,231                      | 40,892                       | 2,843                               |
| 30792                          | Foam plastics products (primary product class of estab.).....   | 206                     | 9,460          | 47,883            | 7,642              | 15,385            | 34,296          | 105,155  | 140,206                     | 243,142                      | 8,094                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 166                     | 4,701          | 20,841            | 3,760              | 7,487             | 13,994          | 50,555   | 80,065                      | 129,449                      | 3,641                               |
|                                | 75-89% specialization.....  | 7                       | 258            | 1,234             | 190                | 363               | 821             | 2,588  | 3,661                       | 6,255                        | 254                                 |
| 30793                          | Laminated sheets, rods, and tubes (primary product class of estab.).....  | 147                     | 11,404         | 67,102            | 8,511              | 17,887            | 42,724          | 141,046  | 130,796                     | 269,489                      | 9,639                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 106                     | 6,614          | 40,557            | 5,179              | 10,964            | 27,424          | 94,234   | 81,621                      | 175,121                      | 3,372                               |
| 30794                          | Packaging and shipping containers, plastics (primary product class of estab.).....  | 321                     | 25,576         | 123,620           | 20,776             | 41,113            | 86,895          | 239,060  | 191,684                     | 428,651                      | 34,620                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 226                     | 18,651         | 90,281            | 14,960             | 29,571            | 63,009          | 180,199  | 145,928                     | 324,446                      | 24,583                              |
|                                | 75-89% specialization.....  | 30                      | 1,688          | 8,565             | 1,427              | 2,857             | 6,495           | 16,324   | 11,400                      | 27,660                       | 4,074                               |
| 30795                          | Industrial plastics products (primary product class of estab.).....   | 945                     | 50,212         | 259,249           | 41,340             | 84,782            | 183,102         | 460,093  | 384,927                     | 840,695                      | 31,400                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 624                     | 25,806         | 133,142           | 21,284             | 43,656            | 93,015          | 241,474  | 197,716                     | 437,842                      | 16,229                              |
|                                | 75-89% specialization.....  | 126                     | 8,665          | 42,695            | 7,283              | 14,836            | 31,094          | 76,933   | 66,712                      | 142,649                      | 4,980                               |
| 30796                          | Construction plastics products (primary product class of estab.).....   | 193                     | 9,995          | 53,544            | 7,446              | 15,382            | 34,132          | 131,538  | 120,968                     | 249,383                      | 9,399                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 155                     | 6,448          | 35,351            | 4,678              | 9,680             | 22,247          | 91,845   | 85,200                      | 174,085                      | 6,129                               |
|                                | 75-89% specialization.....  | 11                      | 1,434          | 7,047             | 1,088              | 2,242             | 4,530           | 17,277   | 14,152                      | 31,341                       | 1,229                               |
| 30797                          | Plastics dinnerware, tableware, and kitchenware (primary product class of estab.).....  | 90                      | 7,475          | 33,747            | 6,059              | 11,512            | 23,265          | 79,882   | 66,812                      | 146,251                      | 7,160                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 54                      | 3,988          | 16,337            | 3,274              | 6,187             | 11,506          | 45,385   | 43,224                      | 87,304                       | 4,333                               |
|                                | 75-89% specialization.....  | 10                      | 1,007          | 5,746             | 808                | 1,667             | 3,921           | 10,555   | 6,932                       | 17,745                       | 464                                 |
| 30798                          | Consumer and commercial plastics products, n.e.c. (primary product class of estab.).....  | 866                     | 24,700         | 111,926           | 20,338             | 40,083            | 76,537          | 214,091  | 175,182                     | 386,586                      | 17,457                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 648                     | 13,096         | 56,337            | 10,814             | 21,490            | 38,742          | 106,378  | 91,153                      | 196,370                      | 8,708                               |
|                                | 75-89% specialization.....  | 83                      | 4,006          | 18,714            | 3,269              | 6,483             | 12,619          | 38,140   | 28,706                      | 66,130                       | 3,655                               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.





## Leather and Leather Products

31A Tanning; shoes; industrial leather goods

31B Leather gloves; luggage; and misc. leather goods

This major group includes establishments engaged in tanning, currying, and finishing hides and skins; and establishments manufacturing finished leather and artificial leather products and some similar products made of other materials. Leather "converters" who assign hides and skins to contractors for tanning and finishing are included in Industry 3111, Leather Tanning and Finishing.

# LEATHER AND LEATHER PRODUCTS: MAJOR GROUP 31

Value Added by Manufacture by State: 1963

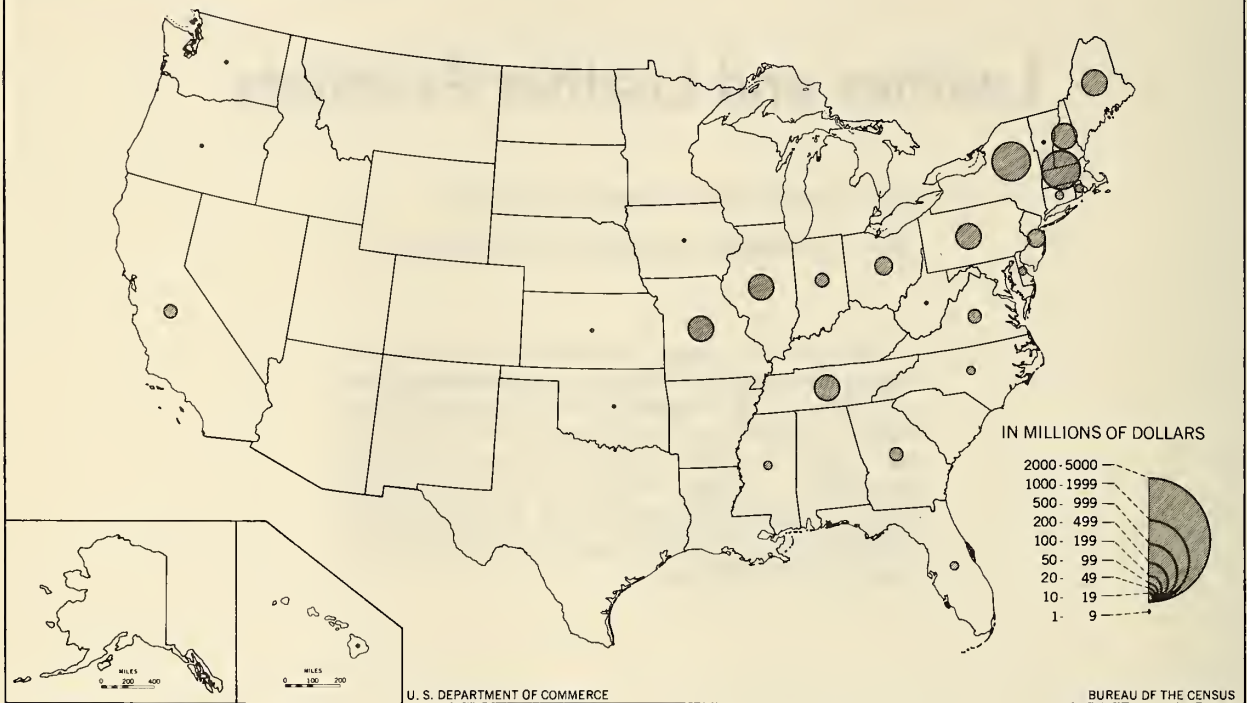




TABLE 1. General Statistics: 1963 and Earlier Years

| Year and item                                   | Establishments |                                    | All employees <sup>1</sup> |                   | Production workers |                   |                 | Value added by manufacture, adjusted <sup>2</sup> | Cost of materials <sup>3</sup> | Value of shipments <sup>3</sup> | Capital expenditures, new <sup>4</sup> |
|---|----------------|------------------------------------|----------------------------|-------------------|--------------------|-------------------|-----------------|---|--------------------------------|---------------------------------|--|
|   | Total (number) | With 20 employees or more (number) | Total (number)             | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |   |                                |                                 |  |
| <b>ALL MANUFACTURING ESTABLISHMENTS, TOTAL:</b> |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 . . . . .                                  | 4 120          | 2 114                              | 335 071                    | 1 278 064         | 292 339            | 543 094           | 982 096         | 2 078 572   | 2 127 776                      | 4 209 614                       | 34 566                                 |
| 1958 . . . . .                                  | 4 617          | 2 259                              | 358 484                    | 1 192 168         | 310 145            | 566 033           | 912 256         | 1 898 007   | (NA)                           | 3 896 165                       | 31 825                                 |
| 1954 . . . . .                                  | (NA)           | (NA)                               | 365 334                    | 1 065 196         | 321 161            | 586 857           | 833 694         | 1 640 804   | (NA)                           | (NA)                            | 28 053                                 |
| <b>ADMINISTRATIVE AND AUXILIARY UNITS:</b>      |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 <sup>5</sup> . . . . .                     | 73             | 41                                 | 7 582                      | 50 240            | (X)                | (X)               | (X)             | (X)   | (X)                            | (X)                             | (X)                                    |
| 1958 <sup>5</sup> . . . . .                     | 68             | 32                                 | 9 319                      | 46 203            | (X)                | (X)               | (X)             | (X)   | (X)                            | (X)                             | (X)                                    |
| 1954 <sup>5</sup> . . . . .                     | (NA)           | (NA)                               | 8 756                      | 37 882            | (X)                | (X)               | (X)             | (X)   | (X)                            | (X)                             | (X)                                    |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 . . . . .                                  | 4 047          | 2 073                              | 327 489                    | 1 227 824         | 292 339            | 543 094           | 982 096         | 2 078 572   | 2 127 776                      | 4 209 614                       | 34 566                                 |
| 1958 . . . . .                                  | 4 549          | 2 227                              | 349 165                    | 1 145 965         | 310 145            | 566 033           | 912 256         | 1 898 007   | (NA)                           | 3 896 165                       | 31 825                                 |
| 1954 . . . . .                                  | 4 845          | 2 267                              | 356 578                    | 1 027 314         | 321 161            | 586 857           | 833 694         | 1 640 804   | (NA)                           | (NA)                            | 28 053                                 |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1962 <sup>6</sup> . . . . .                     | (NA)           | (NA)                               | 345 556                    | 1 255 465         | 307 561            | 569 147           | 1 000 341       | 2 101 619   | 2 192 971                      | 4 307 408                       | 35 735                                 |
| 1961 <sup>6</sup> . . . . .                     | (NA)           | (NA)                               | 350 680                    | 1 224 517         | 311 664            | 567 950           | 969 566         | 2 040 786   | 2 135 975                      | 4 186 276                       | 34 743                                 |
| 1960 <sup>6</sup> . . . . .                     | (NA)           | (NA)                               | 357 682                    | 1 227 298         | 317 267            | 581 528           | 971 626         | 2 043 601   | (NA)                           | (NA)                            | 34 677                                 |
| 1959 <sup>6</sup> . . . . .                     | (NA)           | (NA)                               | 363 340                    | 1 246 215         | 323 665            | 601 045           | 992 570         | 2 120 655   | (NA)                           | (NA)                            | 34 102                                 |
| 1957 <sup>6</sup> . . . . .                     | (NA)           | (NA)                               | 361 945                    | 1 156 661         | 322 788            | 589 507           | 938 535         | 1 891 636   | (NA)                           | (NA)                            | 31 733                                 |
| 1956 <sup>6</sup> . . . . .                     | (NA)           | (NA)                               | 366 821                    | 1 149 229         | 328 782            | 606 690           | 938 564         | 1 881 647   | (NA)                           | (NA)                            | 36 813                                 |
| 1955 <sup>6</sup> . . . . .                     | (NA)           | (NA)                               | 366 204                    | 1 102 212         | 329 533            | 613 385           | 895 596         | 1 778 079   | (NA)                           | (NA)                            | 37 433                                 |
| 1953 <sup>6</sup> . . . . .                     | (NA)           | (NA)                               | 375 364                    | 1 098 806         | 338 355            | 629 498           | 896 502         | 1 711 066   | (NA)                           | (NA)                            | 24 678                                 |
| 1952 <sup>6</sup> . . . . .                     | 5 012          | (NA)                               | 361 373                    | 1 015 535         | 324 008            | 605 356           | 834 103         | 1 597 377   | (NA)                           | (NA)                            | 18 745                                 |
| 1951 <sup>6</sup> . . . . .                     | 4 883          | (NA)                               | 353 770                    | 944 582           | 317 604            | 575 635           | 767 982         | 1 475 451   | (NA)                           | (NA)                            | 22 385                                 |
| 1950 <sup>6</sup> . . . . .                     | 4 903          | (NA)                               | 385 123                    | 949 271           | 341 733            | 629 260           | 773 381         | 1 498 811   | (NA)                           | (NA)                            | 25 791                                 |
| 1949 <sup>6</sup> . . . . .                     | (NA)           | (NA)                               | 375 246                    | 891 734           | 337 483            | 609 556           | 721 888         | 1 386 550   | (NA)                           | (NA)                            | 29 618                                 |
| 1947 . . . . .                                  | 5 308          | (NA)                               | 383 264                    | 873 746           | 348 615            | 677 001           | 725 308         | 1 533 028   | (NA)                           | (NA)                            | 31 301                                 |
| 1939 . . . . .                                  | 3 505          | (NA)                               | (NA)                       | (NA)              | 327 189            | (NA)              | 293 922         | 582 915   | (NA)                           | (NA)                            | (NA)                                   |
| 1937 . . . . .                                  | 3 249          | (NA)                               | (NA)                       | (NA)              | 328 551            | (NA)              | 308 027         | 583 780   | (NA)                           | (NA)                            | (NA)                                   |
| 1935 . . . . .                                  | 3 506          | (NA)                               | 336 112                    | 333 427           | 310 755            | (NA)              | 279 740         | 530 138   | (NA)                           | (NA)                            | (NA)                                   |
| 1933 . . . . .                                  | 3 265          | (NA)                               | 301 951                    | 254 071           | 282 000            | (NA)              | 222 487         | 452 036   | (NA)                           | (NA)                            | (NA)                                   |
| 1931 . . . . .                                  | 3 702          | (NA)                               | (NA)                       | (NA)              | 272 757            | (NA)              | 262 130         | 523 676   | (NA)                           | (NA)                            | (NA)                                   |
| 1929 . . . . .                                  | 4 285          | (NA)                               | 351 224                    | 443 827           | 318 472            | (NA)              | 359 461         | 774 179   | (NA)                           | (NA)                            | (NA)                                   |
| 1927 . . . . .                                  | 4 272          | (NA)                               | 350 380                    | 443 832           | 316 081            | (NA)              | 364 537         | 780 799   | (NA)                           | (NA)                            | (NA)                                   |
| 1925 . . . . .                                  | 4 252          | (NA)                               | (NA)                       | (NA)              | 314 128            | (NA)              | 355 419         | 751 004   | (NA)                           | (NA)                            | (NA)                                   |
| 1923 . . . . .                                  | 4 881          | (NA)                               | (NA)                       | (NA)              | 345 650            | (NA)              | 389 677         | 797 259   | (NA)                           | (NA)                            | (NA)                                   |
| 1921 . . . . .                                  | 4 827          | (NA)                               | 313 877                    | 385 184           | 280 363            | (NA)              | 314 652         | 610 382   | (NA)                           | (NA)                            | (NA)                                   |
| 1919 . . . . .                                  | 6 423          | (NA)                               | 394 104                    | 469 321           | 350 079            | (NA)              | 364 036         | 898 313   | (NA)                           | (NA)                            | (NA)                                   |
| 1914 . . . . .                                  | 6 798          | (NA)                               | 340 741                    | 213 331           | 308 223            | (NA)              | 169 917         | 353 280   | (NA)                           | (NA)                            | (NA)                                   |
| 1909 . . . . .                                  | 5 785          | (NA)                               | 339 992                    | 190 969           | 311 312            | (NA)              | 155 814         | 325 203   | (NA)                           | (NA)                            | (NA)                                   |
| 1904 . . . . .                                  | 5 376          | (NA)                               | 284 300                    | 141 004           | 266 013            | (NA)              | 121 436         | 246 064   | (NA)                           | (NA)                            | (NA)                                   |
| 1899 . . . . .                                  | 5 685          | (NA)                               | 265 218                    | 117 404           | 249 913            | (NA)              | 101 982         | 186 870   | (NA)                           | (NA)                            | (NA)                                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The figures for 1939 through 1963 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>2</sup>For the period 1954 to 1963, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. For industries reporting the value of production, the adjustment for the change in finished products inventories was not made. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. For 1899 to 1933, cost of contract work was not subtracted from value of products in calculating value added by manufacture. See Introduction, "Value Added by Manufacture."

<sup>3</sup>The cost of materials and value of shipments figures (2- and 3-digit) include unmeasurable but substantial duplication arising from interplant transfers between establishments within the same industry classification. For a more complete explanation, see Introduction.

<sup>4</sup>For 1958 to 1963, includes expenditures for establishments under construction but not in operation.

<sup>5</sup>In addition to data for operating establishments, 1954, 1958, and 1963 data are shown for manufacturers' central administrative offices and auxiliary units. Similar data are shown for the years 1949-1953 in the annual survey of manufactures volumes. Data for these establishments are not available for the years 1955 to 1957, 1959 to 1962, or prior to 1949.

<sup>6</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Code | Industry group and geographic area                | 1963           |                                    |                |                   |                    |                   |                 |  | 1958                                |                        |  |
|------|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 31   | LEATHER & LEATHER PRODUCTS, TOTAL                 | 4 047          | 2 073                              | 327 489        | 1 227 824         | 292 339            | 543 094           | 982 096         | 2 078 572                                      | 34 566                              | 349 165                | 1 898 007                                      |
|      | NORTHEAST   | 2 691          | 1 374                              | 192 685        | 728 597           | 171 822            | 315 993           | 579 919         | 1 136 649                                      | 17 034                              | 211 822                | 1 104 696                                      |
|      | NEW ENGLAND                                       | 956            | 557                                | 97 728         | 377 887           | 86 692             | 156 648           | 298 012         | 3 574 422                                      | 8 313                               | 108 625                | 573 158  |
|      | MAINE   | 125            | 98                                 | 24 699         | 91 459            | 22 210             | 41 719            | 73 512          | 135 204  | 1 931                               | 21 519                 | 101 125  |
|      | NEW HAMPSHIRE                                     | 115            | 86                                 | 20 137         | 72 942            | 18 186             | 32 242            | 60 049          | 104 325  | 1 933                               | 20 256                 | 97 339   |
|      | VERMONT   | 9              | 7                                  | 748            | 2 633             | 590                | 1 198             | 2 274           | 4 463  | 88                                  | 689                    | 3 713  |
|      | MASSACHUSETTS                                     | 640            | 329                                | 48 362         | 196 820           | 42 335             | 75 099            | 151 748         | 306 135  | 4 039                               | 61 062                 | 342 203  |
|      | RHODE ISLAND                                      | 31             | 14                                 | 1 200          | 4 907             | 1 016              | 1 963             | 3 060           | 10 997   | 129                                 | 1 643                  | 9 522  |
|      | CONNECTICUT                                       | 36             | 23                                 | 2 582          | 9 126             | 2 355              | 4 427             | 7 369           | 13 298   | 193                                 | 3 456                  | 19 256   |
|      | MIDDLE ATLANTIC                                   | 1 735          | 817                                | 94 957         | 350 710           | 85 130             | 159 345           | 281 907         | 562 227  | 8 721                               | 103 197                | 531 538  |
|      | NEW YORK  | 1 279          | 529                                | 51 959         | 192 705           | 46 134             | 85 813            | 152 207         | 314 998  | 4 637                               | 58 795                 | 311 675  |
|      | NEW JERSEY  | 197            | 107                                | 11 570         | 48 899            | 10 340             | 19 355            | 38 206          | 79 479   | 1 164                               | 12 087                 | 67 248   |
|      | PENNSYLVANIA                                      | 259            | 181                                | 31 428         | 109 106           | 28 656             | 54 177            | 91 494          | 167 750  | 2 920                               | 32 315                 | 152 615  |
|      | NORTH CENTRAL                                     | 648            | 387                                | 78 169         | 299 438           | 69 509             | 129 841           | 240 341         | 574 028  | 10 079                              | 89 468                 | 527 119  |
|      | EAST NORTH CENTRAL                                | 448            | 241                                | 47 905         | 198 351           | 42 216             | 80 126            | 156 553         | 364 667  | 6 036                               | 52 741                 | 326 470  |
|      | OHIO  | 83             | 38                                 | 9 622          | 38 738            | 8 514              | 15 918            | 30 575          | 67 073   | 1 555                               | 10 920                 | 62 456   |
|      | INDIANA   | 28             | 16                                 | 3 029          | 11 058            | 2 822              | 5 514             | 9 803           | 20 919   | 276                                 | 2 640                  | 15 727   |
|      | ILLINOIS  | 177            | 82                                 | 16 242         | 62 633            | 14 743             | 27 413            | 51 319          | 117 229  | 1 271                               | (D)                    | (D)  |
|      | MICHIGAN  | 32             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | WISCONSIN   | 128            | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | 46 924                 | 108 367  |
|      | WEST NORTH CENTRAL                                | 200            | 146                                | 30 264         | 101 087           | 27 293             | 49 715            | 83 788          | 209 361  | 4 043                               | 36 727                 | 200 649  |
|      | MINNESOTA   | 17             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | IDAWA   | 12             | 8                                  | 662            | 2 078             | 534                | 893               | 1 404           | 3 248  | 31                                  | 290                    | 958  |
|      | MISSOURI  | 159            | 125                                | 27 902         | 90 693            | 25 300             | 45 957            | 76 414          | 190 517  | 3 753                               | 34 605                 | 188 115  |
|      | NEBRASKA  | 5              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | 113                    | 447  |
|      | KANSAS  | 7              | 1                                  | 106            | 386               | 82                 | 152               | 283             | 677  | 17                                  | (D)                    | (D)  |
|      | SDUTH   | 405            | 223                                | 47 182         | 156 310           | 43 112             | 82 432            | 131 319         | 297 182  | 5 933                               | 39 202                 | 205 819  |
|      | SDUTH ATLANTIC                                    | 173            | 95                                 | 16 713         | 56 728            | 14 879             | 28 291            | 45 307          | 96 396   | 1 726                               | 15 833                 | 74 505   |
|      | DELAWARE  | 10             | 10                                 | 1 718          | 7 306             | 1 384              | 2 783             | 5 510           | 13 503   | 350                                 | 1 738                  | 12 014   |
|      | MARYLAND  | 22             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | 2 491                  | 10 849   |
|      | VIRGINIA  | 20             | 19                                 | 4 313          | 13 777            | 3 923              | 7 153             | 11 644          | 19 664   | 286                                 | 5 029                  | 19 174   |
|      | WEST VIRGINIA                                     | 8              | 6                                  | 842            | 3 132             | 787                | 1 559             | 2 851           | 4 830  | 106                                 | 819                    | 5 073  |
|      | NDRTN CAROLINA                                    | 31             | 11                                 | 1 591          | 5 480             | 1 289              | 2 400             | 3 718           | 11 040   | 157                                 | 1 307                  | 6 870  |
|      | SDUTH CAROLINA                                    | 6              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | 56                     | 375  |
|      | GEORGIA   | 27             | 17                                 | 3 957          | 12 990            | 3 750              | 7 504             | 11 066          | 25 085   | 332                                 | 3 504                  | 15 247   |
|      | FLORIDA   | 49             | 17                                 | 1 812          | 5 686             | 1 572              | 2 928             | 4 264           | 9 701  | 227                                 | 889                    | 4 903  |
|      | EAST SDUTH CENTRAL                                | 107            | 77                                 | 20 778         | 69 975            | 19 298             | 37 483            | 61 284          | 147 465  | 3 260                               | 16 072                 | 97 139   |
|      | KENTUCKY  | 17             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | 2 222                  | 13 335   |
|      | TENNESSEE   | 78             | 57                                 | 15 227         | 51 728            | 14 106             | 27 399            | 44 619          | 107 990  | 2 233                               | 11 850                 | 71 655   |
|      | ALABAMA   | 5              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | MISSISSIPPI                                       | 7              | 6                                  | 2 161          | 6 475             | 2 007              | 3 907             | 5 925           | 16 258   | (D)                                 | (D)                    | (D)  |
|      | WEST SDUTH CENTRAL                                | 125            | 51                                 | 9 691          | 29 607            | 8 935              | 16 658            | 24 728          | 53 321   | 947                                 | 7 297                  | 34 175   |
|      | ARKANSAS  | 24             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | 3 947                  | 20 663   |
|      | LOUISIANA   | 3              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | OKLAHOMA  | 14             | 3                                  | 384            | 1 154             | 351                | 637               | 894             | 1 896  | 25                                  | (D)                    | (D)  |
|      | TEXAS   | 84             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | WEST  | 302            | 88                                 | 9 392          | 43 279            | 7 835              | 14 687            | 30 317          | 70 326   | 1 510                               | 8 673                  | 60 373   |
|      | MDUNTAIN  | 38             | 10                                 | 2 956          | 14 955            | 2 348              | 4 549             | 9 895           | 26 118   | 750                                 | 2 201                  | 19 690   |
|      | MONTANA   | 1              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | IDAHO   | 5              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | COLORADO  | 17             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | NEW MEXICO  | 5              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | ARIZONA   | 6              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | UTAH  | 4              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | PACIFIC   | 264            | 78                                 | 6 436          | 28 324            | 5 487              | 10 138            | 20 422          | 44 208   | 760                                 | 6 472                  | 40 683   |
|      | WASHINGTON  | 14             | 3                                  | 334            | 1 363             | 277                | 452               | 869             | 1 821  | 17                                  | (D)                    | (D)  |
|      | OREGON  | 32             | 4                                  | 290            | 1 222             | 253                | 505               | 879             | 2 249  | 48                                  | (D)                    | (D)  |
|      | CALIFORNIA  | 204            | 68                                 | 5 683          | 25 288            | 4 849              | 9 002             | 18 279          | 39 415   | 661                                 | 5 786                  | 37 157   |
|      | HAWAII  | 14             | 3                                  | 129            | 451               | 108                | 179               | 395             | 723  | 34                                  | (D)                    | (D)  |
| 311  | LEATHER TANNING AND FINISHING, TOTAL <sup>1</sup> | 525            | 256                                | 31 417         | 163 307           | 27 282             | 54 556            | 129 756         | 273 092  | 6 480                               | 37 130                 | 275 796  |
| 312  | INDUSTRIAL LEATHER BELTING, TOTAL <sup>1</sup>    | 83             | 23                                 | 2 870          | 15 897            | 2 099              | 4 198             | 9 723           | 32 915   | 742                                 | 3 975                  | 36 300   |
| 313  | FOOTWEAR CUT STOCK, TOTAL <sup>1</sup>            | 446            | 204                                | 14 339         | 53 420            | 12 600             | 23 694            | 40 867          | 90 611   | 1 620                               | 18 031                 | 98 380   |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area               | 1963           |                                    |                |                   |                    |                   |                 |  | 1958                                |                        |  |     |
|------|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|-----|
|      |  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |     |
|      |  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |     |
| 314  | FOOTWEAR, EXCEPT RUBBER, TOTAL . . .             | 1 193          | 912                                | 212 767        | 753 359           | 192 795            | 352 223           | 619 751         | 1 279 295                                      | 19 570                              | 226 928                | 1 146 409                                      | 314 |
|      | NORTHEAST . . . . .                              | 732            | 563                                | 119 034        | 431 843           | 107 416            | 193 937           | 350 866         | 647 703  | 9 339                               | 129 713                | 620 280  | 314 |
|      | NEW ENGLAND . . . . .                            | 348            | 288                                | 73 736         | 272 931           | 66 089             | 117 398           | 219 167         | 400 795  | 4 836                               | 79 045                 | 382 821  | 314 |
|      | MAINE . . . . .                                  | 78             | 66                                 | 21 338         | 77 725            | 19 243             | 35 902            | 62 604          | 113 116  | 1 307                               | 19 233                 | 88 388   | 314 |
|      | NEW HAMPSHIRE . . . . .                          | 60             | 53                                 | 17 014         | 59 678            | 15 436             | 26 929            | 49 390          | 86 178   | 1 440                               | 16 871                 | 77 937   | 314 |
|      | MASSACHUSETTS . . . . .                          | 190            | 151                                | 33 424         | 129 017           | 29 597             | 51 184            | 101 826         | 191 611  | 1 963                               | 41 071                 | 208 619  | 314 |
|      | MIDDLE ATLANTIC . . . . .                        | 384            | 275                                | 45 298         | 158 912           | 41 327             | 76 539            | 131 699         | 246 908  | 4 503                               | 50 668                 | 237 459  | 314 |
|      | NEW YORK . . . . .                               | 226            | 139                                | 18 312         | 67 467            | 16 410             | 29 862            | 54 333          | 107 859  | 1 978                               | 25 319                 | 125 481  | 314 |
|      | NEW JERSEY . . . . .                             | 21             | 17                                 | 2 064          | 8 635             | 1 911              | 3 173             | 6 528           | 11 933   | 214                                 | 1 710                  | 8 696  | 314 |
|      | PENNSYLVANIA . . . . .                           | 137            | 119                                | 24 922         | 82 810            | 23 006             | 43 504            | 70 838          | 127 116  | 2 311                               | 23 639                 | 103 282  | 314 |
|      | NORTH CENTRAL . . . . .                          | 218            | 188                                | 55 175         | 195 804           | 49 828             | 90 881            | 162 015         | 391 163  | 5 972                               | 65 040                 | 361 945  | 314 |
|      | EAST NORTH CENTRAL . . . . .                     | 120            | 103                                | 31 536         | 120 209           | 28 167             | 51 876            | 96 929          | 226 514  | 2 898                               | 34 712                 | 197 882  | 314 |
|      | OHIO . . . . .                                   | 23             | 19                                 | 7 434          | 28 842            | 6 654              | 12 288            | 22 839          | 46 007   | 948                                 | 8 561                  | 45 883   | 314 |
|      | WISCONSIN . . . . .                              | 45             | 41                                 | 8 808          | 35 476            | 7 354              | 13 752            | 25 922          | 60 137   | 602                                 | 10 006                 | 57 579   | 314 |
|      | WEST NORTH CENTRAL . . . . .                     | 98             | 85                                 | 23 639         | 75 595            | 21 661             | 39 005            | 65 086          | 164 649  | 3 074                               | 30 328                 | 164 063  | 314 |
|      | SOUTH AND WEST . . . . .                         | 243            | 161                                | 38 558         | 125 712           | 35 551             | 67 405            | 106 870         | 240 429  | 4 259                               | 32 175                 | 164 184  | 314 |
|      | MARYLAND . . . . .                               | 12             | 11                                 | 1 847          | 5 896             | 1 614              | 2 929             | 4 399           | 7 857  | 122                                 | 1 936                  | 8 165  | 314 |
|      | NORTH CAROLINA . . . . .                         | 8              | 6                                  | 1 227          | 3 949             | 996                | 1 808             | 2 642           | 8 489  | 129                                 | (0)                    | (0)  | 314 |
|      | GEORGIA . . . . .                                | 11             | 9                                  | 2 954          | 9 254             | 2 822              | 5 630             | 8 042           | 19 215   | 218                                 | 2 608                  | 10 451   | 314 |
|      | FLORIDA . . . . .                                | 15             | 5                                  | 863            | 3 090             | 722                | 1 398             | 2 142           | 6 094  | 171                                 | (0)                    | (0)  | 314 |
|      | KENTUCKY . . . . .                               | 7              | 7                                  | 2 287          | 7 696             | 2 157              | 4 149             | 7 043           | 15 464   | (0)                                 | (0)                    | (0)  | 314 |
|      | TENNESSEE . . . . .                              | 38             | 37                                 | 12 485         | 42 066            | 11 694             | 22 792            | 37 005          | 88 003   | 1 893                               | 9 699                  | 60 344   | 314 |
|      | CALIFORNIA . . . . .                             | 56             | 27                                 | 2 510          | 9 824             | 2 232              | 4 002             | 7 602           | 15 817   | 153                                 | (0)                    | (0)  | 314 |
| 315  | LEATHER GLOVES, TOTAL <sup>1</sup> . . . . .     | 166            | 87                                 | 7 718          | 24 439            | 6 899              | 12 244            | 19 481          | 32 194   | 328                                 | 6 212                  | 25 999   | 315 |
| 316  | LUGGAGE, TOTAL <sup>1</sup> . . . . .            | 379            | 145                                | 16 409         | 62 853            | 14 134             | 26 340            | 46 715          | 112 796  | 1 908                               | 15 856                 | 96 560   | 316 |
| 317  | PURSES AND SMALL LEATHER GOODS, TOTAL            | 885            | 379                                | 36 980         | 135 807           | 32 321             | 61 332            | 102 135         | 224 939  | 3 152                               | 35 628                 | 187 336  | 317 |
|      | NORTHEAST . . . . .                              | 714            | 318                                | 30 357         | 110 947           | 26 827             | 51 022            | 85 560          | 184 017  | 2 337                               | 30 734                 | 157 351  | 317 |
|      | NEW ENGLAND . . . . .                            | 68             | 36                                 | 3 819          | 15 170            | 3 151              | 5 921             | 10 711          | 23 242   | 305                                 | 6 214                  | 33 129   | 317 |
|      | MASSACHUSETTS . . . . .                          | 41             | 21                                 | 2 558          | 10 733            | 2 124              | 3 871             | 7 124           | 17 582   | 212                                 | 3 837                  | 19 207   | 317 |
|      | CONNECTICUT . . . . .                            | 8              | 4                                  | 542            | 2 075             | 494                | 928               | 1 667           | 2 258  | (0)                                 | 1 390                  | 9 072  | 317 |
|      | MIDDLE ATLANTIC . . . . .                        | 646            | 282                                | 26 538         | 95 777            | 23 676             | 45 101            | 74 849          | 160 775  | 2 032                               | 24 520                 | 124 222  | 317 |
|      | NEW YORK . . . . .                               | 545            | 225                                | 19 861         | 72 105            | 17 602             | 33 455            | 55 933          | 121 783  | 1 491                               | 17 506                 | 91 734   | 317 |
|      | NEW JERSEY . . . . .                             | 76             | 40                                 | 4 945          | 18 189            | 4 497              | 8 659             | 14 570          | 30 431   | 338                                 | 5 091                  | 23 796   | 317 |
|      | PENNSYLVANIA . . . . .                           | 25             | 17                                 | 1 732          | 5 483             | 1 577              | 2 987             | 4 346           | 8 561  | 203                                 | 1 923                  | 8 692  | 317 |
|      | NORTH CENTRAL . . . . .                          | 62             | 28                                 | 3 852          | 15 467            | 3 036              | 5 747             | 9 517           | 27 065   | 424                                 | 3 145                  | 20 472   | 317 |
|      | EAST NORTH CENTRAL . . . . .                     | 48             | 17                                 | 1 936          | 7 650             | 1 542              | 2 865             | 4 807           | 14 226   | 160                                 | (0)                    | (0)  | 317 |
|      | WEST NORTH CENTRAL . . . . .                     | 14             | 11                                 | 1 916          | 7 817             | 1 494              | 2 882             | 4 710           | 12 839   | 264                                 | (0)                    | (0)  | 317 |
|      | SOUTH . . . . .                                  | 58             | 20                                 | 1 721          | 5 123             | 1 528              | 2 832             | 3 913           | 7 369  | 316                                 | 1 101                  | 5 505  | 317 |
|      | SOUTH ATLANTIC . . . . .                         | 28             | 11                                 | 987            | 2 732             | 886                | 1 639             | 2 234           | 3 788  | 66                                  | (0)                    | (0)  | 317 |
|      | EAST SOUTH CENTRAL . . . . .                     | 11             | 1                                  | 136            | 423               | 123                | 241               | 393             | 552  | 35                                  | (0)                    | (0)  | 317 |
|      | TENNESSEE . . . . .                              | 11             | 1                                  | 136            | 423               | 123                | 241               | 393             | 552  | 35                                  | (0)                    | (0)  | 317 |
|      | WEST SOUTH CENTRAL . . . . .                     | 19             | 8                                  | 598            | 1 968             | 519                | 952               | 1 286           | 3 029  | 215                                 | (0)                    | (0)  | 317 |
|      | TEXAS . . . . .                                  | 10             | 4                                  | 214            | 715               | 180                | 332               | 466             | 1 190  | 119                                 | 141                    | 686  | 317 |
|      | WEST . . . . .                                   | 51             | 13                                 | 1 050          | 4 270             | 930                | 1 731             | 3 145           | 6 488  | 75                                  | 648                    | 4 008  | 317 |
|      | CALIFORNIA . . . . .                             | 42             | 12                                 | 962            | 4 008             | 869                | 1 629             | 2 983           | 6 115  | 65                                  | (0)                    | (0)  | 317 |
| 319  | LEATHER GOODS, NEC, TOTAL <sup>1</sup> . . . . . | 370            | 67                                 | 4 989          | 18 742            | 4 209              | 8 507             | 13 668          | 32 730   | 766                                 | 5 405                  | 31 227   | 319 |

Standard Notes: - Represents zero.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

<sup>1</sup>This industry group consists of a single 4-digit industry. Detailed data by State are included in the 4-digit industry table.

TABLE 3. Detailed Statistics: 1963

| Item   | Leather and leather products (SIC 31) | Leather tanning and finishing (SIC 311) | Industrial leather belting (SIC 312) | Footwear cut stock (SIC 313) | Footwear, except rubber (SIC 314) | Leather gloves (SIC 315) | Luggage (SIC 316) | Purses and small leather goods (SIC 317) | Leather goods, n.e.c. (SIC 319) |
|--|---------------------------------------|---|--------------------------------------|------------------------------|-----------------------------------|--------------------------|-------------------|--|---------------------------------|
| ESTABLISHMENTS, TOTAL . . . . . NUMBER . .                             | 4 047                                 | 525                                     | 83                                   | 446                          | 1 193                             | 166                      | 379               | 885                                      | 370                             |
| WITH 1 TO 19 EMPLOYEES. . . . . DO. .                                  | 1 974                                 | 269                                     | 60                                   | 242                          | 281                               | 79                       | 234               | 506                                      | 303                             |
| WITH 20 TO 99 EMPLOYEES . . . . . DO. .                                | 1 135                                 | 166                                     | 18                                   | 169                          | 274                               | 66                       | 102               | 278                                      | 62                              |
| WITH 100 EMPLOYEES OR MORE. . . . . DO. .                              | 938                                   | 90                                      | 5                                    | 35                           | 638                               | 21                       | 43                | 101                                      | 5                               |
| PROPRIETORS AND WORKING PARTNERS. . . . . DO. .                        | 2 345                                 | 328                                     | 63                                   | 376                          | 570                               | 92                       | 202               | 449                                      | 265                             |
| ALL EMPLOYEES (AVERAGE FOR THE YEAR). . . . . DO. .                    | 327 489                               | 31 417                                  | 2 870                                | 14 339                       | 212 767                           | 7 718                    | 16 409            | 36 980                                   | 4 989                           |
| PAYROLL (ALL EMPLOYEES), TOTAL FOR YEAR \$1,000. .                     | 1 227 824                             | 163 307                                 | 15 897                               | 53 420                       | 753 359                           | 24 439                   | 62 853            | 135 807                                  | 18 742                          |
| PRODUCTION WORKERS:  |                                       |   |                                      |                              |                                   |                          |                   |  |                                 |
| AVERAGE FOR THE YEAR. . . . . NUMBER . .                               | 292 339                               | 27 282                                  | 2 099                                | 12 600                       | 192 795                           | 6 899                    | 14 134            | 32 321                                   | 4 209                           |
| MARCH . . . . . DO. .  | 293 655                               | 26 749                                  | 2 074                                | 12 971                       | 195 218                           | 6 394                    | 13 184            | 32 944                                   | 4 121                           |
| MAY . . . . . DO. .  | 284 735                               | 26 959                                  | 2 128                                | 12 353                       | 190 247                           | 6 707                    | 14 092            | 28 054                                   | 4 195                           |
| AUGUST. . . . . DO. .  | 297 039                               | 27 284                                  | 2 129                                | 12 464                       | 195 131                           | 7 259                    | 14 877            | 33 638                                   | 4 257                           |
| NOVEMBER. . . . . DO. .  | 293 935                               | 28 136                                  | 2 065                                | 12 620                       | 190 584                           | 7 236                    | 14 383            | 34 648                                   | 4 263                           |
| MAN-HOURS . . . . . \$1,000. .   | 543 094                               | 54 556                                  | 4 198                                | 23 694                       | 352 223                           | 12 244                   | 26 340            | 61 332                                   | 8 507                           |
| JANUARY-MARCH . . . . . DO. .  | 135 951                               | 13 436                                  | 1 033                                | 6 056                        | 89 290                            | 2 752                    | 6 070             | 15 305                                   | 2 009                           |
| APRIL-JUNE. . . . . DO. .  | 132 994                               | 13 871                                  | 1 082                                | 5 914                        | 86 776                            | 3 000                    | 6 739             | 13 510                                   | 2 102                           |
| JULY-SEPTEMBER. . . . . DO. .  | 135 835                               | 13 275                                  | 1 030                                | 5 740                        | 87 854                            | 3 276                    | 6 819             | 15 733                                   | 2 108                           |
| OCTOBER-DECEMBER. . . . . DO. .  | 138 314                               | 13 974                                  | 1 053                                | 5 984                        | 88 303                            | 3 216                    | 6 712             | 16 784                                   | 2 288                           |
| WAGES . . . . . \$1,000. .   | 982 096                               | 129 756                                 | 9 723                                | 40 867                       | 619 751                           | 19 481                   | 46 715            | 102 135                                  | 13 668                          |
| COST OF MATERIALS, ETC., TOTAL <sup>1</sup> . . . . . DO. .            | 2 127 776                             | 480 507                                 | 18 954                               | 138 225                      | 1 094 496                         | 46 694                   | 100 363           | 213 710                                  | 34 827                          |
| MATERIALS, PARTS, CONTAINERS, AND SUPPLIES CONSUMED. . . . . DO. .     | 1 924 011                             | 397 655                                 | 15 591                               | 129 045                      | 1 038 099                         | 34 295                   | 93 531            | 185 991                                  | 29 804                          |
| COST OF RESALES . . . . . DO. .  | 67 554                                | 8 177                                   | 2 697                                | 6 310                        | 24 858                            | 7 502                    | 4 405             | 9 183                                    | 4 422                           |
| FUELS CONSUMED. . . . . DO. .  | 12 787                                | 8 350                                   | 139                                  | 543                          | 2 865                             | 138                      | 276               | 389                                      | 87                              |
| ELECTRIC ENERGY:   |                                       |   |                                      |                              |                                   |                          |                   |  |                                 |
| PURCHASED:   |                                       |   |                                      |                              |                                   |                          |                   |  |                                 |
| QUANTITY. . . . . MILLION KW.-HRS. .                                   | 880                                   | 291                                     | 16                                   | 54                           | 387                               | 7                        | 48                | 67                                       | 10                              |
| COST. . . . . \$1,000. .   | 15 904                                | 4 694                                   | 227                                  | 1 027                        | 7 570                             | 146                      | 781               | 1 278                                    | 181                             |
| GENERATED LESS SOLO . . . . . MILLION KW.-HRS. .                       | 621                                   | 78                                      | -                                    | (D)                          | 122                               | -                        | (D)               | (D)                                      | (D)                             |
| CONTRACT WORK . . . . . \$1,000. .                                     | 107 520                               | 61 631                                  | 300                                  | 1 300                        | 21 104                            | 4 613                    | 1 370             | 16 869                                   | 333                             |
| VALUE OF SHIPMENTS (INCLUDING RESALES):                                |                                       |   |                                      |                              |                                   |                          |                   |  |                                 |
| TOTAL <sup>1</sup> . . . . . DO. .                                     | 4 209 614                             | 758 408                                 | 51 869                               | 229 253                      | 2 372 727                         | 80 640                   | 210 303           | 439 356                                  | 67 058                          |
| VALUE OF RESALES. . . . . DO. .  | 86 733                                | 9 095                                   | 3 783                                | 7 972                        | 30 668                            | 9 201                    | 6 297             | 13 076                                   | 6 641                           |
| VALUE ADDED BY MANUFACTURE, ADJUSTED. . . . . DO. .                    | 2 078 572                             | 273 092                                 | 32 915                               | 90 611                       | 1 279 295                         | 32 194                   | 112 796           | 224 939                                  | 32 730                          |
| MANUFACTURERS' INVENTORIES:  |                                       |   |                                      |                              |                                   |                          |                   |  |                                 |
| BEGINNING OF YEAR, TOTAL. . . . . DO. .                                | 566 439                               | 149 201                                 | 7 667                                | 24 310                       | 285 248                           | 16 532                   | 33 312            | 40 824                                   | 9 345                           |
| FINISHED PRODUCTS . . . . . DO. .                                      | 216 925                               | 46 085                                  | 3 489                                | 9 596                        | 111 492                           | 8 370                    | 14 745            | 18 799                                   | 4 349                           |
| WORK-IN-PROCESS . . . . . DO. .  | 136 184                               | 63 404                                  | 1 839                                | 3 319                        | 52 409                            | 3 347                    | 4 386             | 6 641                                    | 839                             |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO. .                          | 213 329                               | 39 712                                  | 2 339                                | 11 395                       | 121 347                           | 4 815                    | 14 180            | 15 384                                   | 4 157                           |
| END OF YEAR, TOTAL. . . . . DO. .                                      | 551 861                               | 140 301                                 | 7 726                                | 22 980                       | 280 454                           | 14 858                   | 36 292            | 39 723                                   | 9 527                           |
| FINISHED PRODUCTS . . . . . DO. .                                      | 215 783                               | 43 839                                  | 3 566                                | 8 831                        | 112 218                           | 6 828                    | 17 731            | 18 129                                   | 4 641                           |
| WORK-IN-PROCESS . . . . . DO. .  | 134 060                               | 60 841                                  | 1 762                                | 3 667                        | 52 747                            | 3 137                    | 4 256             | 6 604                                    | 1 046                           |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO. .                          | 202 018                               | 35 621                                  | 2 398                                | 10 482                       | 115 489                           | 4 893                    | 14 305            | 14 990                                   | 3 840                           |
| EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO. .                      | 38 462                                | 7 003                                   | 771                                  | 1 953                        | 22 023                            | 370                      | 2 159             | 3 385                                    | 798                             |
| NEW, TOTAL. . . . . DO. .  | 34 566                                | 6 480                                   | 742                                  | 1 620                        | 19 570                            | 328                      | 1 908             | 3 152                                    | 766                             |
| NEW STRUCTURES AND ADDITIONS TO PLANT . . . . . DO. .                  | 6 257                                 | 756                                     | 75                                   | 184                          | 4 386                             | 96                       | 139               | 412                                      | 209                             |
| NEW MACHINERY AND EQUIPMENT . . . . . DO. .                            | 28 309                                | 5 724                                   | 667                                  | 1 436                        | 15 184                            | 232                      | 1 769             | 2 740                                    | 557                             |
| USED PLANT AND EQUIPMENT. . . . . DO. .                                | 3 896                                 | 523                                     | 29                                   | 333                          | 2 453                             | 42                       | 251               | 233                                      | 32                              |
| SELECTED OPERATING RATIOS:   |                                       |   |                                      |                              |                                   |                          |                   |  |                                 |
| PAYROLL/TOTAL EMPLOYMENT. . . . . DO. .                                | 3 749                                 | 5 198                                   | 5 539                                | 3 726                        | 3 541                             | 3 166                    | 3 830             | 3 672                                    | 3 757                           |
| PRODUCTION WORKERS/TOTAL EMPLOYMENT . . . . . DO. .                    | .89                                   | .87                                     | .73                                  | .88                          | .91                               | .89                      | .86               | .87                                      | .84                             |
| MAN-HOURS/PRODUCTION WORKERS. . . . . DO. .                            | 1 858                                 | 2 000                                   | 1 984                                | 1 880                        | 1 827                             | 1 775                    | 1 878             | 1 898                                    | 2 021                           |
| PRODUCTION WORKER WAGES/MAN-HOURS . . . . . DO. .                      | 1.81                                  | 2.38                                    | 2.33                                 | 1.72                         | 1.76                              | 1.59                     | 1.76              | 1.67                                     | 1.61                            |
| COST OF MATERIALS AND PAYROLLS/TOTAL VALUE OF SHIPMENTS. . . . . DO. . | .80                                   | .85                                     | .67                                  | .84                          | .78                               | .88                      | .78               | .80                                      | .80                             |
| COST OF MATERIALS/TOTAL VALUE OF SHIPMENTS. . . . . DO. .              | .51                                   | .63                                     | .37                                  | .60                          | .46                               | .58                      | .48               | .49                                      | .52                             |
| ADJUSTED VALUE ADDED/TOTAL EMPLOYMENT . . . . . DO. .                  | 6 347                                 | 8 692                                   | 11 469                               | 6 319                        | 6 013                             | 4 171                    | 6 847             | 6 083                                    | 6 560                           |
| SALARIES AND WAGES/ADJUSTED VALUE ADDED . . . . . DO. .                | .59                                   | .60                                     | .48                                  | .59                          | .59                               | .76                      | .56               | .60                                      | .57                             |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.  
<sup>1</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.



## TANNING; FOOTWEAR; INDUSTRIAL LEATHER GOODS

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3111--Leather Tanning and Finishing
- 3121--Industrial Leather Belting and Packing
- 3131--Boot and Shoe Cut Stock and Findings
- 3141--Footwear, Except House Slippers and Rubber Footwear
- 3142--House Slippers

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3111--LEATHER TANNING AND FINISHING

This industry comprises establishments primarily engaged in tanning, currying and finishing hides and skins into leather. This industry also includes leather converters, who buy hides and skins and have them processed into leather on a contract basis by others. For a detailed list of products of industry 3111, refer to table 6A, product codes 3111111 to 3111911.

*Patterns of Operation.*—The leather tanning and finishing industry is characterized by three major types of establishment operations: (1) "regular tanneries," (2) leather "converters," and (3) "contract tanneries." The regular tannery purchases raw materials, employs production workers in the plant to tan, curry, and finish the hides and skins, and sells the finished product; in effect, this establishment type performs all of the usual manufacturing functions within one establishment.

The leather converter, on the other hand, typically performs only the entrepreneurial functions of the manufacturing concern, such as buying raw materials, arranging with outside factories (contract tanneries) for the production of the finished leathers, and marketing the finished product. The actual tanning and finishing of the hides and skins is done on contract by the contract tanneries. The contract tanner employs production

workers in his own establishment to process materials owned by converters, makes products to specification, and does not become involved in the sale of the finished product.

Methods of Reporting on Census Questionnaires.—Typically, the regular tannery reports figures on employment (including production workers), cost of hides, skins, and other raw materials, and the value of shipments of products made by him from his own materials. The leather converter will show, in addition to his cost of raw materials, a cost for contract work, and the shipments of products made for him from his own materials. The typical leather converter's questionnaire shows few, if any, production workers but labor costs are indirectly reflected in his report on cost of contract work. The contract tanner, on the other hand, reports figures on employment (primarily production workers). Instead of showing the shipments of the leathers which he processed (which would duplicate the data reported by his principals), the contractor reports his receipts for the contract work done for leather converters on their materials. His materials costs and contract receipts do not include any costs for materials which he has processed but did not own.

Classification of Establishments.—Since these different methods of operation lead to significant differences in the various relationships between wages and salaries paid, cost of materials, value of shipments, and value added by manufacture, plants were classified by their primary method of operation, as regular tanneries, converters, or contract tanneries. Separate statistics for each group are shown in tables 2 to 4.

It should be noted, however, that some establishments in industry 3111 employ more than one method of operating. For example, some establishments act as both a regular tannery and a leather converter, or as a regular and a contract tannery. In assigning the primary method of operation for manufacturer-converter plants, the relationship between wages and salaries paid to the cost of contract work was the determining factor. If direct wage and salary payments were less than payments for contract work, the plant was classified as a converter. For plants operating as both regular and contract tanneries, the relationship between the value of shipments of products made for their own account was compared with the receipts for work done on materials owned by other establishments to determine the plant's primary method of operation.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Leather Tanning and Finishing Industry in 1963 totaled \$758 million. This amount included shipments of tanned, curried and finished leather (primary products) valued at \$633 million, shipments of other products (secondary products) valued at \$5 million, and miscellaneous receipts (mainly contract work on materials owned by others) at \$120 million.

This industry's shipments of tanned, curried and finished leather in 1963 represented 99 percent of its total product shipments. The industry specialization ratio in 1958 was 100 percent.

The production index for the primary products of the industry decreased to 90 in 1963 from the 1958 level of 99. The unit value index for 1963 was 113 compared to 103 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3121—INDUSTRIAL LEATHER BELTING AND PACKING

This industry comprises establishments primarily engaged in manufacturing industrial leather products, such as transmission belting, mechanical packings, and textile leather.



Establishments primarily engaged in manufacturing leather gaskets are classified in industry 3293, Steam and Other Packing and Pipe and Boiler Covering. For a detailed list of products of industry 3121, refer to table 6A, product codes 3121013 to 3121098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Industrial Leather Belting Industry in 1963 totaled \$51.9 million. This amount included shipments of industrial leather belting and packing (primary products) valued at \$42.5 million, shipments of other products (secondary products) valued at \$5.2 million, and miscellaneous receipts (mainly products bought and resold without further processing) at \$4.2 million.

This industry's shipments of \$42.5 million in 1963 represented 89 percent of its total product shipments. The industry specialization ratio in 1958 was 90 percent. Secondary products shipped by this industry in 1963 consisted mainly of mechanical rubber goods, n.e.c. (\$4.3 million).

### 3131—BOOT AND SHOE CUT STOCK AND FINDINGS

This industry comprises establishments primarily engaged in manufacturing leather soles, inner soles, and other boot and shoe cut stock and findings. This industry also includes finished wood heels. Establishments primarily engaged in manufacturing heels, soling strips, and soles made of rubber, composition, plastics, and fiber are classified in Major Group 30, Rubber and Miscellaneous Plastics Products. For a detailed list of products of industry 3131, refer to table 6A, product codes 3131011 to 3131069.

It should be noted that the statistics for the Footwear Cut Stock Industry include only establishments primarily producing for the commercial market or for transfer to other plants of the same company. The figures shown in table 6A on the shipments of footwear cut stock and findings do not include the production of these products made and consumed in integrated shoe manufacturing plants.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Footwear Cut Stock Industry in 1963 totaled \$229.3 million. This amount included shipments of boot and shoe cut stock and findings (primary products) valued at \$202.4 million, shipments of other products (secondary products) valued at \$14.1 million, and miscellaneous receipts (mainly products bought and resold without further processing) at \$12.7 million.

This industry's shipments of boot and shoe cut stock and findings in 1963 represented 93 percent of its total product shipments. The industry specialization ratio in 1958 was 95 percent. Secondary products shipped by this industry in 1963 consisted mainly of rubber heels and soles (\$7.3 million), and leather tanning and finishing (\$1.3 million).

The production index for the primary products of the industry decreased to 79 in 1963 from the 1958 level of 89. The unit value index for 1963 was 113 compared to 111 in 1958. Both indexes were computed on a basis of 1954 = 100.

### 3141—FOOTWEAR, EXCEPT HOUSE SLIPPERS AND RUBBER FOOTWEAR

This industry comprises establishments primarily engaged in the manufacture of boots and shoes designed primarily for street, work, play or sport wear. Establishments

primarily engaged in the production of such protective footwear as rubbers, rubber boots, storm shoes, galoshes and other footwear with rubber soles vulcanized to fabric uppers are classified in industry 3021. For a detailed list of products of industry 3141, refer to table 6A, product codes 3141101 to 3141710.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Establishments in this industry were requested to report "value of shipments" in 1963 and "value of production" in prior years. This change was made as a result of a review of the reporting which indicated that the value of shipments data were more generally available from company records and were usually reported in place of value of production. This change does not significantly affect the comparability between 1963 and prior years for the product statistics shown in table 6A or in the value of shipments or value added data shown in table 1.

Value of shipments and other receipts of the Shoes, Except Rubber Industry in 1963 totaled \$2,249 million. This amount included shipments of shoes, except rubber (primary products) valued at \$2,174 million, shipments of other products (secondary products) valued at \$26 million, and miscellaneous receipts (mainly contract work on materials owned by others), at \$49 million.

This industry's shipments of shoes, except rubber in 1963 represented 99 percent of its total product shipments. The industry specialization ratio in 1958 was also 99 percent. Secondary products shipped by this industry in 1963 consisted mainly of house slippers (\$17 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 26 percent of the total industry shipments are represented by plants specializing in men's dress shoes, including play shoes; and 48 percent in women's dress, work, and play shoes.

Shipments of shoes, except rubber, by this industry in 1963 represented 99 percent of all shipments of these products (\$2,197 million) by all industries. In 1958 the coverage ratio was also 99 percent.

The production index for the primary products of the industry increased to 112 in 1963 from the 1958 level of 110. The unit value index for 1963 was 111 compared to 103 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3142—HOUSE SLIPPERS

This industry comprises establishments primarily engaged in manufacturing house slippers of leather or other materials. For a detailed list of products of industry 3142, refer to table 6A, product code 3142061.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Establishments in this industry were requested to report "value of shipments" in 1963 and "value of production" in prior years. This change was made as a result of a review



of the reporting which indicated that the value of shipments data were more generally available from company records and were usually reported in place of value of production. This change does not significantly affect the comparability between 1963 and prior years for the product statistics shown in table 6A or in the value of shipments or value added data shown in table 1.

Value of shipments and other receipts of the House Slippers Industry in 1963 totaled \$123 million. This amount included shipments of house slippers (primary products) valued at \$108 million, shipments of other products (secondary products) valued at \$12 million, and miscellaneous receipts (mainly contract work on materials owned by others), at \$3 million.

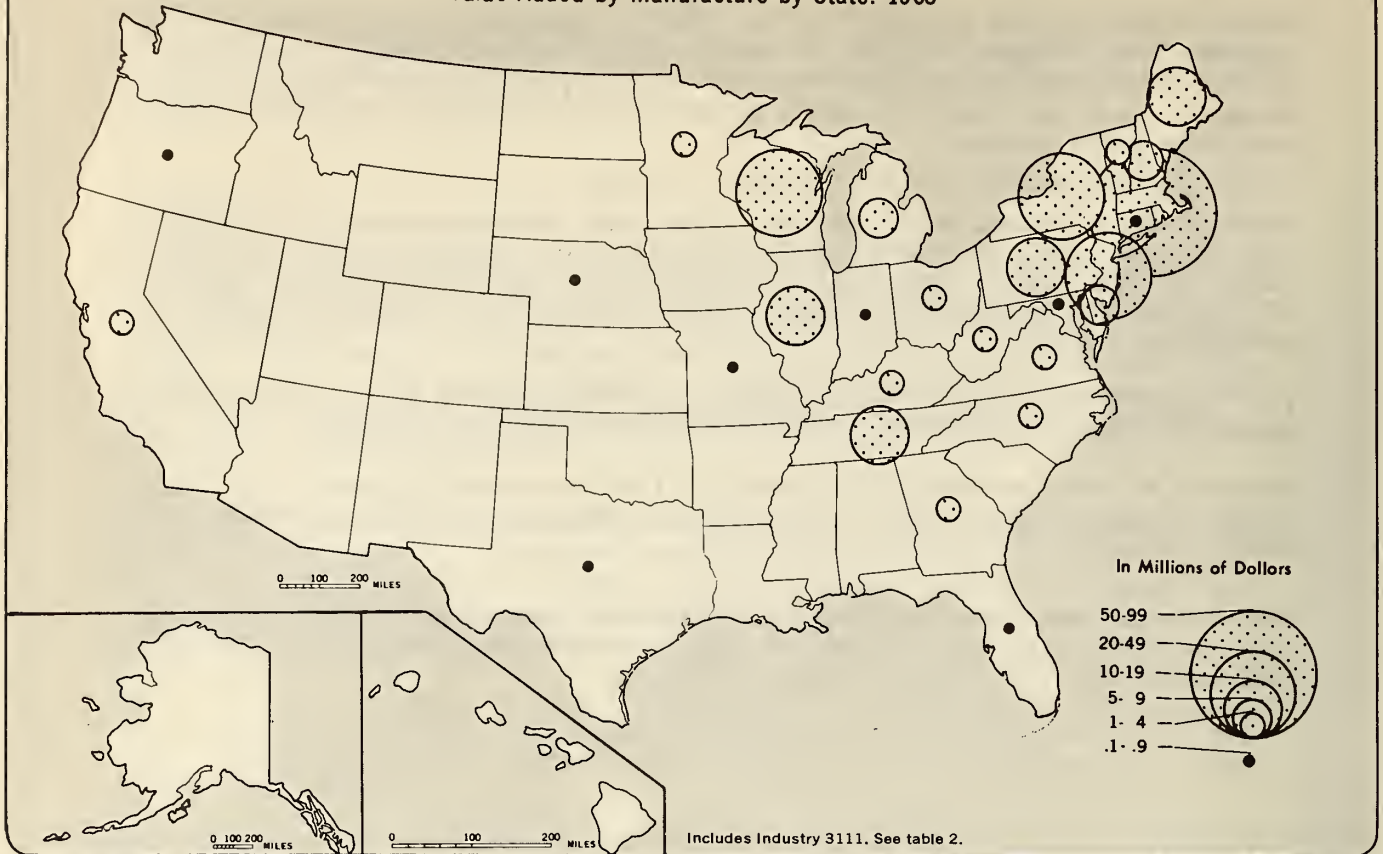
This industry's shipments of house slippers in 1963 represented 90 percent of its total product shipments. The industry specialization ratio in 1958 was 90 percent.

Shipments of house slippers by this industry in 1963 represented 85 percent of all shipments of these products (\$128 million) by all industries. In 1958 the coverage ratio was 85 percent.

The production index for the primary products of the industry increased to 146 in 1963 from the 1958 level of 131. The unit value index for 1963 was 94 compared to 95 in 1958. Both indexes were computed on a basis of 1954 = 100.

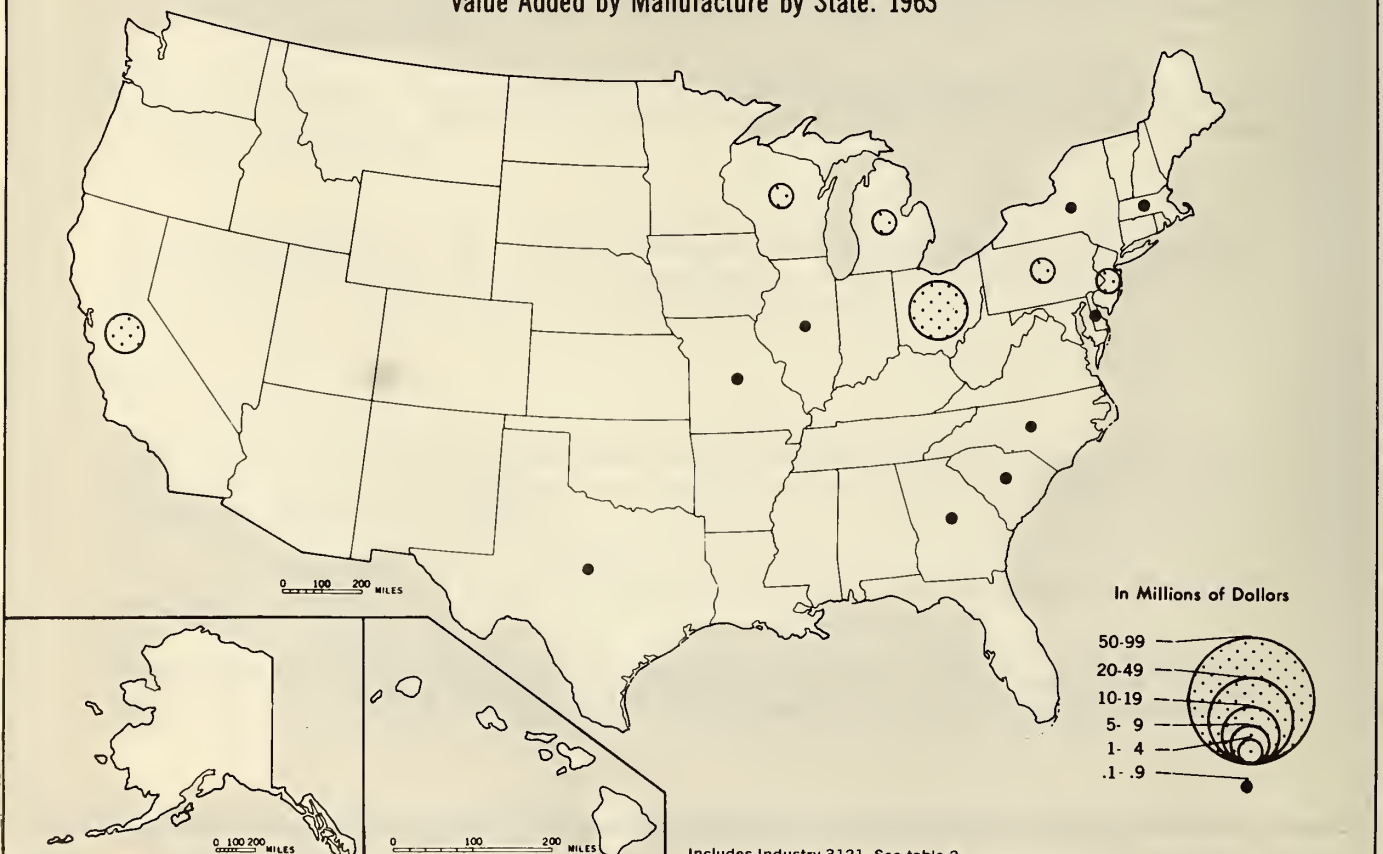
# LEATHER TANNING AND FINISHING: SIC 311

Value Added by Manufacture by State: 1963



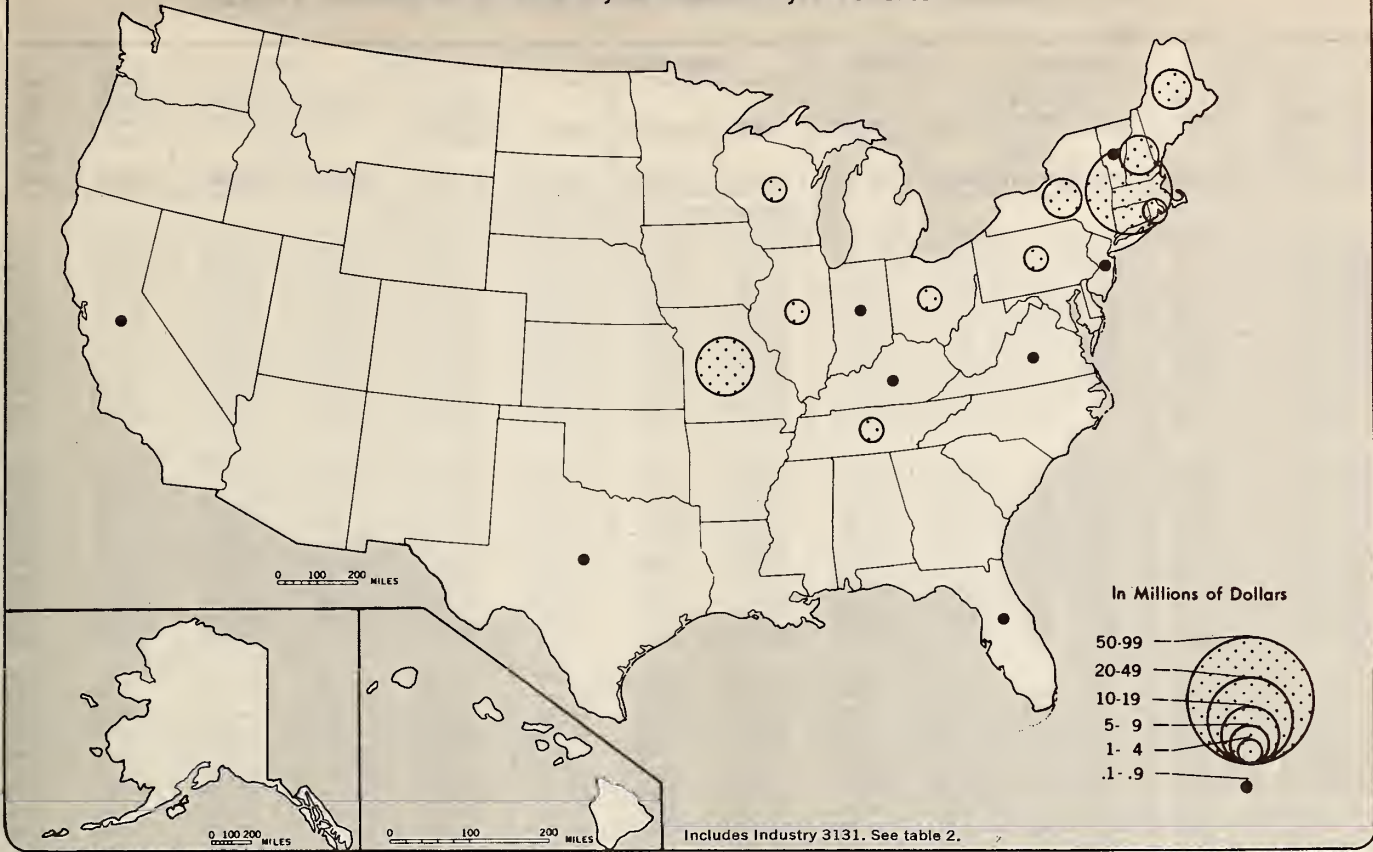
# INDUSTRIAL LEATHER BELTING: SIC 312

Value Added by Manufacture by State: 1963





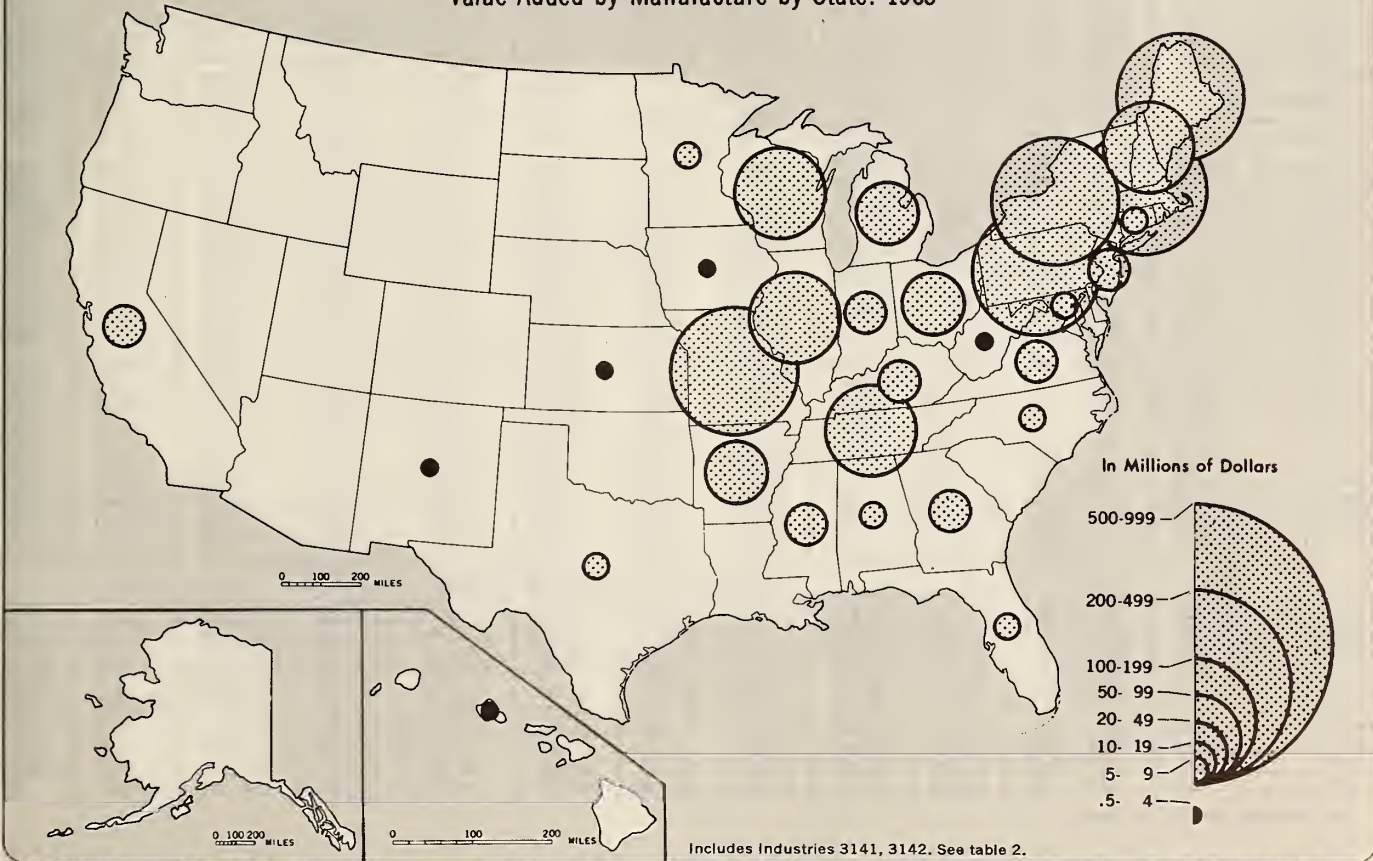
**FOOTWEAR CUT STOCK: SIC 313**  
**Value Added by Manufacture by State: 1963**



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

**FOOTWEAR, EXCEPT RUBBER: SIC 314**  
**Value Added by Manufacture by State: 1963**



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics: 1963 and Earlier Years

| Year   | Companies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|-----------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|---|-----------------------------------|------------------------------------|---|---|--|
|  |                       | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                   |                                    |   |   |  |
| INDUSTRY 3111.—LEATHER TANNING AND FINISHING |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1963.....                                    | 482                   | 525               | 256  | 31,417            | 163,307              | 27,282             | 54,556               | 129,756            | 273,092   | 480,507                           | 758,408                            | 6,480   | 99  | 100                                      |
| 1962 <sup>1</sup> .....                      | (NA)                  | (NA)              | (NA)   | 31,659            | 157,237              | 27,300             | 53,333               | 123,107            | 263,599   | 491,005                           | 765,942                            | 7,154   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                      | (NA)                  | (NA)              | (NA)   | 33,227            | 157,909              | 28,658             | 55,018               | 123,989            | 267,457   | 486,690                           | 761,138                            | 4,699   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                      | (NA)                  | (NA)              | (NA)   | 34,539            | 163,864              | 29,955             | 57,600               | 128,901            | 278,536   | 508,470                           | 790,724                            | 6,145   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                      | (NA)                  | (NA)              | (NA)   | 37,055            | 173,573              | 32,359             | 62,606               | 137,101            | 337,518   | 558,897                           | 886,908                            | 7,583   | (NA)  | (NA)                                     |
| 1958.....                                    | 521                   | 578               | 280  | 37,130            | 165,545              | 32,466             | 63,376               | 133,183            | 275,796   | 464,933                           | 743,124                            | 7,905   | 100   | 100                                      |
| 1957 <sup>1</sup> .....                      | (NA)                  | (NA)              | (NA)   | 40,099            | 171,071              | 35,001             | 68,455               | 137,409            | 289,901   | 454,739                           | 737,432                            | 6,847   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                      | (NA)                  | (NA)              | (NA)   | 41,380            | 172,452              | 36,505             | 72,076               | 140,973            | 288,464   | 480,447                           | 759,479                            | 6,156   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                      | (NA)                  | (NA)              | (NA)   | 43,498            | 177,153              | 38,640             | 76,923               | 144,511            | 296,634   | 458,789                           | 762,836                            | 6,579   | (NA)  | (NA)                                     |
| 1954 <sup>2</sup> .....                      | 525                   | 579               | 298  | 43,468            | 168,139              | 38,662             | 75,689               | 137,487            | 260,228   | 448,274                           | 713,324                            | 7,123   | 98  | 100                                      |
| 1953 <sup>1</sup> .....                      | (NA)                  | (NA)              | (NA)   | 46,388            | 180,251              | 41,635             | 83,760               | 148,983            | 271,648   | 496,557                           | 768,205                            | 7,034   | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                      | (NA)                  | (NA)              | (NA)   | 44,028            | 162,722              | 39,476             | 78,243               | 134,653            | 285,515   | 510,597                           | 796,112                            | 4,193   | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                      | (NA)                  | (NA)              | (NA)   | 45,103            | 159,544              | 40,497             | 79,597               | 129,763            | 286,195   | 697,136                           | 983,331                            | 7,239   | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                      | (NA)                  | (NA)              | (NA)   | 49,623            | 164,904              | 44,883             | 89,065               | 134,840            | 318,543   | 631,478                           | 950,021                            | 7,952   | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                      | (NA)                  | (NA)              | (NA)   | 50,195            | 160,333              | 44,657             | 88,775               | 129,192            | 291,514   | 587,404                           | 878,918                            | (S)   | (NA)  | (NA)                                     |
| 1947 <sup>2</sup> .....                      | (NA)                  | 561               | (NA)   | 53,261            | 156,632              | 48,686             | 100,964              | 130,700            | 403,831   | 666,436                           | 1,070,267                          | 10,565  | 100   | 100                                      |
| 1939 <sup>2</sup> .....                      | (NA)                  | 446               | (NA)   | 51,592            | 69,266               | 47,252             | (NA)                 | 56,783             | 117,394   | 229,044                           | 346,438                            | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> .....                      | (NA)                  | 402               | (NA)   | 54,427            | 72,026               | 50,687             | (NA)                 | 61,288             | 113,516   | 281,506                           | 395,022                            | (NA)  | (NA)  | (NA)                                     |
| 1935 <sup>2</sup> .....                      | (NA)                  | 384               | (NA)   | 54,823            | 66,640               | 50,877             | (NA)                 | 55,683             | 108,934   | 199,411                           | 308,345                            | (NA)  | (NA)  | (NA)                                     |
| 1933 <sup>2</sup> .....                      | (NA)                  | 374               | (NA)   | 47,008            | 48,909               | 44,191             | (NA)                 | 43,076             | 99,025  | 138,177                           | 237,202                            | (NA)  | (NA)  | (NA)                                     |
| 1931 <sup>2</sup> .....                      | (NA)                  | 418               | (NA)   | (NA)              | (NA)                 | 42,047             | (NA)                 | 49,542             | 98,352  | 172,786                           | 271,138                            | (NA)  | (NA)  | (NA)                                     |
| 1929 <sup>2</sup> .....                      | (NA)                  | 471               | (NA)   | 54,223            | 79,063               | 49,932             | (NA)                 | 63,414             | 143,742   | 337,598                           | 481,340                            | (NA)  | (NA)  | (NA)                                     |
| 1927 <sup>2</sup> .....                      | (NA)                  | 494               | (NA)   | 57,324            | 81,743               | 52,924             | (NA)                 | 67,887             | 162,271   | 331,985                           | 494,256                            | (NA)  | (NA)  | (NA)                                     |
| 1925 <sup>2</sup> .....                      | (NA)                  | 531               | (NA)   | (NA)              | (NA)                 | 52,263             | (NA)                 | 65,834             | 155,233   | 296,953                           | 452,186                            | (NA)  | (NA)  | (NA)                                     |
| 1923 <sup>2</sup> .....                      | (NA)                  | 597               | (NA)   | 65,312            | 89,401               | 59,703             | (NA)                 | 73,784             | 167,148   | 321,750                           | 488,898                            | (NA)  | (NA)  | (NA)                                     |
| 1921 <sup>2</sup> .....                      | (NA)                  | 608               | (NA)   | 53,669            | 71,138               | 48,955             | (NA)                 | 57,741             | 105,640   | 277,725                           | 383,365                            | (NA)  | (NA)  | (NA)                                     |
| 1919 <sup>2</sup> .....                      | (NA)                  | 680               | (NA)   | 78,894            | 108,384              | 72,476             | (NA)                 | 88,205             | 282,070   | 646,522                           | 928,592                            | (NA)  | (NA)  | (NA)                                     |
| 1914 <sup>2</sup> .....                      | (NA)                  | 741               | (NA)   | 60,214            | 39,291               | 55,936             | (NA)                 | 31,914             | 82,957  | 284,245                           | 367,202                            | (NA)  | (NA)  | (NA)                                     |
| 1909 <sup>2</sup> .....                      | (NA)                  | 919               | (NA)   | 66,316            | 38,846               | 62,202             | (NA)                 | 32,103             | 79,595  | 248,279                           | 327,874                            | (NA)  | (NA)  | (NA)                                     |
| 1904 <sup>2</sup> .....                      | (NA)                  | 1,049             | (NA)   | 60,490            | 31,501               | 57,239             | (NA)                 | 27,049             | 61,442  | 191,179                           | 252,621                            | (NA)  | (NA)  | (NA)                                     |
| 1899 <sup>2</sup> .....                      | (NA)                  | 1,306             | (NA)   | 54,551            | 25,750               | 52,109             | (NA)                 | 22,591             | 49,038  | 155,000                           | 204,038                            | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3121.—INDUSTRIAL LEATHER BELTING    |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1963 <sup>2</sup> .....                      | 81                    | 83                | 23   | 2,870             | 15,897               | 2,099              | 4,198                | 9,723              | 32,915  | 18,954                            | 51,869                             | 742   | 89  | 84                                       |
| 1962 <sup>3</sup> .....                      | (NA)                  | (NA)              | (NA)   | (3,630)           | (19,596)             | (2,498)            | (4,698)              | (11,750)           | (49,954)  | (29,456)                          | (79,300)                           | (3,285)   | (NA)  | (NA)                                     |
| 1961 <sup>3</sup> .....                      | (NA)                  | (NA)              | (NA)   | (4,735)           | (21,033)             | (3,623)            | (5,477)              | (12,012)           | (43,860)  | (23,455)                          | (66,528)                           | (1,461)   | (NA)  | (NA)                                     |
| 1960 <sup>3</sup> .....                      | (NA)                  | (NA)              | (NA)   | (6,704)           | (26,152)             | (5,068)            | (9,202)              | (16,913)           | (51,998)  | (29,723)                          | (81,020)                           | (2,341)   | (NA)  | (NA)                                     |
| 1959 <sup>3</sup> .....                      | (NA)                  | (NA)              | (NA)   | (5,551)           | (25,461)             | (4,208)            | (8,653)              | (16,647)           | (46,862)  | (41,313)                          | (87,977)                           | (1,932)   | (NA)  | (NA)                                     |
| 1958.....                                    | 99                    | 104               | 32   | 3,975             | 18,689               | 2,769              | 5,371                | 11,506             | 36,300  | 30,435                            | 66,560                             | 1,233   | 90  | 92                                       |
| 1957 <sup>2</sup> .....                      | (NA)                  | (NA)              | (NA)   | 4,537             | 20,670               | 3,128              | 6,415                | 12,708             | 43,839  | 31,050                            | 72,069                             | (S)   | (NA)  | (NA)                                     |
| 1956 <sup>2</sup> .....                      | (NA)                  | (NA)              | (NA)   | 4,860             | 21,741               | 3,520              | 6,910                | 13,583             | 50,669  | 36,633                            | 82,416                             | (S)   | (NA)  | (NA)                                     |
| 1954 <sup>2</sup> .....                      | 128                   | 136               | 34   | 4,576             | 18,569               | 3,342              | 6,513                | 11,484             | 35,383  | 30,682                            | 67,102                             | 1,955   | 97  | 92                                       |
| 1953 <sup>2</sup> .....                      | (NA)                  | (NA)              | (NA)   | 5,026             | 21,147               | 3,545              | 7,251                | 12,930             | 49,719  | 32,359                            | 82,078                             | 1,038   | (NA)  | (NA)                                     |
| 1951 <sup>2</sup> .....                      | (NA)                  | (NA)              | (NA)   | 6,630             | 25,595               | 5,141              | 10,975               | 16,601             | 39,903  | 52,198                            | 92,101                             | 1,416   | (NA)  | (NA)                                     |
| 1950 <sup>2</sup> .....                      | (NA)                  | (NA)              | (NA)   | 5,333             | 20,205               | 4,096              | 8,394                | 11,522             | 35,099  | 30,485                            | 65,584                             | 1,133   | (NA)  | (NA)                                     |
| 1949 <sup>2</sup> .....                      | (NA)                  | (NA)              | (NA)   | 4,865             | 16,064               | 3,708              | 7,567                | 9,696              | 30,206  | 34,194                            | 64,400                             | 578   | (NA)  | (NA)                                     |
| 1947 <sup>2</sup> .....                      | 178                   | 183               | 43   | 5,032             | 13,441               | 4,015              | 8,285                | 9,667              | 28,375  | 29,028                            | 57,403                             | 1,320   | 91  | 98                                       |
| 1939 <sup>2</sup> .....                      | (NA)                  | 190               | (NA)   | 3,117             | 4,941                | 2,337              | (NA)                 | 2,861              | 10,814  | 13,596                            | 24,410                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> .....                      | (NA)                  | 182               | (NA)   | 3,454             | 4,869                | 2,829              | (NA)                 | 3,355              | 12,372  | 15,529                            | 27,901                             | (NA)  | (NA)  | (NA)                                     |
| 1935 <sup>2</sup> .....                      | (NA)                  | 187               | (NA)   | 3,038             | 4,016                | 2,362              | (NA)                 | 2,520              | 9,948   | 11,574                            | 21,522                             | (NA)  | (NA)  | (NA)                                     |
| 1933 <sup>2</sup> .....                      | (NA)                  | 122               | (NA)   | 2,161             | 2,502                | 1,684              | (NA)                 | 1,733              | 7,862   | 7,018                             | 14,880                             | (NA)  | (NA)  | (NA)                                     |
| 1931 <sup>2</sup> .....                      | (NA)                  | 178               | (NA)   | (NA)              | (NA)                 | 1,640              | (NA)                 | 1,968              | 7,220   | 7,302                             | 14,522                             | (NA)  | (NA)  | (NA)                                     |
| 1929 <sup>2</sup> .....                      | (NA)                  | 207               | (NA)   | 3,417             | 5,908                | 2,602              | (NA)                 | 3,550              | 14,952  | 20,680                            | 35,632                             | (NA)  | (NA)  | (NA)                                     |
| 1927 <sup>2</sup> .....                      | (NA)                  | 173               | (NA)   | 2,925             | 4,944                | 2,164              | (NA)                 | 2,925              | 11,081  | 16,185                            | 27,266                             | (NA)  | (NA)  | (NA)                                     |
| 1925 <sup>2</sup> .....                      | (NA)                  | 168               | (NA)   | 2,430             | 5,631                | 2,644              | (NA)                 | 3,505              | 12,943  | 18,868                            | 31,811                             | (NA)  | (NA)  | (NA)                                     |
| 1923 <sup>2</sup> .....                      | (NA)                  | 169               | (NA)   | 3,969             | 5,912                | 3,160              | (NA)                 | 3,895              | 13,155  | 24,569                            | 37,724                             | (NA)  | (NA)  | (NA)                                     |
| 1921 <sup>2</sup> .....                      | (NA)                  | 164               | (NA)   | 3,249             | 5,099                | 2,268              | (NA)                 | 2,842              | 6,092   | 13,076                            | 19,168                             | (NA)  | (NA)  | (NA)                                     |
| 1919 <sup>2</sup> .....                      | (NA)                  | 172               | (NA)   | 3,928             | 5,956                | 2,765              | (NA)                 | 3,260              | 12,324  | 28,157                            | 40,481                             | (NA)  | (NA)  | (NA)                                     |
| 1914 <sup>2</sup> .....                      | (NA)                  | 151               | (NA)   | 4,177             | 3,829                | 2,951              | (NA)                 | 2,070              | 7,556   | 15,480                            | 23,036                             | (NA)  | (NA)  | (NA)                                     |
| 1909 <sup>2</sup> .....                      | (NA)                  | 139               | (NA)   | 4,270             | 3,363                | 3,006              | (NA)                 | 1,861              | 8,069   | 15,623                            | 23,692                             | (NA)  | (NA)  | (NA)                                     |
| 1904 <sup>2</sup> .....                      | (NA)                  | 117               | (NA)   | 2,706             | 1,952                | 2,092              | (NA)                 | 1,165              | 4,903   | 9,317                             | 14,220                             | (NA)  | (NA)  | (NA)                                     |
| 1899 <sup>2</sup> .....                      | (NA)                  | 104               | (NA)   | 2,100             | 1,399                | 1,667              | (NA)                 | 914                | 3,122   | 7,500                             | 10,622                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3131.—FOOTWEAR CUT STOCK            |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1963 <sup>2</sup> .....                      | 414                   | 446               | 204  | 14,339            | 53,420               | 12,600             | 23,694               | 40,867             | 90,611  | 138,225                           | 229,253                            | 1,620   | 93  | 94                                       |
| 1962 <sup>2</sup> .....                      | (NA)                  | (NA)              | (NA)   | 17,398            | 61,144               | 15,291             | 29,266               | 48,815             | 111,564   | 149,219                           | 261,524                            | <sup>3</sup> (856)                                | (NA)  | (NA)                                     |
| 1961 <sup>2</sup> .....                      | (NA)                  | (NA)              | (NA)   | 19,730            | 66,718               | 17,312             | 32,328               | 52,972             | 111,956   | 160,080                           | 272,512                            | (S)   | (NA)  | (NA)                                     |
| 1960 <sup>2</sup> .....                      | (NA)                  | (NA)              | (NA)   | 20,066            | 68,797               | 17,624             | 33,452               | 54,006             | 113,198   | 174,448                           | 288,025                            | (S)   | (NA)  | (NA)                                     |
| 1959 <sup>2</sup> .....                      | (NA)                  | (NA)              | (NA)   | 20,312            | 68,258               | 17,890             | 33,397               | 53,919             | 116,941   | 180,479                           | 296,895                            | (S)   | (NA)  | (NA)                                     |
| 1958.....                                    | 472                   | 513               | 235  | 18,031            | 58,489               | 15,516             | 28,859               | 44,570             | 98,380  | 158,637                           | 256,652                            | 2,002   | 95  | 95                                       |
| 1957 <sup>2</sup> .....                      | (NA)                  | (NA)              | (NA)   | 22,470            | 66,538               | 20,063             | 37,248               | 53,164             | 109,125   | 176,214                           | 284,312                            | (S)   | 97  | 96                                       |
| 1956 <sup>2</sup> .....                      | (NA)                  | (NA)              | (NA)   | 21,628            | 63,262               | 19,103             | 35,061               | 49,512             | 103,742   | 178,373                           | 279,204                            | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>2</sup> .....                      | (NA)                  | (NA)              | (NA)   | 21,898            | 61,885               | 19,665             | 34,401               | 48,986             | 96,468  | 174,301                           | 270,577                            | (S)   | (NA)  | (NA)                                     |
| 1954 <sup>2</sup> .....                      | 522                   | 563               | 261  | 20,059            | 57,113               | 17,641             | 32,533               | 44,231             | 87,070  | 170,826                           | 259,732                            | 3,063   | 97  | 96                                       |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spec-<br>ializa-<br>tion<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3131.—FOOTWEAR CUT STOCK—Continued                       |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1953 <sup>2</sup>   | (NA)                       | (NA)              | (NA)   | 20,431            | 59,305               | 18,033             | 34,197               | 46,510             | 93,129   | 175,094                           | 268,223                            | 2,064   | (NA)  | (NA)                                     |
| 1952 <sup>2</sup>   | (NA)                       | (NA)              | (NA)   | 18,926            | 51,707               | 16,398             | 28,957               | 40,913             | 77,154   | 186,085                           | 267,249                            | 985   | (NA)  | (NA)                                     |
| 1951 <sup>2</sup>   | (NA)                       | (NA)              | (NA)   | 17,988            | 46,100               | 15,584             | 27,535               | 37,111             | 66,494   | 243,598                           | 314,102                            | (S)   | (NA)  | (NA)                                     |
| 1950 <sup>2</sup>   | (NA)                       | (NA)              | (NA)   | 22,280            | 51,585               | 19,001             | 34,346               | 40,718             | 72,460   | 200,320                           | 276,790                            | (S)   | (NA)  | (NA)                                     |
| 1949 <sup>2</sup>   | (NA)                       | (NA)              | (NA)   | 20,260            | 46,297               | 18,003             | 33,240               | 37,204             | 72,988   | 189,542                           | 262,911                            | 1,386   | (NA)  | (NA)                                     |
| 1947 <sup>2</sup>   | 544                        | 606               | (NA)   | 22,077            | 47,793               | 19,706             | 38,145               | 38,468             | 87,301   | 206,560                           | 294,309                            | 1,921   | 99  | 97                                       |
| 1939 <sup>2</sup>   | (NA)                       | 520               | (NA)   | 21,293            | 22,735               | 18,845             | (NA)                 | 17,196             | 38,912   | 90,487                            | 129,399                            | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup>   | (NA)                       | 470               | (NA)   | 20,780            | 22,266               | 18,755             | (NA)                 | 17,844             | 36,672   | 95,988                            | 132,660                            | (NA)  | (NA)  | (NA)                                     |
| 1935 <sup>2</sup>   | (NA)                       | 498               | (NA)   | 20,263            | 21,257               | 18,275             | (NA)                 | 16,781             | 35,262   | 76,317                            | 111,579                            | (NA)  | (NA)  | (NA)                                     |
| 1933 <sup>2 5</sup>   | (NA)                       | 487               | (NA)   | 18,331            | 16,615               | 16,798             | (NA)                 | 13,918             | 31,429   | 61,864                            | 93,293                             | (NA)  | (NA)  | (NA)                                     |
| 1931 <sup>2</sup>   | (NA)                       | 552               | (NA)   | (NA)              | (NA)                 | 17,672             | (NA)                 | 16,412             | 34,827   | 82,274                            | 117,101                            | (NA)  | (NA)  | (NA)                                     |
| 1929 <sup>2</sup>   | (NA)                       | 592               | (NA)   | 22,290            | 27,538               | 19,875             | (NA)                 | 21,378             | 52,563   | 139,510                           | 192,073                            | (NA)  | (NA)  | (NA)                                     |
| 1927 <sup>2</sup>   | (NA)                       | 580               | (NA)   | 21,230            | 26,311               | 18,561             | (NA)                 | 20,556             | 48,627   | 129,829                           | 178,456                            | (NA)  | (NA)  | (NA)                                     |
| 1925 <sup>2</sup>   | (NA)                       | 571               | (NA)   | (NA)              | (NA)                 | 16,582             | (NA)                 | 18,601             | 41,537   | 104,575                           | 146,112                            | (NA)  | (NA)  | (NA)                                     |
| 1923 <sup>2</sup>   | (NA)                       | 592               | (NA)   | (NA)              | (NA)                 | 15,903             | (NA)                 | 16,255             | 41,166   | 199,685                           | 150,851                            | (NA)  | (NA)  | (NA)                                     |
| 1921 <sup>2</sup>   | (NA)                       | 570               | (NA)   | 15,000            | 18,628               | 12,966             | (NA)                 | 14,222             | 31,954   | 79,854                            | 111,808                            | (NA)  | (NA)  | (NA)                                     |
| 1919 <sup>2</sup>   | (NA)                       | 679               | (NA)   | 21,469            | 23,259               | 18,656             | (NA)                 | 17,312             | 49,713   | 174,316                           | 224,029                            | (NA)  | (NA)  | (NA)                                     |
| 1914 <sup>2</sup>   | (NA)                       | 605               | (NA)   | 16,645            | 9,823                | 14,533             | (NA)                 | 7,278              | 16,513   | 71,755                            | 88,268                             | (NA)  | (NA)  | (NA)                                     |
| 1909 <sup>2</sup>   | (NA)                       | 575               | (NA)   | 14,456            | 7,446                | 13,181             | (NA)                 | 6,104              | 14,897   | 55,270                            | 70,167                             | (NA)  | (NA)  | (NA)                                     |
| 1904 <sup>2</sup>   | (NA)                       | 579               | (NA)   | 11,077            | 4,717                | 10,370             | (NA)                 | 4,012              | 9,655  | 27,925                            | 37,580                             | (NA)  | (NA)  | (NA)                                     |
| 1899 <sup>2</sup>   | (NA)                       | 654               | (NA)   | 9,970             | 3,972                | 9,401              | (NA)                 | 3,483              | 8,255  | 22,823                            | 31,078                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3141.—SHOES, EXCEPT RUBBER                               |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963  | 784                        | 1,040             | 815  | 201,728           | 713,577              | 182,901            | 334,969              | 589,369            | 61,214,740   | 1,035,627                         | 62,249,167                         | 18,470  | 99  | 99                                       |
| 1962 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 215,776           | 742,191              | 195,415            | 356,525              | 609,374            | 1,215,968  | 1,095,357                         | 2,312,338                          | 17,673  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 216,436           | 718,323              | 195,216            | 352,123              | 584,839            | 1,177,848  | 1,050,376                         | 2,233,110                          | 21,279  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 216,340           | 704,722              | 195,027            | 352,506              | 575,114            | 1,161,060  | 1,050,832                         | 2,212,655                          | 15,238  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 219,666           | 717,004              | 198,888            | 366,285              | 588,812            | 1,185,045  | 1,100,983                         | 2,279,564                          | 13,787  | (NA)  | (NA)                                     |
| 1958  | 872                        | 1,115             | 887  | 215,311           | 662,421              | 194,314            | 348,481              | 542,179            | 1,086,260  | 964,289                           | 2,048,857                          | 14,533  | 99  | 99                                       |
| 1957 <sup>1 2</sup>   | (NA)                       | (NA)              | (NA)   | 222,365           | 680,055              | 201,027            | 362,429              | 570,649            | 1,083,996  | 968,063                           | 2,043,805                          | (S)   | (NA)  | (NA)                                     |
| 1956 <sup>1 2</sup>   | (NA)                       | (NA)              | (NA)   | 222,841           | 666,566              | 202,055            | 368,670              | 563,428            | 1,075,422  | 951,171                           | 2,018,152                          | 17,258  | (NA)  | (NA)                                     |
| 1955 <sup>1 2</sup>   | (NA)                       | (NA)              | (NA)   | 221,121           | 628,322              | 200,782            | 372,461              | 524,058            | 992,238  | 910,877                           | 1,891,818                          | 16,347  | (NA)  | (NA)                                     |
| 1954 <sup>2</sup>   | 970                        | 1,196             | 931  | 219,375           | 589,267              | 199,907            | 356,681              | 490,142            | 942,961  | 864,967                           | 1,809,127                          | 11,420  | 99  | 99                                       |
| 1953 <sup>1 2</sup>   | (NA)                       | (NA)              | (NA)   | 232,546           | 640,360              | 212,202            | 385,053              | 532,810            | 982,412  | 966,000                           | 1,948,412                          | (S)   | (NA)  | (NA)                                     |
| 1952 <sup>1 2</sup>   | (NA)                       | (NA)              | (NA)   | 221,748           | 585,908              | 200,925            | 362,520              | 492,337            | 884,772  | 905,099                           | 1,789,871                          | (S)   | (NA)  | (NA)                                     |
| 1951 <sup>1 2</sup>   | (NA)                       | (NA)              | (NA)   | 214,800           | 533,055              | 194,863            | 336,987              | 443,813            | 815,428  | 1,031,994                         | 1,847,422                          | (S)   | (NA)  | (NA)                                     |
| 1950 <sup>1 2</sup>   | (NA)                       | (NA)              | (NA)   | 230,290           | 532,906              | 209,889            | 371,088              | 448,115            | 812,113  | 914,744                           | 1,726,857                          | (S)   | (NA)  | (NA)                                     |
| 1949 <sup>1 2</sup>   | (NA)                       | (NA)              | (NA)   | 229,857           | 502,474              | 210,396            | 364,062              | 420,823            | 737,031  | 874,607                           | 1,611,638                          | (S)   | (NA)  | (NA)                                     |
| 1947 <sup>2</sup>   | 1,077                      | 1,292             | (NA)   | 230,882           | 496,990              | 212,213            | 400,757              | 423,181            | 751,528  | 975,081                           | 1,726,609                          | (S)   | ( <sup>8</sup> )                                    | ( <sup>8</sup> )                         |
| 1939 <sup>2 7</sup>   | (NA)                       | 930               | (NA)   | (NA)              | (NA)                 | 207,767            | (NA)                 | 175,384            | 330,075  | 369,203                           | 699,278                            | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3142.—HOUSE SLIPPERS                                     |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963  | 149                        | 153               | 97   | 11,039            | 39,782               | 9,894              | 17,254               | 30,382             | 64,555   | 58,869                            | 62,560                             | 1,100   | 90  | 85                                       |
| 1962 <sup>1 3</sup>   | (NA)                       | (NA)              | (NA)   | 12,015            | 42,365               | 10,626             | 18,392               | 31,460             | 67,678   | 66,230                            | 133,668                            | (1,120)   | (NA)  | (NA)                                     |
| 1961 <sup>1 3</sup>   | (NA)                       | (NA)              | (NA)   | 12,278            | 40,147               | 10,816             | 18,094               | 29,386             | 67,905   | 64,358                            | 131,836                            | (1,159)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 11,348            | 38,616               | 10,024             | 17,434               | 28,868             | 60,072   | 59,129                            | 119,386                            | (S)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 12,457            | 40,960               | 10,995             | 19,237               | 30,771             | 65,718   | 62,824                            | 128,413                            | (S)   | (NA)  | (NA)                                     |
| 1958  | 160                        | 164               | 97   | 11,520            | 37,057               | 10,168             | 18,046               | 28,291             | 59,656   | 52,552                            | 112,145                            | 590   | 90  | 85                                       |
| 1957 <sup>1 2</sup>   | (NA)                       | (NA)              | (NA)   | 12,661            | 38,225               | 11,188             | 20,310               | 28,194             | 61,048   | 63,610                            | 123,974                            | (S)   | (NA)  | (NA)                                     |
| 1956 <sup>1 2</sup>   | (NA)                       | (NA)              | (NA)   | 13,136            | 38,326               | 11,702             | 21,116               | 28,479             | 58,478   | 62,737                            | 121,177                            | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>1 2</sup>   | (NA)                       | (NA)              | (NA)   | 12,665            | 35,994               | 11,235             | 20,095               | 27,072             | 53,762   | 54,558                            | 106,990                            | (S)   | (NA)  | (NA)                                     |
| 1954 <sup>2</sup>   | 170                        | 173               | 99   | 10,879            | 30,065               | 9,661              | 16,773               | 22,911             | 45,418   | 45,641                            | 90,760                             | 664   | 89  | 87                                       |
| 1947 <sup>2</sup>   | ( <sup>8</sup> )           | 208               | (NA)   | 9,433             | 19,889               | 8,441              | 18,895               | 15,713             | 34,015   | 33,373                            | 67,388                             | (NA)  | ( <sup>8</sup> )                                    | ( <sup>8</sup> )                         |
| 1939 <sup>2 7</sup>   | (NA)                       | 139               | (NA)   | (NA)              | (NA)                 | 10,243             | (NA)                 | 8,253              | 16,072   | 19,235                            | 35,307                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRIES 3141 AND 3142.—SHOES, EXCEPT RUBBER AND HOUSE SLIPPERS |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963  | (NA)                       | 1,193             | 912  | 212,767           | 753,359              | 192,795            | 352,223              | 619,751            | 61,279,295   | 1,094,496                         | 62,372,727                         | 19,570  | 100   | 100                                      |
| 1962 <sup>3</sup>   | (NA)                       | (NA)              | (NA)   | 227,791           | 784,556              | 206,041            | 374,917              | 640,834            | 1,283,646  | 1,161,587                         | 2,446,006                          | 18,793  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 228,714           | 758,470              | 206,032            | 370,217              | 614,225            | 1,245,753  | 1,114,734                         | 2,364,946                          | 22,438  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 227,688           | 743,338              | 205,051            | 369,940              | 603,982            | 1,221,132  | 1,109,961                         | 2,332,041                          | (NA)  | (NA)  | (NA)                                     |
| 1959 <sup>3</sup>   | (NA)                       | (NA)              | (NA)   | 232,123           | 757,964              | 209,883            | 385,522              | 619,583            | 1,250,763  | 1,163,807                         | 2,407,977                          | (NA)  | (NA)  | (NA)                                     |
| 1958  | (NA)                       | 1,279             | 984  | 226,831           | 699,478              | 204,482            | 366,527              | 570,470            | 1,145,916  | 1,016,841                         | 2,161,002                          | 15,034  | 100   | 100                                      |
| 1957 <sup>1 2</sup>   | (NA)                       | (NA)              | (NA)   | 235,026           | 718,280              | 212,215            | 382,739              | 598,843            | 1,145,044  | 1,031,673                         | 2,167,779                          | 18,164  | (NA)  | (NA)                                     |
| 1956 <sup>1 2</sup>   | (NA)                       | (NA)              | (NA)   | 235,977           | 704,892              | 213,757            | 389,786              | 591,907            | 1,133,900  | 1,031,908                         | 2,139,329                          | 17,937  | (NA)  | (NA)                                     |
| 1955 <sup>1 2</sup>   | (NA)                       | (NA)              | (NA)   | 233,786           | 664,316              | 212,017            | 392,556              | 551,130            | 1,046,000  | 965,435                           | 1,998,808                          | 17,716  | (NA)  | (NA)                                     |
| 1954 <sup>2</sup>   | (NA)                       | 1,369             | 1,030  | 230,254           | 619,332              | 209,568            | 373,455              | 513,053            | 988,379  | 910,608                           | 1,899,887                          | 12,084  | 100   | 100                                      |

See footnotes at end of table.

TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRIES 3141 AND 3142.—SHOES, EXCEPT RUBBER AND HOUSE SLIPPERS—Continued |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1953 <sup>1 2</sup> .....   | (NA)                       | (NA)              | (NA)   | 244,044           | 670,318              | 222,583            | 403,390              | 556,749            | 1,026,968  | (NA)                              | (NA)                               | 11,954  | (NA)  | (NA)                                     |
| 1952 <sup>1 2</sup> .....   | (NA)                       | (NA)              | (NA)   | 231,185           | 614,358              | 209,082            | 378,551              | 514,516            | 931,995  | (NA)                              | (NA)                               | 9,515   | (NA)  | (NA)                                     |
| 1951 <sup>1 2</sup> .....   | (NA)                       | (NA)              | (NA)   | 223,760           | 559,599              | 202,511            | 350,549              | 463,093            | 854,744  | (NA)                              | (NA)                               | 9,780   | (NA)  | (NA)                                     |
| 1950 <sup>1 2</sup> .....   | (NA)                       | (NA)              | (NA)   | 241,197           | 560,615              | 219,803            | 388,333              | 470,016            | 855,424  | (NA)                              | (NA)                               | (S)   | (NA)  | (NA)                                     |
| 1949 <sup>1 2</sup> .....   | (NA)                       | (NA)              | (NA)   | 240,392           | 530,467              | 219,866            | 380,788              | 442,413            | 778,336  | (NA)                              | (NA)                               | 12,567  | (NA)  | (NA)                                     |
| 1947 <sup>2</sup> .....   | (NA)                       | 1,500             | (NA)   | 240,315           | 516,879              | 220,634            | 419,652              | 438,894            | 1,008,454  | 785,543                           | 1,793,997                          | 13,344  | (NA)  | (NA)                                     |
| 1939 <sup>2</sup> .....   | (NA)                       | 1,069             | (NA)   | (NA)              | (NA)                 | 218,010            | (NA)                 | 183,637            | 346,147  | 388,438                           | 734,585                            | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> .....   | (NA)                       | 1,080             | (NA)   | 230,330           | 220,352              | 215,438            | (NA)                 | 191,305            | 352,022  | 416,305                           | 768,327                            | (NA)  | (NA)  | (NA)                                     |
| 1935 <sup>2</sup> .....   | (NA)                       | 1,024             | (NA)   | 216,335           | 200,241              | 202,113            | (NA)                 | 172,349            | 310,073  | 333,799                           | 643,872                            | (NA)  | (NA)  | (NA)                                     |
| 1933 <sup>2</sup> .....   | (NA)                       | 1,132             | (NA)   | 202,795           | 159,884              | 190,914            | (NA)                 | 142,054            | 267,122  | 286,303                           | 553,425                            | (NA)  | (NA)  | (NA)                                     |
| 1931 <sup>2</sup> .....   | (NA)                       | 1,156             | (NA)   | (NA)              | (NA)                 | 181,374            | (NA)                 | 163,271            | 316,253  | 337,627                           | 653,880                            | (NA)  | (NA)  | (NA)                                     |
| 1929 <sup>2</sup> .....   | (NA)                       | 1,341             | (NA)   | 225,235           | 266,693              | 205,640            | (NA)                 | 222,408            | 450,868  | 515,055                           | 965,923                            | (NA)  | (NA)  | (NA)                                     |
| 1927 <sup>2</sup> .....   | (NA)                       | 1,357             | (NA)   | 223,436           | 268,434              | 203,110            | (NA)                 | 225,090            | 450,161  | 494,553                           | 944,714                            | (NA)  | (NA)  | (NA)                                     |
| 1925 <sup>2</sup> .....   | (NA)                       | 1,460             | (NA)   | 227,955           | 267,994              | 206,992            | (NA)                 | 225,788            | 443,751  | 481,632                           | 925,383                            | (NA)  | (NA)  | (NA)                                     |
| 1923 <sup>2</sup> .....   | (NA)                       | 1,606             | (NA)   | 249,565           | 299,984              | 225,216            | (NA)                 | 250,346            | 472,621  | 527,457                           | 1,000,078                          | (NA)  | (NA)  | (NA)                                     |
| 1921 <sup>2</sup> .....   | (NA)                       | 1,505             | (NA)   | 205,044           | 244,543              | 183,502            | (NA)                 | 204,954            | 389,044  | 478,432                           | 867,476                            | (NA)  | (NA)  | (NA)                                     |
| 1919 <sup>2</sup> .....   | (NA)                       | 1,449             | (NA)   | 236,224           | 268,860              | 211,049            | (NA)                 | 210,735            | 439,772  | 715,269                           | 1,155,041                          | (NA)  | (NA)  | (NA)                                     |
| 1914 <sup>2</sup> .....   | (NA)                       | 1,355             | (NA)   | 209,258           | 128,623              | 191,555            | (NA)                 | 105,695            | 191,403  | 310,357                           | 501,760                            | (NA)  | (NA)  | (NA)                                     |
| 1909 <sup>2</sup> .....   | (NA)                       | 1,343             | (NA)   | 199,629           | 109,646              | 185,116            | (NA)                 | 92,359             | 165,163  | 277,468                           | 442,631                            | (NA)  | (NA)  | (NA)                                     |
| 1904 <sup>2</sup> .....   | (NA)                       | 1,316             | (NA)   | 158,735           | 77,766               | 149,924            | (NA)                 | 69,060             | 122,744  | 197,363                           | 320,107                            | (NA)  | (NA)  | (NA)                                     |
| 1899 <sup>2</sup> .....   | (NA)                       | 1,599             | (NA)   | 149,609           | 66,111               | 141,830            | (NA)                 | 58,441             | 90,337   | 168,633                           | 258,970                            | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: For 1954-1963 figures represent adjusted value added, which is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. For 1958, however, value of production rather than value of shipments was collected for industries 3141, Footwear, Except Rubber, and 3142, House Slippers. In computing 1958 adjusted value added for these industries, the net change of only work-in-process inventories is included. For years prior to 1954 figures represent unadjusted value added. Cost of materials: Cost of materials prior to 1954 excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1954 excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Data for Alaska and Hawaii are included.

<sup>3</sup>For 1957 and earlier years estimates with a standard error.

<sup>4</sup>In this industry which contains a very large number of very small establishments, there is a possibility that some of these small establishments may have been misclassified as to industry. This would not affect the statistics other than the number of establishments.

<sup>5</sup>Figures for 1933 and earlier years were obtained by combining the data for two former industries: "Boot and shoe cut stock, not made in boot and shoe factories," and "Boot and shoe cut findings, not made in boot and shoe factories."

<sup>6</sup>See text regarding comparability of 1963 and prior years.

<sup>7</sup>"Footwear, except rubber" and "House slippers" formerly constituted a single classification. The separate figures for 1939-1963 have been combined in order that statistics can be shown for the entire period 1899-1963.

<sup>8</sup>Comparable data are not available due to significant revisions in the 1947 classifications of plants and products in this industry.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                 | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                        | 1958                      |                  |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|------------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments     | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                        |                           |                  |                                      |
| INDUSTRY 3111.—LEATHER TANNING AND FINISHING |                |                                    |                |                   |                    |                   |                 |                                      |                   |                        |                           |                  |                                      |
| Total.....                                   | 525            | 256                                | 31,417         | 163,307           | 27,282             | 54,556            | 129,756         | 273,092                              | 480,507           | 758,408                | 6,480                     | 37,130           | 275,796                              |
| New England.....                             | 195            | 89                                 | 9,978          | 50,532            | 8,690              | 17,092            | 40,017          | 81,767                               | 159,639           | 241,749                | 2,082                     | 11,057           | 86,012                               |
| New Hampshire....                            | 17             | 15                                 | 1,615          | 7,821             | 1,427              | 2,877             | 6,488           | 8,747                                | 17,743            | 27,444                 | 361                       | 1,758            | 10,971                               |
| Massachusetts....                            | 162            | 60                                 | 5,994          | 32,075            | 5,190              | 9,959             | 24,915          | 55,148                               | 120,183           | 174,972                | 1,197                     | 7,556            | 63,847                               |
| Middle Atlantic....                          | 188            | 76                                 | 8,211          | 42,725            | 7,085              | 13,897            | 34,088          | 70,023                               | 117,533           | 190,739                | 1,140                     | 11,348           | 80,149                               |
| New York.....                                | 109            | 30                                 | 3,222          | 16,342            | 2,814              | 5,383             | 13,333          | 28,271                               | 52,350            | 81,346                 | 366                       | 4,164            | 31,700                               |
| New Jersey.....                              | 53             | 26                                 | 2,247          | 12,718            | 1,934              | 4,012             | 10,043          | 22,150                               | 30,488            | 52,864                 | 511                       | 2,854            | 21,341                               |
| Pennsylvania.....                            | 26             | 20                                 | 2,742          | 13,665            | 2,337              | 4,502             | 10,712          | 19,602                               | 34,695            | 56,529                 | 263                       | 4,330            | 27,102                               |
| East North Central.                          | 67             | 48                                 | 7,704          | 44,976            | 6,632              | 13,857            | 35,322          | 78,591                               | 118,497           | 196,683                | 2,058                     | 8,934            | 69,689                               |
| Illinois.....                                | 20             | 13                                 | 2,038          | 11,950            | 1,808              | 3,882             | 9,803           | 19,551                               | 33,352            | 52,863                 | 493                       | 2,303            | 18,274                               |
| Michigan.....                                | 7              | 5                                  | 886            | 5,173             | 747                | 1,533             | 4,269           | 9,396                                | 14,684            | 23,585                 | 362                       | 927              | 6,439                                |
| Wisconsin.....                               | 27             | 22                                 | 3,967          | 23,920            | 3,341              | 7,018             | 18,012          | 44,415                               | 61,277            | 106,000                | 1,144                     | 4,349            | 35,201                               |
| West North Central.                          | 9              | 4                                  | 603            | 3,437             | 525                | 1,062             | 2,742           | 6,178                                | 10,149            | 16,012                 | 163                       | 541              | 4,277                                |
| South.....                                   | 42             | 30                                 | 4,299          | 18,141            | 3,808              | 7,593             | 14,829          | 31,389                               | 67,259            | 100,147                | 787                       | 4,505            | 29,684                               |
| Delaware.....                                | 7              | 7                                  | 1,086          | 5,263             | 886                | 1,748             | 4,068           | 8,447                                | 13,713            | 21,933                 | (D)                       | 1,489            | 10,482                               |
| Tennessee.....                               | 10             | 7                                  | 1,103          | 4,290             | 971                | 1,896             | 3,321           | 10,127                               | 25,446            | 34,844                 | 191                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West.....                                    | 24             | 9                                  | 622            | 3,496             | 542                | 1,055             | 2,758           | 5,144                                | 7,430             | 13,078                 | 250                       | 745              | 5,985                                |
| California.....                              | 17             | 8                                  | 558            | 3,209             | 483                | 944               | 2,509           | 4,433                                | 6,623             | 11,544                 | 228                       | 674              | 5,528                                |
| INDUSTRY 3121.—INDUSTRIAL LEATHER BELTING    |                |                                    |                |                   |                    |                   |                 |                                      |                   |                        |                           |                  |                                      |
| Total.....                                   | 83             | 23                                 | 2,870          | 15,897            | 2,099              | 4,198             | 9,723           | 32,915                               | 18,954            | 51,869                 | 742                       | 3,975            | 36,300                               |
| Northeast.....                               | 38             | 9                                  | 846            | 4,267             | 646                | 1,286             | 2,693           | 7,886                                | 6,892             | 14,764                 | 55                        | 1,011            | 7,893                                |
| New York.....                                | 12             | 2                                  | 110            | 511               | 86                 | 175               | 244             | 600                                  | 537               | 1,146                  | 11                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pennsylvania.....                            | 6              | 3                                  | 186            | 934               | 142                | 268               | 666             | 1,921                                | 1,012             | 2,941                  | 6                         | 198              | 1,739                                |
| East North Central.                          | 14             | 6                                  | 1,151          | 5,827             | 924                | 1,820             | 4,172           | 16,558                               | 5,393             | 21,853                 | 521                       | 2,087            | 20,665                               |
| Illinois.....                                | 5              | 2                                  | 110            | 437               | 83                 | 168               | 274             | 706                                  | 443               | 1,159                  | 9                         |                  |                                      |
| West North Central.                          | 3              | 1                                  | 41             | 254               | 26                 | 52                | 115             | 388                                  | 229               | 624                    | 6                         | 877              | 7,742                                |
| South and West.....                          | 28             | 7                                  | 832            | 5,549             | 503                | 1,040             | 2,743           | 8,083                                | 6,440             | 14,628                 | 160                       |                  |                                      |
| INDUSTRY 3131.—FOOTWEAR CUT STOCK            |                |                                    |                |                   |                    |                   |                 |                                      |                   |                        |                           |                  |                                      |
| Total.....                                   | 446            | 204                                | 14,339         | 53,420            | 12,600             | 23,694            | 40,867          | 90,611                               | 138,225           | 229,253                | 1,620                     | 18,031           | 98,380                               |
| New England.....                             | 258            | 122                                | 7,926          | 30,614            | 6,865              | 12,819            | 22,215          | 50,941                               | 71,613            | 122,530                | 855                       | 9,687            | 54,606                               |
| Maine.....                                   | 30             | 19                                 | 1,260          | 4,374             | 1,129              | 2,044             | 3,295           | 7,073                                | 6,627             | 13,703                 | 153                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| New Hampshire....                            | 35             | 15                                 | 990            | 3,418             | 880                | 1,600             | 2,730           | 5,600                                | 9,193             | 14,799                 | 90                        | 1,138            | 5,834                                |
| Massachusetts....                            | 186            | 83                                 | 5,421          | 21,586            | 4,630              | 8,677             | 15,331          | 36,492                               | 54,646            | 91,023                 | 560                       | 7,213            | 42,382                               |
| Rhode Island.....                            | 4              | 3                                  | 156            | 848               | 134                | 317               | 544             | 1,085                                | 792               | 1,964                  | 19                        | 326              | 1,518                                |
| Middle Atlantic....                          | 100            | 31                                 | 2,152          | 7,882             | 1,905              | 3,614             | 6,335           | 12,396                               | 22,371            | 34,596                 | 191                       | 3,549            | 18,363                               |
| New York.....                                | 75             | 23                                 | 1,432          | 5,374             | 1,267              | 2,389             | 4,313           | 8,539                                | 14,547            | 23,142                 | 137                       | 2,494            | 12,480                               |
| East North Central.                          | 23             | 11                                 | 883            | 3,289             | 792                | 1,553             | 2,742           | 5,151                                | 7,526             | 12,772                 | 86                        | 774              | 3,981                                |
| Ohio.....                                    | 5              | 3                                  | 267            | 1,017             | 237                | 496               | 853             | 1,681                                | 1,284             | 2,862                  | (D)                       | 218              | 948                                  |
| Illinois.....                                | 9              | 5                                  | 309            | 1,106             | 286                | 535               | 968             | 1,828                                | 2,928             | 4,919                  | 23                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West North Central.                          | 38             | 28                                 | 2,482          | 8,560             | 2,217              | 4,177             | 6,964           | 16,961                               | 28,829            | 46,116                 | 447                       | 2,996            | 16,566                               |
| South Atlantic....                           | 6              | 5                                  | 190            | 612               | 171                | 321               | 503             | 764                                  | 1,945             | 2,850                  | 11                        |                  |                                      |
| East South Central.                          | 6              | 4                                  | 518            | 1,800             | 487                | 907               | 1,592           | 3,341                                | 4,881             | 8,240                  | 22                        | 823              | 3,796                                |
| West South Central.                          | 4              | -                                  | 36             | 88                | 32                 | 63                | 77              | 126                                  | 174               | 306                    | 2                         |                  |                                      |
| Pacific.....                                 | 11             | 3                                  | 152            | 575               | 131                | 240               | 439             | 931                                  | 886               | 1,843                  | 6                         | 196              | 1,050                                |
| California.....                              | 7              | 3                                  | 136            | 518               | 117                | 212               | 392             | 856                                  | 678               | 1,558                  | 2                         | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| INDUSTRY 3141.—SHOES, EXCEPT RUBBER          |                |                                    |                |                   |                    |                   |                 |                                      |                   |                        |                           |                  |                                      |
| Total.....                                   | 1,040          | 815                                | 201,728        | 713,577           | 182,901            | 334,969           | 589,369         | <sup>3</sup> 1,214,740               | 1,035,627         | <sup>3</sup> 2,249,167 | 18,470                    | 215,311          | 1,086,260                            |
| New England.....                             | 316            | 267                                | 70,996         | 263,517           | 63,641             | 113,365           | 212,094         | 386,203                              | 340,379           | 726,099                | 4,644                     | 76,158           | 367,640                              |
| Massachusetts....                            | 167            | 136                                | 31,140         | 121,275           | 27,554             | 47,929            | 96,006          | 179,289                              | 147,769           | 326,623                | 1,816                     | 38,689           | 196,133                              |
| Connecticut.....                             | 15             | 14                                 | 1,583          | 5,123             | 1,478              | 2,739             | 4,344           | 7,974                                | 6,890             | 14,935                 | 107                       | 1,570            | 6,670                                |
| Middle Atlantic....                          | 292            | 217                                | 39,108         | 135,621           | 35,700             | 66,580            | 113,359         | 209,150                              | 203,573           | 414,851                | 3,820                     | 44,503           | 204,628                              |
| New York.....                                | 152            | 96                                 | 14,045         | 52,327            | 12,563             | 23,243            | 42,351          | 81,617                               | 81,472            | 163,158                | 1,563                     | 20,843           | 101,104                              |
| New Jersey.....                              | 13             | 9                                  | 1,112          | 3,859             | 1,036              | 1,420             | 3,056           | 5,557                                | 5,187             | 10,886                 | 69                        | 822              | 3,967                                |
| Pennsylvania.....                            | 127            | 112                                | 23,951         | 79,435            | 22,101             | 41,917            | 67,952          | 121,976                              | 116,914           | 240,807                | 2,188                     | 22,838           | 99,557                               |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                  | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                      | 1958                      |                  |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|----------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments   | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                      |                           |                  |                                      |
| INDUSTRY 3141.—SHOES, EXCEPT RUBBER—Continued |                |                                    |                |                   |                    |                   |                 |                                      |                   |                      |                           |                  |                                      |
| East North Central.                           | 110            | 96                                 | 30,753         | 117,496           | 27,479             | 50,691            | 95,125          | 221,750                              | 168,199           | 390,432              | 2,813                     | 33,929           | 194,523                              |
| Indiana.....                                  | 7              | 6                                  | 2,141          | 8,121             | 2,021              | 4,048             | 7,468           | 17,497                               | 13,105            | 30,474               | 253                       | 1,950            | 12,870                               |
| Illinois.....                                 | 35             | 29                                 | 10,750         | 37,979            | 9,906              | 17,675            | 32,210          | 77,967                               | 57,176            | 135,738              | 464                       | 12,889           | 74,045                               |
| Wisconsin.....                                | 41             | 38                                 | 8,614          | 34,905            | 7,183              | 13,470            | 25,475          | 59,288                               | 53,765            | 113,414              | 580                       | 9,914            | 57,248                               |
| West North Central.                           | 91             | 79                                 | 22,797         | 72,689            | 20,937             | 37,629            | 62,929          | 159,677                              | 120,213           | 280,213              | 2,997                     | 29,387           | 159,663                              |
| Minnesota.....                                | 7              | 6                                  | 1,000          | 4,706             | 860                | 1,669             | 3,048           | 8,838                                | 6,533             | 15,152               | 84                        | 1,057            | 6,717                                |
| Missouri.....                                 | 76             | 69                                 | 21,511         | 67,058            | 19,844             | 35,540            | 59,182          | 149,459                              | 112,798           | 262,661              | 2,892                     | 27,970           | 151,373                              |
| South Atlantic.....                           | 54             | 40                                 | 10,030         | 31,860            | 8,991              | 16,855            | 25,348          | 55,096                               | 47,552            | 99,942               | 823                       | 28,369           | 143,729                              |
| North Carolina...                             | 8              | 6                                  | 1,227          | 3,949             | 996                | 1,808             | 2,642           | 8,489                                | 6,751             | 14,666               | 129                       |                  |                                      |
| East South Central.                           | 53             | 51                                 | 17,423         | 58,175            | 16,368             | 31,903            | 51,935          | 122,922                              | 107,833           | 229,711              | 2,601                     |                  |                                      |
| Kentucky.....                                 | 7              | 7                                  | 2,287          | 7,696             | 2,157              | 4,149             | 7,043           | 15,464                               | 11,754            | 27,281               | (D)                       |                  |                                      |
| West South Central.                           | 45             | 31                                 | 7,815          | 23,301            | 7,307              | 13,503            | 20,101          | 42,339                               | 33,386            | 75,753               | 574                       |                  |                                      |
| Arkansas.....                                 | 17             | 17                                 | 6,031          | 18,004            | 5,701              | 10,740            | 16,028          | 33,059                               | 26,075            | 59,169               | 300                       |                  |                                      |
| Texas.....                                    | 28             | 14                                 | 1,784          | 5,297             | 1,606              | 2,763             | 4,073           | 9,280                                | 7,311             | 16,584               | 274                       |                  |                                      |
| West.....                                     | 79             | 34                                 | 2,806          | 10,918            | 2,478              | 4,443             | 8,478           | 17,603                               | 14,492            | 32,166               | 198                       | 2,965            | 16,077                               |
| Hawaii.....                                   | 11             | 3                                  | 100            | 384               | 87                 | 150               | 350             | 609                                  | 561               | 1,165                | 27                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| INDUSTRY 3142.—HOUSE SLIPPERS                 |                |                                    |                |                   |                    |                   |                 |                                      |                   |                      |                           |                  |                                      |
| Total.....                                    | 153            | 97                                 | 11,039         | 39,782            | 9,894              | 17,254            | 30,382          | <sup>3</sup> 64,555                  | 58,869            | <sup>3</sup> 123,560 | 1,100                     | 11,520           | 59,656                               |
| New England.....                              | 32             | 21                                 | 2,740          | 9,414             | 2,448              | 4,033             | 7,073           | 14,592                               | 14,477            | 29,100               | 192                       | 2,887            | 15,181                               |
| Massachusetts....                             | 23             | 15                                 | 2,284          | 7,742             | 2,043              | 3,255             | 5,820           | 12,322                               | 12,254            | 24,573               | 147                       | 2,382            | 12,486                               |
| Middle Atlantic....                           | 92             | 58                                 | 6,190          | 23,291            | 5,627              | 9,959             | 18,340          | 37,758                               | 35,103            | 72,969               | 683                       | 6,165            | 32,831                               |
| New York.....                                 | 74             | 43                                 | 4,267          | 15,140            | 3,847              | 6,619             | 11,982          | 26,242                               | 23,862            | 49,931               | 415                       | 4,476            | 24,377                               |
| New Jersey.....                               | 8              | 8                                  | 952            | 4,776             | 875                | 1,753             | 3,472           | 6,376                                | 5,551             | 11,835               | 145                       | 888              | 4,729                                |
| Pennsylvania....                              | 10             | 7                                  | 971            | 3,375             | 905                | 1,587             | 2,886           | 5,140                                | 5,690             | 11,203               | 123                       | 801              | 3,725                                |
| East North Central.                           | 10             | 7                                  | 783            | 2,713             | 688                | 1,185             | 1,804           | 4,764                                | 3,125             | 7,915                | 85                        | 783              | 3,359                                |
| Wisconsin.....                                | 4              | 3                                  | 194            | 571               | 171                | 282               | 447             | 849                                  | 782               | 1,641                | 22                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West North Central.                           | 7              | 6                                  | 842            | 2,906             | 724                | 1,376             | 2,157           | 4,972                                | 4,197             | 9,163                | 77                        | 941              | 4,400                                |
| South and West.....                           | 12             | 5                                  | 484            | 1,458             | 407                | 701               | 1,008           | 2,469                                | 1,967             | 4,413                | 63                        | 744              | 3,885                                |

(D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3111, Leather Tanning and Finishing: New England—Maine, 13 (2,059); Vermont, 1 (100-249); Connecticut, 2 (20-99); East North Central—Ohio, 11 (500-999); Indiana, 2 (100-249); West North Central—Minnesota, 3 (361); Missouri, 5 (100-249); Nebraska, 1 (20-99); South Atlantic—Maryland, 1 (100-249); Virginia, 4 (592); West Virginia, 5 (508); North Carolina, 2 (100-249); South Carolina, 1 (1-19); East South Central—Kentucky, 2 (100-249); West South Central—Louisiana, 1 (1-19); Texas, 4 (103); Mountain—Colorado, 1 (1-19); Utah, 1 (1-19); Pacific—Washington, 2 (1-19); Oregon, 3 (20-99).

SIC 3121, Industrial Leather Belting: New England—New Hampshire, 1 (100-249); Massachusetts, 12 (20-99); Rhode Island, 2 (1-19); Connecticut, 2 (1-19); Middle Atlantic—New Jersey, 3 (284); East North Central—Ohio, 3 (662); Michigan, 4 (100-249); Wisconsin, 2 (250-499); West North Central—Missouri, 3 (20-99); South Atlantic—Delaware, 1 (20-99); Maryland, 1 (1-19); North Carolina, 9 (20-99); South Carolina, 5 (20-99); Georgia, 3 (20-99); West South Central—Louisiana, 1 (1-19); Texas, 1 (1-19); Pacific—California, 7 (518).

SIC 3131, Footwear Cut Stock: New England—Vermont, 2 (20-99); Connecticut, 1 (1-19); Middle Atlantic—New Jersey, 3 (20-99); Pennsylvania, 22 (500-999); East North Central—Indiana, 1 (20-99); Michigan, 1 (20-99); Wisconsin, 7 (100-249); West North Central—Iowa, 1 (1-19); Missouri, 37 (1,000-2,499); South Atlantic—Maryland, 1 (1-19); Virginia, 3 (114); North Carolina, 1 (20-99); Florida, 1 (20-99); East South Central—Kentucky, 2 (20-99); Tennessee, 4 (250-499); West South Central—Oklahoma, 1 (1-19); Texas, 3 (20-99); Pacific—Oregon, 4 (1-19).

SIC 3141, Shoes, Except Rubber: New England—Maine, 74 (10,000 and over); New Hampshire, 60 (10,000 and over); East North Central—Ohio, 20 (7,087); Michigan, 7 (2,161); West North Central—Iowa, 2 (100-249); Nebraska, 2 (20-99); Kansas, 4 (20-99); South Atlantic—Maryland, 11 (1,000-2,499); Virginia, 10 (3,017); West Virginia, 1 (250-499); Georgia, 10 (2,500-4,999); Florida, 14 (500-999); East South Central—Tennessee, 37 (10,000 and over); Alabama, 4 (500-999); Mississippi, 5 (2,005); Mountain—New Mexico, 3 (104); Arizona, 3 (20-99); Pacific—Washington, 3 (20-99); Oregon, 4 (1-19); California, 55 (2,500-4,999).

SIC 3142, House Slippers: New England—Maine, 4 (20-99); Vermont, 1 (1-19); Rhode Island, 1 (20-99); Connecticut, 3 (307); East North Central—Ohio 3 (347); Indiana, 1 (100-249); Illinois, 2 (20-99); West North Central—Minnesota, 1 (20-99); Missouri, 5 (500-999); Kansas, 1 (0); South Atlantic—Maryland, 1 (100-249); Georgia, 1 (20-99); Florida, 1 (1-19); East South Central—Tennessee, 1 (1-19); West South Central—Arkansas, 1 (100-249); Texas, 4 (111); Pacific—Oregon, 1 (0); California, 1 (1-19); Hawaii, 1 (1-19).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in the size ranges) for such States.<sup>3</sup>See text regarding comparability for 1963 and prior years.



TABLE 3. Detailed Statistics: 1963

| Item   | Leather tanning and finishing<br>(SIC 3111) |                            |                             |  | Industrial<br>leather<br>belting<br>(SIC 3121) | Footwear<br>cut<br>stock<br>(SIC 3131) | Shoes,<br>except<br>rubber<br>(SIC 3141) | House<br>slippers<br>(SIC 3142) |
|--|---|----------------------------|-----------------------------|--|--|--|--|---------------------------------|
|  | Total<br>(SIC 3111)                         | Tanneries<br>(SIC 3111-11) | Converters<br>(SIC 3111-22) | Contract<br>tanneries<br>(SIC 3111-33) |  |  |  |                                 |
| Primary product specialization ratio <sup>1</sup> .....        | .99   | (NA)                       | (NA)                        | (NA)                                   | .89  | .93                                    | .99                                      | .90                             |
| Coverage ratio <sup>2</sup> .....                              | 1.00  | (NA)                       | (NA)                        | (NA)                                   | .84  | .94                                    | .99                                      | .85                             |
| Establishments, total.....number..                             | 525   | 284                        | 61                          | 180                                    | 83   | 446                                    | 1,040                                    | 153                             |
| With 1 to 19 employees.....do....                              | 269   | 133                        | 50                          | 86                                     | 60   | 242                                    | 225                                      | 56                              |
| With 20 to 99 employees.....do....                             | 166   | 81                         | 10                          | 75                                     | 18   | 169                                    | 214                                      | 60                              |
| With 100 employees or more.....do....                          | 90  | 70                         | 1                           | 19                                     | 5  | 35                                     | 601                                      | 37                              |
| Proprietors and working partners.....do....                    | 328   | (NA)                       | (NA)                        | (NA)                                   | 63   | 376                                    | 460                                      | 110                             |
| All employees (average for the year).....do....                | 31,417                                      | 22,164                     | 306                         | 8,447                                  | 2,870  | 14,339                                 | 201,728                                  | 11,039                          |
| Payroll (all employees), total for year.....\$1,000..          | 163,307                                     | 117,569                    | 5,781                       | 39,957                                 | 15,897   | 53,420                                 | 713,577                                  | 39,782                          |
| Production workers:  |   |                            |                             |  |  |  |  |                                 |
| Average for the year.....number..                              | 27,282                                      | 19,329                     | 413                         | 7,540                                  | 2,099  | 12,600                                 | 182,901                                  | 9,894                           |
| March.....do....   | 26,749                                      | 18,913                     | 404                         | 7,432                                  | 2,074  | 12,971                                 | 185,978                                  | 9,240                           |
| May.....do....   | 26,959                                      | 19,064                     | 417                         | 7,478                                  | 2,128  | 12,353                                 | 180,544                                  | 9,703                           |
| August.....do....  | 27,284                                      | 19,288                     | 411                         | 7,585                                  | 2,129  | 12,464                                 | 184,527                                  | 10,604                          |
| November.....do....  | 28,136                                      | 20,051                     | 420                         | 7,665                                  | 2,065  | 12,620                                 | 180,555                                  | 10,029                          |
| Man-hours.....1,000..  | 54,556                                      | 38,854                     | 831                         | 14,871                                 | 4,198  | 23,694                                 | 334,959                                  | 17,254                          |
| January-March.....do....                                       | 13,436                                      | 9,542                      | 199                         | 3,695                                  | 1,033  | 6,056                                  | 85,636                                   | 3,654                           |
| April-June.....do....  | 13,871                                      | 9,884                      | 214                         | 3,773                                  | 1,082  | 5,914                                  | 82,359                                   | 4,417                           |
| July-September.....do....                                      | 13,275                                      | 9,507                      | 205                         | 3,563                                  | 1,030  | 5,740                                  | 83,211                                   | 4,643                           |
| October-December.....do....                                    | 13,974                                      | 9,921                      | 213                         | 3,840                                  | 1,053  | 5,984                                  | 83,763                                   | 4,540                           |
| Wages.....\$1,000..  | 129,756                                     | 94,025                     | 2,150                       | 33,581                                 | 9,723  | 40,867                                 | 589,369                                  | 30,382                          |
| Cost of materials, etc., total.....do....                      | 480,507                                     | 332,549                    | 109,360                     | 38,598                                 | 18,954   | 138,225                                | 1,035,627                                | 53,869                          |
| Materials, parts, containers, and supplies consumed.....do.... | 397,655                                     | 303,226                    | 60,937                      | 33,492                                 | 15,591   | 129,045                                | 983,404                                  | 54,695                          |
| Cost of resales.....do....                                     | 8,177                                       | 6,370                      | 1,711                       | 96                                     | 2,697  | 6,310                                  | 24,157                                   | 701                             |
| Fuels consumed.....do....                                      | 8,350                                       | 6,114                      | 53                          | 2,183                                  | 139  | 543                                    | 2,718                                    | 147                             |
| Electric energy:   |   |                            |                             |  |  |  |  |                                 |
| Purchased:   |   |                            |                             |  |  |  |  |                                 |
| Quantity.....million kw.-hrs..                                 | 291   | 220                        | 5                           | 66                                     | 16   | 54                                     | 367                                      | 20                              |
| Cost.....\$1,000..   | 4,694                                       | 3,404                      | 82                          | 1,208                                  | 227  | 1,027                                  | 7,172                                    | 398                             |
| Generated less sold.....million kw.-hrs..                      | 78  | 66                         | -                           | 12                                     | -  | (D)                                    | 2  | (D)                             |
| Contract work.....\$1,000..                                    | 61,631                                      | 13,435                     | 46,577                      | 1,619                                  | 300  | 1,300                                  | 18,176                                   | 2,928                           |
| Value of shipments (including resales), total.....do....       | 758,408                                     | 533,109                    | 127,744                     | 97,555                                 | 51,869   | 229,253                                | 2,249,167                                | 123,560                         |
| Value of resales.....do....                                    | 9,095                                       | 6,901                      | 1,989                       | 205                                    | 3,783  | 7,972                                  | 29,722                                   | 946                             |
| Value added by manufacture, adjusted.....do....                | 273,092                                     | 196,842                    | 17,212                      | 59,038                                 | 32,915   | 90,611                                 | 1,214,740                                | 64,555                          |
| Manufacturers' inventories:                                    |   |                            |                             |  |  |  |  |                                 |
| Beginning of year, total.....do....                            | 149,201                                     | 119,631                    | 20,353                      | 9,217                                  | 7,667  | 24,310                                 | 273,045                                  | 12,203                          |
| Finished products.....do....                                   | 46,085                                      | 36,795                     | 8,713                       | 577                                    | 3,489  | 9,596                                  | 105,974                                  | 5,518                           |
| Work-in-process.....do....                                     | 63,404                                      | 52,110                     | 6,789                       | 4,505                                  | 1,839  | 3,319                                  | 50,988                                   | 1,421                           |
| Materials, supplies, fuel, etc.....do....                      | 39,712                                      | 30,726                     | 4,851                       | 4,135                                  | 2,339  | 11,395                                 | 116,083                                  | 5,264                           |
| End of year, total.....do....                                  | 140,301                                     | 112,807                    | 18,368                      | 9,126                                  | 7,726  | 22,980                                 | 268,527                                  | 11,927                          |
| Finished products.....do....                                   | 43,839                                      | 35,419                     | 7,945                       | 475                                    | 3,566  | 8,831                                  | 106,619                                  | 5,599                           |
| Work-in-process.....do....                                     | 60,841                                      | 49,768                     | 6,335                       | 4,688                                  | 1,762  | 3,667                                  | 51,543                                   | 1,204                           |
| Materials, supplies, fuel, etc.....do....                      | 35,621                                      | 27,620                     | 4,038                       | 3,963                                  | 2,398  | 10,482                                 | 110,365                                  | 5,124                           |
| Expenditures for plant and equipment, total.....do....         | 7,003                                       | 5,371                      | 170                         | 1,462                                  | 771  | 1,953                                  | 20,868                                   | 1,155                           |
| New, total.....do....  | 6,480                                       | 5,031                      | 164                         | 1,285                                  | 742  | 1,620                                  | 18,470                                   | 1,100                           |
| New structures and additions to plant.....do....               | 756   | 620                        | 26                          | 110                                    | 75   | 184                                    | 4,225                                    | 161                             |
| New machinery and equipment.....do....                         | 5,724                                       | 4,411                      | 138                         | 1,175                                  | 667  | 1,436                                  | 14,245                                   | 939                             |
| Used plant and equipment.....do....                            | 523   | 340                        | 6                           | 177                                    | 29   | 333                                    | 2,398                                    | 55                              |
| Selected operating ratios:                                     |   |                            |                             |  |  |  |  |                                 |
| Payroll/Total employment.....                                  | 5,198                                       | 5,305                      | 7,172                       | 4,730                                  | 5,539  | 3,726                                  | 3,537                                    | 3,604                           |
| Production workers/Total employment.....                       | .87   | .87                        | .51                         | .89                                    | .73  | .88                                    | .91                                      | .90                             |
| Man-hours/Production workers.....                              | 2,000                                       | 2,010                      | 2,012                       | 1,972                                  | 1,984  | 1,880                                  | 1,831                                    | 1,744                           |
| Production worker wages/Man-hours.....                         | 2.38  | 2.42                       | 2.59                        | 2.26                                   | 2.33   | 1.72                                   | 1.76                                     | 1.76                            |
| Cost of materials and payrolls/Total value of shipments....    | .85   | .84                        | .90                         | .81                                    | .67  | .84                                    | .78                                      | .80                             |
| Cost of materials/Total value of shipments.....                | .63   | .62                        | .86                         | .40                                    | .37  | .60                                    | .46                                      | .43                             |
| Adjusted value added/Total employment.....                     | 8,692                                       | 8,881                      | 21,355                      | 6,989                                  | 11,469   | 6,319                                  | 6,022                                    | 5,848                           |
| Salaries and wages/Adjusted value added.....                   | .60   | .60                        | .34                         | .68                                    | .48  | .59                                    | .59                                      | .62                             |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not a applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of- |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| <b>INDUSTRY 3111.—LEATHER TANNING AND FINISHING</b> |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                         | 525                   | 116                                | 82               | 71                 | 88                 | 78                 | 63                   | 23                   | 3                    | 1                        | -                        |
| All employees:                                      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                    | 31,417                | 209                                | 550              | 1,020              | 2,769              | 5,465              | 10,132               | 7,918                | 3,354                | (D)                      | -                        |
| Payroll.....\$1,000..                               | 163,307               | 1,278                              | 2,799            | 4,969              | 13,239             | 26,859             | 51,010               | 44,239               | 18,914               | (D)                      | -                        |
| Value added, adjusted.....do....                    | 273,092               | 5,415                              | 6,517            | 10,862             | 22,335             | 44,823             | 79,799               | 75,331               | 28,010               | (D)                      | -                        |
| Value of shipments.....do....                       | 758,408               | 29,735                             | 28,236           | 44,207             | 58,215             | 126,702            | 224,858              | 174,945              | 71,510               | (D)                      | -                        |
| Capital expenditures, new...do....                  | 6,480                 | 58                                 | 98               | 193                | 555                | 827                | 1,875                | 2,108                | 766                  | (D)                      | -                        |
| <b>Subindustry 3111-11.—Tanneries</b>               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                         | 284                   | 60                                 | 48               | 25                 | 39                 | 42                 | 48                   | 19                   | 2                    | 1                        | -                        |
| All employees:                                      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                    | 22,164                | 103                                | 333              | 367                | 1,225              | 2,938              | 7,916                | 9,282                | (D)                  | (D)                      | -                        |
| Payroll.....\$1,000..                               | 117,569               | 477                                | 1,498            | 1,592              | 5,626              | 14,395             | 40,207               | 53,774               | (D)                  | (D)                      | -                        |
| Value added, adjusted.....do....                    | 196,842               | 1,130                              | 3,174            | 2,965              | 10,514             | 25,592             | 62,449               | 91,018               | (D)                  | (D)                      | -                        |
| Value of shipments.....do....                       | 533,109               | 2,601                              | 8,180            | 7,943              | 25,832             | 70,201             | 194,658              | 223,694              | (D)                  | (D)                      | -                        |
| Capital expenditures, new...do....                  | 5,031                 | 34                                 | 58               | 69                 | 241                | 512                | 1,647                | 2,470                | (D)                  | (D)                      | -                        |
| <b>Subindustry 3111-22.—Converters</b>              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                         | 61                    | 24                                 | 15               | 11                 | 7                  | 3                  | 1                    | -                    | -                    | -                        | -                        |
| All employees:                                      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                    | 806                   | 50                                 | 90               | 139                | 202                | 325                | (D)                  | -                    | -                    | -                        | -                        |
| Payroll.....\$1,000..                               | 5,781                 | 452                                | 755              | 1,108              | 1,351              | 2,115              | (D)                  | -                    | -                    | -                        | -                        |
| Value added, adjusted.....do....                    | 17,212                | 3,738                              | 2,319            | 3,804              | 2,200              | 5,151              | (D)                  | -                    | -                    | -                        | -                        |
| Value of shipments.....do....                       | 127,744               | 26,334                             | 17,806           | 29,734             | 17,603             | 36,267             | (D)                  | -                    | -                    | -                        | -                        |
| Capital expenditures, new...do....                  | 164                   | 11                                 | 23               | 32                 | 34                 | 64                 | (D)                  | -                    | -                    | -                        | -                        |
| <b>Subindustry 3111-33.—Contract Tanneries</b>      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                         | 180                   | 32                                 | 19               | 35                 | 42                 | 33                 | 14                   | 4                    | 1                    | -                        | -                        |
| All employees:                                      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                    | 8,447                 | 56                                 | 127              | 514                | 1,342              | 4,418              | (D)                  | 1,990                | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                               | 39,957                | 349                                | 546              | 2,269              | 6,262              | 21,152             | (D)                  | 9,379                | (D)                  | -                        | -                        |
| Value added, adjusted.....do....                    | 59,038                | 547                                | 1,024            | 4,093              | 9,621              | 31,430             | (D)                  | 12,323               | (D)                  | -                        | -                        |
| Value of shipments.....do....                       | 97,555                | 800                                | 2,250            | 6,530              | 14,780             | 50,434             | (D)                  | 22,761               | (D)                  | -                        | -                        |
| Capital expenditures, new...do....                  | 1,285                 | 13                                 | 17               | 92                 | 280                | 479                | (D)                  | 404                  | (D)                  | -                        | -                        |
| <b>INDUSTRY 3121.—INDUSTRIAL LEATHER BELTING</b>    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                         | 83                    | 31                                 | 16               | 13                 | 14                 | 4                  | 2                    | 2                    | 1                    | -                        | -                        |
| All employees:                                      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                    | 2,870                 | 73                                 | 106              | 193                | 421                | 289                | 1,788                | (D)                  | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                               | 15,897                | 362                                | 520              | 1,044              | 2,371              | 1,434              | 10,166               | (D)                  | (D)                  | -                        | -                        |
| Value added, adjusted.....do....                    | 32,915                | 823                                | 939              | 1,665              | 3,605              | 2,228              | 23,655               | (D)                  | (D)                  | -                        | -                        |
| Value of shipments.....do....                       | 51,869                | 1,660                              | 1,935            | 3,483              | 8,105              | 3,690              | 32,996               | (D)                  | (D)                  | -                        | -                        |
| Capital expenditures, new...do....                  | 742                   | 25                                 | 15               | 21                 | 681                | (D)                | (D)                  | (D)                  | (D)                  | -                        | -                        |
| <b>INDUSTRY 3131.—FOOTWEAR CUT STOCK</b>            |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                         | 446                   | 105                                | 66               | 71                 | 112                | 57                 | 34                   | 1                    | -                    | -                        | -                        |
| All employees:                                      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                    | 14,339                | 192                                | 446              | 1,030              | 3,697              | 3,955              | 5,019                | (D)                  | -                    | -                        | -                        |
| Payroll.....\$1,000..                               | 53,420                | 608                                | 1,618            | 3,695              | 14,031             | 15,513             | 17,955               | (D)                  | -                    | -                        | -                        |
| Value added, adjusted.....do....                    | 90,611                | 1,319                              | 2,557            | 6,583              | 22,563             | 24,834             | 32,755               | (D)                  | -                    | -                        | -                        |
| Value of shipments.....do....                       | 229,253               | 3,511                              | 6,886            | 17,367             | 60,894             | 59,863             | 80,732               | (D)                  | -                    | -                        | -                        |
| Capital expenditures, new...do....                  | 1,620                 | 42                                 | 68               | 93                 | 388                | 395                | 634                  | (D)                  | -                    | -                        | -                        |

See footnotes at end of table.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963—Continued

| Item                                | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|-------------------------------------|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|                                     |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3141.—SHOES, EXCEPT RUBBER |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..         | 1,040                 | 125                                | 43               | 57                 | 110                | 104                | 247                  | 288                  | 62                   | 3                        | 1                        |
| All employees:                      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                   | 201,728               | 200                                | 301              | 807                | 3,514              | 7,975              | 41,678               | 101,685              | 38,456               | <u>7,112</u>             | (D)                      |
| Payroll.....\$1,000..               | 713,577               | 717                                | 932              | 2,779              | 11,461             | 27,569             | 144,430              | 352,065              | 141,247              | <u>32,377</u>            | (D)                      |
| Value added, adjusted.....do....    | 1,214,740             | 1,234                              | 1,416            | 4,920              | 17,448             | 44,221             | 225,691              | 635,816              | 230,294              | <u>53,700</u>            | (D)                      |
| Value of shipments.....do....       | 2,249,167             | 2,826                              | 2,622            | 9,993              | 38,264             | 85,010             | 422,292              | 1,154,730            | 445,585              | <u>87,845</u>            | (D)                      |
| Capital expenditures, new...do....  | 18,470                | <u>1200</u>                        | 48               | 110                | 335                | 722                | 4,835                | 9,785                | 2,157                | <u>278</u>               | (D)                      |
| INDUSTRY 3142.—HOUSE SLIPPERS       |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..         | 153                   | 32                                 | 8                | 16                 | 30                 | 30                 | 27                   | 9                    | 1                    | -                        | -                        |
| All employees:                      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                   | 11,039                | 54                                 | 52               | 225                | 957                | 2,050              | 4,127                | <u>3,574</u>         | (D)                  | -                        | -                        |
| Payroll.....\$1,000..               | 39,782                | 217                                | 125              | 697                | 3,344              | 6,765              | 14,177               | <u>14,457</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....    | 64,555                | 449                                | 202              | 1,077              | 5,426              | 10,441             | 21,669               | <u>25,291</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....       | 123,560               | 1,452                              | 356              | 1,993              | 13,243             | 18,760             | 41,684               | <u>46,072</u>        | (D)                  | -                        | -                        |
| Capital expenditures, new...do....  | 1,100                 | 2                                  | (D)              | 12                 | <u>279</u>         | (D)                | 448                  | <u>322</u>           | (D)                  | -                        | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

<sup>1</sup>Includes capital expenditures for plants under construction but not in operation which constitute \$100-\$200 thousand of the total for the size class.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                 | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |  | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3111      | Leather tanning and finishing.....1963.. | 758,408            | 633,231          | 5,086              | 120,091                | 99                                   | 635,754                            | 633,231               | 2,523                    | 100                           |
|           | 1958..                                   | 743,124            | 631,488          | 2,484              | 109,152                | 100                                  | 634,227                            | 631,488               | 2,739                    | 100                           |
| 3121      | Industrial leather belting.....1963..    | 51,869             | 42,457           | 5,247              | 4,165                  | 89                                   | 50,563                             | 42,457                | 8,106                    | 84                            |
|           | 1958..                                   | 66,560             | 55,242           | 6,070              | 5,248                  | 90                                   | 60,111                             | 55,242                | 4,869                    | 92                            |
| 3131      | Footwear cut stock.....1963..            | 229,253            | 202,419          | 14,146             | 12,688                 | 93                                   | 215,988                            | 202,419               | 13,569                   | 94                            |
|           | 1958..                                   | 256,652            | 227,515          | 11,133             | 18,004                 | 95                                   | 239,043                            | 227,515               | 11,528                   | 95                            |
| 3141      | Shoes, except rubber.....1963..          | 2,249,167          | 2,173,992        | 26,187             | 48,988                 | 99                                   | 2,196,735                          | 2,173,992             | 22,743                   | 99                            |
|           | 1958 <sup>1</sup> .                      | 2,048,857          | 1,993,468        | 20,006             | 35,383                 | 99                                   | 2,013,126                          | 1,993,468             | 19,658                   | 99                            |
| 3142      | House slippers.....1963..                | 123,560            | 108,323          | 12,295             | 2,942                  | 90                                   | 127,581                            | 108,323               | 19,258                   | 85                            |
|           | 1958 <sup>1</sup> .                      | 112,145            | 98,781           | 11,293             | 2,071                  | 90                                   | 115,700                            | 98,781                | 16,919                   | 85                            |

Note: See Introduction for an explanation of terms used.

<sup>1</sup>Represents value of production rather than value of shipments (see text).

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c)

miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                              | Class of products and miscellaneous receipts             | All industries | Leather tanning and finishing (SIC 3111) | Other industries |
|---|--|----------------|--|------------------|
| <b>LEATHER TANNING AND FINISHING INDUSTRY</b> |  |                |  |                  |
|   | Total value of shipments.....                            | (X)            | 758,408                                  | (X)              |
|   | Primary products.....                                    | 635,754        | 633,231                                  | 2,523            |
| 31111   | Finished cattle hide and kip side leathers.....          | 397,401        | 395,686                                  | 1,715            |
| 31112   | Finished calf and whole kip leathers.....                | 51,921         | 51,921                                   | -                |
| 31113   | Finished sheep and lamb leathers.....                    | 69,661         | 69,661                                   | -                |
| 31114   | Other finished leathers.....                             | 69,421         | (D)                                      | (D)              |
| 31115   | Rough, russet, and crust leathers.....                   | 23,449         | (D)                                      | (D)              |
| 31110   | Leather finishing and tanning, n.s.k.....                | 23,901         | 23,901                                   | -                |
|   | Secondary products.....                                  | (X)            | 5,086                                    | (X)              |
|   | Miscellaneous receipts.....                              | (X)            | 120,091                                  | (X)              |
| 31119   | Contract receipts for tanning and finishing leather..... | (X)            | 99,067                                   | (X)              |
| 93000   | Other contract receipts.....                             | (X)            | 3,547                                    | (X)              |
|   | Resales.....   | (X)            | 9,095                                    | (X)              |
|   | Other miscellaneous receipts.....                        | (X)            | 8,382                                    | (X)              |
| <b>INDUSTRIAL LEATHER BELTING INDUSTRY</b>    |  |                |  |                  |
|   | Total value of shipments.....                            | (X)            | 51,869                                   | (X)              |
| 31210   | Industrial leather belting and packing.....              | 50,563         | 42,457                                   | 5,579            |
|   | Secondary products.....                                  | (X)            | 5,247                                    | (X)              |
| 30695   | Mechanical rubber goods, n.e.c.....                      | (X)            | 4,306                                    | (X)              |
|   | Other secondary products.....                            | (X)            | 941                                      | (X)              |
|   | Miscellaneous receipts.....                              | (X)            | 4,165                                    | (X)              |
|   | Resales.....   | (X)            | 3,783                                    | (X)              |
|   | Other miscellaneous receipts.....                        | (X)            | 382                                      | (X)              |
| <b>FOOTWEAR CUT STOCK INDUSTRY</b>            |  |                |  |                  |
|   | Total value of shipments.....                            | (X)            | 229,253                                  | (X)              |
| 31310   | Boot and shoe cut stock and findings.....                | 215,988        | 202,419                                  | 3,304            |
|   | Secondary products.....                                  | (X)            | 14,146                                   | (X)              |
| 3111-   | Leather, tanned and finished.....                        | (X)            | 1,311                                    | (X)              |
| 30696   | Rubber heels and soles.....                              | (X)            | 7,326                                    | (X)              |
| 30798   | Consumer and commercial plastic products, n.e.c.....     | (X)            | 713                                      | (X)              |
|   | Other secondary products.....                            | (X)            | 4,796                                    | (X)              |
|   | Miscellaneous receipts.....                              | (X)            | 12,688                                   | (X)              |
|   | Resales.....   | (X)            | 7,972                                    | (X)              |
|   | Contract and commission receipts.....                    | (X)            | 3,235                                    | (X)              |
|   | Other miscellaneous receipts.....                        | (X)            | 1,481                                    | (X)              |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code                 | Class of products and miscellaneous receipts   | All industries | Shoes, except rubber (SIC 3141) | House slippers industry (SIC 3142) | Other industries |
|----------------------------------|--|----------------|---------------------------------|------------------------------------|------------------|
| FOOTWEAR, EXCEPT RUBBER INDUSTRY |  |                |                                 |                                    |                  |
|                                  | Total value of shipments.....                  | (X)            | 2,249,167                       | (X)                                | (X)              |
|                                  | Footwear, except rubber, total.....            | 2,196,735      | 2,173,992                       | 7,489                              | 15,254           |
| 31411                            | Men's dress shoes, including play shoes.....   | 531,013        | 524,286                         | 3,533                              | 3,194            |
| 31412                            | Men's work shoes.....                          | 174,934        | 173,558                         | (D)                                | (D)              |
| 31413                            | Youth's and boy's shoes.....                   | 82,179         | 81,048                          | (D)                                | (D)              |
| 31414                            | Women's dress, work and play shoes.....        | 1,065,523      | 1,055,946                       | 2,523                              | 7,054            |
| 31415                            | Misses' and children's shoes.....              | 189,924        | 188,793                         | (D)                                | (D)              |
| 31416                            | Infants' and babies' shoes.....                | 73,065         | 72,950                          | (D)                                | (D)              |
| 31417                            | All other footwear.....                        | 54,432         | 51,828                          | (D)                                | (D)              |
| 31410                            | Shoes, except rubber, n.s.k.....               | 25,665         | 25,583                          | (D)                                | (D)              |
|                                  | Secondary products.....                        | (X)            | 26,187                          | (X)                                | (X)              |
| 31420                            | House slippers.....                            | (X)            | 16,853                          | (X)                                | (X)              |
|                                  | Other secondary products.....                  | (X)            | <sup>2</sup> 9,334              | (X)                                | (X)              |
|                                  | Miscellaneous receipts.....                    | (X)            | 48,988                          | (X)                                | (X)              |
|                                  | Resales.....                                   | (X)            | 29,722                          | (X)                                | (X)              |
|                                  | Other miscellaneous receipts.....              | (X)            | 19,266                          | (X)                                | (X)              |
|                                  |  | All industries | House slippers (SIC 3142)       | Shoes, except rubber (SIC 3141)    | Other industries |
| HOUSE SLIPPERS INDUSTRY          |  |                |                                 |                                    |                  |
|                                  | Total value of shipments.....                  | (X)            | 123,560                         | (X)                                | (X)              |
| 31420                            | House slippers.....                            | 127,581        | 108,323                         | 16,853                             | 2,405            |
|                                  | Secondary products, total.....                 | (X)            | 12,295                          | (X)                                | (X)              |
| 30210                            | Rubber footwear.....                           | (X)            | 3,893                           | (X)                                | (X)              |
| 31411                            | Men's dress shoes, including play shoes.....   | (X)            | 3,533                           | (X)                                | (X)              |
| 31414                            | Women's dress, work and play shoes.....        | (X)            | 2,523                           | (X)                                | (X)              |
|                                  | Other secondary products.....                  | (X)            | 2,346                           | (X)                                | (X)              |
|                                  | Miscellaneous receipts, including resales..... | (X)            | 2,942                           | (X)                                | (X)              |

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

(X) Not applicable.

<sup>1</sup>Includes the following product class which totals \$2 million or more but is withheld to avoid disclosing individual company figures: 3021, Rubber footwear.

<sup>2</sup>Includes the following product class which totals \$2 million or more but is withheld to avoid disclosing individual company figures: 39492, Other sporting and athletic goods.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                     |                     |                     |
|--------------|---|-----------------|--|---------------------|---------------------|---------------------|
|              |   |                 | 1963   |                     | 1958                |                     |
|              |   |                 | Quantity                                       | Value (\$1,000)     | Quantity            | Value (\$1,000)     |
| 3111- --     | TANNED, CURRIED, AND FINISHED LEATHER, TOTAL <sup>1</sup> .....                           | .....           | (X)  | 635,754             | (X)                 | 634,227             |
| 31111 --     | Finished cattle hide and kip side leathers, total.....                                    | .....           | (X)  | 397,401             | (X)                 | 411,344             |
|              | Grains, except offal and wetting leather (heads, shoulders, bellies, etc.):               |                 |  |                     |                     |                     |
|              | Sole leather:   |                 |  |                     |                     |                     |
| 31111 11     | Vegetable tanned (backs, bends, and sides).....   | 1,000 lbs.....  | 91,919   | 46,289              | 109,991             | 48,424              |
| 31111 13     | Chrome or retan (backs, bends, and sides).....  | 1,000 sq. ft..  | 12,702   | 6,223               | 17,010              | 6,509               |
| 31111 24     | Belting and mechanical leather.....   | 1,000 lbs.....  | 8,975  | 7,449               | 6,020               | 5,190               |
| 31111 33     | Bag, case, and strap leather (sides).....   | 1,000 sq. ft..  | 40,877   | 19,200              | 41,563              | 17,633              |
| 31111 35     | Upholstery leather - top grains and machine buffs (hides).....                            | .....do.....    | 38,812   | 18,586              | 35,097              | 14,957              |
| 31111 37     | Upper leather, excluding patent (sides).....  | .....do.....    | 509,419  | 216,283             | 551,488             | 205,465             |
| 31111 41     | Patent leather (sides).....   | .....do.....    | 28,511   | 18,299              | 51,359              | 23,822              |
| 31111 45     | Garment leather (sides).....  | .....do.....    | 9,407  | 3,652               | 20,011              | 6,478               |
| 31111 49     | Other grains, including flat and handbag leather, and lining leather (sides).....         | .....do.....    | 40,558   | 15,578              | (NA)                | <sup>2</sup> 12,309 |
|              | Offal (heads, shoulders, bellies, etc.) except splits and wetting leather:                |                 |  |                     |                     |                     |
|              | Sole leather:   |                 |  |                     |                     |                     |
| 31111 51     | Vegetable tanned.....   | 1,000 lbs.....  | 31,733   | 8,483               | 50,578              | 15,133              |
| 31111 53     | Chrome or retan.....  | 1,000 sq. ft..  | 21,750   | 5,197               | 3,204               | 1,108               |
| 31111 59     | Other offal, including waist belt leather.....  | .....do.....    | 8,165  | 3,587               | (NA)                | <sup>2</sup> 7,841  |
| 31111 60     | Wetting leather grains and offal.....   | 1,000 lbs.....  | 3,964  | 1,071               | 4,203               | 1,320               |
|              | Finished splits, including shoulder splits, deep buffs, buffing and fleshers:             |                 |  |                     |                     |                     |
|              | Bottom stock.....   | 1,000 sq. ft..  | 4,219  | 987                 | 22,315              | 4,997               |
| 31111 61     | Upper.....  | .....do.....    | 32,522   | 6,704               | 49,933              | 12,790              |
| 31111 65     | Lining.....   | .....do.....    | 67,824   | 11,240              | 76,105              | 15,048              |
| 31111 69     | Other including glove and upholstery.....   | .....do.....    | 43,028   | 6,490               | <sup>2</sup> 41,432 | <sup>2</sup> 8,921  |
| 31111 00     | Finished cattle hide and kip side leathers, n.s.k.....                                    | .....           | (X)  | 2,083               | (X)                 | 3,399               |
| 31112 00     | Finished all calf and whole kip leathers.....   | 1,000 sq. ft..  | 69,888   | 51,921              | 83,612              | 62,643              |
| 31113 --     | Finished sheep and lamb leather, total.....   | .....do.....    | 234,218  | 69,661              | 228,263             | 56,726              |
| 31113 12     | Shoe.....   | .....do.....    | 76,361   | 19,225              | 56,915              | 13,747              |
| 31113 31     | Garment.....  | .....do.....    | 113,282  | 35,484              | 87,242              | 22,226              |
| 31113 39     | Other, including glove, fleshers, and skivers.....  | .....do.....    | 41,636   | 14,078              | <sup>2</sup> 70,462 | <sup>2</sup> 15,044 |
| 31113 51     | Shearlings.....   | .....do.....    | 2,936  | 874                 | 13,644              | 5,709               |
| 31113 00     | Finished sheep and lamb leather, n.s.k.....   | .....do.....    | (X)  | 2,083               | (X)                 | (X)                 |
| 31114 --     | Other finished leathers, n.e.c., total.....   | .....do.....    | 130,302  | 69,421              | 150,465             | 69,156              |
|              | Goat and kid leathers:  |                 |  |                     |                     |                     |
| 31114 11     | Upper.....  | .....do.....    | 68,362   | 38,506              | 69,941              | 35,119              |
| 31114 19     | Lining and other.....   | .....do.....    | 10,358   | 4,300               | <sup>2</sup> 23,537 | <sup>2</sup> 8,320  |
| 31114 20     | All cabretta leathers.....  | .....do.....    | 6,681  | 3,057               | 12,409              | 5,365               |
| 31114 35     | Horse, colt, mule, ass, and pony leathers.....  | .....do.....    | 8,454  | 6,265               | <sup>2</sup> 18,160 | <sup>2</sup> 9,607  |
| 31114 59     | Other animal leathers.....  | .....do.....    | 33,184   | 15,555              | <sup>2</sup> 24,162 | <sup>2</sup> 9,708  |
| 31114 00     | Other finished leathers, n.e.c, n.s.k.....  | .....do.....    | <sup>3</sup> 3,263                             | 1,738               | 2,256               | 1,037               |
| 31115 --     | Rough, russet and crust leather (not finished in the reporting establishment), total..... | .....           | (X)  | 23,449              | (X)                 | 26,726              |
| 31115 20     | Grains and offal (heads, shoulders, bellies, etc.).....                                   | .....           | (X)  | 10,726              | (X)                 | <sup>2</sup> 11,454 |
| 31115 51     | Splits, including shoulder splits, deep buffs, buffing, and fleshers.....                 | .....           | (X)  | 12,723              | (X)                 | 15,272              |
| 31110 00     | All other finished and rough leathers, n.s.k.....   | .....           | (X)  | 23,901              | (X)                 | 7,632               |
| 31119 11     | Receipts for contract finishing and tanning done for others on their materials.....       | .....           | (NA)   | <sup>4</sup> 99,067 | (X)                 | <sup>4</sup> 83,855 |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Value of shipments including interplant transfers (\$1,000) |        |
|--------------|---|---|--------|
|              |   | 1963  | 1958   |
| 3121- --     | INDUSTRIAL LEATHER BELTING AND PACKING, TOTAL.....  | 50,563  | 60,111 |
| 31210 13     | Industrial leather belting.....   | 8,521   | 9,711  |
|              | Leather packings, oil and grease retainers.....   | 33,752  | 41,565 |
| 31210 61     | Leather packings.....   | 7,620   | 8,022  |
| 31210 71     | Leather oil and grease retainers, including seals.....  | 26,132  | 33,543 |
| 31210 98     | Other industrial leather products made wholly or partly of leather, including textile leathers but excluding gaskets and washers..... | 8,290   | 8,835  |

| Product code | Product   | Unit of measure | 1963   |                 |   |                 | 1958   |                 |   |                 |
|--------------|---|-----------------|--|-----------------|---|-----------------|--|-----------------|---|-----------------|
|              |   |                 | Total shipments including interplant transfers |                 | Transfers to other plants of the same company |                 | Total shipments including interplant transfers |                 | Transfers to other plants of the same company |                 |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity                                      | Value (\$1,000) | Quantity                                       | Value (\$1,000) | Quantity                                      | Value (\$1,000) |
| 3131- --     | BOOT AND SHOE CUT STOCK AND FINDINGS, TOTAL <sup>6</sup> .....        |                 | (X) 215,988                                    | (X)             | 35,368  | (X)             | 239,043  | (X)             | (NA)  |                 |
|              | Boot and shoe cut stock:  |                 |  |                 |   |                 |  |                 |   |                 |
|              | Outer soles:  |                 |  |                 |   |                 |  |                 |   |                 |
| 31310 11     | Leather.....  | 1,000 doz. prs. | 6,636  | 35,053          | 1,745   | 11,730          | 9,484  | 44,797          | 3,099   | 18,650          |
| 31310 15     | Other, except rubber, elastomer resin, and plastic <sup>6</sup> ..... | do.             |  |                 |   |                 |  |                 |   |                 |
|              | Innersoles:   |                 |  |                 |   |                 |  |                 |   |                 |
| 31310 17     | Leather.....  | do.             | 2,873  | 9,358           | 4,542   | 7,087           | 5,531  | 15,296          | 2,441   | 7,615           |
| 31310 18     | Other <sup>6</sup> .....  | do.             | 16,879   | 14,324          |   |                 |  |                 |   |                 |
|              | Heels:  |                 |  |                 |   |                 |  |                 |   |                 |
| 31310 21     | Leather.....  | do.             | 8,605  | 12,622          | 1,319   | 2,083           | 4,383  | 6,657           | 622   | 887             |
| 31310 23     | Other, except rubber, elastomer resin, and plastic <sup>6</sup> ..... | do.             | 5,000  | 7,049           |   |                 |  |                 |   |                 |
| 31310 29     | Counters.....   | do.             | 28,176   | 14,065          | 6,620   | 1,940           | 23,795   | 71,763          | 83,988  | 81,590          |
| 31310 41     | Box toes.....   | do.             | 27,674   | 8,006           |   |                 |  |                 |   |                 |
| 31310 45     | Taps.....   | do.             | 771  | 3,265           |   |                 |  |                 |   |                 |
|              | Other cut stock:  |                 |  |                 |   |                 |  |                 |   |                 |
| 31310 48     | Leather.....  |                 | (X)  | 5,055           | (X)   | 440             | (X)  | 6,129           | (X)   | 623             |
| 31310 49     | Other <sup>6</sup> .....  |                 | (X)  | 10,845          | (X)   | 171             | (X)  | 914,111         | (NA)  | (NA)            |
|              | Findings, boot and shoe:  |                 |  |                 |   |                 |  |                 |   |                 |
| 31310 63     | Wood heel blocks, made for sale as such.....                          | 1,000 doz. prs. | 2,018  | 3,917           | 2,415   | 7,723           | 4,828  | 9,998           | (D)   | (D)             |
|              | Finished wood heels:  |                 |  |                 |   |                 |  |                 |   |                 |
| 31310 65     | Manufactured complete in your plant.....                              | do.             | 3,147  | 9,629           |   |                 | 2,072  | 7,763           | (D)   | (D)             |
| 31310 66     | Finished from purchased blocks.....                                   | do.             | 3,486  | 14,024          |   |                 | 3,821  | 15,824          | 1,296   | 5,275           |
| 31310 67     | Shanks.....   | do.             | 22,962   | 6,441           | 140,676                                       | 19,515          | 5,922  | (D)             | (D)   | (D)             |
| 31310 68     | Welting (equivalent 1/2-inch wide).....                               | 1,000 lin. yds. | 109,222  | 9,623           |   |                 |  |                 |   |                 |
| 31310 69     | Other findings.....   |                 | (X)  | 38,539          | (X)   | 2,405           | (X)  | 1036,247        | (X)   | 1,479 (NA)      |
| 31310 00     | Footwear cut stock, n.s.k.....  |                 | (X)  | 14,173          | (X)   | (X)             | (X)  | 24,176          | (X)   | (X)             |

| Product code | Product   | Total shipments including interplant transfers |                 |                        |                 |
|--------------|---|--|-----------------|------------------------|-----------------|
|              |   | 1963   |                 | 1958                   |                 |
|              |   | Quantity (1,000 pairs)                         | Value (\$1,000) | Quantity (1,000 pairs) | Value (\$1,000) |
| 3141- --     | SHOES, EXCEPT RUBBER, TOTAL.....  | 524,170  | 2,196,735       | 524,276                | 112,013,126     |
| 31411 01     | Men's dress shoes, including play shoes.....  | 83,798   | 531,013         | 77,616                 | 11472,469       |
| 31412 10     | Men's work shoes.....   | 26,714   | 174,934         | 24,916                 | 1146,860        |
| 31413 07     | Youths' and boys' shoes.....  | 22,172   | 82,179          | 23,548                 | 1181,774        |
| 31414 10     | Women's dress, work, and play shoes.....  | 275,704  | 1,065,523       | 279,462                | 11996,402       |
| 31415 10     | Misses' and children's shoes.....   | 65,520   | 189,924         | 69,766                 | 11192,256       |
| 31416 01     | Infants' and babies' shoes.....   | 31,660   | 73,065          | 36,470                 | 1176,181        |
| 31417 10     | Other footwear (except rubber footwear, shoes with skates attached, or slippers)..... | 12,477   | 54,432          | 12,498                 | 1147,184        |
| 31410 00     | Footwear, n.s.k.....  | 36,125   | 25,665          | (X)                    | (X)             |
| 31420 61     | HOUSE SLIPPERS, TOTAL.....  | 79,785   | 127,581         | 70,865                 | 11115,700       |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Type of footwear                                | 1963, by type of construction (1,000 pairs) <sup>1,2</sup> |                                 |             |                            |                            |             |           |                |   |   |                            |
|---|--|---------------------------------|-------------|----------------------------|----------------------------|-------------|-----------|----------------|---|---|----------------------------|
|   | Total  | Cemented, excluding slip-lasted | Slip-lasted | Welt, including Silhouwelt | McKay, including Littleway | Stitch-down | Soft sole | Turn or turned | Vulcanized, including injection molded <sup>1,3</sup> | Other constructions (prewelt, nailed, etc.) | Construction not specified |
| SHOES AND SLIPPERS, EXCEPT RUBBER, TOTAL.....   | 604,328  | 349,820                         | 28,378      | 86,839                     | 25,306                     | 23,950      | 33,667    | 4,397          | 15,013  | 9,108                                       | 27,850                     |
| Shoes, sandals and playshoes, total.....        | 509,722  | (D)                             | 22,795      | 84,535                     | (D)                        | 21,366      | 5,887     | 1,025          | 15,013  | 7,326                                       | 17,290                     |
| Men's, total.....                               | 110,703  | (D)                             | 1,695       | 59,931                     | (D)                        | (D)         | (D)       | -              | (D)   | 1,533                                       | 4,230                      |
| Men's, other than work.....                     | 82,547   | 28,104                          | 1,695       | 38,757                     | 5,009                      | 4,238       | (D)       | -              | 1,227   | (D)   | 2,644                      |
| Men's work:                                     |  |                                 |             |                            |                            |             |           |                |   |   |                            |
| Less than 6" high.....                          | 11,061   | (D)                             | -           | 7,361                      | (D)                        | (D)         | -         | -              | (D)   | (D)   | 1,586                      |
| 6" high and over.....                           | 17,095   | (D)                             | -           | 13,813                     | 435                        | 843         | -         | -              | 1,449   | (D)   | -                          |
| Youths' and boys'.....                          | 24,043   | 8,536                           | -           | 5,499                      | (D)                        | 3,818       | -         | -              | 3,533   | (D)   | 1,855                      |
| Women's.....                                    | 275,186  | 224,145                         | 18,997      | 5,967                      | 13,611                     | (D)         | 1,325     | (D)            | 1,240   | 2,067                                       | 7,569                      |
| Misses'.....                                    | 35,539   | 23,234                          | 1,150       | 3,096                      | 1,049                      | 2,564       | (D)       | -              | 4,041   | (D)   | 45                         |
| Children's.....                                 | 30,739   | 15,079                          | 522         | 5,611                      | 128                        | 5,663       | (D)       | -              | 1,784   | (D)   | 1,434                      |
| Infants' and babies'.....                       | 33,512   | 13,322                          | 431         | 4,431                      | (D)                        | 3,873       | 4,140     | (D)            | (D)   | 3,021                                       | 2,157                      |
| Athletic shoes.....                             | 9,753  | (D)                             | -           | 470                        | 2,619                      | 535         | -         | -              | -   | (D)   | 5,658                      |
| Slippers for housewear, total.....              | 77,619   | 32,439                          | 5,583       | 816                        | (D)                        | 1,822       | 27,580    | 3,310          | -   | (D)   | 4,346                      |
| Men's, youths', and boys'.....                  | 15,614   | 7,374                           | 362         | 536                        | (D)                        | 1,362       | 3,977     | (D)            | -   | (D)   | 369                        |
| Women's.....                                    | 49,431   | 21,960                          | 4,408       | (D)                        | -                          | (D)         | 16,799    | 1,358          | -   | (D)   | 3,845                      |
| Misses', children's, infants', and babies'..... | 12,574   | 3,105                           | 813         | (D)                        | -                          | (D)         | 6,804     | (D)            | -   | 350   | 132                        |
| All other footwear.....                         | 7,234  | (D)                             | -           | 1,018                      | 1,077                      | (D)         | (D)       | (D)            | -   | 58  | 556                        |

| Product  | By type of construction (1,000 pairs) <sup>1,4</sup> |           | Product   | By type of construction (1,000 pairs) <sup>1,4</sup> |          |
|--|--|-----------|---|--|----------|
|  | 1963   | 1958      |   | 1963   | 1958     |
| SHOES AND SLIPPERS, EXCEPT RUBBER, TOTAL.....  | 604,328  | 595,141   | Misses' shoes, total.....   | 35,539   | 1638,631 |
| Men's shoes, other than work, total.....   | 82,547   | 77,616    | Welt, including Silhouwelt.....   | 3,096  | 5,641    |
| Welt, including Silhouwelt.....  | 38,757   | 58,321    | Cemented, excluding slip-lasted.....  | 23,234   | 16,384   |
| McKay, including Littleway.....  | 5,009  | 7,538     | Stitchdown.....   | 2,564  | 14,655   |
| Slip-lasted.....   | 1,695  | 328       | Other constructions, including construction n.s.k.....                            | 6,645  | 1,951    |
| Cemented, excluding slip-lasted.....   | 28,104   | 4,810     | Children's shoes, total.....  | 30,739   | 31,135   |
| Other constructions, including construction n.s.k.....   | 8,982  | 156,619   | Welt, including Silhouwelt.....   | 5,611  | 6,569    |
| Men's work shoes, less than 6" high, total.....  | 11,061   | 8,871     | Cemented, excluding slip-lasted.....  | 15,079   | 10,793   |
| Welt, including Silhouwelt.....  | 7,361  | 7,615     | Stitchdown.....   | 5,663  | 11,641   |
| McKay, including Littleway.....  | -  | 683       | Other constructions, including construction n.s.k.....                            | 4,386  | 2,132    |
| Other constructions, including construction n.s.k.....   | 3,700  | 573       | Infants' and babies' shoes, total.....  | 33,512   | 36,470   |
| Men's work shoes, 6" high and over, total.....   | 17,095   | 16,045    | Welt, including Silhouwelt.....   | 4,431  | 9,732    |
| Welt, including Silhouwelt.....  | 13,813   | 13,208    | Stitchdown.....   | 3,873  | 10,841   |
| McKay, including Littleway.....  | 435  | 1,116     | Other constructions, including construction n.s.k.....                            | 25,208   | 15,897   |
| Vulcanized, including injection molded... Other constructions, including construction n.s.k..... | 1,449  | 247       | Athletic shoes, total.....  | 9,753  | 175,929  |
|  | 1,398  | 1,474     | All other footwear, except slippers.....  | 7,234  | 176,569  |
| Youths' and boys' shoes, total.....  | 24,043   | 23,548    | Men's, youths', and boys' slippers, total... Cemented, excluding slip-lasted..... | 15,614   | 15,903   |
| Welt, including Silhouwelt.....  | 5,499  | 11,596    | Stitchdown.....   | 7,374  | 6,501    |
| Stitchdown.....  | 3,818  | 8,482     | Soft sole.....  | 1,362  | 2,625    |
| McKay, including Littleway.....  | -  | 2,040     | Turn or turned.....   | 3,977  | 4,135    |
| Other constructions, including construction n.s.k.....   | 14,726   | 1,430     | Other construction, including construction n.s.k.....                             | 2,901  | 824      |
| Women's shoes, total.....  | 275,186  | 16279,462 | Women's slippers, total.....  | 49,431   | 43,865   |
| Welt, including Silhouwelt.....  | 5,967  | 18,730    | Turn or turned.....   | 1,358  | 780      |
| McKay, including Littleway.....  | 13,611   | 20,459    | McKay, including Littleway.....   | -  | 1,269    |
| Slip-lasted.....   | 18,997   | 33,879    | Slip-lasted.....  | 4,408  | 5,807    |
| Cemented, excluding slip-lasted.....   | 224,145  | 187,410   | Cemented, excluding slip-lasted.....  | 21,960   | 12,596   |
| Other constructions, including construction n.s.k.....   | 12,466   | 18,984    | Soft sole.....  | 16,799   | 16,512   |
|  |  |           | Other constructions, including construction n.s.k.....                            | 4,906  | 6,901    |
|  |  |           | Misses', children's, infants', and babies' slippers, total.....                   | 12,574   | 1711,097 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.  
n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

Footnotes continued on next page.



Footnotes for table 6A-31A—Continued

- <sup>1</sup>Represents the quantity and value of shipments of products made by or for companies from their own materials. See text for more detailed explanation.
- <sup>2</sup>For this product, more detailed data were collected for 1958. This information is shown in the 1958 Census of Manufactures Volume.
- <sup>3</sup>Quantity estimated based on the quantity-value relationship reported for other products of the product class.
- <sup>4</sup>Contract receipts are not included in the total shown for tanned, curried, and finished leather. For 1963, contract receipts include all receipts for tanning and finishing done for others on their materials regardless of the industry classification of the establishments. For 1958, contract receipts include all receipts for contract work done for others on their materials by establishments classified in industry 3111, Leather Tanning and Finishing.
- <sup>5</sup>For 1958, product code 3121013 includes the following: Flat leather belting, \$5,136 thousand; Other leather belting, \$2,879 thousand; and Industrial leather belting, not specified by kind, \$1,696 thousand. Data for these products were not collected separately for 1963.
- <sup>6</sup>Figures exclude footwear and cut stock and findings made from rubber and elastomer resins and plastics which are not primary to industry 3131. Data on the shipments of rubber and elastomer resin footwear cut stock are included with the figures for industry 3069, Fabricated Rubber Products, n.e.c.; footwear cut stock and findings made from plastics are included with figures for industry 3079, Miscellaneous Plastic Products.
- <sup>7</sup>For 1958, includes 1,320 thousand dozen pairs of leather counters valued at \$1,791 thousand, and 22,475 thousand dozen pairs of other counters valued at \$9,972 thousand. Data for these products were not collected separately for 1963.
- <sup>8</sup>For 1958, includes 335 thousand dozen pairs of leather counters valued at \$488 thousand, and 3,653 thousand dozen pairs of counters of other materials valued at \$1,102 thousand. Data for these products were not collected separately for 1963.
- <sup>9</sup>For 1958, includes 859 thousand dozen pairs of midsoles valued at \$2,246 thousand; 6,549 thousand dozen pairs of heel lifts and top lifts valued at \$2,458 thousand; and upper (vamps, quarters, tips, and tongues, etc.) valued at \$3,305 thousand. Data for these products were not collected separately for 1963.
- <sup>10</sup>For 1958, includes 1,660 thousand dozen pairs of platforms, valued at \$2,017 thousand, for which data were not collected separately for 1963.
- <sup>11</sup>For 1958, represents value of production (see text).
- <sup>12</sup>The constructions shown in this table relate to the method of outersole attachment. In addition to those specified, companies were asked to report two additional categories: Moccasins with outersole attached, and moccasins having no line of demarcation between the sole and upper. An investigation showed that a substantial number of companies producing moccasins with outersole attached had included them with cemented, welt, etc., depending on the method of attachment of the outersole. It was also apparent that moccasins having no line of demarcation between the sole and upper were not completely reported. Figures reported for these two categories, therefore, have been included in the "construction not specified" column, by type of footwear.
- <sup>13</sup>Production data on footwear with sole vulcanized to fabric upper, including sneakers, are presented in the 1963 Census of Manufactures report on rubber footwear, SIC Code 3021.
- <sup>14</sup>The constructions listed are those for which separate data are available for 1958. More detailed information for 1963 for the "other constructions" category is shown above.
- <sup>15</sup>For 1958, includes 1,657 thousand pairs of men's play shoes for which separate data were not collected by type of construction.
- <sup>16</sup>For 1958, figures for misses' play shoes are included with those for women's shoes. For 1963, they are included with misses'.
- <sup>17</sup>Data by method of construction are not available for 1958.

TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year  | Indexes (1954 = 100) |            | Product code | Product and year   | Indexes (1954 = 100) |            |
|--------------|---|----------------------|------------|--------------|--|----------------------|------------|
|              |   | Production           | Unit value |              |  | Production           | Unit value |
| 3111         | Tanned, curried, and finished leather <sup>1</sup> .....1963..    | 90                   | 113        | 3141         | Shoes, except rubber <sup>2</sup> .....1963..                                      | 112                  | 111        |
|              | .....1958..   | 99                   | 103        |              | .....1958..  | 110                  | 103        |
| 31111        | Finished cattle hide and kip side leathers.....1963..             | 94                   | 110        | 31411        | Men's dress shoes, including play shoes.....1963..                                 | 112                  | 108        |
|              | .....1958..   | 106                  | 101        |              | .....1958..  | 104                  | 103        |
| 31112        | Finished all calf and whole kip leathers.....1963..               | 75                   | 108        | 31412        | Men's work shoes.....1963..  | 125                  | 127        |
|              | .....1958..   | 90                   | 109        |              | .....1958..  | 117                  | 114        |
| 31113        | Finished sheep and lamb leather....1963..                         | 98                   | 115        | 31413        | Youths' and boys' shoes.....1963..   | 111                  | 111        |
|              | .....1958..   | 95                   | 96         |              | .....1958..  | 121                  | 104        |
| 3114         | Other finished leathers, n.e.c.....1963..                         | 62                   | 130        | 31414        | Women's dress, work and play shoes.....1963..                                      | 110                  | 111        |
|              | .....1958..   | 72                   | 113        |              | .....1958..  | 112                  | 102        |
| 3131         | Boot and shoe cut stock and findings.....1963..                   | 79                   | 113        | 31415        | Misses' and childrens' shoes.....1963..  | 95                   | 104        |
|              | .....1958..   | 89                   | 111        |              | .....1958..  | 103                  | 99         |
| 314          | Shoes, except rubber, and house slippers <sup>2</sup> .....1963.. | 113                  | 110        | 31416        | Infants' and babies' shoes.....1963..  | 89                   | 115        |
|              | .....1958..   | 111                  | 102        |              | .....1958..  | 103                  | 104        |
| 314          | Shoes, except rubber, and house slippers <sup>2</sup> .....1963.. | 113                  | 110        | 31417        | Other footwear (except rubber, shoes with skates attached, or slippers).....1963.. | 145                  | 116        |
|              | .....1958..   | 111                  | 102        |              | .....1958..  | 158                  | 94         |
| 314          | Shoes, except rubber, and house slippers <sup>2</sup> .....1963.. | 113                  | 110        | 3142         | House slippers.....1963..  | 146                  | 94         |
|              | .....1958..   | 111                  | 102        |              | .....1958..  | 131                  | 95         |

n.e.c. Not elsewhere classified.

<sup>1</sup>Adjusted to include rough, russet and crush leather (product class 31115), also all other leathers not specified by kind.

<sup>2</sup>Adjusted to include footwear not specified by kind.

TABLE 6C. Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963

| Code  | Product class  | 1963      | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958                 | 1954      | 1947                 |
|-------|--|-----------|-------------------|-------------------|-------------------|-------------------|----------------------|-----------|----------------------|
| 3111- | Leather tanning and finishing.....\$1,000..                          | 635,754   | 656,253           | 650,233           | 682,499           | 765,911           | 634,227              | 618,177   | 1,004,970            |
| 31111 | Finished cattle hide and kip side leathers.....do....                | 397,401   | 449,748           | 440,874           | 450,989           | 497,676           | 411,344              | 383,080   | 646,105              |
| 31112 | Finished calf and whole kip leathers:                                |           |                   |                   |                   |                   |                      |           |                      |
|       | Quantity.....1,000 sq. ft..  | 69,888    | (NA)              | (NA)              | (NA)              | (NA)              | 83,612               | 92,604    | 127,238              |
|       | Value.....\$1,000..  | 51,921    | 56,600            | 60,845            | 56,515            | 63,421            | 62,643               | 63,599    | 107,747              |
| 31113 | Finished sheep and lamb leathers:                                    |           |                   |                   |                   |                   |                      |           |                      |
|       | Quantity.....1,000 sq. ft..  | 234,218   | (NA)              | (NA)              | (NA)              | (NA)              | 228,263              | 236,448   | 314,787              |
|       | Value.....\$1,000..  | 69,661    | 59,017            | 58,533            | (S)               | (S)               | 56,726               | 62,156    | 91,674               |
| 31114 | Other finished leathers:   |           |                   |                   |                   |                   |                      |           |                      |
|       | Quantity.....1,000 sq. ft..  | 130,302   | (NA)              | (NA)              | (NA)              | (NA)              | 150,465              | (NA)      | (NA)                 |
|       | Value.....\$1,000..  | 69,421    | 59,069            | 60,647            | (S)               | (S)               | 69,156               | 85,408    | 146,920              |
| 31115 | Rough, russet, and crust leathers....do....                          | 23,449    | (S)               | (S)               | (S)               | (S)               | 26,726               | 23,934    | 12,524               |
| 31110 | Leather finishing and tanning,n.s.k.do....                           | 23,901    | (S)               | (S)               | (S)               | (S)               | 7,632                | -         | -                    |
| 31119 | Receipts for contract finishing and tanning <sup>2</sup> .....do.... | 99,067    | (NA)              | (NA)              | (NA)              | (NA)              | 83,855               | 70,282    | 53,613               |
| 31210 | Industrial leather belting and packing.....do....                    | 50,563    | 78,400            | 67,756            | 74,507            | 83,583            | 60,111               | (NA)      | (NA)                 |
| 31310 | Footwear cut stock and findings.....do....                           | 215,988   | 256,736           | 264,827           | 263,402           | 275,462           | 239,043              | (NA)      | (NA)                 |
| 3141- | Footwear, except rubber:   |           |                   |                   |                   |                   |                      |           |                      |
|       | Quantity.....1,000 pairs..   | 524,170   | (X)               | (X)               | (X)               | (X)               | <sup>3</sup> 524,276 | 473,355   | 437,928              |
|       | Value.....\$1,000..  | 2,196,735 | 2,195,987         | 2,104,976         | 2,097,259         | 2,229,269         | 2,013,126            | 1,779,134 | 1,712,761            |
| 31411 | Men's dress shoes, including play shoes:                             |           |                   |                   |                   |                   |                      |           |                      |
|       | Quantity.....1,000 pairs..   | 83,798    | (X)               | (X)               | (X)               | (X)               | <sup>3</sup> 77,616  | 72,972    | <sup>4</sup> 85,015  |
|       | Value.....\$1,000..  | 531,013   | 507,110           | 473,877           | 462,110           | 533,322           | 472,469              | 438,608   | 466,972              |
| 31412 | Men's work shoes:  |           |                   |                   |                   |                   |                      |           |                      |
|       | Quantity.....1,000 pairs..   | 26,714    | (X)               | (X)               | (X)               | (X)               | <sup>3</sup> 24,916  | 21,257    | <sup>4</sup> 21,786  |
|       | Value.....\$1,000..  | 174,934   | 191,462           | 170,701           | 156,743           | 174,939           | 146,860              | 109,993   | 97,523               |
| 31413 | Youth's and boy's shoes:   |           |                   |                   |                   |                   |                      |           |                      |
|       | Quantity.....1,000 pairs..   | 22,172    | (X)               | (X)               | (X)               | (X)               | <sup>3</sup> 23,548  | 19,563    | <sup>4</sup> 19,822  |
|       | Value.....\$1,000..  | 82,179    | 96,468            | 90,150            | 88,397            | 94,869            | 81,774               | 65,088    | 55,938               |
| 31414 | Women's dress, work, and play shoes:                                 |           |                   |                   |                   |                   |                      |           |                      |
|       | Quantity.....1,000 pairs..   | 275,704   | (X)               | (X)               | (X)               | (X)               | <sup>3</sup> 279,462 | 246,803   | <sup>4</sup> 183,811 |
|       | Value.....\$1,000..  | 1,065,523 | 1,101,000         | 1,059,536         | 1,070,366         | 1,088,229         | 996,402              | 874,280   | 784,490              |
| 31415 | Misses' and children's shoes:  |           |                   |                   |                   |                   |                      |           |                      |
|       | Quantity.....1,000 pairs..   | 65,520    | (X)               | (X)               | (X)               | (X)               | <sup>3</sup> 69,766  | 68,304    | <sup>4</sup> 53,083  |
|       | Value.....\$1,000..  | 189,924   | 178,861           | 179,870           | 185,910           | 198,887           | 192,256              | 188,276   | 139,811              |
| 31416 | Infants' and babies' shoes:  |           |                   |                   |                   |                   |                      |           |                      |
|       | Quantity.....1,000 pairs..   | 31,660    | (X)               | (X)               | (X)               | (X)               | <sup>3</sup> 36,470  | 36,394    | <sup>4</sup> 35,038  |
|       | Value.....\$1,000..  | 73,065    | 60,589            | 72,016            | 78,675            | 83,408            | 76,181               | 71,035    | 57,176               |
| 31417 | All other footwear:  |           |                   |                   |                   |                   |                      |           |                      |
|       | Quantity.....1,000 pairs..   | 12,477    | (X)               | (X)               | (X)               | (X)               | <sup>3</sup> 12,498  | 8,062     | <sup>4</sup> 7,594   |
|       | Value.....\$1,000..  | 54,432    | 60,497            | 58,826            | 55,328            | 55,615            | 47,184               | 31,854    | 32,878               |
| 31410 | Footwear, n.s.k.:  |           |                   |                   |                   |                   |                      |           |                      |
|       | Quantity.....1,000 pairs..   | 56,125    | (X)               | (X)               | (X)               | (X)               | (X)                  | (X)       | (X)                  |
|       | Value.....\$1,000..  | 25,665    | (X)               | (X)               | (X)               | (X)               | (X)                  | (X)       | (X)                  |
| 31420 | Housslippers:  |           |                   |                   |                   |                   |                      |           |                      |
|       | Quantity.....1,000 pairs..   | 79,785    | (X)               | (X)               | (X)               | (X)               | <sup>3</sup> 70,865  | 56,000    | 43,426               |
|       | Value.....\$1,000..  | 127,581   | 131,527           | 126,928           | 115,922           | 129,679           | 115,700              | 92,241    | 75,390               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>2</sup>Contract receipts are not included in the total shown for Leather tanning and finishing. For 1963, contract receipts include all receipts for tanning and finishing done for others on their materials regardless of the industry classification of the establishments. Prior to 1963, contract receipts include all receipts for contract work done for others on their materials by establishments classified in industry 3111, Leather Tanning and Finishing.

<sup>3</sup>1958 represents value of production rather than value of shipments (see text).

<sup>4</sup>The figures shown for 1947 are not completely comparable due to differences in reporting by manufacturers of sandal-type shoes. The 1947 data for play shoes, which are not included in the product class detail, are as follows: Men's, youths', and boys', 740 thousand pairs, \$2,429 thousand; Women's and misses', 29,510 thousand pairs, \$73,294 thousand; Children's, 773 thousand pairs, \$1,236 thousand; Infants' and babies', 756 thousand pairs, \$1,014 thousand.

<sup>5</sup>Quantity estimated using the average unit value reported by other shoe producing companies reporting both quantity and value of shipments.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area                  | Value of shipments   |                      | Product class and geographic area           | Value of shipments 1963 <sup>1</sup> | Value of production 1958 | Product class and geographic area                      | Value of shipments 1963 <sup>1</sup> | Value of production 1958 |
|--|----------------------|----------------------|---|--------------------------------------|--------------------------|--|--------------------------------------|--------------------------|
|  | 1963 <sup>1</sup>    | 1958                 |   |                                      |                          |  |                                      |                          |
| FINISHED CATTLE HIDE AND KIP SIDE LEATHERS (31111) |                      |                      | MEN'S WORK SHOES (31412)                    |                                      |                          | MISSES' AND CHILDREN'S SHOES (31415)                   |                                      |                          |
| U.S. total.....                                    | 397,401              | 411,344              | U.S. total.....                             | <sup>3</sup> 174,934                 | <sup>3</sup> 146,860     | U.S. total.....  | <sup>3</sup> 189,924                 | <sup>3</sup> 192,256     |
| New England.....                                   | 95,626               | 121,244              | New England.....                            | 39,916                               | 39,577                   | New England.....                                       | 36,560                               | 37,279                   |
| New Hampshire.....                                 | 9,355                | 12,096               | Maine.....                                  | 16,047                               | 12,275                   | Maine.....   | 5,429                                | 6,098                    |
| Massachusetts.....                                 | 69,118               | 97,868               | New Hampshire.....                          | 9,070                                | 3,421                    | New Hampshire.....                                     | 6,966                                | 11,066                   |
| Middle Atlantic.....                               | 84,441               | 103,974              | Massachusetts.....                          | 14,799                               | 23,881                   | Massachusetts.....                                     | 20,682                               | 16,820                   |
| New York.....                                      | 32,357               | 44,773               | Middle Atlantic.....                        | 19,313                               | 22,509                   | Connecticut.....                                       | 3,483                                | 3,295                    |
| New Jersey.....                                    | 23,435               | 25,180               | East North Central.....                     | 23,188                               | 23,219                   | Middle Atlantic.....                                   | 55,749                               | 68,936                   |
| Pennsylvania.....                                  | 28,649               | 34,021               | Wisconsin.....                              | 17,569                               | 14,783                   | Pennsylvania.....                                      | 41,661                               | 45,759                   |
| East North Central.....                            | 131,053              | 119,583              | West North Central.....                     | 33,982                               | ( <sup>2</sup> )         | East North Central.....                                | 16,672                               | 19,050                   |
| Illinois.....                                      | 36,539               | 34,226               | South.....                                  | 55,748                               | ( <sup>2</sup> )         | Wisconsin.....   | 11,379                               | 11,416                   |
| Michigan.....                                      | 15,187               | 13,784               | Tennessee.....                              | 21,304                               | ( <sup>2</sup> )         | West North Central.....                                | 27,373                               | 23,218                   |
| Wisconsin.....                                     | 76,179               | 59,543               | Pacific.....                                | 2,787                                | 2,519                    | South and West.....                                    | 53,570                               | ( <sup>2</sup> )         |
| West North Central.....                            | 12,250               | 9,241                | YOUTH'S AND BOYS' SHOES (31413)             |                                      |                          | Maryland.....  | 2,325                                | ( <sup>2</sup> )         |
| South.....   | 63,279               | ( <sup>2</sup> )     | U.S. total.....                             | <sup>3</sup> 82,179                  | <sup>3</sup> 81,774      | Virginia.....  | 2,472                                | 2,611                    |
| West Virginia.....                                 | 10,984               | 9,843                | New England.....                            | 14,866                               | 15,970                   | Tennessee.....   | 24,404                               | 16,313                   |
| Tennessee.....                                     | 27,291               | ( <sup>2</sup> )     | Maine.....                                  | 3,494                                | 1,833                    | Arkansas.....  | 18,105                               | 14,460                   |
| West.....  | 10,752               | ( <sup>2</sup> )     | Massachusetts.....                          | 9,808                                | 11,299                   | Texas.....   | 1,267                                | ( <sup>2</sup> )         |
| FINISHED SHEEP AND LAMB LEATHERS (31113)           |                      |                      | Middle Atlantic.....                        | 18,456                               | 24,474                   | INFANTS' AND BABIES' SHOES (31416)                     |                                      |                          |
| U.S. total.....                                    | 69,661               | 56,726               | Pennsylvania.....                           | 12,782                               | 13,586                   | U.S. total.....  | 73,065                               | 76,187                   |
| New England.....                                   | 47,163               | 34,707               | North Central.....                          | 25,431                               | ( <sup>2</sup> )         | New England.....                                       | 13,074                               | 15,847                   |
| Middle Atlantic.....                               | 15,367               | 16,831               | Wisconsin.....                              | 2,481                                | 2,980                    | Massachusetts.....                                     | 10,901                               | 12,056                   |
| North Central, South, and West.....                | 7,131                | ( <sup>2</sup> )     | South and West.....                         | 23,426                               | ( <sup>2</sup> )         | Middle Atlantic.....                                   | 19,074                               | 21,047                   |
| OTHER FINISHED LEATHERS, N.E.C. (31114)            |                      |                      | Maryland.....                               | 2,374                                | ( <sup>2</sup> )         | Pennsylvania.....                                      | 13,039                               | 13,884                   |
| U.S. total.....                                    | 69,421               | 69,156               | Georgia.....                                | 3,628                                | 5,594                    | East North Central.....                                | 15,176                               | 18,580                   |
| New England.....                                   | 17,721               | 12,863               | Tennessee.....                              | 10,265                               | ( <sup>2</sup> )         | Illinois.....  | 10,328                               | 12,715                   |
| Middle Atlantic.....                               | 25,050               | 31,025               | Arkansas.....                               | 1,332                                | ( <sup>2</sup> )         | West North Central.....                                | 10,760                               | 9,865                    |
| New York.....                                      | 9,851                | 11,700               | WOMEN'S DRESS, WORK, AND PLAY SHOES (31414) |                                      |                          | Missouri.....  | 10,760                               | ( <sup>2</sup> )         |
| North Central.....                                 | 10,828               | ( <sup>2</sup> )     | U.S. total.....                             | <sup>2</sup> 1,065,523               | <sup>3</sup> 996,402     | South and West.....                                    | 14,981                               | ( <sup>2</sup> )         |
| South and West.....                                | 15,822               | ( <sup>2</sup> )     | New England.....                            | 396,386                              | 378,157                  | Tennessee.....   | 5,714                                | ( <sup>2</sup> )         |
| MEN'S DRESS SHOES, INCLUDING PLAY SHOES (31411)    |                      |                      | Maine.....                                  | 123,911                              | 111,035                  | Arkansas.....  | 5,971                                | ( <sup>2</sup> )         |
| U.S. total.....                                    | <sup>3</sup> 531,013 | <sup>3</sup> 472,469 | New Hampshire.....                          | 111,301                              | 89,398                   | ALL OTHER FOOTWEAR, EXCEPT RUBBER AND SLIPPERS (31417) |                                      |                          |
| New England.....                                   | 185,770              | 185,721              | Massachusetts.....                          | 156,347                              | 172,281                  | U.S. total.....  | <sup>3</sup> 54,432                  | <sup>3</sup> 47,184      |
| Maine.....   | 48,867               | 33,625               | Connecticut.....                            | 4,827                                | ( <sup>2</sup> )         | New England.....                                       | 23,720                               | 20,056                   |
| Massachusetts.....                                 | 97,444               | 107,407              | Middle Atlantic.....                        | 195,191                              | 186,795                  | Maine.....   | 10,497                               | ( <sup>2</sup> )         |
| Middle Atlantic.....                               | 60,215               | 57,800               | New York.....                               | 75,871                               | 91,998                   | Massachusetts.....                                     | 9,236                                | 16,334                   |
| Pennsylvania.....                                  | 29,702               | ( <sup>2</sup> )     | New Jersey.....                             | 5,900                                | 5,477                    | Middle Atlantic.....                                   | 11,754                               | 12,994                   |
| East North Central.....                            | 150,944              | 115,966              | Pennsylvania.....                           | 113,420                              | 89,320                   | Pennsylvania.....                                      | 7,132                                | ( <sup>2</sup> )         |
| Wisconsin.....                                     | 60,934               | 57,338               | East North Central.....                     | 161,350                              | 149,818                  | East North Central.....                                | 4,595                                | 8,089                    |
| South Atlantic.....                                | 23,955               | 15,156               | Ohio.....                                   | 68,729                               | 70,055                   | West North Central.....                                | 2,658                                | 1,629                    |
| Maryland.....                                      | 2,951                | 2,363                | Illinois.....                               | 56,612                               | 58,412                   | Minnesota.....   | 1,432                                | ( <sup>2</sup> )         |
| East South Central.....                            | 68,758               | ( <sup>2</sup> )     | West North Central.....                     | 148,330                              | 157,573                  | South.....   | 10,171                               | ( <sup>2</sup> )         |
| All other divisions.....                           | 41,371               | ( <sup>2</sup> )     | Missouri.....                               | 145,955                              | 155,245                  | Texas.....   | 7,326                                | ( <sup>2</sup> )         |
|  |                      |                      | South Atlantic.....                         | 30,846                               | 24,785                   | West.....  | 1,534                                | ( <sup>2</sup> )         |
|  |                      |                      | Maryland.....                               | 6,318                                | 7,619                    |  |                                      |                          |
|  |                      |                      | East North Central.....                     | 80,735                               | 52,257                   |  |                                      |                          |
|  |                      |                      | Mississippi.....                            | 24,849                               | ( <sup>2</sup> )         |  |                                      |                          |
|  |                      |                      | West South Central.....                     | 28,320                               | 23,357                   |  |                                      |                          |
|  |                      |                      | Arkansas.....                               | 23,558                               | 15,730                   |  |                                      |                          |
|  |                      |                      | Texas.....                                  | 4,762                                | 7,627                    |  |                                      |                          |
|  |                      |                      | West.....                                   | 24,365                               | ( <sup>2</sup> )         |  |                                      |                          |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported. n.e.c. Not elsewhere classified.

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed, but the exact figures are withheld to avoid disclosure of individual company figures: 31111, Maine, Vermont, Ohio, Indiana, Minnesota, Missouri, Maryland, Virginia, North Carolina, Georgia, Kentucky, and California; 31113, New Hampshire, Massachusetts, New York, Wisconsin, North Carolina, and Tennessee; 31114, Massachusetts, Connecticut, New Jersey, Pennsylvania, Illinois, Michigan, and Delaware; 31411, New Hampshire, Connecticut, New York, New Jersey, Indiana, Illinois, Michigan, Minnesota, Missouri, Virginia, West Virginia, North Carolina, Georgia, Kentucky, Tennessee, Arkansas, and Texas; 31412, New York, Pennsylvania, Michigan, Minnesota, Missouri, Maryland, North Carolina, Georgia, Alabama, Arkansas, and California; 31413, New York, Ohio, Michigan, Missouri, Virginia, North Carolina, and Kentucky; 31414, Indiana, Michigan, Wisconsin, Minnesota, Virginia, Georgia, Florida, Kentucky, and Tennessee; 31415, New York, Indiana, Illinois, Michigan, Missouri, Georgia, and Mississippi; 31416, New York, Wisconsin, and Kentucky; 31417, New Hampshire, New York, Illinois, and Wisconsin.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>See text regarding comparability of 1963 and 1958 data.

TABLE 7A. Materials by Kind: 1963 and 1958

| Code   | Material  | Delivered cost (\$1,000)                     |      |
|--------|---|--|------|
|        |   | 1963   | 1958 |
|        |   | INDUSTRY 3111.—LEATHER TANNING AND FINISHING |      |
|        | Materials, parts, supplies, total.....                              | 397,655                                      | (NA) |
| 201191 | Hides, skins, and pelts.....  | 274,282                                      | (NA) |
| 280021 | Tanning materials, dressings, dyes, and other finishing agents..... | 87,440                                       | (NA) |
| 970099 | All other materials, containers, and supplies.....                  | 19,055                                       | (NA) |
| 976000 | Materials, parts, supplies, n.s.k. <sup>1</sup> .....               | 16,878                                       | (NA) |

| Code   | Material  | Unit of measure  | 1963                                      |                          | 1958     |                          |
|--------|---|------------------|---|--------------------------|----------|--------------------------|
|        |   |                  | Quantity                                  | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
|        |   |                  | INDUSTRY 3121.—INDUSTRIAL LEATHER BELTING |                          |          |                          |
|        | Materials, parts, supplies, total.....                            |                  | (X)                                       | 15,591                   | (X)      | 26,211                   |
| 311108 | Finished leather.....   | 1,000 lbs.....   | 5,226                                     | 5,921                    | 9,675    | 11,966                   |
| 970099 | All other materials, parts, and supplies.....                     |                  | (X)                                       | 7,661                    | (X)      | 11,666                   |
| 976000 | Materials, parts, supplies, n.s.k. <sup>1</sup> .....             |                  | (X)                                       | 2,009                    | (X)      | 2,579                    |
|        |   |                  | INDUSTRY 3131.—FOOTWEAR CUT STOCK         |                          |          |                          |
|        | Materials, parts, supplies, total.....                            |                  | (X)                                       | 129,045                  | (X)      | 143,409                  |
|        | Finished leather:   |                  |   |                          |          |                          |
| 311102 | Upper leather.....  | 1,000 sq. ft.... | 9,488                                     | 3,158                    | (NA)     | 4,919                    |
|        | Soling leather, total.....  | ...do.....       | 80,979                                    | 36,243                   | 132,156  | 53,180                   |
| 311105 | Innersole leather.....  | 1,000 lbs.....   | 16,704                                    | 5,492                    | 37,657   | 11,616                   |
| 311106 | All other soling leather.....                                     | ...do.....       | 64,275                                    | 30,751                   | 94,449   | 41,564                   |
| 311108 | All other finished leather.....                                   | ...do.....       | 13,924                                    | 6,920                    | (X)      | 6,308                    |
| 240011 | Plywood and other wood products, except boxes and containers..... |                  | (X)                                       | 9,029                    | (X)      | ( <sup>2</sup> )         |
| 970099 | All other materials, containers, and supplies consumed.....       |                  | (X)                                       | 53,665                   | (X)      | 60,617                   |
| 976000 | Materials, containers, supplies, n.s.k. <sup>1</sup> .....        |                  | (X)                                       | 20,030                   | (X)      | 18,385                   |

| Code   | Material   | Unit of measure     | 1963                                |                          | 1958     |                          | 1963                          |                          | 1958     |                          |
|--------|--|---------------------|-------------------------------------|--------------------------|----------|--------------------------|-------------------------------|--------------------------|----------|--------------------------|
|        |  |                     | Quantity                            | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) | Quantity                      | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
|        |  |                     | INDUSTRY 3141.—SHOES, EXCEPT RUBBER |                          |          |                          | INDUSTRY 3142.—HOUSE SLIPPERS |                          |          |                          |
|        | Materials, parts, supplies, total.....   |                     | (X)                                 | 983,404                  | (X)      | 927,138                  | (X)                           | 54,695                   | (X)      | 50,216                   |
|        | Finished leather:  |                     |                                     |                          |          |                          |                               |                          |          |                          |
|        | Upper leather, total.....  | 1,000 sq. ft.       | 945,802                             | 398,450                  | 900,341  | 376,932                  | 24,914                        | 9,600                    | 32,715   | 11,866                   |
| 311103 | Lining leather.....  | ...do.....          | 255,588                             | 56,495                   | 390,263  | 149,864                  | 5,667                         | 1,947                    | 20,416   | 7,595                    |
| 311104 | All other upper leather....  | ...do.....          | 690,214                             | 341,955                  | 510,078  | 227,068                  | 19,247                        | 7,653                    | 12,299   | 4,271                    |
|        | Soling leather, total.....   | 1,000 lbs....       | 127,808                             | 52,371                   | 120,972  | 58,135                   | 4,221                         | 2,943                    | (NA)     | 2,007                    |
| 311105 | Innersole leather.....   | ...do.....          | 45,752                              | 13,268                   | 78,844   | 35,117                   | 323                           | 248                      | (NA)     | } 2,007                  |
| 311106 | All other soling leather...  | ...do.....          | 82,056                              | 39,103                   | 42,128   | 23,018                   | 3,898                         | 2,695                    | (NA)     |                          |
| 311107 | All other finished leather...  |                     | (X)                                 | 5,876                    | (X)      | 6,256                    | (X)                           | 1,397                    | (X)      | 331                      |
|        | Cut stock and findings.....  |                     | (X)                                 | 126,222                  | (X)      | 385,963                  | (X)                           | 3,680                    | (X)      | 43,848                   |
| 307984 | Composition and nuclear.....   | 1,000 lbs....       | 75,592                              | 26,026                   | (X)      | (X)                      | 1,854                         | 1,277                    | (X)      | (X)                      |
| 300115 | Plastic, natural and synthetic rubber.....   |                     | (X)                                 | 40,599                   | (X)      | (X)                      | (X)                           | 1,577                    | (X)      | (X)                      |
| 313108 | Leather and other.....   |                     | (X)                                 | 59,597                   | (X)      | (X)                      | (X)                           | 826                      | (X)      | (X)                      |
| 229503 | Coated impregnated or laminated plastics on cloth backing, including artificial leather..... | 1,000 lin. yds..... | 13,175                              | 15,598                   | 10,150   | 11,571                   | (D)                           | (D)                      | 2,143    | 2,966                    |
| 307913 | Unsupported plastic film and sheeting, not backed.....                                       | 1,000 sq. yds.....  | (NA)                                | 2,141                    | (X)      | (X)                      | (D)                           | (D)                      | (X)      | (X)                      |
| 220129 | Broad-woven fabrics (over 12" wide).....   | 1,000 lin. yds..... | 47,281                              | 23,918                   | 49,409   | 26,937                   | 5,628                         | 6,544                    | 12,985   | 9,877                    |

See footnotes at end of table.



TABLE 7A. **Materials by Kind: 1963 and 1958**—Continued

| Code   | Material  | Unit of measure | 1963  |                          | 1958     |                          | 1963                                    |                          | 1958     |                          |
|--------|---|-----------------|---|--------------------------|----------|--------------------------|---|--------------------------|----------|--------------------------|
|        |   |                 | Quantity                                      | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) | Quantity                                | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
|        | Materials, parts, supplies—Continued                  |                 | INDUSTRY 3141.—SHOES, EXCEPT RUBBER—Continued |                          |          |                          | INDUSTRY 3142.—HOUSE SLIPPERS—Continued |                          |          |                          |
| 970011 | Containers and other packaging supplies.....          | .....           | (X)   | 35,891                   | (X)      | 34,371                   | (X)                                     | 2,378                    | (X)      | 2,732                    |
| 970099 | All other materials, parts, supplies.....             | .....           | (X)   | 213,478                  | (X)      | 268,629                  | (X)                                     | 15,756                   | (X)      | 10,196                   |
| 976000 | Materials, parts, supplies, n.s.k. <sup>1</sup> ..... | .....           | (X)   | 109,459                  | (X)      | 58,344                   | (X)                                     | 12,397                   | (X)      | 6,393                    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available.  
 (X) Not applicable.

n.s.k. Not specified by kind.

<sup>1</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

<sup>2</sup>In 1958, data for plywood and other wood products, except boxes and containers, were not collected separately, but were included in the value reported for code 970099, All other materials, containers, and supplies consumed.

<sup>3</sup>Includes the following: Purchased leather cut stock, \$30,024 thousand; and composition and nuclear types of soling materials, \$55,939 thousand.

<sup>4</sup>Includes the following: Purchased leather cut stock, \$539 thousand; and composition and nuclear types of soling materials, \$3,309 thousand.

TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Leather tanning and finishing (SIC 3111) | Industrial leather belting (SIC 3121) | Footwear cut stock (SIC 3131) | Shoes, except rubber (SIC 3141) | House slippers (SIC 3142) |
|---|--|---------------------------------------|-------------------------------|---------------------------------|---------------------------|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 12,686                                   | 1,732                                 | 1,349                         | 10,478                          | 594                       |
| Total cost of purchased fuels.....do....  | 8,183                                    | 1,348                                 | 568                           | 3,251                           | 173                       |
| Bituminous coal, lignite, and anthracite:   |  |                                       |                               |                                 |                           |
| Quantity.....1,000 short tons..   | 324                                      | -                                     | 6                             | 70                              | (S)                       |
| Cost.....\$1,000..  | 2,793                                    | -                                     | 73                            | 670                             | (S)                       |
| Coke and breeze:  |  |                                       |                               |                                 |                           |
| Quantity.....1,000 short tons..   | -  | -                                     | -                             | (S)                             | -                         |
| Cost.....\$1,000..  | -  | -                                     | -                             | (S)                             | -                         |
| Fuel oil (distillate and residual):   |  |                                       |                               |                                 |                           |
| Quantity.....1,000 barrels of 42 gallons..  | 988                                      | 34                                    | (S)                           | 302                             | 20                        |
| Cost.....\$1,000..  | 2,775                                    | 87                                    | (S)                           | 1,121                           | 77                        |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |  |                                       |                               |                                 |                           |
| Quantity.....million cu.ft..  | 2,327                                    | 2,573                                 | 201                           | 802                             | (S)                       |
| Cost.....\$1,000..  | 1,119                                    | 1,258                                 | 86                            | 511                             | (S)                       |
| Other fuels.....do....  | 1,496                                    | (S)                                   | 220                           | 945                             | 60                        |
| Electric energy:  |  |                                       |                               |                                 |                           |
| Purchased:  |  |                                       |                               |                                 |                           |
| Quantity.....million kw.-hrs..  | 314                                      | 27                                    | 38                            | 357                             | 21                        |
| Cost.....\$1,000..  | 4,503                                    | 384                                   | 781                           | 7,227                           | 421                       |
| Generated less sold.....million kw.-hrs..   | 68                                       | -                                     | -                             | (S)                             | (S)                       |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 280                                      | 12                                    | 29                            | 185                             | 11                        |
| Prime movers, total.....do....  | 71                                       | 3                                     | (Z)                           | 7                               | 1                         |
| Driving generators.....do....   | 59                                       | -                                     | (Z)                           | 7                               | 1                         |
| Not driving generators.....do....   | 12                                       | 3                                     | (Z)                           | (Z)                             | -                         |
| Electric motors, total.....do....   | 240                                      | 10                                    | 29                            | 179                             | 11                        |
| Driven by purchased energy.....do....   | 209                                      | 10                                    | 29                            | 178                             | 11                        |
| Driven by energy generated at establishment.....do....  | 32                                       | -                                     | -                             | 1                               | -                         |
| Aggregate horsepower per 100 production workers.....  | 1,026                                    | 480                                   | 190                           | 95                              | 104                       |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.



**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3111-                          | LEATHER TANNING AND FINISHING  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 525                     | 31,417         | 163,307           | 27,282             | 54,556            | 129,756         | 273,092  | 480,507                     | 758,408                      | 6,480                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 478                     | 30,463         | 158,966           | 26,440             | 52,966            | 126,307         | 267,336  | 470,477                     | 742,536                      | 6,296                               |
| 31111                          | Finished cattle hide and kip side leathers, all establishments (primary product class of estab.) | 141                     | 15,291         | 84,648            | 13,288             | 27,229            | 67,174          | 146,993  | 303,537                     | 455,339                      | 3,870                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 113                     | 10,439         | 57,540            | 9,136              | 18,763            | 45,337          | 101,132  | 218,886                     | 324,525                      | 2,792                               |
|                                | 75-89% specialization.....   | 14                      | 1,962          | 10,494            | 1,657              | 3,402             | 8,381           | 18,301   | 30,929                      | 49,571                       | 407                                 |
| 31112                          | Finished calf and whole kip leathers, all establishments (primary product class of estab.).....  | 13                      | 1,624          | 8,792             | 1,392              | 2,719             | 6,675           | 14,373   | 25,152                      | 38,814                       | 259                                 |
| 31113                          | Finished sheep and lamb leathers, all establishments. (primary product class of estab.).....     | 50                      | 1,740          | 8,423             | 1,463              | 2,793             | 5,840           | 16,132   | 48,747                      | 64,963                       | 275                                 |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 44                      | 1,315          | 6,582             | 1,094              | 2,114             | 4,513           | 13,130   | 42,587                      | 55,776                       | 189                                 |
| 31114                          | Other finished leathers, n.e.c., all establishments (primary product class of estab.).....       | 32                      | 2,560          | 13,766            | 2,084              | 4,048             | 10,140          | 20,930   | 39,511                      | 60,963                       | 367                                 |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 25                      | 1,712          | 9,241             | 1,395              | 2,676             | 6,750           | 12,926   | 28,256                      | 41,825                       | 336                                 |
| 31115                          | Rough, russet, and crust leather (primary product class of estab.)                               | 13                      | 760            | 3,609             | 642                | 1,230             | 2,806           | 6,020  | 14,025                      | 20,332                       | 118                                 |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 8                       | 307            | 1,434             | 264                | 477               | 1,101           | 1,864  | 6,830                       | 8,892                        | 40                                  |
| 31119                          | Receipts for tanning or finishing leather owned by others (primary product class of estab.)..... | 131                     | 8,081          | 38,324            | 7,225              | 14,268            | 32,411          | 55,740   | 36,661                      | 92,164                       | 1,195                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 125                     | 7,707          | 36,287            | 6,883              | 13,486            | 30,630          | 52,387   | 34,953                      | 87,196                       | (D)                                 |
| 3111-11                        | Leather tanning and finishing, tanneries (entire subindustry).                                   | 283                     | 22,148         | 117,540           | 19,316             | 38,832            | 94,003          | 196,793  | 332,488                     | 532,998                      | 5,030                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 275                     | 21,441         | 114,293           | 18,695             | 37,669            | 91,512          | 192,744  | 323,100                     | 519,453                      | 4,913                               |
| 31111-11                       | Finished cattle hide and kip side leathers, tanneries (entire subindustry).....                  | 112                     | 14,778         | 80,959            | 13,005             | 26,658            | 65,562          | 135,870  | 235,383                     | 375,723                      | 3,755                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 90                      | 10,073         | 54,784            | 8,902              | 18,290            | 44,016          | 91,482   | 167,321                     | 263,044                      | 2,709                               |
|                                | 75-89% specialization.....   | 12                      | 1,917          | 10,253            | 1,620              | 3,327             | 8,208           | 17,672   | 29,652                      | 47,672                       | 390                                 |
| 31113-11                       | Finished sheep and lamb leathers, tanneries (entire subindustry).....                            | 29                      | 1,404          | 6,257             | 1,233              | 2,353             | 4,745           | 10,619   | 21,993                      | 32,537                       | 219                                 |
| 31114-11                       | Other finished leather, n.e.c., tanneries (entire subindustry)                                   | 24                      | 2,439          | 13,032            | 2,027              | 3,939             | 9,916           | 19,723   | 30,416                      | 50,049                       | 356                                 |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 19                      | 1,621          | 8,674             | 1,355              | 2,596             | 6,585           | 12,132   | 21,562                      | 33,727                       | 326                                 |
| 31115-11                       | Rough russet, and crust leathers, tanneries (entire subindustry).....                            | 9                       | 678            | 3,146             | 566                | 1,052             | 2,510           | 5,031  | 12,364                      | 17,624                       | 116                                 |

See footnotes at end of table.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization                                | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3111-                          | LEATHER TANNING AND FINISHING—<br>Continued   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
| 3111-22                        | Leather tanning and finishing converters (entire subindustry)                         | 61                      | 806            | 5,781             | 413                | 831               | 2,150           | 17,212   | 109,360                     | 127,744                      | 164                                 |
|                                | Establishments with—<br>90% or more specialization....                                | 61                      | 806            | 5,781             | 413                | 831               | 2,150           | 17,212   | 109,360                     | 127,744                      | 164                                 |
| 31111-22                       | Finished cattle hide and kip side leathers, converters (entire subindustry).....      | 26                      | 410            | 3,083             | 190                | 391               | 1,100           | 10,232   | 66,998                      | 77,562                       | 91                                  |
| 3111-33                        | Leather tanning and finishing, contract tanneries (entire subindustry).....           | 180                     | 8,447          | 39,957            | 7,540              | 14,871            | 33,581          | 59,038   | 38,598                      | 97,555                       | 1,285                               |
|                                | Establishments with—<br>90% or more specialization....                                | 141                     | 8,200          | 38,863            | 7,319              | 14,444            | 32,623          | 57,331   | 37,956                      | 95,228                       | 1,218                               |
| 31111-33                       | Finished cattle hide and kip side leathers, contract tanneries (entire subindustry).. | 3                       | 103            | 606               | 93                 | 180               | 512             | 891  | 1,156                       | 2,054                        | 24                                  |
| 3141-                          | SHOES, EXCEPT RUBBER  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 1,040                   | 201,728        | 713,577           | 182,901            | 334,969           | 589,369         | 1,214,740                                      | 1,035,627                   | 2,249,167                    | 18,470                              |
|                                | Establishments with—<br>90% or more specialization..                                  | 963                     | 191,115        | 679,805           | 173,189            | 317,081           | 561,460         | 1,161,538                                      | 1,001,455                   | 2,163,871                    | 17,589                              |
|                                | 75-89% specialization.....  | 13                      | 2,053          | 6,937             | 1,852              | 3,271             | 5,408           | 10,984   | 9,812                       | 20,394                       | 113                                 |
| 31411                          | Men's dress shoes, including play shoes (primary product class of estab.).....        | 146                     | 46,016         | 170,011           | 41,538             | 76,927            | 141,554         | 304,543  | 275,573                     | 580,081                      | 3,946                               |
|                                | Establishments with—<br>90% or more specialization....                                | 92                      | 29,744         | 115,805           | 26,670             | 49,464            | 94,816          | 212,988  | 182,461                     | 395,015                      | 1,729                               |
|                                | 75-89% specialization.....  | 22                      | 7,046          | 23,255            | 6,396              | 11,778            | 20,351          | 35,969   | 42,267                      | 78,571                       | 478                                 |
| 31412                          | Men's work shoes (primary product class of estab.).....                               | 51                      | 11,672         | 43,145            | 10,454             | 19,649            | 33,339          | 75,226   | 91,919                      | 165,738                      | 1,176                               |
|                                | Establishments with—<br>90% or more specialization....                                | 38                      | 7,982          | 29,295            | 7,333              | 13,633            | 23,810          | 51,586   | 66,934                      | 118,194                      | 503                                 |
|                                | 75-89% specialization.....  | 5                       | 2,107          | 8,458             | 1,668              | 3,241             | 5,286           | 13,874   | 14,624                      | 27,997                       | 413                                 |
| 31413                          | Youth's and boy's shoes (primary product class of estab.).....                        | 21                      | 5,193          | 16,347            | 4,873              | 9,032             | 14,585          | 31,647   | 23,186                      | 55,004                       | 434                                 |
|                                | Establishments with—<br>90% or more specialization....                                | 4                       | 792            | 2,333             | 711                | 1,348             | 1,898           | 4,029  | 3,409                       | 7,678                        | 40                                  |
| 31414                          | Women's dress, work and play shoes (primary product class of estab.)                  | 399                     | 99,326         | 348,837           | 90,378             | 163,086           | 289,050         | 582,020  | 490,975                     | 1,071,967                    | 9,180                               |
|                                | Establishments with—<br>90% or more specialization....                                | 347                     | 88,112         | 311,435           | 80,097             | 144,439           | 257,952         | 517,382  | 437,622                     | 955,941                      | 8,280                               |
|                                | 75-89% specialization.....  | 21                      | 4,905          | 16,137            | 4,507              | 8,240             | 13,790          | 27,117   | 25,371                      | 52,405                       | 566                                 |
| 31415                          | Misses' and children's shoes (primary product class of estab.)                        | 105                     | 22,500         | 80,482            | 20,503             | 38,395            | 66,519          | 134,708  | 95,494                      | 231,083                      | 2,086                               |
|                                | Establishments with—<br>90% or more specialization....                                | 32                      | 5,430          | 18,159            | 5,069              | 9,835             | 15,676          | 29,096   | 22,440                      | 51,543                       | 899                                 |
|                                | 75-89% specialization.....  | 15                      | 3,637          | 11,599            | 3,383              | 6,289             | 10,214          | 21,578   | 15,957                      | 37,898                       | 182                                 |
| 31416                          | Infants' and babies' shoes (primary product class of estab.)....                      | 41                      | 5,212          | 16,184            | 4,662              | 8,255             | 13,275          | 27,572   | 18,633                      | 46,408                       | 434                                 |
|                                | Establishments with—<br>90% or more specialization....                                | 30                      | 2,995          | 9,304             | 2,623              | 4,586             | 7,255           | 15,053   | 10,451                      | 25,468                       | 279                                 |
| 31417                          | All other footwear (primary product class of estab.).....                             | 69                      | 5,252          | 19,349            | 4,574              | 8,457             | 14,366          | 31,445   | 28,856                      | 60,156                       | 437                                 |
|                                | Establishments with—<br>90% or more specialization....                                | 52                      | 2,691          | 9,498             | 2,329              | 4,197             | 7,065           | 16,397   | 13,376                      | 29,713                       | 299                                 |
|                                | 75-89% specialization.....  | 6                       | 859            | 3,123             | 792                | 1,402             | 2,563           | 4,803  | 4,783                       | 9,378                        | 29                                  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.  
n.e.c. Not elsewhere classified.



## LEATHER GLOVES; LUGGAGE; AND MISCELLANEOUS LEATHER GOODS

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3151—Leather Dress, Semidress, and Work Gloves
- 3161—Luggage
- 3171—Women's Handbags and Purses
- 3172—Personal Leather Goods, Except Handbags and Purses
- 3199—Leather Goods, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

With the exception of the Leather Gloves Industry (SIC 3151), the products of these industries are made from both leather and nonleather materials. For example, plants primarily engaged in making luggage (whether from plastics, leather, or other materials) are classified in the luggage industry; the basis for classification is the type of product rather than the kind of raw material used.

### 3151—LEATHER DRESS, SEMIDRESS, AND WORK GLOVES

This industry comprises establishments primarily engaged in manufacturing dress, semidress, and work gloves exclusively of leather. Establishments primarily engaged in manufacturing sporting and athletic gloves are classified in industry 3949; and dress, semidress, and work gloves and mittens of cloth, or cloth and leather combined, in industry 2381. For a detailed list of products of industry 3151, refer to table 6A, product codes 3151012 to 3151079.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Leather Gloves Industry in 1963 totaled \$81 million. This amount included shipments of leather dress, semidress, and work gloves (primary products) valued at \$55 million, shipments of other products (secondary products) valued at \$13 million, and miscellaneous receipts (mainly contract work on materials owned by others), at \$12 million.

This industry's shipments of leather gloves in 1963 represented 81 percent of its total product shipments. The industry specialization ratio in 1958 was 85 percent. Secondary products shipped by this industry in 1963 consisted mainly of fabric dress gloves and mittens (\$9 million), and fabric work gloves and mittens (\$3 million).

Shipments of leather dress, semidress, and work gloves by this industry in 1963 represented 89 percent of all shipments of these products (\$62 million) by all industries. In 1958 the coverage ratio was 86 percent.

Establishments in this industry were requested to report value of shipments in 1963 and value of production in prior years. This change was made as a result of a review of the reporting which indicated that the value of shipments data were more generally available from company records and were usually reported in place of value of production. This change does not significantly affect the comparability between 1963 and prior years for the product statistics shown in tables 6A or in the industry's value of shipments shown in tables 1 to 4.

The production index for the primary products of the industry increased to 123 in 1963 from the 1958 level of 103. The unit value index for 1963 was 115 compared to 109 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3161—LUGGAGE

This industry comprises establishments primarily engaged in manufacturing luggage of leather or other materials. For a detailed list of products of industry 3161, refer to table 6A, product codes 3161015 to 3161098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Luggage Industry in 1963 totaled \$210 million. This amount included shipments of luggage (primary products) valued at \$192 million, shipments of other products (secondary products) valued at \$10 million, and miscellaneous receipts (mainly contract work on materials owned by others), at \$8 million.

This industry's shipments of luggage in 1963 represented 95 percent of its total product shipments. The industry specialization ratio in 1958 was also 95 percent.

Shipments of luggage by this industry in 1963 represented 94 percent of all shipments of these products (\$205 million) by all industries. In 1958 the coverage ratio was 95 percent. Other industries shipping luggage consisted mainly of industry 3172, Small Leather Goods, \$2,048 million.

As a result of revisions to the 1957 Standard Industrial Classification, data for this industry for 1957 and earlier years are not directly comparable to those for 1958 to 1963. The extent of noncomparability is described in the text for industry 3161 which appears in the 1958 Census of Manufactures, volume II, part 2.

The production index for the primary products of the industry increased to 120 in 1963 from the 1958 level of 106. The unit value index for 1963 was 115 compared to 104 in 1958. Both indexes were computed on a basis of 1954 = 100.

Establishments shipping luggage, travel kits, billfolds, wallets, and French purses also report monthly on Census Form M31E, Luggage, Briefcases, and Personal Leather Goods. The 1963 data compiled from this survey are shown in table 6A together with the com-



parable totals reported in the census of manufactures. The M31E survey was initiated in 1960.

The two sets of 1963 data differ primarily because of the different procedures used in deriving the totals. All manufacturing plants are included in the census of manufactures. The monthly M31E data, on the other hand, are estimates based on reports received from a sample of all producers benchmarked to their 1958 Census of Manufactures reports. Over a period of time, most samples, including this one, are subject to increasing errors pending rebenchmarking to a complete universe. It appears that the sample for the luggage and personal leather goods survey did not completely reflect the changes in business activity of the nonsample companies and consequently the estimates differed from the results of the complete census.

In addition, the data available for the benchmark year (1958) were in less detail than that collected in the M31E survey. Therefore, "average" estimating factors were used for some of the detail items. This fact significantly affected the level of some of these estimates.

#### 3171—WOMEN'S HANDBAGS AND PURSES

This industry comprises establishments primarily engaged in manufacturing women's handbags and purses of leather or other materials, except precious metal (industry 3911). For a detailed list of products of industry 3171, refer to table 6A, product codes 3171011 to 3171071.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Handbags and Purses Industry in 1963 totaled \$280 million. This amount included shipments of ladies' and children's handbags and purses (primary products) valued at \$261 million, shipments of other products (secondary products) valued at \$7 million, and miscellaneous receipts (mainly contract work on materials owned by others), at \$12 million.

This industry's shipments of handbags and purses in 1963 represented 98 percent of its total product shipments. The industry specialization ratio in 1958 was 96 percent.

Shipments of handbags and purses by this industry in 1963 represented 98 percent of all shipments of these products (\$266 million) by all industries. In 1958 the coverage ratio was 98 percent. Another industry shipping handbags and purses was industry 3172, Small Leather Goods, \$2 million.

The production index for the primary products of the industry increased to 117 in 1963 from the 1958 level of 107. The unit value index for 1963 was 127 compared to 111 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3172—PERSONAL LEATHER GOODS, EXCEPT HANDBAGS AND PURSES

This industry comprises establishments primarily engaged in manufacturing small articles, such as billfolds, key cases and coin purses of leather or other materials, except precious metal (industry 3911). For a detailed list of products in industry 3172, refer to table 6A, product codes 3172011 to 3172055.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Small Leather Goods Industry in 1963 totaled \$159 million. This amount included shipments of personal leather goods, except

handbags and purses, (primary products) valued at \$141 million, shipments of other products (secondary products) valued at \$6 million, and miscellaneous receipts (mainly contract work on materials owned by others), at \$12 million.

This industry's shipments of small leather goods in 1963 represented 96 percent of its total product shipments. The industry specialization ratio in 1958 was 91 percent. Secondary products shipped by this industry in 1963 consisted mainly of luggage (\$2 million), and handbags and purses (\$2 million).

Shipments of personal leather goods, except handbags and purses, by this industry in 1963 represented 92 percent of all shipments of these products (\$154 million) by all industries. In 1958 the coverage ratio was 87 percent.

As a result of revisions to the 1957 Standard Industrial Classification, data for this industry for 1957 and earlier years are not directly comparable to those for 1958 to 1963. The extent of noncomparability is described in the text for industry 3172 which appears in the 1958 Census of Manufactures, volume II, part 2.

The production index for the primary products of the industry increased to 130 in 1963 from the 1958 level of 112. The unit value index for 1963 was 99 compared to 102 in 1958. Both indexes were computed on a basis of 1954 = 100.

Establishments shipping luggage, travel kits, billfolds, wallets, and French purses also report monthly on Census Form M31E, Luggage, Briefcases, and Personal Leather Goods. The 1963 data compiled from this survey are shown in table 6A, together with the comparable totals reported in the census of manufactures. The M31E survey was initiated in 1960.

The two sets of 1963 data differ primarily because of the different procedures used in deriving the totals. All manufacturing plants reported in the census of manufactures. The monthly M31E data, on the other hand, are estimates based on reports received from a sample of all producers benchmarked to their 1958 Census of Manufactures reports. Over a period of time, most samples, including this one, are subject to increasing errors pending rebenchmarking to a complete universe. It appears that the sample for the luggage and personal leather goods survey did not completely reflect the changes in business activity of the nonsample companies and consequently the estimates differed from the results of the complete census.

In addition, the data available for the benchmark year (1958) were in less detail than that collected in the M31E survey. Therefore, "average" estimating factors were used for some of the detail items. This fact significantly affected the level of some of these estimates.

#### 3199—LEATHER GOODS, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing leather goods, n.e.c., such as saddlery, harness, and whips; embossed leather goods; leather desk sets; and razor straps. For a detailed list of products of industry 3199, refer to table 6A, product codes 3199011 to 3199098.

Establishments primarily engaged in manufacturing leather garments are classified in industry 2386, Leather and Sheeplined Clothing; leather belts in industry 2387, Apparel Belts; leather gaskets in industry 3293, Gaskets and Insulations; leather buffing wheels in industry 3291, Abrasive Products; and leather costume jewelry in industry 3961, Costume Jewelry.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

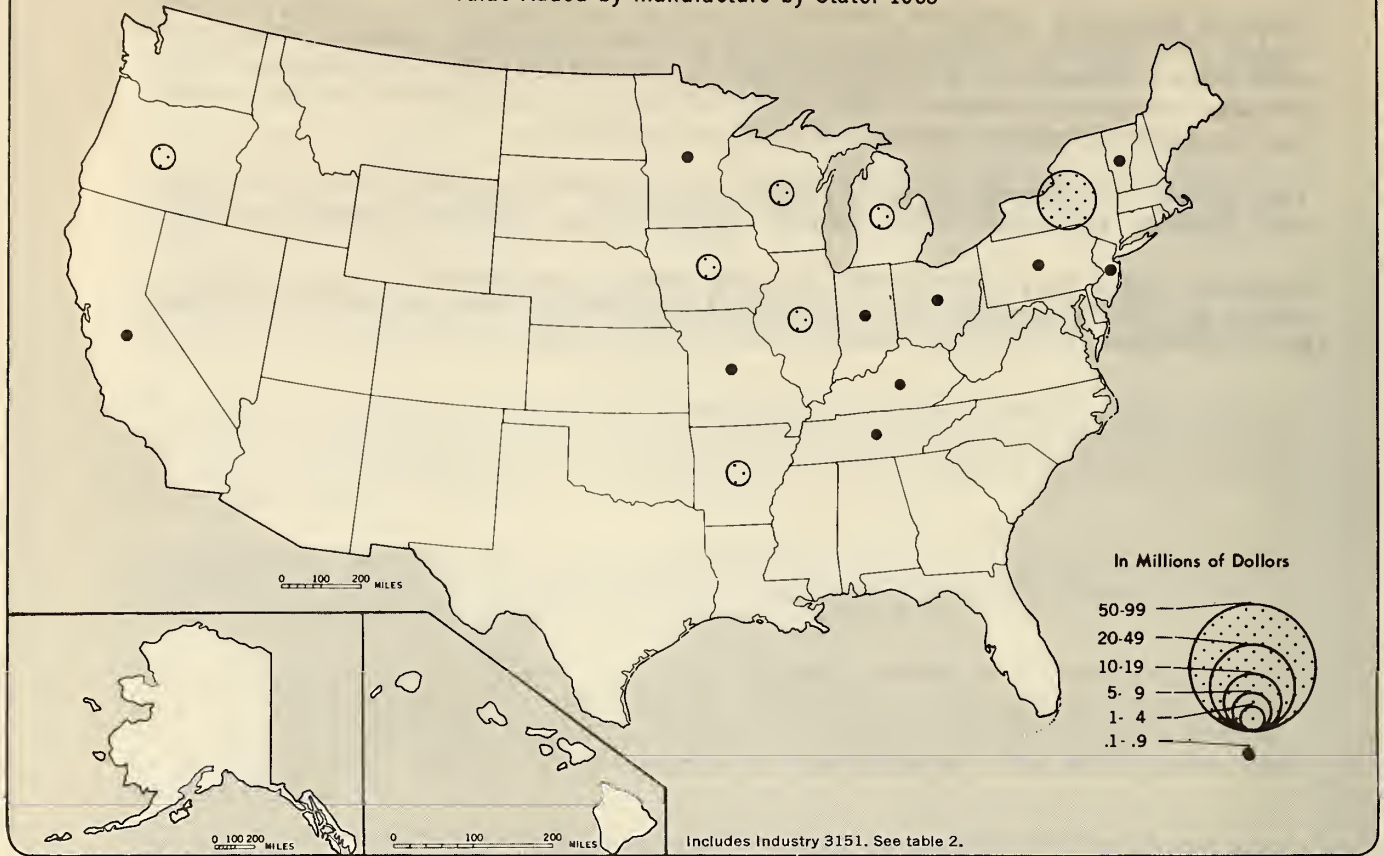


Value of shipments and other receipts of the Leather Goods, N.E.C., Industry in 1963 totaled \$67 million. This amount included shipments of saddlery, harness and whip and other leather products, n.e.c. (primary products) valued at \$55 million, shipments of other products (secondary products) valued at \$4 million, and miscellaneous receipts (mainly contract work on materials owned by others), at \$8 million.

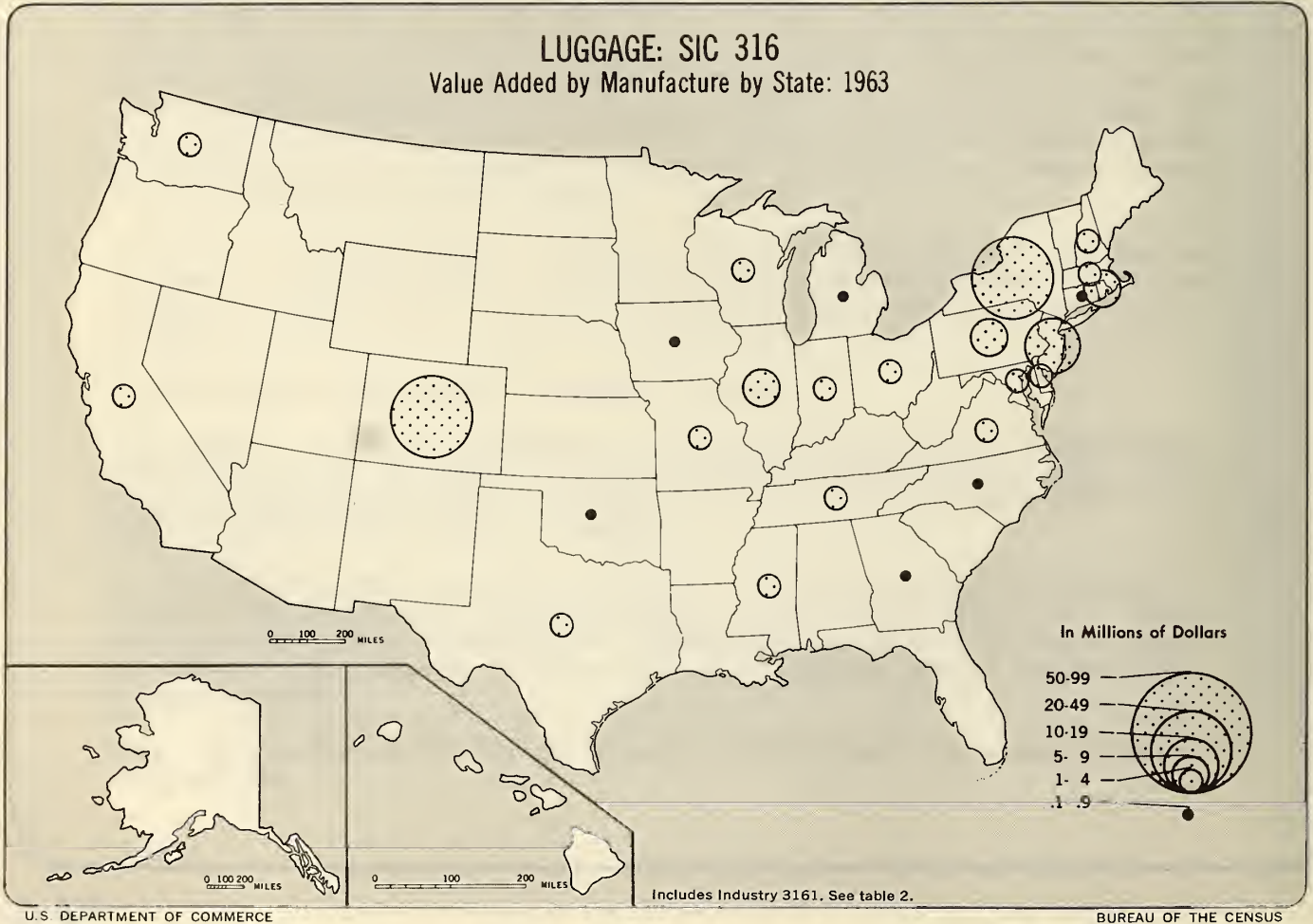
This industry's shipments of leather goods, n.e.c., in 1963 represented 94 percent of its total product shipments. The industry specialization ratio in 1958 was 96 percent.

Shipments of saddlery, harness and whip and other leather products, n.e.c., by this industry in 1963 represented 82 percent of all shipments of these products (\$67 million) by all industries. In 1958 the coverage ratio was 84 percent.

**LEATHER GLOVES: SIC 315**  
 Value Added by Manufacture by State: 1963



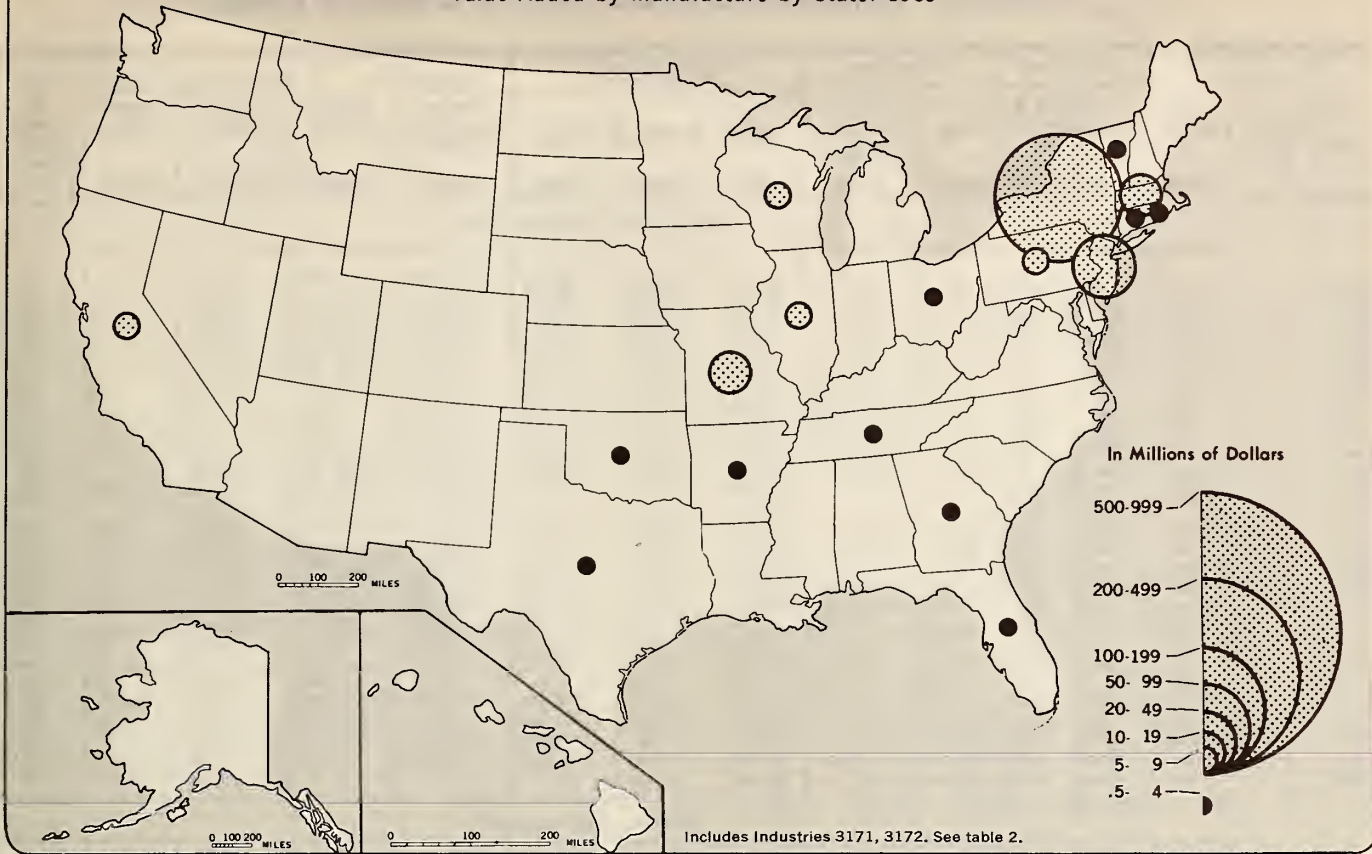
**LUGGAGE: SIC 316**  
 Value Added by Manufacture by State: 1963





# PURSES AND SMALL LEATHER GOODS: SIC 317

Value Added by Manufacture by State: 1963

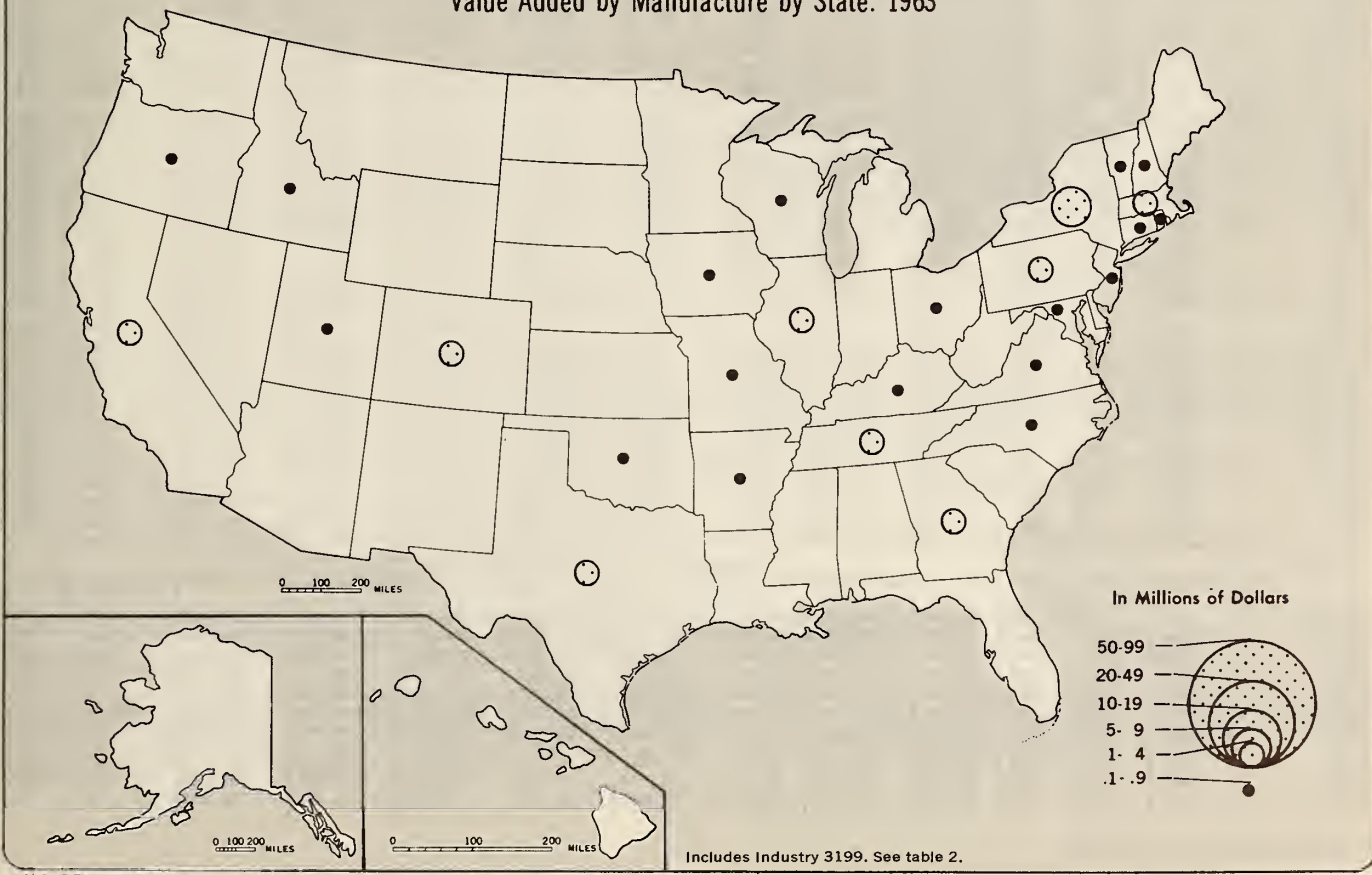


U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

# LEATHER GOODS, N.E.C.: SIC 319

Value Added by Manufacture by State: 1963



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics: 1963 and Earlier Years

| Year                               | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spec-<br>ializa-<br>tion<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|------------------------------------|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|                                    |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3151.—LEATHER GLOVES      |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                          | 160                        | 166               | 87   | 7,718             | 24,439               | 6,899              | 12,244               | 19,481             | 132,194  | 46,694                            | 180,640                            | 328   | 81  | 89                                       |
| 1962 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 6,152             | 18,515               | 5,407              | 9,864                | 14,628             | 25,461   | 31,178                            | 56,427                             | (Z)   | (NA)  | (NA)                                     |
| 1961 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 6,802             | 20,125               | 6,053              | 10,724               | 16,164             | 30,070   | 35,098                            | 64,499                             | (Z)   | (NA)  | (NA)                                     |
| 1960 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 6,917             | 19,034               | 6,094              | 10,403               | 15,411             | 28,123   | 33,091                            | 61,188                             | (S)   | (NA)  | (NA)                                     |
| 1959 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 6,595             | 18,319               | 5,868              | 10,249               | 14,920             | 27,763   | 33,680                            | 60,959                             | (S)   | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....            | 171                        | 179               | 76   | 6,212             | 15,999               | 5,503              | 9,214                | 12,705             | 25,999   | 28,309                            | 54,155                             | 263   | 85  | 86                                       |
| 1954 <sup>4</sup> .....            | (NA)                       | 239               | 90   | 6,917             | 15,573               | 6,181              | 10,433               | 12,344             | 22,718   | 26,201                            | 49,989                             | 122   | 88  | 90                                       |
| 1952 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 6,414             | 16,555               | 5,649              | 10,529               | 13,197             | 26,724   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 7,339             | 17,166               | 6,744              | 11,327               | 14,195             | 23,130   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 8,713             | 17,269               | 7,690              | 13,107               | 13,611             | 24,515   | 26,708                            | 51,069                             | (NA)  | (NA)  | (NA)                                     |
| 1947.....                          | (NA)                       | 341               | 131  | 11,577            | 20,798               | 10,491             | 18,132               | 17,091             | 32,088   | 30,881                            | 63,438                             | 528   | (NA)  | (NA)                                     |
| 1939.....                          | (NA)                       | 231               | (NA)   | (NA)              | (NA)                 | 9,539              | (NA)                 | 7,061              | 12,467   | 13,269                            | 25,736                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                          | (NA)                       | 221               | (NA)   | 12,568            | 10,694               | 11,637             | (NA)                 | 9,039              | 14,998   | 15,720                            | 30,718                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                          | (NA)                       | 224               | (NA)   | 10,573            | 10,011               | 9,810              | (NA)                 | 8,500              | 14,257   | 13,874                            | 28,131                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....                          | (NA)                       | 194               | (NA)   | 8,759             | 7,371                | 8,129              | (NA)                 | 6,434              | 12,093   | 11,377                            | 23,470                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....                          | (NA)                       | 227               | (NA)   | (NA)              | (NA)                 | 7,884              | (NA)                 | 7,554              | 14,888   | 13,136                            | 28,024                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....                          | (NA)                       | 257               | (NA)   | 10,101            | 11,476               | 9,203              | (NA)                 | 9,204              | 18,917   | 20,206                            | 39,123                             | (NA)  | (NA)  | (NA)                                     |
| 1927.....                          | (NA)                       | 232               | (NA)   | 10,146            | 10,852               | 9,106              | (NA)                 | 8,814              | 17,366   | 19,276                            | 36,662                             | (NA)  | (NA)  | (NA)                                     |
| 1925 <sup>5</sup> .....            | (NA)                       | 226               | (NA)   | (NA)              | (NA)                 | 7,115              | (NA)                 | 6,915              | 15,514   | 17,779                            | 33,293                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....                          | (NA)                       | 260               | (NA)   | 11,115            | 10,705               | 10,010             | (NA)                 | 8,545              | 17,857   | 20,224                            | 38,081                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....                          | (NA)                       | 272               | (NA)   | 8,853             | 7,714                | 7,907              | (NA)                 | 5,843              | 11,011   | 13,844                            | 24,855                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....                          | (NA)                       | 355               | (NA)   | 12,189            | 11,249               | 10,685             | (NA)                 | 8,151              | 20,655   | 26,286                            | 46,941                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....                          | (NA)                       | 352               | (NA)   | 11,928            | 5,959                | 10,668             | (NA)                 | 4,558              | 12,171   | 12,171                            | 21,614                             | (NA)  | (NA)  | (NA)                                     |
| 1909.....                          | (NA)                       | 377               | (NA)   | 12,492            | 6,020                | 11,354             | (NA)                 | 4,764              | 10,423   | 13,208                            | 23,631                             | (NA)  | (NA)  | (NA)                                     |
| 1904.....                          | (NA)                       | 339               | (NA)   | 11,285            | 4,425                | 10,645             | (NA)                 | 3,840              | 7,739  | 10,001                            | 17,740                             | (NA)  | (NA)  | (NA)                                     |
| 1899 <sup>7</sup> .....            | (NA)                       | 394               | (NA)   | 15,004            | 4,730                | 14,345             | (NA)                 | 4,183              | 7,443  | 9,483                             | 16,926                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3161.—LUGGAGE             |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                          | 377                        | 379               | 145  | 16,409            | 62,853               | 14,134             | 26,340               | 46,715             | 112,796  | 100,363                           | 210,303                            | 1,908   | 95  | 94                                       |
| 1962 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 16,068            | 61,568               | 13,588             | 25,788               | 45,379             | 110,051  | 97,106                            | 207,899                            | (1,747)   | (NA)  | (NA)                                     |
| 1961 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 15,915            | 56,955               | 13,637             | 25,609               | 43,238             | 97,855   | 89,096                            | 186,152                            | (1,705)   | (NA)  | (NA)                                     |
| 1960 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 18,030            | 60,968               | 15,494             | 28,560               | 45,056             | 107,529  | 94,781                            | 200,969                            | (S)   | (NA)  | (NA)                                     |
| 1959 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 16,817            | 57,934               | 14,604             | 27,366               | 43,370             | 101,564  | 96,173                            | 193,519                            | (S)   | (NA)  | (NA)                                     |
| 1958 <sup>8</sup> .....            | 428                        | 428               | 159  | 15,856            | 54,717               | 13,725             | 25,138               | 40,282             | 96,560   | 88,194                            | 184,722                            | 1,504   | 95  | 95                                       |
| 1957 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 17,637            | 57,867               | 14,936             | 27,278               | 43,160             | 105,148  | 91,238                            | 197,508                            | 1,240   | (NA)  | (NA)                                     |
| 1956 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 19,565            | 63,122               | 17,082             | 31,033               | 47,857             | 107,255  | 96,188                            | 202,320                            | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 18,917            | 60,602               | 16,833             | 31,771               | 47,318             | 108,046  | 86,987                            | 193,289                            | (S)   | (NA)  | (NA)                                     |
| 1954.....                          | 495                        | 497               | 159  | 15,856            | 51,679               | 13,960             | 27,417               | 39,753             | 91,313   | 82,538                            | 172,691                            | 1,868   | 94  | 97                                       |
| 1953 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 15,786            | 51,886               | 13,758             | 26,857               | 40,959             | 84,235   | 76,558                            | 160,793                            | 1,164   | (NA)  | (NA)                                     |
| 1952 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 17,004            | 51,265               | 15,380             | 30,925               | 42,881             | 82,848   | 90,217                            | 173,065                            | (S)   | (NA)  | (NA)                                     |
| 1951 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 15,502            | 43,594               | 14,014             | 27,489               | 36,849             | 66,944   | 76,385                            | 143,329                            | (S)   | (NA)  | (NA)                                     |
| 1950 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 15,101            | 41,806               | 13,255             | 26,509               | 33,782             | 60,466   | 68,981                            | 129,447                            | (S)   | (NA)  | (NA)                                     |
| 1949 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 15,007            | 38,942               | 12,395             | 24,131               | 28,301             | 61,674   | 61,369                            | 123,043                            | 1,235   | (NA)  | (NA)                                     |
| 1947.....                          | 590                        | 591               | (NA)   | 16,002            | 41,055               | 13,852             | 27,814               | 30,981             | 67,662   | 65,206                            | 132,868                            | 1,842   | 94  | 97                                       |
| 1939.....                          | (NA)                       | 329               | (NA)   | 9,924             | 11,556               | 8,326              | (NA)                 | 7,919              | 17,377   | 19,214                            | 36,591                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                          | (NA)                       | 277               | (NA)   | 9,708             | 10,624               | 8,708              | (NA)                 | 8,458              | 18,186   | 20,534                            | 38,720                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                          | (NA)                       | 307               | (NA)   | 7,644             | 8,278                | 6,654              | (NA)                 | 6,336              | 13,316   | 14,932                            | 28,248                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....                          | (NA)                       | 270               | (NA)   | 5,831             | 4,791                | 5,117              | (NA)                 | 3,749              | 8,040  | 9,328                             | 17,368                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....                          | (NA)                       | 371               | (NA)   | (NA)              | (NA)                 | 6,198              | (NA)                 | 6,343              | 13,483   | 13,232                            | 26,715                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....                          | (NA)                       | 467               | (NA)   | 13,069            | 18,682               | 11,359             | (NA)                 | 13,757             | 32,275   | 31,694                            | 63,969                             | (NA)  | (NA)  | (NA)                                     |
| 1927.....                          | (NA)                       | 495               | (NA)   | 12,097            | 17,591               | 10,345             | (NA)                 | 13,084             | 30,831   | 29,128                            | 59,969                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....                          | (NA)                       | 475               | (NA)   | 11,964            | 17,282               | 10,348             | (NA)                 | 13,226             | 29,842   | 31,382                            | 61,224                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....                          | (NA)                       | 505               | (NA)   | 13,217            | 17,685               | 11,441             | (NA)                 | 13,520             | 30,186   | 32,837                            | 63,023                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....                          | (NA)                       | 504               | (NA)   | 10,045            | 13,240               | 8,712              | (NA)                 | 10,260             | 22,666   | 23,883                            | 46,549                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....                          | (NA)                       | 597               | (NA)   | 13,615            | 17,736               | 11,470             | (NA)                 | 12,464             | 30,710   | 33,222                            | 63,932                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....                          | (NA)                       | 561               | (NA)   | 11,605            | 7,706                | 9,911              | (NA)                 | 5,540              | 12,847   | 13,625                            | 26,472                             | (NA)  | (NA)  | (NA)                                     |
| 1909.....                          | (NA)                       | 524               | (NA)   | 12,870            | 7,653                | 11,122             | (NA)                 | 5,537              | 13,399   | 14,629                            | 28,028                             | (NA)  | (NA)  | (NA)                                     |
| 1904.....                          | (NA)                       | 373               | (NA)   | 10,052            | 5,150                | 9,091              | (NA)                 | 4,139              | 9,536  | 9,108                             | 18,644                             | (NA)  | (NA)  | (NA)                                     |
| 1899.....                          | (NA)                       | 312               | (NA)   | 7,672             | 3,469                | 6,964              | (NA)                 | 2,777              | 6,474  | 5,955                             | 12,429                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3171.—HANDBAGS AND PURSES |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                          | 539                        | 545               | 262  | 24,548            | 88,455               | 22,001             | 41,752               | 70,058             | 142,554  | 137,107                           | 280,343                            | 1,890   | 98  | 98                                       |
| 1962 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 24,020            | 81,237               | 21,678             | 41,282               | 66,555             | 134,100  | 128,580                           | 263,444                            | 1,310   | (NA)  | (NA)                                     |
| 1961 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 23,597            | 76,636               | 21,152             | 39,537               | 61,580             | 127,317  | 130,475                           | 259,359                            | 1,094   | (NA)  | (NA)                                     |
| 1960 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 23,224            | 74,023               | 20,702             | 39,025               | 58,607             | 127,687  | 129,980                           | 258,436                            | 1,064   | (NA)  | (NA)                                     |
| 1959 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 23,914            | 73,244               | 21,164             | 40,050               | 57,447             | 122,469  | 134,295                           | 257,796                            | (S)   | (NA)  | (NA)                                     |
| 1958.....                          | 611                        | 624               | 262  | 21,971            | 68,654               | 19,459             | 37,259               | 54,275             | 111,545  | 119,430                           | 231,110                            | 1,575   | 96  | 98                                       |
| 1957 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 23,261            | 66,602               | 20,892             | 38,100               | 52,423             | 106,590  | 104,339                           | 211,972                            | (S)   | (NA)  | (NA)                                     |
| 1956 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 24,418            | 68,059               | 22,164             | 41,681               | 53,756             | 110,749  | 105,347                           | 214,932                            | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>2</sup> .....            | (NA)                       | (NA)              | (NA)   | 24,537            | 65,335               | 22,377             | 41,028               | 51,821             | 102,074  | 100,326                           | 201,923                            | (S)   | (NA)  | (NA)                                     |
| 1954.....                          | 710                        | 714               | 247  | 22,881            | 61,405               | 20,911             | 39,942               | 49,620             | 93,865   | 100,486                           | 194,262                            | 972   | 97  | 98                                       |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3171.—HANDBAGS AND PURSES—Continued |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1953 <sup>2</sup> .....                      | (NA)                       | (NA)              | (NA)   | 20,768            | 56,451               | 18,407             | 35,193               | 44,069             | 86,676   | 84,175                            | 170,851                            | (S)   | (NA)  | (NA)                                     |
| 1950 <sup>2</sup> .....                      | (NA)                       | (NA)              | (NA)   | 20,780            | 48,652               | 18,643             | 40,593               | 38,557             | 64,740   | 86,280                            | 151,020                            | (S)   | (NA)  | (NA)                                     |
| 1947.....                                    | 725                        | 736               | 279  | 20,378            | 45,664               | 18,468             | 38,725               | 36,168             | 77,042   | 86,264                            | 163,306                            | 799   | 99  | 97                                       |
| 1939.....                                    | (NA)                       | 286               | (NA)   | 15,700            | 14,777               | 14,048             | (NA)                 | 11,239             | 22,929   | 32,878                            | 55,807                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>9</sup> .....                      | (NA)                       | 203               | (NA)   | 12,236            | 11,264               | 11,306             | (NA)                 | 9,054              | 18,690   | 24,756                            | 43,446                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3172.—SMALL LEATHER GOODS           |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                    | 325                        | 340               | 117  | 12,432            | 47,352               | 10,320             | 19,580               | 32,077             | 82,385   | 76,603                            | 159,013                            | 1,262   | 96  | 92                                       |
| 1962 <sup>2</sup> .....                      | (NA)                       | (NA)              | (NA)   | 13,734            | 51,250               | 11,539             | 21,371               | 34,931             | 86,322   | 69,786                            | 154,863                            | (1,772)   | (NA)  | (NA)                                     |
| 1961 <sup>2</sup> .....                      | (NA)                       | (NA)              | (NA)   | 13,400            | 47,977               | 11,362             | 21,159               | 32,502             | 80,972   | 64,575                            | 144,631                            | (1,330)   | (NA)  | (NA)                                     |
| 1960 <sup>2</sup> .....                      | (NA)                       | (NA)              | (NA)   | 15,297            | 52,573               | 12,939             | 23,693               | 35,178             | 81,054   | 154,309                           | (5,650)                            | (NA)  | (NA)  | (NA)                                     |
| 1959 <sup>2</sup> .....                      | (NA)                       | (NA)              | (NA)   | 15,140            | 52,009               | 12,703             | 23,741               | 35,330             | 82,256   | 72,675                            | 153,437                            | (2,843)   | (NA)  | (NA)                                     |
| 1958 <sup>10</sup> .....                     | 399                        | 400               | 123  | 13,657            | 46,483               | 11,521             | 21,380               | 31,865             | 75,791   | 62,550                            | 138,052                            | 1,378   | 91  | 87                                       |
| 1954 <sup>4</sup> .....                      | (NA)                       | 425               | 129  | 14,666            | 44,079               | 12,219             | 23,473               | 30,305             | 69,882   | 53,516                            | 124,164                            | 1,303   | (NA)  | (NA)                                     |
| 1947.....                                    | (NA)                       | 411               | 122  | 12,818            | 27,447               | 11,367             | 22,385               | 20,867             | 45,825   | 34,829                            | 80,654                             | 1,098   | (NA)  | (NA)                                     |
| 1939 <sup>9</sup> .....                      | (NA)                       | 242               | (NA)   | (NA)              | (NA)                 | 7,714              | (NA)                 | 6,561              | 15,280   | 12,741                            | 28,021                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3199.—LEATHER GOODS, N.E.C.         |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                    | 365                        | 370               | 67   | 4,989             | 18,742               | 4,209              | 8,507                | 13,668             | 32,730   | 34,827                            | 67,058                             | 766   | 94  | 82                                       |
| 1962 <sup>2</sup> .....                      | (NA)                       | (NA)              | (NA)   | 5,104             | 20,362               | 4,219              | 8,628                | 14,342             | 36,922   | 35,054                            | 72,003                             | (615)   | (NA)  | (NA)                                     |
| 1961 <sup>2</sup> .....                      | (NA)                       | (NA)              | (NA)   | 4,560             | 18,654               | 3,835              | 7,881                | 12,884             | 35,546   | 31,772                            | 66,511                             | (705)   | (NA)  | (NA)                                     |
| 1960 <sup>2</sup> .....                      | (NA)                       | (NA)              | (NA)   | 5,217             | 18,549               | 4,340              | 9,653                | 13,572             | 34,344   | 32,099                            | 66,364                             | (S)   | (NA)  | (NA)                                     |
| 1959 <sup>2</sup> .....                      | (NA)                       | (NA)              | (NA)   | 5,736             | 19,193               | 4,905              | 9,330                | 14,038             | 34,034   | 31,149                            | 64,478                             | (S)   | (NA)  | (NA)                                     |
| 1958.....                                    | 429                        | 433               | 74   | 5,405             | 17,651               | 4,623              | 8,778                | 13,185             | 31,227   | 28,740                            | 60,178                             | 842   | 96  | 84                                       |
| 1954 <sup>4</sup> .....                      | (NA)                       | 489               | 83   | 5,900             | 16,471               | 5,109              | 9,835                | 12,392             | 29,208   | 29,709                            | 58,659                             | 340   | 92  | 85                                       |
| 1952 <sup>2</sup> .....                      | (NA)                       | (NA)              | (NA)   | 7,617             | 21,847               | 6,826              | 12,883               | 16,755             | 37,114   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>2</sup> .....                      | (NA)                       | (NA)              | (NA)   | 7,683             | 19,616               | 6,877              | 12,618               | 14,594             | 33,457   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>2</sup> .....                      | (NA)                       | (NA)              | (NA)   | 9,387             | 22,441               | 7,176              | 13,307               | 14,583             | 39,812   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>2</sup> .....                      | (NA)                       | (NA)              | (NA)   | 7,574             | (NA)                 | 6,235              | 11,827               | (NA)               | 27,196   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                    | (NA)                       | 544               | 113  | 9,016             | 19,882               | 7,901              | 15,924               | 15,209             | 31,696   | 29,698                            | 61,394                             | 668   | (NA)  | (NA)                                     |
| 1939.....                                    | (NA)                       | 316               | (NA)   | 6,214             | 6,355                | 5,217              | (NA)                 | 4,475              | 9,913  | 11,116                            | 21,029                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>11</sup> .....                     | (NA)                       | 346               | (NA)   | (NA)              | (NA)                 | 6,748              | (NA)                 | 5,832              | 12,449   | 15,549                            | 27,998                             | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1954 excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1954 excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$500 thousand. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>See text regarding comparability of 1963 data with earlier years.

<sup>2</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>3</sup>The 1957 Standard Industrial Classification combined in this industry two industries which were separate in the 1945 Standard Industrial Classification. These were: Leather dress gloves and leather work gloves. The data for 1947-1954 for these two industries have been combined. Prior to 1947, leather work gloves and leather dress gloves constituted a single industry.

<sup>4</sup>Data for Alaska and Hawaii are not included for 1957 and prior years.

<sup>5</sup>This industry contains a number of very small establishments, some of which may have been misclassified as to industry in 1954. This would not affect the statistics other than the number of establishments.

<sup>6</sup>The figures for 1925-1963 do not include data for gloves and mittens of cloth and leather combined, whereas the figures for earlier years include data for these products.

<sup>7</sup>The figures for 1899 include data for a few establishments making gloves and mittens from materials other than leather.

<sup>8</sup>A revision in the definition of the Luggage Industry was introduced in the 1957 Standard Industrial Classification so that the industry is not exactly comparable to years prior to 1958. The 1957 and earlier figures are on the old SIC definition of the industry. The details of the revision are described in the text.

<sup>9</sup>"Handbags and Purses" and "Small Leather Goods" formerly constituted one industry. Separate figures for prior years are not available.

<sup>10</sup>The 1957 Standard Industrial Classification combined in this industry two industries with several product revisions which were separate in the 1945 Standard Industrial Classification. These were Small Leather Goods (old SIC Industry 3172) and Jewelry and Instrument Cases (old SIC Industry 3986). The data for 1954 and earlier years for these two industries have been combined. The details of the revisions are described in the text.

<sup>11</sup>Comparable figures for earlier years are not available.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>       | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|                                    | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|                                    | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3151.—LEATHER GLOVES      |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                         | 166            | 87                                 | 7,718          | 24,439            | 6,899              | 12,244            | 19,481          | 232,194                              | 46,694            | 280,640            | 328                       | 6,212            | 225,999                              |
| Northeast.....                     | 93             | 44                                 | 4,127          | 12,887            | 3,668              | 6,173             | 10,286          | 16,344                               | 27,432            | 44,967             | 175                       | 3,166            | 13,211                               |
| New York.....                      | 85             | 41                                 | 3,910          | 12,232            | 3,465              | 5,805             | 9,740           | 15,520                               | 26,559            | 43,250             | 160                       | 2,838            | 11,805                               |
| East North Central.....            | 37             | 25                                 | 2,213          | 7,072             | 2,015              | 3,862             | 5,785           | 8,936                                | 11,430            | 20,886             | 65                        | 2,037            | 8,675                                |
| Illinois.....                      | 7              | 5                                  | 584            | 1,763             | 538                | 1,119             | 1,491           | 1,867                                | 3,352             | 5,655              | 43                        | 579              | 2,830                                |
| Wisconsin.....                     | 20             | 14                                 | 1,155          | 3,780             | 1,048              | 1,968             | 3,059           | 4,556                                | 5,687             | 10,376             | 14                        | 882              | 3,547                                |
| West North Central.....            | 9              | 7                                  | 537            | 1,760             | 444                | 770               | 1,234           | 2,557                                | 2,913             | 5,601              | 24                        | 312              | 1,186                                |
| Iowa.....                          | 4              | 4                                  | 383            | 1,263             | 300                | 493               | 785             | 1,799                                | 1,963             | 3,762              | 14                        | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| South.....                         | 5              | 5                                  | 475            | 1,361             | 456                | 858               | 1,242           | 2,285                                | 2,581             | 4,863              | 41                        | 459              | 1,691                                |
| West.....                          | 22             | 6                                  | 366            | 1,359             | 316                | 581               | 934             | 2,072                                | 2,338             | 4,323              | 23                        | 238              | 1,236                                |
| Oregon.....                        | 8              | 2                                  | 147            | 635               | 134                | 279               | 407             | 1,057                                | 1,314             | 2,278              | 14                        | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| California.....                    | 9              | 4                                  | 181            | 612               | 149                | 250               | 439             | 860                                  | 900               | 1,761              | 5                         | 149              | 941                                  |
| INDUSTRY 3161.—LUGGAGE             |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                         | 379            | 145                                | 16,409         | 62,853            | 14,134             | 26,340            | 46,715          | 112,796                              | 100,363           | 210,303            | 1,908                     | 15,856           | 96,560                               |
| New England.....                   | 30             | 10                                 | 1,386          | 5,259             | 1,184              | 2,097             | 3,518           | 11,716                               | 11,904            | 23,403             | 133                       | 1,390            | 8,536                                |
| Massachusetts.....                 | 21             | 7                                  | 505            | 1,664             | 428                | 755               | 1,304           | 2,289                                | 3,508             | 5,851              | 65                        | 657              | 3,086                                |
| Middle Atlantic.....               | 185            | 84                                 | 6,688          | 23,991            | 5,884              | 10,738            | 18,971          | 40,645                               | 40,703            | 80,967             | 457                       | 7,342            | 41,720                               |
| New York.....                      | 133            | 53                                 | 3,904          | 13,745            | 3,457              | 6,608             | 10,831          | 24,199                               | 22,767            | 47,140             | 336                       | 4,485            | 26,211                               |
| New Jersey.....                    | 31             | 20                                 | 1,923          | 7,486             | 1,690              | 2,882             | 5,854           | 11,125                               | 11,342            | 22,028             | 65                        | 2,091            | 11,524                               |
| Pennsylvania.....                  | 21             | 11                                 | 861            | 2,760             | 737                | 1,248             | 2,286           | 5,321                                | 6,594             | 11,808             | 56                        | 766              | 3,985                                |
| East North Central.....            | 85             | 23                                 | 1,850          | 6,888             | 1,611              | 3,185             | 5,066           | 10,505                               | 10,424            | 20,964             | 142                       | 1,907            | 11,124                               |
| Ohio.....                          | 12             | 2                                  | 181            | 744               | 159                | 306               | 559             | 1,069                                | 935               | 2,026              | 6                         | 166              | 965                                  |
| Indiana.....                       | 6              | 4                                  | 262            | 973               | 236                | 475               | 813             | 1,206                                | 1,787             | 2,958              | 5                         | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Illinois.....                      | 47             | 11                                 | 1,059          | 4,025             | 909                | 1,789             | 2,766           | 6,360                                | 6,375             | 12,784             | 105                       | 1,006            | 5,984                                |
| Michigan.....                      | 6              | 1                                  | 109            | 382               | 93                 | 184               | 286             | 650                                  | 300               | 921                | 2                         | 150              | 976                                  |
| Wisconsin.....                     | 14             | 5                                  | 239            | 764               | 214                | 431               | 642             | 1,220                                | 1,027             | 2,275              | 24                        | 489              | 2,835                                |
| West North Central.....            | 14             | 6                                  | 893            | 3,134             | 808                | 1,547             | 2,596           | 4,857                                | 4,394             | 9,171              | 48                        | 1,034            | 4,729                                |
| Missouri.....                      | 10             | 5                                  | 783            | 2,785             | 716                | 1,385             | 2,339           | 4,150                                | 3,975             | 8,052              | 32                        | 1,014            | 4,679                                |
| South Atlantic.....                | 15             | 7                                  | 1,434          | 4,440             | 1,290              | 2,495             | 3,688           | 10,566                               | 8,438             | 17,953             | (D)                       | 1,529            | 8,197                                |
| East South Central.....            | 7              | 3                                  | 567            | 1,739             | 411                | 714               | 1,051           | 4,018                                | 4,632             | 9,017              | (D)                       |                  |                                      |
| West South Central.....            | 8              | 3                                  | 291            | 1,025             | 265                | 485               | 826             | 1,739                                | 1,444             | 3,002              | (D)                       |                  |                                      |
| West.....                          | 35             | 9                                  | 3,300          | 16,377            | 2,681              | 5,079             | 10,999          | 28,750                               | 18,424            | 45,817             | 670                       | 2,654            | 22,254                               |
| INDUSTRY 3171.—HANDBAGS AND PURSES |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                         | 545            | 262                                | 24,548         | 88,455            | 22,001             | 41,752            | 70,058          | 142,554                              | 137,107           | 280,343            | 1,890                     | 21,971           | 111,545                              |
| New England.....                   | 26             | 15                                 | 1,953          | 7,064             | 1,655              | 3,104             | 5,502           | 9,478                                | 9,106             | 18,770             | 94                        | 2,269            | 10,662                               |
| Massachusetts.....                 | 19             | 9                                  | 1,136          | 4,119             | 1,005              | 1,816             | 2,993           | 6,096                                | 4,995             | 11,128             | 38                        | 1,428            | 5,985                                |
| Middle Atlantic.....               | 440            | 214                                | 19,633         | 70,872            | 17,683             | 33,605            | 56,426          | 117,392                              | 113,573           | 231,485            | 1,453                     | 17,756           | 90,255                               |
| New York.....                      | 384            | 174                                | 14,685         | 53,552            | 13,130             | 24,895            | 42,267          | 88,840                               | 88,849            | 178,248            | 1,074                     | 13,357           | 69,911                               |
| New Jersey.....                    | 40             | 26                                 | 3,594          | 13,275            | 3,315              | 6,395             | 10,867          | 22,035                               | 19,046            | 41,021             | 256                       | 3,133            | 14,514                               |
| Pennsylvania.....                  | 16             | 14                                 | 1,354          | 4,045             | 1,238              | 2,315             | 3,292           | 6,517                                | 5,678             | 12,216             | 123                       | 1,266            | 5,830                                |
| North Central.....                 | 18             | 10                                 | 1,126          | 4,198             | 1,002              | 1,957             | 3,166           | 6,142                                | 5,292             | 11,461             | 93                        | 888              | 4,629                                |
| South.....                         | 39             | 13                                 | 983            | 2,880             | 893                | 1,683             | 2,393           | 4,405                                | 5,133             | 9,511              | 193                       | 601              | 3,206                                |
| West.....                          | 22             | 10                                 | 853            | 3,441             | 768                | 1,403             | 2,571           | 5,137                                | 4,003             | 9,116              | 57                        | 457              | 2,793                                |
| INDUSTRY 3172.—SMALL LEATHER GOODS |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                         | 340            | 117                                | 12,432         | 47,352            | 10,320             | 19,580            | 32,077          | 82,385                               | 76,603            | 159,013            | 1,262                     | 13,657           | 75,791                               |
| New England.....                   | 42             | 21                                 | 1,866          | 8,106             | 1,496              | 2,817             | 5,209           | 13,764                               | 10,004            | 23,776             | 211                       | 3,945            | 22,467                               |
| Massachusetts.....                 | 22             | 12                                 | 1,422          | 6,614             | 1,119              | 2,055             | 4,131           | 11,486                               | 7,523             | 19,011             | (D)                       | 2,409            | 13,222                               |
| Middle Atlantic.....               | 206            | 68                                 | 6,905          | 24,905            | 5,993              | 11,496            | 18,423          | 43,383                               | 46,527            | 90,393             | 579                       | 6,764            | 33,967                               |
| New York.....                      | 161            | 51                                 | 5,176          | 18,553            | 4,472              | 8,560             | 13,666          | 32,943                               | 30,566            | 63,518             | 417                       | 4,149            | 21,823                               |
| New Jersey.....                    | 36             | 14                                 | 1,351          | 4,914             | 1,182              | 2,264             | 3,703           | 8,396                                | 13,901            | 22,806             | 82                        | 1,958            | 9,282                                |
| Pennsylvania.....                  | 9              | 3                                  | 378            | 1,438             | 339                | 672               | 1,054           | 2,044                                | 2,060             | 4,069              | 80                        | 657              | 2,862                                |
| North Central.....                 | 44             | 18                                 | 2,726          | 11,269            | 2,034              | 3,790             | 6,351           | 20,923                               | 16,137            | 36,414             | 331                       | 2,257            | 15,843                               |
| Illinois.....                      | 20             | 10                                 | 745            | 2,814             | 646                | 1,180             | 1,994           | 4,919                                | 5,892             | 10,696             | 48                        | 696              | 4,186                                |
| South.....                         | 19             | 7                                  | 738            | 2,243             | 635                | 1,149             | 1,520           | 2,964                                | 2,756             | 5,903              | 123                       | 691              | 3,514                                |
| Florida.....                       | 5              | 3                                  | 328            | 840               | 277                | 497               | 613             | 900                                  | 658               | 1,680              | (D)                       |                  |                                      |
| West.....                          | 29             | 3                                  | 197            | 829               | 162                | 328               | 574             | 1,351                                | 1,179             | 2,527              | 18                        |                  |                                      |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>         | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|--------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|                                      | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|                                      | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3199.—LEATHER GOODS, N.E.C. |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                           | 370            | 67                                 | 4,989          | 18,742            | 4,209              | 8,507             | 13,668          | 32,730                               | 34,827            | 67,058             | 766                       | 5,405            | 31,227                               |
| New England.....                     | 37             | 9                                  | 530            | 1,797             | 430                | 779               | 1,300           | 3,255                                | 2,831             | 5,833              | 77                        | 500              | 2,475                                |
| Massachusetts....                    | 27             | 6                                  | 380            | 1,248             | 307                | 543               | 932             | 2,179                                | 2,143             | 4,078              | 34                        | 362              | 1,730                                |
| Middle Atlantic....                  | 121            | 19                                 | 1,450          | 5,853             | 1,222              | 2,539             | 4,070           | 10,020                               | 10,132            | 20,078             | 193                       | 2,325            | 14,100                               |
| New York.....                        | 94             | 16                                 | 1,208          | 4,929             | 1,033              | 2,136             | 3,480           | 8,291                                | 8,155             | 16,334             | 158                       | 1,906            | 11,736                               |
| Pennsylvania....                     | 18             | 2                                  | 197            | 771               | 153                | 318               | 471             | 1,377                                | 1,710             | 3,119              | 19                        | 299              | 1,760                                |
| East North Central.                  | 54             | 8                                  | 632            | 2,440             | 533                | 1,108             | 1,730           | 4,186                                | 3,630             | 7,826              | 106                       | 584              | 3,417                                |
| Ohio.....                            | 17             | 2                                  | 108            | 352               | 84                 | 183               | 251             | 676                                  | 729               | 1,399              | 20                        | 117              | 590                                  |
| Illinois.....                        | 26             | 5                                  | 453            | 1,839             | 389                | 779               | 1,256           | 2,998                                | 2,611             | 5,627              | 72                        | 359              | 2,136                                |
| West North Central.                  | 15             | 4                                  | 153            | 530               | 118                | 220               | 341             | 932                                  | 856               | 1,783              | 17                        | 77               | 393                                  |
| Missouri.....                        | 9              | 3                                  | 117            | 441               | 86                 | 168               | 267             | 714                                  | 656               | 1,368              | (D)                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| South Atlantic.....                  | 23             | 6                                  | 729            | 2,442             | 664                | 1,288             | 2,006           | 3,711                                | 4,431             | 8,160              | 70                        | 792              | 3,748                                |
| Georgia.....                         | 8              | 3                                  | 412            | 1,516             | 388                | 775               | 1,287           | 2,065                                | 2,489             | 4,578              | 28                        | 454              | 2,206                                |
| East South Central.                  | 14             | 5                                  | 525            | 1,858             | 461                | 897               | 1,504           | 3,850                                | 5,468             | 9,293              | 79                        | 305              | 1,497                                |
| Tennessee.....                       | 9              | 4                                  | 445            | 1,572             | 388                | 776               | 1,266           | 3,336                                | 4,913             | 8,216              | (D)                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| West South Central.                  | 36             | 5                                  | 403            | 1,417             | 329                | 716               | 1,059           | 2,889                                | 3,209             | 5,917              | 56                        | 231              | 1,575                                |
| Texas.....                           | 27             | 5                                  | 357            | 1,254             | 293                | 638               | 939             | 2,397                                | 2,929             | 5,339              | 46                        | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| West.....                            | 70             | 11                                 | 567            | 2,405             | 452                | 960               | 1,658           | 3,887                                | 4,270             | 8,168              | 168                       | 591              | 4,022                                |
| Colorado.....                        | 11             | 5                                  | 171            | 821               | 128                | 257               | 475             | 1,255                                | 1,506             | 2,744              | 96                        | 126              | 846                                  |
| California.....                      | 40             | 4                                  | 289            | 1,200             | 240                | 513               | 912             | 1,976                                | 2,083             | 4,076              | 53                        | 357              | 2,563                                |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3151, Leather Gloves: New England—Vermont, 2 (20-99); Massachusetts, 1 (1-19); Middle Atlantic—New Jersey, 1 (20-99); Pennsylvania, 4 (20-99); East North Central—Ohio, 3 (20-99); Indiana, 4 (263); Michigan, 3 (100-249); West North Central—Minnesota, 4 (20-99); Missouri, 1 (20-99); East South Central—Kentucky, 1 (20-99); Tennessee, 3 (100-249); West South Central—Arkansas, 1 (100-249); Mountain—Idaho, 2 (1-19); Pacific—Washington, 3 (20-99).

SIC 3161, Luggage: New England—Maine, 1 (1-19); New Hampshire, 1 (250-499); Rhode Island, 6 (509); Connecticut, 1 (20-99); West North Central—Minnesota, 1 (1-19); Iowa, 1 (20-99); Nebraska, 1 (1-19); Kansas, 1 (1-19); South Atlantic—Delaware, 2 (500-999); Maryland, 3 (194); Virginia, 1 (500-999); West Virginia, 1 (1-19); North Carolina, 2 (1-19); Georgia, 2 (100-249); Florida, 4 (20-99); East South Central—Kentucky, 2 (1-19); Tennessee, 4 (414); Mississippi, 1 (100-249); West South Central—Oklahoma, 1 (100-249); Texas, 7 (100-249); Mountain—Colorado, 4 (2,500-4,999); Arizona, 1 (1-19); Pacific—Washington, 4 (227); California, 26 (529).

SIC 3171, Handbags and Purses: New England—Maine, 1 (20-99); Vermont, 2 (250-499); Connecticut, 4 (250-499); East North Central—Indiana, 1 (1-19); Illinois, 6 (100); Wisconsin, 1 (100-249); West North Central—Missouri, 10 (500-999); South Atlantic—North Carolina, 2 (1-19); Georgia, 2 (100-249); Florida, 15 (487); East South Central—Tennessee, 9 (100-249); West South Central—Arkansas, 1 (20-99); Oklahoma, 5 (20-99); Texas, 5 (114); Mountain—Arizona, 1 (1-19); Pacific—Washington, 1 (1-19); California, 18 (812); Hawaii, 2 (1-19).

SIC 3172, Small Leather Goods: New England—Maine, 1 (1-19); Rhode Island, 15 (389); Connecticut, 4 (20-99); East North Central—Ohio, 9 (215); Indiana, 3 (20-99); Michigan, 4 (1-19); Wisconsin, 4 (500-999); West North Central—Missouri, 3 (1,000-2,499); Kansas, 1 (1-19); South Atlantic—Maryland, 2 (1-19); North Carolina, 2 (1-19); East South Central—Tennessee, 2 (1-19); West South Central—Arkansas, 1 (100-249); Oklahoma, 2 (100-249); Texas, 5 (100); Mountain—Colorado, 1 (1-19); Pacific—Washington, 1 (1-19); Oregon, 3 (20-99); California, 24 (150).

SIC 3199, Leather Goods, N.E.C.: New England—Maine, 1 (1-19); New Hampshire, 1 (20-99); Vermont, 1 (20-99); Rhode Island, 3 (20-99); Connecticut, 4 (1-19); Middle Atlantic—New Jersey, 9 (20-99); East North Central—Indiana, 3 (1-19); Wisconsin, 8 (20-99); West North Central—Minnesota, 1 (1-19); Iowa, 4 (20-99); Nebraska, 1 (1-19); South Atlantic—Maryland, 2 (100-249); Virginia, 2 (20-99); West Virginia, 1 (1-19); North Carolina, 5 (20-99); Florida, 5 (20-99); East South Central—Kentucky, 3 (20-99); Alabama, 1 (1-19); Mississippi, 1 (1-19); West South Central—Arkansas, 3 (1-19); Louisiana, 1 (1-19); Oklahoma, 5 (20-99); Mountain—Montana, 1 (1-19); Idaho, 3 (20-99); New Mexico, 2 (1-19); Arizona, 1 (1-19); Utah, 3 (20-99); Pacific—Oregon, 9 (20-99).

<sup>2</sup>See text regarding comparability of 1963 data with earlier years.

<sup>3</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.

TABLE 3. Detailed Statistics: 1963

| Item   | Leather gloves<br>(SIC 3151) | Luggage<br>(SIC 3161) | Handbags<br>and purses<br>(SIC 3171) | Small leather<br>goods<br>(SIC 3172) | Leather goods,<br>n.e.c.<br>(SIC 3199) |
|--|------------------------------|-----------------------|--------------------------------------|--------------------------------------|--|
| Primary product specialization ratio <sup>1</sup> .....        | .81                          | .95                   | .98                                  | .96                                  | .94                                    |
| Coverage ratio <sup>2</sup> .....                              | .89                          | .94                   | .98                                  | .92                                  | .82                                    |
| Establishments, total.....number..                             | 166                          | 379                   | 545                                  | 340                                  | 370                                    |
| With 1 to 19 employees.....do....                              | 79                           | 234                   | 283                                  | 223                                  | 303                                    |
| With 20 to 99 employees.....do....                             | 66                           | 102                   | 190                                  | 88                                   | 62                                     |
| With 100 employees or more.....do....                          | 21                           | 43                    | 72                                   | 29                                   | 5                                      |
| Proprietors and working partners.....do....                    | 92                           | 202                   | 258                                  | 191                                  | 265                                    |
| All employees (average for the year).....do....                | 7,718                        | 16,409                | 24,548                               | 12,432                               | 4,989                                  |
| Payroll (all employees), total for year.....\$1,000..          | 24,439                       | 62,853                | 88,455                               | 47,352                               | 18,742                                 |
| Production workers:  |                              |                       |                                      |                                      |  |
| Average for the year.....number..                              | 6,899                        | 14,134                | 22,001                               | 10,320                               | 4,209                                  |
| March.....do....   | 6,394                        | 13,184                | 23,289                               | 9,655                                | 4,121                                  |
| May.....do....   | 6,707                        | 14,092                | 18,794                               | 9,260                                | 4,195                                  |
| August.....do....  | 7,259                        | 14,877                | 22,805                               | 10,833                               | 4,257                                  |
| November.....do....  | 7,236                        | 14,383                | 23,116                               | 11,532                               | 4,263                                  |
| Man-hours.....1,000..  | 12,244                       | 26,340                | 41,752                               | 19,580                               | 8,507                                  |
| January-March.....do....                                       | 2,752                        | 6,070                 | 10,852                               | 4,453                                | 2,009                                  |
| April-June.....do....  | 3,000                        | 6,739                 | 9,069                                | 4,441                                | 2,102                                  |
| July-September.....do....                                      | 3,276                        | 6,819                 | 10,678                               | 5,055                                | 2,108                                  |
| October-December.....do....                                    | 3,216                        | 6,712                 | 11,153                               | 5,631                                | 2,288                                  |
| Wages.....\$1,000..  | 19,481                       | 46,715                | 70,058                               | 32,077                               | 13,668                                 |
| Cost of materials, etc., total.....do....                      | 46,694                       | 100,363               | 137,107                              | 76,603                               | 34,827                                 |
| Materials, parts, containers, and supplies consumed.....do.... | 34,295                       | 93,531                | 123,542                              | 62,449                               | 29,804                                 |
| Cost of resales.....do....                                     | 7,502                        | 4,405                 | 3,231                                | 5,952                                | 4,422                                  |
| Fuels consumed.....do....                                      | 138                          | 276                   | 188                                  | 201                                  | 87                                     |
| Electric energy:   |                              |                       |                                      |                                      |  |
| Purchased:   |                              |                       |                                      |                                      |  |
| Quantity.....million kw.-hrs..                                 | 7                            | 48                    | 39                                   | 28                                   | 10                                     |
| Cost.....\$1,000..   | 146                          | 781                   | 741                                  | 537                                  | 181                                    |
| Generated less sold.....million kw.-hrs..                      | -                            | (D)                   | -                                    | (D)                                  | (D)                                    |
| Contract work.....\$1,000..                                    | 4,613                        | 1,370                 | 9,405                                | 7,464                                | 333                                    |
| Value of shipments (including resales), total.....do....       | 80,640                       | 210,303               | 280,343                              | 159,013                              | 67,058                                 |
| Value of resales.....do....                                    | 9,201                        | 6,297                 | 4,989                                | 8,087                                | 6,641                                  |
| Value added by manufacture, adjusted.....do....                | 32,194                       | 112,796               | 142,554                              | 82,385                               | 32,730                                 |
| Manufacturers' inventories:                                    |                              |                       |                                      |                                      |  |
| Beginning of year, total.....do....                            | 16,532                       | 33,312                | 19,632                               | 21,192                               | 9,345                                  |
| Finished products.....do....                                   | 8,370                        | 14,745                | 8,875                                | 9,924                                | 4,349                                  |
| Work-in-process.....do....                                     | 3,347                        | 4,386                 | 3,431                                | 3,210                                | 839                                    |
| Materials, supplies, fuel, etc.....do....                      | 4,815                        | 14,180                | 7,326                                | 8,058                                | 4,157                                  |
| End of year, total.....do....                                  | 14,858                       | 36,292                | 18,808                               | 20,915                               | 9,527                                  |
| Finished products.....do....                                   | 6,828                        | 17,731                | 8,365                                | 9,764                                | 4,641                                  |
| Work-in-process.....do....                                     | 3,137                        | 4,256                 | 3,259                                | 3,345                                | 1,046                                  |
| Materials, supplies, fuel, etc.....do....                      | 4,893                        | 14,305                | 7,184                                | 7,806                                | 3,840                                  |
| Expenditures for plant and equipment, total.....do....         | 370                          | 2,159                 | 2,033                                | 1,352                                | 798                                    |
| New, total.....do....  | 328                          | 1,908                 | 1,890                                | 1,262                                | 766                                    |
| New structures and additions to plant.....do....               | 96                           | 139                   | 282                                  | 130                                  | 209                                    |
| New machinery and equipment.....do....                         | 232                          | 1,769                 | 1,608                                | 1,132                                | 557                                    |
| Used plant and equipment.....do....                            | 42                           | 251                   | 143                                  | 90                                   | 32                                     |
| Selected operating ratios:                                     |                              |                       |                                      |                                      |  |
| Payroll/Total employment.....                                  | 3,166                        | 3,830                 | 3,603                                | 3,809                                | 3,757                                  |
| Production workers/Total employment.....                       | .89                          | .86                   | .90                                  | .83                                  | .84                                    |
| Man-hours/Production workers.....                              | 1,775                        | 1,878                 | 1,898                                | 1,897                                | 2,021                                  |
| Production worker wages/Man-hours.....                         | 1.59                         | 1.76                  | 1.68                                 | 1.64                                 | 1.61                                   |
| Cost of materials and payrolls/Total value of shipments.....   | .88                          | .78                   | .80                                  | .78                                  | .80                                    |
| Cost of materials/Total value of shipments.....                | .58                          | .48                   | .49                                  | .48                                  | .52                                    |
| Adjusted value added/Total employment.....                     | 4,171                        | 6,847                 | 5,807                                | 6,627                                | 6,560                                  |
| Salaries and wages/Adjusted value added.....                   | .76                          | .56                   | .62                                  | .57                                  | .57                                    |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item                                 | Establishments, total | Establishments with an average of- |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--------------------------------------|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|                                      |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3151.—LEATHER GLOVES        |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..          | 166                   | 34                                 | 24               | 21                 | 39                 | 27                 | 17                   | 3                    | 1                    | -                        | -                        |
| All employees:                       |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                     | 7,718                 | 55                                 | 158              | 300                | 1,250              | 1,901              | 2,528                | <u>1,526</u>         | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                | 24,439                | 116                                | 455              | 779                | 4,309              | 6,118              | 7,561                | <u>5,105</u>         | (D)                  | -                        | -                        |
| Value added, adjusted.....do....     | 32,194                | 254                                | 1,018            | 1,392              | 5,805              | 7,841              | 10,099               | <u>5,785</u>         | (D)                  | -                        | -                        |
| Value of shipments.....do....        | 80,640                | 554                                | 2,968            | 2,889              | 12,762             | 19,631             | 25,000               | <u>16,836</u>        | (D)                  | -                        | -                        |
| Capital expenditures, new...do....   | 328                   | <u>16</u>                          | (D)              | 11                 | 67                 | 100                | 108                  | <u>26</u>            | (D)                  | -                        | -                        |
| INDUSTRY 3161.—LUGGAGE               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..          | 379                   | 113                                | 59               | 62                 | 70                 | 32                 | 39                   | 9                    | 1                    | -                        | 1                        |
| All employees:                       |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                     | 16,409                | 231                                | 410              | 831                | 2,207              | 2,150              | 4,202                | <u>6,378</u>         | (D)                  | -                        | (D)                      |
| Payroll.....\$1,000..                | 62,853                | 701                                | 1,504            | 3,411              | 7,669              | 7,739              | 15,165               | <u>26,664</u>        | (D)                  | -                        | (D)                      |
| Value added, adjusted.....do....     | 112,796               | 1,656                              | 2,516            | 5,806              | 12,825             | 12,599             | 24,965               | <u>52,431</u>        | (D)                  | -                        | (D)                      |
| Value of shipments.....do....        | 210,303               | 3,219                              | 5,317            | 11,915             | 23,602             | 23,398             | 54,734               | <u>88,118</u>        | (D)                  | -                        | (D)                      |
| Capital expenditures, new...do....   | 1,908                 | 19                                 | 52               | 49                 | 170                | 203                | 524                  | <u>891</u>           | (D)                  | -                        | (D)                      |
| INDUSTRY 3171.—HANDBAGS AND PURSES   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..          | 545                   | 117                                | 62               | 104                | 129                | 61                 | 56                   | 15                   | 1                    | -                        | -                        |
| All employees:                       |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                     | 24,548                | 229                                | 423              | 1,492              | 4,287              | 4,234              | 8,338                | <u>5,545</u>         | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                | 88,455                | 855                                | 1,372            | 5,294              | 15,000             | 15,740             | 29,259               | <u>20,935</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....     | 142,554               | 2,157                              | 2,301            | 8,225              | 25,656             | 24,880             | 45,353               | <u>33,982</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....        | 280,343               | 4,147                              | 5,927            | 16,256             | 48,075             | 49,076             | 91,984               | <u>64,878</u>        | (D)                  | -                        | -                        |
| Capital expenditures, new...do....   | 1,890                 | 27                                 | 35               | 94                 | 363                | 320                | 595                  | <u>456</u>           | (D)                  | -                        | -                        |
| INDUSTRY 3172.—SMALL LEATHER GOODS   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..          | 340                   | 106                                | 63               | 54                 | 56                 | 32                 | 23                   | 1                    | 5                    | -                        | -                        |
| All employees:                       |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                     | 12,432                | 191                                | 425              | 725                | 1,583              | 2,336              | <u>3,926</u>         | (D)                  | 3,246                | -                        | -                        |
| Payroll.....\$1,000..                | 47,352                | 647                                | 1,510            | 2,608              | 5,205              | 8,762              | <u>15,021</u>        | (D)                  | 13,599               | -                        | -                        |
| Value added, adjusted.....do....     | 82,385                | 1,666                              | 2,941            | 4,864              | 8,370              | 14,043             | <u>24,884</u>        | (D)                  | 25,617               | -                        | -                        |
| Value of shipments.....do....        | 159,013               | 4,324                              | 7,502            | 15,544             | 16,942             | 29,460             | <u>42,542</u>        | (D)                  | 42,699               | -                        | -                        |
| Capital expenditures, new...do....   | 1,262                 | 22                                 | 61               | 101                | 121                | 173                | <u>330</u>           | (D)                  | 454                  | -                        | -                        |
| INDUSTRY 3199.—LEATHER GOODS, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..          | 370                   | 177                                | 63               | 63                 | 44                 | 18                 | 4                    | 1                    | -                    | -                        | -                        |
| All employees:                       |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                     | 4,989                 | 327                                | 438              | 846                | 1,302              | 1,207              | 869                  | (D)                  | -                    | -                        | -                        |
| Payroll.....\$1,000..                | 18,742                | 1,032                              | 1,755            | 3,074              | 5,196              | 4,560              | <u>3,125</u>         | (D)                  | -                    | -                        | -                        |
| Value added, adjusted.....do....     | 32,730                | 2,475                              | 3,149            | 5,468              | 8,707              | 7,617              | <u>5,314</u>         | (D)                  | -                    | -                        | -                        |
| Value of shipments.....do....        | 67,058                | 4,967                              | 6,234            | 10,273             | 17,242             | 15,783             | <u>12,559</u>        | (D)                  | -                    | -                        | -                        |
| Capital expenditures, new...do....   | 766                   | 87                                 | 111              | 177                | 254                | 66                 | <u>71</u>            | (D)                  | -                    | -                        | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

n.e.c. Not elsewhere classified.

**TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958**

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year        | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|---------------------------------|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |                                 | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |                                 | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |                                 | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3151      | Leather gloves.....1963..       | 80,640             | 55,424           | 13,235             | 11,981                 | 81                                   | 61,942                             | 55,424                | 6,518                    | 89                            |
|           | .....1958..                     | 54,155             | 42,599           | 7,389              | 4,167                  | 85                                   | 49,319                             | 42,599                | 6,720                    | 86                            |
| 3161      | Luggage.....1963..              | 210,303            | 191,562          | 10,460             | 8,281                  | 95                                   | 204,755                            | 191,562               | 13,193                   | 94                            |
|           | .....1958..                     | 184,722            | 171,090          | 9,276              | 4,356                  | 95                                   | 180,481                            | 171,090               | 9,391                    | 95                            |
| 3171      | Handbags and purses.....1963..  | 280,343            | 261,269          | 6,598              | 12,476                 | 98                                   | 266,099                            | 261,269               | 4,830                    | 98                            |
|           | .....1958..                     | 231,110            | 210,769          | 9,375              | 10,966                 | 96                                   | 214,106                            | 210,769               | 3,337                    | 98                            |
| 3172      | Small leather goods.....1963..  | 159,013            | 141,211          | 6,270              | 11,532                 | 96                                   | 154,270                            | 141,211               | 13,059                   | 92                            |
|           | .....1958..                     | 138,052            | 117,709          | 11,416             | 8,927                  | 91                                   | 134,728                            | 117,709               | 17,019                   | 87                            |
| 3199      | Leather goods, n.e.c.....1963.. | 67,058             | 55,117           | 3,729              | 8,212                  | 94                                   | 67,066                             | 55,117                | 11,949                   | 82                            |
|           | .....1958..                     | 60,178             | 51,449           | 2,092              | 6,637                  | 96                                   | 61,198                             | 51,449                | 9,749                    | 84                            |

n.e.c. Not elsewhere classified.

**TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963**

In thousands of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c)

miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code | Class of products and miscellaneous receipts                            | All industries          | Leather gloves (SIC 3151) | Other industries               |                     |
|------------------|---|-------------------------|---------------------------|--------------------------------|---------------------|
|                  |   | LEATHER GLOVES INDUSTRY |                           |                                |                     |
| 31510            | Value of shipments.....   | (X)                     | 80,640                    | (X)                            |                     |
|                  | Dress and work gloves and mittens, all leather.....                     | 61,942                  | 55,424                    | <sup>1</sup> 6,518             |                     |
|                  | Secondary products.....   | (X)                     | 13,235                    | (X)                            |                     |
| 23811            | Dress gloves and mittens made from woven or purchased knit fabrics..... | (X)                     | 9,429                     | (X)                            |                     |
| 23812            | Work gloves and mittens made from woven or purchased knit fabrics.....  | (X)                     | 2,905                     | (X)                            |                     |
|                  | Other secondary products.....   | (X)                     | 901                       | (X)                            |                     |
|                  | Miscellaneous receipts, total.....                                      | (X)                     | 11,981                    | (X)                            |                     |
|                  | Resales.....  | (X)                     | 9,201                     | (X)                            |                     |
|                  | Other, including contract and commission receipts.....                  | (X)                     | 2,780                     | (X)                            |                     |
|                  |   | All industries          | Luggage (SIC 3161)        | Small leather goods (SIC 3172) | Other industries    |
| LUGGAGE INDUSTRY |   |                         |                           |                                |                     |
| 31610            | Value of shipments.....   | (X)                     | 210,303                   | (X)                            | (X)                 |
|                  | Suitcases, briefcases, bags, and musical instrument cases.....          | 204,755                 | 191,562                   | 2,048                          | <sup>2</sup> 11,145 |
|                  | Secondary products.....   | (X)                     | <sup>3</sup> 10,460       | (X)                            | (X)                 |
|                  | Miscellaneous receipts, total.....                                      | (X)                     | 8,281                     | (X)                            | (X)                 |
|                  | Resales.....  | (X)                     | 6,297                     | (X)                            | (X)                 |
|                  | Other, including contract and commission receipts.....                  | (X)                     | 1,984                     | (X)                            | (X)                 |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963—Continued

| Prod. class code                | Class of products and miscellaneous receipts                                 | All industries | Handbags and purses (SIC 3171)   | Small leather goods (SIC 3172) | Other industries    |
|---------------------------------|--|----------------|----------------------------------|--------------------------------|---------------------|
| HANDBAGS AND PURSES INDUSTRY    |  |                |                                  |                                |                     |
|                                 | Value of shipments.....  | (X)            | 280,343                          | (X)                            | (X)                 |
| 31710                           | Women's handbags and purses.....   | 266,099        | 261,269                          | 2,010                          | 2,820               |
|                                 | Secondary products.....  | (X)            | 6,598                            | (X)                            | (X)                 |
|                                 | Miscellaneous receipts, total.....   | (X)            | 12,476                           | (X)                            | (X)                 |
|                                 | Resales.....   | (X)            | 4,989                            | (X)                            | (X)                 |
|                                 | Other, including contract and commission receipts.....                       | (X)            | 7,487                            | (X)                            | (X)                 |
|                                 |  | All industries | Small leather goods (SIC 3172)   | Other industries               |                     |
| SMALL LEATHER GOODS INDUSTRY    |  |                |                                  |                                |                     |
|                                 | Total value of shipments.....  | (X)            | 159,013                          |                                | (X)                 |
| 31720                           | Personal leather goods, except handbags and purses.....                      | 154,270        | 141,211                          |                                | <sup>4</sup> 13,059 |
|                                 | Secondary products, total.....   | (X)            | 6,270                            |                                | (X)                 |
| 31610                           | Suitcases, briefcases, bags, and musical instrument cases.....               | (X)            | 2,048                            |                                | (X)                 |
| 31710                           | Women's handbags and purses.....   | (X)            | 2,010                            |                                | (X)                 |
|                                 | Other secondary products.....  | (X)            | 2,212                            |                                | (X)                 |
|                                 | Miscellaneous receipts, total.....   | (X)            | 11,532                           |                                | (X)                 |
|                                 | Resales.....   | (X)            | 8,087                            |                                | (X)                 |
|                                 | Other miscellaneous receipts including contract and commission receipts..... | (X)            | 3,445                            |                                | (X)                 |
|                                 |  | All industries | Leather goods, n.e.c. (SIC 3199) | Other industries               |                     |
| LEATHER GOODS, N.E.C., INDUSTRY |  |                |                                  |                                |                     |
|                                 | Value of shipments.....  | (X)            | 67,058                           |                                | (X)                 |
| 31990                           | Saddlery, harness and whip and other leather products, n.e.c.....            | 67,066         | 55,117                           |                                | <sup>5</sup> 11,949 |
|                                 | Secondary products.....  | (X)            | 3,729                            |                                | (X)                 |
|                                 | Miscellaneous receipts, total.....   | (X)            | 8,212                            |                                | (X)                 |
|                                 | Resales.....   | (X)            | 6,641                            |                                | (X)                 |
|                                 | Other miscellaneous receipts.....  | (X)            | 1,571                            |                                | (X)                 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>The following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing figures for individual companies: 2381, Fabric Dress and Work Gloves.

<sup>2</sup>The following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing figures for individual companies: 3941, Games and Toys.

<sup>3</sup>Includes the following product class which totals \$2 million or more but is withheld to avoid disclosing individual company figures: 39492, Other sporting and athletic goods.

<sup>4</sup>The following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing individual company figures: 3851, Ophthalmic Goods.

<sup>5</sup>Includes \$2 million or more made in industry 2387, Apparel Belts, but is withheld to avoid disclosing individual company figures.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                 |          |                 |
|--------------|---|-----------------|--|-----------------|----------|-----------------|
|              |   |                 | 1963   |                 | 1958     |                 |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 3151- --     | LEATHER DRESS, SEMIDRESS, AND WORK GLOVES, TOTAL <sup>1 2</sup> .....                           | 1,000 doz. pr.  | 2,720  | 61,942          | 2,272    | 49,319          |
| 31510 12     | Men's and boys':  |                 |  |                 |          |                 |
|              | As reported in the census of manufactures.....  | ..do.....       | 819  | 23,822          | 705      | 20,469          |
|              | As reported on Census Annual Form MA-23D <sup>3</sup> .....                                     | ..do.....       | 776  | (NA)            | 705      | (NA)            |
|              | Block cut.....  | ..do.....       | 579  | (NA)            | 556      | (NA)            |
|              | Table cut.....  | ..do.....       | 65   | (NA)            | 68       | (NA)            |
|              | All other.....  | ..do.....       | 132  | (NA)            | 81       | (NA)            |
| 31510 52     | Women's and children's:   |                 |  |                 |          |                 |
|              | As reported in the census of manufactures.....  | ..do.....       | 323  | 11,786          | 288      | 9,056           |
|              | As reported on Census Annual Form MA-23D <sup>3</sup> .....                                     | ..do.....       | 284  | (NA)            | 288      | (NA)            |
|              | Block cut.....  | ..do.....       | 114  | (NA)            | 154      | (NA)            |
|              | Table cut.....  | ..do.....       | 142  | (NA)            | 83       | (NA)            |
|              | All other.....  | ..do.....       | 28   | (NA)            | 51       | (NA)            |
| 31510 79     | All leather work gloves and mittens, including fur:   |                 |  |                 |          |                 |
|              | As reported in the census of manufactures.....  | ..do.....       | 1,417  | 22,660          | 1,279    | 19,794          |
|              | As reported on Census Annual Form MA-23D <sup>3</sup> .....                                     | ..do.....       | 1,481  | (NA)            | 1,279    | (NA)            |
|              | All-grain, except welders'.....   | ..do.....       | 954  | (NA)            | 906      | (NA)            |
|              | All-split, except welders'.....   | ..do.....       | 305  | (NA)            | 223      | (NA)            |
|              | Welders'.....   | ..do.....       | 155  | (NA)            | 113      | (NA)            |
|              | All other leather gloves and mittens.....   | ..do.....       | 67   | (NA)            | 37       | (NA)            |
| 31510 00     | Leather gloves and mittens, n.s.k.....  | ..do.....       | 4161   | 3,674           | (X)      | (X)             |
| 3161- --     | LUGGAGE, TOTAL <sup>5</sup> .....   |                 | (X)  | 204,755         | (X)      | 180,481         |
|              | Women's hand luggage (except zippered luggage):   |                 |  |                 |          |                 |
|              | As reported on Census Monthly Form M31E.....  | 1,000 units...  | 67,975   | 664,794         | (X)      | (X)             |
|              | As reported in the census of manufactures.....  | ..do.....       | 8,873  | 672,373         | 710,860  | 767,951         |
|              | Overnight, weekend, traincases, pullman, hat and shoe, wardrobe, overseas and hat boxes:        |                 |  |                 |          |                 |
| 31610 15     | Hard side (except molded).....  | ..do.....       | 5,090  | 25,626          | 710,860  | 767,951         |
| 31610 17     | Soft side (lock construction).....  | ..do.....       | 685  | 8,439           |          |                 |
| 31610 22     | Molded, all types.....  | ..do.....       | 2,959  | 36,713          |          |                 |
| 31610 25     | Other women's hand luggage, including cosmetic cases, etc., but excluding vanity cases.....     | ..do.....       | 139  | 1,595           |          |                 |
|              | Men's hand luggage (except zippered luggage):   |                 |  |                 |          |                 |
|              | As reported on Census Monthly Form M31E.....  | ..do.....       | 1,641  | 22,649          | (X)      | (X)             |
|              | As reported in the census of manufactures.....  | ..do.....       | 1,802  | 24,779          | 73,171   | 732,967         |
| 31610 35     | Hard side (except molded).....  | ..do.....       | 638  | 5,797           | 73,171   | 732,967         |
| 31610 37     | Soft side (lock construction).....  | ..do.....       | 219  | 3,770           |          |                 |
| 31610 32     | Molded, all types.....  | ..do.....       | 945  | 15,212          |          |                 |
| 31610 30     | Zippered hand luggage, men's and women's:   |                 |  |                 |          |                 |
|              | As reported in the census of manufactures.....  | ..do.....       | 6,313  | 30,792          | (7)      | (7)             |
|              | As reported on Census Monthly Form M31E.....  | ..do.....       | 5,076  | 29,530          | (X)      | (X)             |
| 31610 53     | Occupational luggage cases, sample cases, binocular and camera cases.....                       | ..do.....       | 1,226  | 7,294           | (NA)     | 14,308          |
| 31610 63     | Trunks, hand trunks, and lockers:   |                 |  |                 |          |                 |
|              | As reported in the census of manufactures.....  | ..do.....       | 961  | 5,950           | 664      | 5,291           |
|              | As reported on Census Monthly Form M31E.....  | ..do.....       | 963  | 6,344           | (X)      | (X)             |
|              | Brief bags, briefcases, envelopes and zippered ring binders, attache' cases, and catalog cases: |                 |  |                 |          |                 |
|              | As reported in the census of manufactures.....  | ..do.....       | 4,456  | 26,227          | 87,464   | 820,054         |
|              | As reported on Census Monthly Form M31E.....  | ..do.....       | 3,397  | 19,835          | (X)      | (X)             |
|              | Brief bags:   |                 |  |                 |          |                 |
|              | Split leather:  |                 |  |                 |          |                 |
| 31610 71     | As reported in the census of manufactures.....  | ..do.....       | 213  | 1,486           | (NA)     | (NA)            |
|              | As reported on Census Monthly Form M31E.....  | ..do.....       | 278  | (NA)            | (X)      | (X)             |
| 31610 72     | Top grain leather:  |                 |  |                 |          |                 |
|              | As reported in the census of manufactures.....  | ..do.....       | 124  | 1,663           | (NA)     | (NA)            |
|              | As reported on Census Monthly Form M31E.....  | ..do.....       | 142  | (NA)            | (X)      | (X)             |
| 31610 74     | Imitation leather:  |                 |  |                 |          |                 |
|              | As reported in the census of manufactures.....  | ..do.....       | 1,243  | 3,569           | (NA)     | (NA)            |
|              | As reported on Census Monthly Form M31E.....  | ..do.....       | 882  | (NA)            | (X)      | (X)             |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                   |                  |                     |
|--------------|---|-----------------|--|-------------------|------------------|---------------------|
|              |   |                 | 1963   |                   | 1958             |                     |
|              |   |                 | Quantity                                       | Value (\$1,000)   | Quantity         | Value (\$1,000)     |
| 3161- --     | LUGGAGE—Continued   |                 |  |                   |                  |                     |
|              | Brief bags, briefcases, envelopes and zippered ring binders attache' cases, and catalogue cases:—continued  |                 |  |                   |                  |                     |
|              | As reported on Census Monthly Form M31E—continued   |                 |  |                   |                  |                     |
|              | Envelopes (under arm cases and portfolios), and zippered ring binders:  |                 |  |                   |                  |                     |
| 31610 75     | As reported in the census of manufactures.....  | 1,000 units.... | 804  | 3,781             | (NA)             | (NA)                |
|              | As reported on Census Monthly Form M31E.....  | ...do.....      | 756  | (NA)              | (X)              | (X)                 |
|              | Attache' cases:   |                 |  |                   |                  |                     |
| 31610 76     | As reported in the census of manufactures.....  | ...do.....      | 2,002  | 14,817            | ( <sup>8</sup> ) | ( <sup>8</sup> )    |
|              | As reported on Census Monthly Form M31E.....  | ...do.....      | 1,269  | (NA)              | (X)              | (X)                 |
|              | Catalog cases:  |                 |  |                   |                  |                     |
| 31610 77     | As reported in the census of manufactures.....  | ...do.....      | 70   | 911               | ( <sup>8</sup> ) | ( <sup>8</sup> )    |
|              | As reported on Census Monthly Form M31E.....  | ...do.....      | 70   | (NA)              | (X)              | (X)                 |
|              | School bags:  |                 |  |                   |                  |                     |
| 31610 78     | As reported in the census of manufactures.....  | ...do.....      | 2,212  | 3,453             | (NA)             | (NA)                |
|              | As reported on Census Monthly Form M31E.....  | ...do.....      | 2,181  | 2,837             | (X)              | (X)                 |
| 31610 81     | Musical instrument cases.....   | ...do.....      | 1,429  | 6,608             | (X)              | 4,096               |
| 31610 98     | Other luggage.....  | .....           | (X)  | 11,699            | (X)              | <sup>8</sup> 19,570 |
| 31610 00     | Luggage, n.s.k.....   | .....           | (X)  | 15,580            | (X)              | 16,244              |
| 3171- --     | LADIES' AND CHILDREN'S HANDBAGS AND PURSES, TOTAL.....  | .....           | (X)  | 266,099           | (X)              | 214,106             |
| 31710 11     | All leather and chiefly leather.....  | 1,000 units.... | 14,720   | 67,646            | 15,685           | 72,826              |
| 31710 51     | Plastic or chiefly plastic.....   | ...do.....      | 70,571   | 140,563           | 48,131           | 75,260              |
| 31710 71     | Other materials, except precious metals.....  | ...do.....      | 10,312   | 30,945            | 11,909           | 36,065              |
| 31710 00     | Ladies' and children's handbags and purses, n.s.k.....  | .....           | (X)  | 26,945            | (X)              | 29,955              |
| 3172- --     | SMALL LEATHER GOODS, TOTAL <sup>5</sup> .....   | .....           | (X)  | 154,270           | (X)              | 134,728             |
|              | Travel kits (fitted and unfitted):  |                 |  |                   |                  |                     |
| 31720 31     | As reported in the census of manufactures.....  | 1,000 units.... | 2,467  | 7,090             | 1,620            | 3,934               |
|              | As reported on Census Monthly Survey M31E.....  | ...do.....      | 2,278  | 6,030             | ( <sup>9</sup> ) | ( <sup>9</sup> )    |
|              | Billfolds, wallets, and French purses:  |                 |  |                   |                  |                     |
|              | As reported in the census of manufactures.....  | ...do.....      | 46,207   | 68,566            | 36,663           | 57,034              |
|              | As reported on Census Monthly Survey M31E.....  | ...do.....      | 33,127   | 56,861            | ( <sup>9</sup> ) | ( <sup>9</sup> )    |
|              | Leather:  |                 |  |                   |                  |                     |
| 31720 11     | As reported in the census of manufactures.....  | ...do.....      | 32,109   | 58,157            | 27,608           | 52,102              |
|              | As reported on Census Monthly Survey M31E.....  | ...do.....      | 29,277   | (NA)              | ( <sup>9</sup> ) | ( <sup>9</sup> )    |
|              | Plastic:  |                 |  |                   |                  |                     |
| 31720 15     | As reported in the census of manufactures.....  | ...do.....      | 14,098   | 10,409            | 8,755            | 4,754               |
|              | As reported on Census Monthly Survey M31E.....  | ...do.....      | 3,850  | (NA)              | ( <sup>9</sup> ) | ( <sup>9</sup> )    |
| 31720 17     | Other materials.....  | ...do.....      | ( <sup>10</sup> )                              | ( <sup>10</sup> ) | 300              | 178                 |
|              | Other personal leather goods (key cases, cigarette cases, vanity cases, clutches, secretaries, pass cards, tobacco pouches, cosmetic bags, etc.): <sup>11</sup> |                 |  |                   |                  |                     |
| 31720 19     | As reported in the census of manufactures.....  | .....           | (X)  | 41,195            | (X)              | 11,622              |
|              | As reported on Census Monthly Survey M31E.....  | 1,000 units.... | (X)  | 28,152            | ( <sup>9</sup> ) | ( <sup>9</sup> )    |
|              | Jewelry boxes and cases, and instrument cases, except musical instrument cases, total.....  | ...do.....      | 31,731   | 25,737            | (X)              | 55,697              |
| 31720 53     | Jewelry boxes and cases.....  | ...do.....      | 29,235   | 19,791            | (X)              | 55,697              |
| 31720 55     | Instrument cases, except musical instrument cases.....  | ...do.....      | 2,496  | 5,946             | (X)              |                     |
| 31720 00     | Small leather goods, n.s.k.....   | .....           | (X)  | 11,682            | (X)              | 6,441               |

See footnotes at end of table.

TABLE 6A. **Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued**

| Product code | Product  | Value of shipments including interplant transfers (\$1,000) |        |
|--------------|--|---|--------|
|              |  | 1963  | 1958   |
| 3199- --     | LEATHER GOODS, N.E.C., TOTAL <sup>12</sup> ..... | 67,066  | 61,198 |
| 31990 11     | Leather novelties.....                           | 13,165  | 20,177 |
| 31990 31     | Saddlery and harness and accouterments.....      | 21,376  | 14,178 |
| 31990 98     | Other leather goods, n.e.c.....                  | 20,963  | 10,358 |
| 31990 00     | Leather goods, n.s.k.....                        | 11,562  | 16,485 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Establishments in this industry were requested to report value of shipments in 1963 and value of production in 1958. this change does not significantly affect the comparability of the data for the two years. (See text.)

<sup>2</sup>Includes only all-leather gloves and mittens. Leather and fabric combinations are classified in industry 2381, Fabric Dress and Work Gloves.

<sup>3</sup>The quantity data reported on Census Annual Form MA-23D. "Gloves and Mittens" represent quantity produced rather than quantity shipped.

<sup>4</sup>Quantity estimated, based on average quantity-value relationship of all other products.

<sup>5</sup>The reasons for the differences between the 1963 data collected in the census of manufactures and the current monthly survey M31E are discussed in the text. The M31E survey was not conducted in 1958, and all data for that year are from the census of manufactures.

<sup>6</sup>For 1963, data collected in the census of manufactures are not completely comparable to those collected on the census monthly survey M31E to the extent that vanity cases are included in the monthly survey data but are classified in industry 3172, Small Leather Goods, in the census of manufactures.

<sup>7</sup>For 1958, separate data were not collected for zippered hand luggage. Figures for this item were included with women's and men's hand luggage, as applicable. Therefore, the data are not comparable to the 1963 information. Detailed figures were collected in 1958 by type of material (leather, plastic, and other) and are published in the census of manufactures report for that year.

<sup>8</sup>For 1958, figures for attache' cases and catalog cases were not collected separately but were included with "Other Luggage."

<sup>9</sup>For 1963, quantity data for these items were also collected on Census Form M31E, Luggage, Briefcases, and Personal Leather Goods. Since this survey was begun in 1960, comparable data are not available for 1958. The 1958 data are as collected in the census of manufactures for that year.

<sup>10</sup>For 1963, no category was provided to report billfolds, wallets, and French purses of materials other than leather and plastic in either the census of manufactures or survey M31E. No information is available on where these were reported for 1963.

<sup>11</sup>The data as reported in the census of manufactures are not completely comparable to the data reported on survey M31E. On survey M31E, vanity cases are included with "Other women's hand luggage", product code 3161025, while on the census they are included in product code 3172019. The quantity of this item is not known.

<sup>12</sup>The products of this industry only include leather goods that are not classified in other industries. (See text.)

TABLE 6B. **Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958**

| Product code | Product and year                                      | Indexes (1954 = 100) |            |
|--------------|---|----------------------|------------|
|              |   | Production           | Unit value |
| 315-         | Leather gloves.....1963..                             | 123                  | 115        |
|              | .....1958..   | 103                  | 109        |
| 3151         | Leather dress, semidress, and work gloves.....1963..  | 123                  | 115        |
|              | .....1958..   | 103                  | 109        |
| 316-         | Luggage.....1963..                                    | 120                  | 115        |
|              | .....1958..   | 106                  | 104        |
| 3161         | Luggage.....1963..                                    | 120                  | 115        |
|              | .....1958..   | 106                  | 104        |
| 317-         | Handbags and purses.....1963..                        | 122                  | 116        |
|              | .....1958..   | 109                  | 108        |
| 3171         | Ladies' and childrens' handbags and purses.....1963.. | 117                  | 127        |
|              | .....1958..   | 107                  | 111        |
| 3172         | Small leather goods.....1963..                        | 130                  | 99         |
|              | .....1958..   | 112                  | 102        |



TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class   | 1963    | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958                 | 1954    | 1947    |
|-------|---|---------|-------------------|-------------------|-------------------|-------------------|----------------------|---------|---------|
| 31510 | Dress and work gloves and mittens, all leather <sup>2</sup> ..... | 61,942  | 45,156            | 52,881            | 55,112            | 57,163            | 49,319               | 43,601  | 61,362  |
| 31610 | Suitcases, briefcases, bags, and musical instrument cases.....    | 204,755 | 211,041           | 187,713           | 196,748           | (S)               | <sup>3</sup> 180,481 | 158,949 | 127,863 |
| 31710 | Women's handbags and purses.....                                  | 266,099 | 242,407           | 237,862           | 237,643           | 237,777           | 214,106              | 180,309 | 161,080 |
| 31720 | Personal leather goods, except handbags and purses.....           | 154,270 | 139,622           | 127,350           | 135,094           | 145,100           | <sup>4</sup> 134,728 | 121,314 | (NA)    |
| 31990 | Saddlery, harness and whip and other leather products, n.e.c..... | 67,066  | 67,809            | 63,777            | 63,194            | 63,912            | 61,198               | 54,332  | 64,056  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>2</sup>See text regarding comparability of 1963 data with earlier years.

<sup>3</sup>See footnote 3, table 1.

<sup>4</sup>See footnote 10, table 1.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area                      | Value of shipments | Product class and geographic area                                | Value of shipments | Product class and geographic area                                | Value of shipments |
|--|--------------------|--|--------------------|--|--------------------|
|  | 1963 <sup>1</sup>  |  | 1963 <sup>1</sup>  |  | 1963 <sup>1</sup>  |
| DRESS AND WORK GLOVES AND MITTENS, ALL LEATHER (31510) |                    | DRESS AND WORK GLOVES AND MITTENS, ALL LEATHER (31510)—Continued |                    | DRESS AND WORK GLOVES AND MITTENS, ALL LEATHER (31510)—Continued |                    |
| United States, total....                               | 61,942             | East North Central.....  | 17,585             | South.....   | 6,850              |
| Northeast.....   | 29,898             | Illinois.....  | 5,531              | Tennessee.....   | 2,880              |
| New York.....  | 28,275             | Wisconsin.....   | 8,122              | West.....  | 2,780              |
|  |                    | West North Central.....  | 4,829              | California.....  | 1,480              |
|  |                    | Iowa.....  | 2,704              |  |                    |

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 31510—Indiana, Michigan, Minnesota, and Arkansas.

TABLE 7A. Materials by Kind: 1963 and 1958

| Code                               | Material   | Unit of measure  | 1963     |                          | 1958     |                          |
|------------------------------------|--|------------------|----------|--------------------------|----------|--------------------------|
|                                    |  |                  | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3151.—LEATHER GLOVES      |  |                  |          |                          |          |                          |
|                                    | Materials, containers, and supplies, total.....  |                  | (X)      | 34,295                   | (X)      | 23,150                   |
| 311100                             | Finished leather.....  | 1,000 sq. ft.... | 76,890   | 22,192                   | 56,223   | 14,752                   |
| 220123                             | Broad-woven fabrics (cotton, wool, man-made fiber fabrics, etc.)...                            | 1,000 lin. yds.. | 2,938    | 1,752                    | (NA)     | 2,581                    |
| 225601                             | Knitted fabrics (cotton, wool, man-made fiber fabrics, etc.).....                              | ...do.....       | (NA)     | 1,221                    | (X)      | 4,065                    |
| 970099                             | All other materials and components, parts, containers, and supplies.....                       | .....            | (X)      | 4,620                    | (X)      | 1,752                    |
| 976000                             | Materials, containers, and supplies, n.s.k. <sup>1</sup> .....                                 | .....            | (X)      | 4,510                    | (X)      | 1,752                    |
| INDUSTRY 3161.—LUGGAGE             |  |                  |          |                          |          |                          |
|                                    | Materials, containers, and supplies, total.....  |                  | (X)      | 93,531                   | (X)      | 84,712                   |
| Broad-woven fabrics (piece goods): |  |                  |          |                          |          |                          |
| 221101                             | Cotton.....  | 1,000 lin. yds.. | (NA)     | 884                      | 2,421    | 1,180                    |
| 222101                             | Rayon and acetate.....   | ...do.....       | 9,704    | 3,541                    | 10,037   | 3,461                    |
| 220128                             | Other broad-woven fabrics.....   | ...do.....       | (NA)     | 1,640                    | 1,290    | 805                      |
| 229503                             | Coated, impregnated, or laminated plastics on cloth backing, including artificial leather..... | ...do.....       | (NA)     | 11,741                   | 13,446   | 11,125                   |
| 307913                             | Unsupported plastic film and sheeting, not backed, excluding packaging materials.....          | 1,000 sq. yds... | (NA)     | 6,988                    | 7,122    | 4,182                    |
| 311100                             | Finished leather.....  | 1,000 sq. ft.... | (NA)     | 3,150                    | 20,558   | 6,919                    |
| 342953                             | Trunk and luggage hardware, including locks.....   | .....            | (X)      | 9,790                    | (X)      | 43,337                   |
| 970090                             | Other materials, parts, containers, and supplies.....  | .....            | (X)      | 35,277                   | (X)      | 13,703                   |
| 976000                             | Materials, containers, and supplies, n.s.k. <sup>1</sup> .....                                 | .....            | (X)      | 20,520                   | (X)      | 13,703                   |

| Code                               | Material   | Unit of measure     | 1963     |                          | 1958     |                          | 1963     |                          | 1958     |                          |
|------------------------------------|--|---------------------|----------|--------------------------|----------|--------------------------|----------|--------------------------|----------|--------------------------|
|                                    |  |                     | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3171.—HANDBAGS AND PURSES |  |                     |          |                          |          |                          |          |                          |          |                          |
|                                    | Materials, containers, and supplies, total.....  |                     | (X)      | 123,542                  | (X)      | 106,397                  | (X)      | 62,449                   | (NA)     | (NA)                     |
| Broad-woven fabrics (piece goods): |  |                     |          |                          |          |                          |          |                          |          |                          |
| 221101                             | Cotton.....  | 1,000 lin. yds..... | 2,374    | 1,492                    | 1,874    | 1,660                    | (NA)     | ( <sup>2</sup> )         | (NA)     | (NA)                     |
| 222101                             | Rayon and acetate.....   | ...do.....          | 5,467    | 3,438                    | 7,686    | 3,408                    | (NA)     | ( <sup>2</sup> )         | (NA)     | (NA)                     |
| 220128                             | Other broad-woven fabrics.....   | ...do.....          | 2,602    | 2,966                    | 3,357    | 3,981                    | (NA)     | ( <sup>2</sup> )         | (NA)     | (NA)                     |
| 229503                             | Coated, impregnated, or laminated plastics on cloth backing, including artificial leather..... | ...do.....          | 22,563   | 24,732                   | 12,575   | 9,895                    | (NA)     | 5,044                    | (NA)     | (NA)                     |
| 307913                             | Unsupported plastic film and sheeting, not backed, excluding packaging materials.....          | 1,000 sq. yds       | 15,219   | 11,469                   | 11,445   | 7,449                    | 4,909    | 2,515                    | (NA)     | (NA)                     |
| 311100                             | Finished leather.....  | 1,000 sq. ft.       | 39,990   | 16,910                   | 53,428   | 25,559                   | 36,880   | 15,844                   | (NA)     | (NA)                     |
| 970099                             | Other materials, parts, containers, and supplies.....  | .....               | (X)      | 23,621                   | (X)      | 32,144                   | (X)      | 218,402                  | (NA)     | (NA)                     |
| 976000                             | Materials, containers, and supplies, n.s.k. <sup>1</sup> .....                                 | .....               | (X)      | 38,914                   | (X)      | 22,301                   | (X)      | 20,644                   | (NA)     | (NA)                     |

| Code                                 | Material   | Unit of measure  | 1963     |                          | 1958     |                          |
|--------------------------------------|--|------------------|----------|--------------------------|----------|--------------------------|
|                                      |  |                  | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3199.—LEATHER GOODS, N.E.C. |  |                  |          |                          |          |                          |
|                                      | Materials, containers, and supplies, total.....                |                  | (X)      | 29,804                   | (X)      | 24,322                   |
| 311100                               | Finished leather.....  | 1,000 sq. ft.... | 18,731   | 10,458                   | 21,652   | 8,368                    |
| 970099                               | Other materials, parts, containers, and supplies.....          | .....            | (X)      | 10,857                   | (X)      | 9,573                    |
| 976000                               | Materials, containers, and supplies, n.s.k. <sup>1</sup> ..... | .....            | (X)      | 8,489                    | (X)      | 6,381                    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested, and (b) total cost of materials reported for those establishments which failed to report cost of individual materials on "standard forms."

<sup>2</sup>Data for broad-woven fabrics are included in "Other materials, parts, containers, and supplies."



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Leather gloves<br>(SIC 3151) | Luggage<br>(SIC 3161) | Handbags<br>and purses<br>(SIC 3171) | Small leather<br>goods<br>(SIC 3172) | Leather goods,<br>n.e.c.<br>(SIC 3199) |
|---|------------------------------|-----------------------|--------------------------------------|--------------------------------------|--|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 236                          | 1,182                 | 1,000                                | 867                                  | 457                                    |
| Total cost of purchased fuels.....do....  | 112                          | 334                   | 254                                  | 231                                  | 192                                    |
| Bituminous coal, lignite, and anthracite:   |                              |                       |                                      |                                      |  |
| Quantity.....1,000 short tons..   | (S)                          | (S)                   | (S)                                  | (S)                                  | (S)                                    |
| Cost.....\$1,000..  | (S)                          | (S)                   | (S)                                  | (S)                                  | (S)                                    |
| Coke and breeze:  |                              |                       |                                      |                                      |  |
| Quantity.....1,000 short tons..   | -                            | -                     | -                                    | -                                    | -                                      |
| Cost.....\$1,000..  | -                            | -                     | -                                    | -                                    | -                                      |
| Fuel oil (distillate and residual):   |                              |                       |                                      |                                      |  |
| Quantity.....1,000 barrels of 42 gallons..  | (S)                          | 21                    | (S)                                  | 34                                   | (S)                                    |
| Cost.....\$1,000..  | (S)                          | 76                    | (S)                                  | 106                                  | (S)                                    |
| Gas (natural, manufactured, still, blast furnace,<br>and coke oven):  |                              |                       |                                      |                                      |  |
| Quantity.....million cu.ft..  | (S)                          | (S)                   | (S)                                  | (S)                                  | (S)                                    |
| Cost.....\$1,000..  | (S)                          | (S)                   | (S)                                  | (S)                                  | (S)                                    |
| Other fuels.....do....  | (S)                          | 74                    | 212                                  | 72                                   | 82                                     |
| Electric energy:  |                              |                       |                                      |                                      |  |
| Purchased:  |                              |                       |                                      |                                      |  |
| Quantity.....million kw.-hrs..  | 5                            | 47                    | 35                                   | 34                                   | 13                                     |
| Cost.....\$1,000..  | 124                          | 848                   | 746                                  | 636                                  | 265                                    |
| Generated less sold.....million kw.-hrs..   | -                            | -                     | -                                    | -                                    | -                                      |
| Aggregate horsepower of prime movers and electric motors<br>driven by purchased energy(December 31), total.....1,000 hp.. | 3                            | 25                    | 20                                   | 15                                   | 6                                      |
| Prime movers, total.....do....  | -                            | (Z)                   | (Z)                                  | 1                                    | -                                      |
| Driving generators.....do....   | -                            | (Z)                   | -                                    | 1                                    | -                                      |
| Not driving generators.....do....   | -                            | (Z)                   | (Z)                                  | (Z)                                  | -                                      |
| Electric motors, total.....do....   | 3                            | 25                    | 20                                   | 14                                   | 6                                      |
| Driven by purchased energy.....do....   | 3                            | 25                    | 20                                   | 14                                   | 6                                      |
| Driven by energy generated at establishment.....do....  | -                            | -                     | -                                    | -                                    | -                                      |
| Aggregate horsepower per 100 production workers.....  | 55                           | 184                   | 92                                   | 130                                  | 142                                    |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3151-                          | LEATHER GLOVES   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....                                   | 166                     | 7,718          | 24,439            | 6,899              | 12,244            | 19,481          | 32,194   | 46,694                      | 80,640                       | 328                                 |
|                                | Establishments with—                                   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.....                        | 122                     | 3,941          | 12,151            | 3,548              | 6,165             | 9,905           | 18,170   | 23,467                      | 42,139                       | 200                                 |
|                                | 75-89% specialization.....                             | 10                      | 360            | 1,193             | 332                | 607               | 1,007           | 2,046  | 2,345                       | 4,348                        | 19                                  |

# Estimating the Impact of Climate Change on the Hydrological Cycle

Journal of Climate

Volume 18, Number 6, 1004–1015, 2005  
 © 2005 American Meteorological Society

Manuscript received 12 October 2004, in final form 12 February 2005  
 Original manuscript received 12 October 2004, in final form 12 February 2005

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© 2005 American Meteorological Society  
 ISSN: 1525-7558

DOI: 10.1175/JCLI18101004

Journal of Climate

Volume 18, Number 6, 1004–1015, 2005

© 2005 American Meteorological Society

ISSN: 1525-7558

DOI: 10.1175/JCLI18101004

Journal of Climate

Volume 18, Number 6, 1004–1015, 2005

© 2005 American Meteorological Society

ISSN: 1525-7558

DOI: 10.1175/JCLI18101004

Journal of Climate

Volume 18, Number 6, 1004–1015, 2005

© 2005 American Meteorological Society

ISSN: 1525-7558

DOI: 10.1175/JCLI18101004

Journal of Climate

Volume 18, Number 6, 1004–1015, 2005

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## Stone, Clay, and Glass Products

- 32A Glass products
- 32B Cement and structural clay products
- 32C Pottery and related products
- 32D Concrete, plaster, and cut stone products
- 32E Abrasive, asbestos, and miscellaneous nonmetallic mineral products

This major group includes establishments engaged in manufacturing flat glass and other glass products, cement, structural clay products, pottery, concrete, and gypsum products, cut stone products, abrasive and asbestos products, etc., from materials taken principally from the earth in the form of stone, clay, and sand. When separate reports are available for mines and quarries operated by manufacturing establishments classified in this major group, the mining activities are classified in mining industries; when separate reports are not available, the mining activities are classified with the manufacturing operations and classified as manufacturing industries.

# STONE, CLAY, AND GLASS PRODUCTS: MAJOR GROUP 32

Value Added by Manufacture by State: 1963

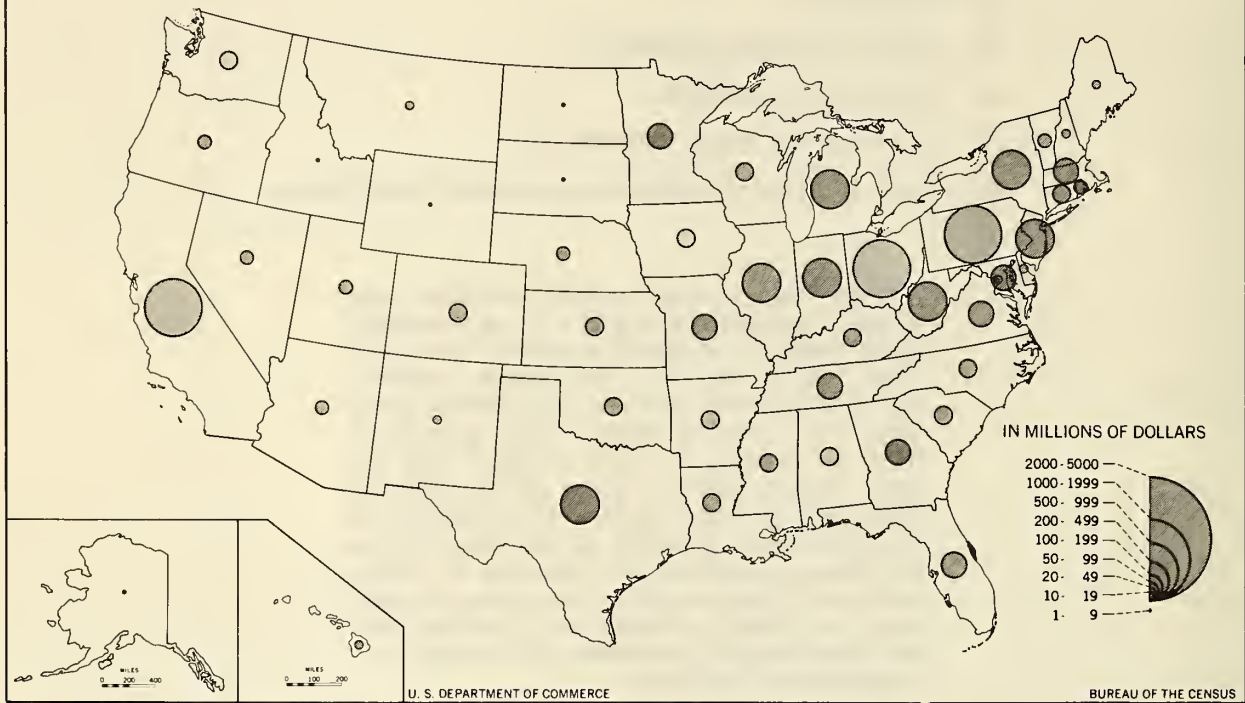




TABLE 1. General Statistics: 1963 and Earlier Years

| Year and item <sup>1</sup>                      | Establishments |                                    | All employees <sup>2</sup> |                   | Production workers |                   |                 | Value added by manufacture, adjusted <sup>3</sup> | Cost of materials <sup>4</sup> | Value of shipments <sup>4</sup> | Capital expenditures, new <sup>5</sup> |
|---|----------------|------------------------------------|----------------------------|-------------------|--------------------|-------------------|-----------------|---|--------------------------------|---------------------------------|--|
|   | Total (number) | With 20 employees or more (number) | Total (number)             | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |   |                                |                                 |  |
| <b>ALL MANUFACTURING ESTABLISHMENTS, TOTAL:</b> |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 . . . . .                                  | 16 185         | 4 839                              | 602 764                    | 3 462 465         | 455 818            | 928 948           | 2 350 223       | 7 043 987   | 5 287 768                      | 12 289 091                      | 607 581                                |
| 1958 . . . . .                                  | 15 305         | 4 637                              | 574 790                    | 2 754 013         | 446 009            | 884 124           | 1 935 028       | 5 533 392   | (NA)                           | 9 726 543                       | 488 645                                |
| 1954 . . . . .                                  | (NA)           | (NA)                               | 504 436                    | 2 023 427         | 412 031            | 827 012           | 1 496 029       | 3 866 229   | (NA)                           | (NA)                            | 300 647                                |
| <b>ADMINISTRATIVE AND AUXILIARY UNITS:</b>      |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 . . . . .                                  | 347            | 184                                | 28 905                     | 249 970           | (x)                | (x)               | (x)             | (x)   | (x)                            | (x)                             | (x)                                    |
| 1958 . . . . .                                  | 258            | 154                                | 22 268                     | 167 640           | (x)                | (x)               | (x)             | (x)   | (x)                            | (x)                             | (x)                                    |
| 1954 . . . . .                                  | (NA)           | (NA)                               | 12 622                     | 85 342            | (x)                | (x)               | (x)             | (x)   | (x)                            | (x)                             | (x)                                    |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 . . . . .                                  | 15 838         | 4 655                              | 573 859                    | 3 212 495         | 455 818            | 928 948           | 2 350 223       | 7 043 987   | 5 287 768                      | 12 289 091                      | 607 581                                |
| 1958 . . . . .                                  | 15 047         | 4 484                              | 552 522                    | 2 586 373         | 446 009            | 884 124           | 1 935 028       | 5 533 392   | (NA)                           | 9 726 543                       | 488 645                                |
| 1954 . . . . .                                  | 11 162         | (NA)                               | 491 814                    | 1 938 085         | 412 031            | 827 012           | 1 496 029       | 3 866 229   | (NA)                           | (NA)                            | 300 647                                |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1962 . . . . .                                  | (NA)           | (NA)                               | 573 012                    | 3 102 469         | 463 152            | 939 363           | 2 280 194       | 6 589 135   | 4 973 160                      | 11 524 053                      | 549 100                                |
| 1961 . . . . .                                  | (NA)           | (NA)                               | 567 250                    | 2 937 948         | 456 932            | 923 413           | 2 152 895       | 6 287 566   | 4 766 783                      | 11 011 124                      | 554 259                                |
| 1960 . . . . .                                  | (NA)           | (NA)                               | 581 390                    | 2 950 031         | 474 060            | 959 578           | 2 187 224       | 6 369 831   | (NA)                           | (NA)                            | 540 891                                |
| 1959 . . . . .                                  | (NA)           | (NA)                               | 595 821                    | 2 938 951         | 487 532            | 980 737           | 2 199 379       | 6 504 384   | (NA)                           | (NA)                            | 557 009                                |
| 1957 . . . . .                                  | (NA)           | (NA)                               | 525 597                    | 2 354 451         | 437 099            | 869 338           | 1 802 722       | 4 980 460   | (NA)                           | (NA)                            | 655 457                                |
| 1956 . . . . .                                  | (NA)           | (NA)                               | 535 998                    | 2 344 539         | 450 087            | 911 127           | 1 814 726       | 5 035 547   | (NA)                           | (NA)                            | 724 835                                |
| 1955 . . . . .                                  | (NA)           | (NA)                               | 524 729                    | 2 177 539         | 442 295            | 899 357           | 1 703 041       | 4 637 225   | (NA)                           | (NA)                            | 460 865                                |
| 1953 . . . . .                                  | (NA)           | (NA)                               | 506 439                    | 1 948 876         | 430 888            | 873 011           | 1 538 450       | 3 752 912   | (NA)                           | (NA)                            | 281 715                                |
| 1952 . . . . .                                  | 10 435         | (NA)                               | 510 353                    | 1 841 507         | 435 680            | 895 027           | 1 456 600       | 3 531 294   | (NA)                           | (NA)                            | 250 766                                |
| 1951 . . . . .                                  | 10 700         | (NA)                               | 529 069                    | 1 827 834         | 455 373            | 945 593           | 1 458 753       | 3 560 697   | (NA)                           | (NA)                            | 322 702                                |
| 1950 . . . . .                                  | 9 707          | (NA)                               | 490 568                    | 1 529 473         | 418 153            | 862 831           | 1 220 126       | 3 138 263   | (NA)                           | (NA)                            | 222 652                                |
| 1949 . . . . .                                  | (NA)           | (NA)                               | 453 192                    | 1 323 196         | 387 496            | 778 449           | 1 044 203       | 2 450 931   | (NA)                           | (NA)                            | 190 986                                |
| 1947 . . . . .                                  | 11 643         | (NA)                               | 461 037                    | 1 206 903         | 404 930            | 838 320           | 991 966         | 2 298 521   | (NA)                           | (NA)                            | 285 066                                |
| 1939 . . . . .                                  | 6 678          | (NA)                               | 313 467                    | 410 365           | 267 094            | (NA)              | 307 248         | 856 323   | (NA)                           | (NA)                            | (NA)                                   |
| 1937 . . . . .                                  | 6 114          | (NA)                               | 330 709                    | 419 452           | 297 404            | (NA)              | 345 524         | 860 063   | (NA)                           | (NA)                            | (NA)                                   |
| 1935 . . . . .                                  | 5 846          | (NA)                               | 265 065                    | 292 773           | 234 781            | (NA)              | 227 777         | 599 530   | (NA)                           | (NA)                            | (NA)                                   |
| 1933 . . . . .                                  | 4 657          | (NA)                               | (NA)                       | (NA)              | 175 145            | (NA)              | 144 078         | 404 148   | (NA)                           | (NA)                            | (NA)                                   |
| 1931 . . . . .                                  | 6 549          | (NA)                               | (NA)                       | (NA)              | 233 744            | (NA)              | 249 551         | 615 728   | (NA)                           | (NA)                            | (NA)                                   |
| 1929 . . . . .                                  | 8 688          | (NA)                               | 371 950                    | 548 216           | 330 708            | (NA)              | 435 865         | 1 053 908   | (NA)                           | (NA)                            | (NA)                                   |
| 1927 . . . . .                                  | 8 574          | (NA)                               | 389 733                    | 574 850           | 348 142            | (NA)              | 463 015         | 1 022 786   | (NA)                           | (NA)                            | (NA)                                   |
| 1925 . . . . .                                  | 8 391          | (NA)                               | 391 797                    | 565 247           | 351 136            | (NA)              | 466 357         | 1 042 455   | (NA)                           | (NA)                            | (NA)                                   |
| 1923 . . . . .                                  | 8 209          | (NA)                               | 388 603                    | 543 474           | 348 578            | (NA)              | 450 660         | 990 128   | (NA)                           | (NA)                            | (NA)                                   |
| 1921 . . . . .                                  | 8 227          | (NA)                               | 282 113                    | 377 080           | 251 157            | (NA)              | 305 449         | 605 136   | (NA)                           | (NA)                            | (NA)                                   |
| 1919 . . . . .                                  | 12 326         | (NA)                               | 330 605                    | 396 901           | 294 590            | (NA)              | 323 718         | 680 214   | (NA)                           | (NA)                            | (NA)                                   |
| 1914 . . . . .                                  | 14 693         | (NA)                               | 404 738                    | 248 920           | 335 325            | (NA)              | 206 161         | 379 247   | (NA)                           | (NA)                            | (NA)                                   |
| 1909 . . . . .                                  | 16 207         | (NA)                               | 371 734                    | 223 715           | 343 864            | (NA)              | 189 992         | 352 306   | (NA)                           | (NA)                            | (NA)                                   |
| 1904 . . . . .                                  | 10 744         | (NA)                               | 304 725                    | 170 693           | 285 740            | (NA)              | 148 846         | 270 915   | (NA)                           | (NA)                            | (NA)                                   |
| 1899 . . . . .                                  | 11 471         | (NA)                               | 242 873                    | 115 553           | 230 013            | (NA)              | 102 351         | 185 273   | (NA)                           | (NA)                            | (NA)                                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>Figures for establishments primarily engaged in producing ready-mixed concrete are excluded for 1954, 1947, and 1939. In 1958, the value added in ready-mixed concrete establishments represented 12 percent of the total value added for the stone, clay, and glass products, and in 1937, less than 1 percent. As indicated in the introductory text, certain quarries, operated as parts of manufacturing establishments, are included in the stone, clay and glass products industries but separate figures for such mining activity were also obtained in the last three censuses. The value added at quarries operated in conjunction with these manufacturing establishments (including value added in producing mineral products consumed in the same establishment) was \$321,240 thousand in 1963; \$360,992 thousand in 1958; and \$193,636 thousand in 1954. Further detail on such mining operations are included in the Census of Mineral Industries reports.

<sup>2</sup>The figures for 1939 through 1954 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>3</sup>For the period 1954 to 1963, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products,

materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, with-out adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year.

<sup>4</sup>The total value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry classification. For more complete explanation, see Introduction.

<sup>5</sup>The figures for 1958 to 1963 include expenditures for plants under construction and not yet in operation.

<sup>6</sup>Similar data are shown for the years 1949 to 1963 in the annual survey or manufactures volumes. Data for these establishments are not available for the years 1955 to 1957, 1959-1962 or prior to 1949.

<sup>7</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Code | Industry group and geographic area       | 1963              |                                       |                   |                      |                    |                      |                    |   |  | 1958                      |   |
|------|--|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|---|--|---------------------------|---|
|      |  | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted<br>(\$1,000) | Capital expenditures, new<br>(\$1,000) | All employees<br>(number) | Value added by manufacture, adjusted<br>(\$1,000) |
|      |  | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |  |                           |   |
| 32   | STONE, CLAY, & GLASS PRODUCTS, TOTAL     | 15 838            | 4 655                                 | 573 859           | 3 212 495            | 455 818            | 928 948              | 2 350 223          | 7 043 987   | 607 581                                | 552 522                   | 5 533 392   |
|      | NORTHEAST . . . . .                      | 3 515             | 1 106                                 | 155 946           | 913 655              | 124 176            | 250 077              | 667 631            | 1 792 348   | 127 228                                | 159 918                   | 1 508 226   |
|      | NEW ENGLAND . . . . .                    | 798               | 226                                   | 25 374            | 150 284              | 19 122             | 39 366               | 100 333            | 300 755   | 19 735                                 | 25 649                    | 226 180   |
|      | MAINE . . . . .                          | 58                | 20                                    | 1 192             | 5 651                | 926                | 1 937                | 3 931              | 11 690  | 890                                    | 1 049                     | 10 083  |
|      | NEW HAMPSHIRE . . . . .                  | 64                | 17                                    | 1 758             | 8 714                | 1 385              | 2 878                | 6 189              | 16 784  | 1 427                                  | 1 451                     | 11 197  |
|      | VERMONT . . . . .                        | 120               | 35                                    | 3 068             | 15 055               | 2 617              | 5 529                | 12 359             | 25 323  | 1 608                                  | 4 200                     | 26 623  |
|      | MASSACHUSETTS . . . . .                  | 308               | 84                                    | 10 773            | 69 868               | 7 469              | 15 096               | 41 479             | 142 092   | 8 479                                  | 11 028                    | 107 065   |
|      | RHODE ISLAND . . . . .                   | 52                | 12                                    | 1 907             | 10 734               | 1 522              | 3 156                | 7 871              | 23 152  | 1 534                                  | 1 919                     | 17 162  |
|      | CONNECTICUT . . . . .                    | 196               | 60                                    | 6 676             | 40 262               | 5 203              | 10 770               | 28 504             | 81 714  | 5 797                                  | 6 002                     | 54 050  |
|      | MIDDLE ATLANTIC . . . . .                | 2 717             | 880                                   | 130 572           | 763 371              | 105 054            | 210 711              | 567 298            | 1 491 593   | 107 493                                | 134 269                   | 1 282 046   |
|      | NEW YORK . . . . .                       | 1 052             | 267                                   | 38 806            | 240 792              | 29 866             | 60 641               | 169 686            | 475 186   | 31 642                                 | 38 992                    | 384 423   |
|      | NEW JERSEY . . . . .                     | 573               | 224                                   | 34 458            | 198 330              | 27 799             | 56 407               | 147 190            | 390 433   | 32 926                                 | 32 550                    | 304 222   |
|      | PENNSYLVANIA . . . . .                   | 1 092             | 389                                   | 57 308            | 324 276              | 47 389             | 93 663               | 250 422            | 625 974   | 42 925                                 | 62 727                    | 593 401   |
|      | NORTH CENTRAL . . . . .                  | 5 141             | 1 361                                 | 190 032           | 1 101 044            | 151 306            | 306 562              | 808 503            | 2 458 202   | 165 258                                | 189 900                   | 2 027 042   |
|      | EAST NORTH CENTRAL . . . . .             | 3 662             | 1 054                                 | 149 960           | 866 585              | 121 139            | 244 096              | 646 715            | 1 902 108   | 126 848                                | 152 716                   | 1 571 404   |
|      | OHIO . . . . .                           | 1 077             | 398                                   | 61 629            | 353 138              | 50 330             | 99 215               | 267 267            | 740 043   | 48 185                                 | 64 434                    | 623 881   |
|      | INDIANA . . . . .                        | 555               | 162                                   | 25 182            | 135 621              | 20 865             | 42 122               | 103 865            | 277 967   | 18 938                                 | 26 811                    | 256 101   |
|      | ILLINOIS . . . . .                       | 872               | 259                                   | 37 652            | 221 548              | 30 451             | 62 671               | 167 316            | 488 863   | 30 177                                 | 37 724                    | 418 759   |
|      | MICHIGAN . . . . .                       | 732               | 150                                   | 17 838            | 111 829              | 13 758             | 28 346               | 77 945             | 308 198   | 22 898                                 | 17 425                    | 207 976   |
|      | WISCONSIN . . . . .                      | 426               | 85                                    | 7 659             | 44 449               | 5 735              | 11 742               | 30 322             | 87 037  | 6 650                                  | 6 322                     | 64 687  |
|      | WEST NORTH CENTRAL . . . . .             | 1 479             | 307                                   | 40 072            | 234 459              | 30 167             | 62 466               | 161 788            | 556 094   | 38 410                                 | 37 184                    | 455 638   |
|      | MINNESOTA . . . . .                      | 362               | 72                                    | 10 961            | 70 314               | 7 096              | 14 572               | 39 035             | 158 740   | 7 166                                  | 8 298                     | 104 583   |
|      | IOWA . . . . .                           | 310               | 59                                    | 5 901             | 33 383               | 4 699              | 10 162               | 24 809             | 96 224  | 8 697                                  | 5 888                     | 83 240  |
|      | MISSOURI . . . . .                       | 382               | 91                                    | 13 119            | 75 756               | 10 479             | 20 919               | 56 946             | 170 390   | 9 778                                  | 14 113                    | 160 219   |
|      | NORTH DAKOTA . . . . .                   | 42                | 6                                     | 462               | 2 191                | 342                | 706                  | 1 430              | 4 545   | 446                                    | 383                       | 3 507   |
|      | SOUTH DAKOTA . . . . .                   | 68                | 11                                    | 762               | 3 738                | 598                | 1 276                | 2 604              | 7 587   | 888                                    | 601                       | 4 769   |
|      | NEBRASKA . . . . .                       | 122               | 22                                    | 2 228             | 11 027               | 1 746              | 3 694                | 7 965              | 31 225  | 3 478                                  | 1 813                     | 22 576  |
|      | KANSAS . . . . .                         | 193               | 46                                    | 6 639             | 38 050               | 5 207              | 11 137               | 28 999             | 87 383  | 7 957                                  | 6 088                     | 76 744  |
|      | SOUTH . . . . .                          | 4 431             | 1 468                                 | 157 129           | 759 111              | 127 088            | 264 252              | 564 955            | 1 802 960   | 215 297                                | 140 599                   | 1 282 984   |
|      | SOUTH ATLANTIC . . . . .                 | 2 148             | 767                                   | 83 190            | 399 165              | 68 085             | 140 248              | 301 283            | 893 833   | 105 698                                | 74 513                    | 614 085   |
|      | DELAWARE . . . . .                       | 39                | 13                                    | 822               | 3 992                | 641                | 1 358                | 2 981              | 10 706  | 965                                    | 775                       | 7 049   |
|      | MARYLAND . . . . .                       | 205               | 82                                    | 9 604             | 55 837               | 7 757              | 16 477               | 41 750             | 127 212   | 21 016                                 | 8 486                     | 94 268  |
|      | DISTRICT OF COLUMBIA . . . . .           | 15                | 11                                    | 846               | 5 132                | 688                | 1 445                | 3 512              | 11 402  | 1 359                                  | 676                       | 7 037   |
|      | VIRGINIA . . . . .                       | 271               | 111                                   | 9 608             | 43 953               | 7 987              | 16 771               | 32 782             | 107 463   | 10 243                                 | 7 786                     | 75 839  |
|      | WEST VIRGINIA . . . . .                  | 177               | 88                                    | 20 342            | 108 647              | 17 933             | 35 020               | 90 376             | 219 148   | 11 001                                 | 21 590                    | 156 607   |
|      | NORTH CAROLINA . . . . .                 | 330               | 126                                   | 10 542            | 43 654               | 8 538              | 17 865               | 31 179             | 90 200  | 23 298                                 | 7 897                     | 50 504  |
|      | SOUTH CAROLINA . . . . .                 | 154               | 51                                    | 6 777             | 31 036               | 5 656              | 11 962               | 23 889             | 67 757  | 8 566                                  | 5 306                     | 44 748  |
|      | GEORGIA . . . . .                        | 356               | 122                                   | 12 068            | 50 983               | 9 857              | 20 076               | 37 923             | 117 370   | 17 895                                 | 9 575                     | 72 137  |
|      | FLORIDA . . . . .                        | 601               | 163                                   | 12 581            | 55 931               | 9 028              | 19 274               | 36 891             | 142 575   | 11 355                                 | 12 422                    | 105 896   |
|      | EAST SOUTH CENTRAL . . . . .             | 944               | 285                                   | 32 010            | 156 017              | 25 849             | 53 306               | 115 334            | 389 928   | 34 688                                 | 28 128                    | 264 154   |
|      | KENTUCKY . . . . .                       | 233               | 51                                    | 5 920             | 29 857               | 4 691              | 9 554                | 21 345             | 65 168  | 7 732                                  | 5 443                     | 47 081  |
|      | TENNESSEE . . . . .                      | 295               | 92                                    | 13 873            | 71 698               | 11 266             | 23 442               | 53 407             | 177 211   | 17 277                                 | 10 423                    | 96 517  |
|      | ALABAMA . . . . .                        | 266               | 88                                    | 7 529             | 34 651               | 6 065              | 12 296               | 25 833             | 94 245  | 6 135                                  | 8 250                     | 84 371  |
|      | MISSISSIPPI . . . . .                    | 150               | 54                                    | 4 688             | 19 811               | 3 827              | 8 014                | 14 749             | 53 304  | 3 544                                  | 4 012                     | 36 185  |
|      | WEST SOUTH CENTRAL . . . . .             | 1 339             | 416                                   | 41 929            | 203 929              | 33 154             | 70 698               | 148 338            | 519 199   | 74 911                                 | 37 958                    | 404 745   |
|      | ARKANSAS . . . . .                       | 142               | 37                                    | 3 537             | 15 937               | 2 889              | 5 831                | 12 158             | 36 699  | 5 216                                  | 3 377                     | 31 238  |
|      | LOUISIANA . . . . .                      | 202               | 60                                    | 6 510             | 35 106               | 5 188              | 10 853               | 26 407             | 87 440  | 4 645                                  | 6 605                     | 70 532  |
|      | OKLAHOMA . . . . .                       | 200               | 46                                    | 6 886             | 36 206               | 5 548              | 11 402               | 27 153             | 89 836  | 11 854                                 | 6 748                     | 66 649  |
|      | TEXAS . . . . .                          | 795               | 273                                   | 24 996            | 116 680              | 19 529             | 42 612               | 82 620             | 305 224   | 53 196                                 | 21 228                    | 236 326   |
|      | WEST . . . . .                           | 2 752             | 720                                   | 70 671            | 438 127              | 53 180             | 107 904              | 308 313            | 997 201   | 100 087                                | 62 344                    | 716 307   |
|      | MOUNTAIN . . . . .                       | 734               | 179                                   | 15 642            | 90 391               | 11 659             | 23 811               | 63 358             | 216 219   | 30 062                                 | 12 983                    | 146 859   |
|      | MONTANA . . . . .                        | 68                | 10                                    | 858               | 4 764                | 654                | 1 247                | 3 442              | 11 935  | 12 392                                 | (0)                       | (0)   |
|      | IOAHO . . . . .                          | 61                | 12                                    | 775               | 4 207                | 592                | 1 182                | 2 913              | 8 358   | 1 331                                  | (0)                       | (0)   |
|      | WYOMING . . . . .                        | 45                | 7                                     | 632               | 3 716                | 537                | 1 146                | 3 040              | 8 885   | 514                                    | 545                       | 5 181   |
|      | COLORADO . . . . .                       | 196               | 44                                    | 4 856             | 28 176               | 3 519              | 7 305                | 18 714             | 61 530  | 4 421                                  | 4 079                     | 43 978  |
|      | NEW MEXICO . . . . .                     | 76                | 18                                    | 1 353             | 7 058                | 982                | 2 048                | 4 710              | 19 264  | 1 866                                  | 1 066                     | 8 064   |
|      | ARIZONA . . . . .                        | 143               | 33                                    | 3 165             | 17 745               | 2 372              | 4 646                | 12 623             | 44 247  | 4 598                                  | 2 096                     | 25 013  |
|      | UTAH . . . . .                           | 102               | 36                                    | 2 663             | 15 001               | 1 995              | 4 059                | 10 672             | 34 970  | 2 396                                  | 2 604                     | 32 787  |
|      | NEVADA . . . . .                         | 43                | 19                                    | 1 340             | 9 724                | 1 008              | 2 178                | 7 244              | 27 030  | 2 544                                  | 946                       | 14 277  |
|      | PACIFIC . . . . .                        | 2 018             | 541                                   | 55 029            | 347 736              | 41 521             | 84 093               | 244 955            | 780 982   | 70 025                                 | 49 376                    | 569 448   |
|      | WASHINGTON . . . . .                     | 260               | 69                                    | 5 357             | 34 229               | 4 098              | 8 077                | 25 268             | 70 413  | 6 009                                  | 4 910                     | 53 228  |
|      | OREGON . . . . .                         | 201               | 27                                    | 2 955             | 18 202               | 2 333              | 4 679                | 13 796             | 38 537  | 6 344                                  | 2 701                     | 26 331  |
|      | CALIFORNIA . . . . .                     | 1 511             | 430                                   | 45 637            | 288 529              | 34 297             | 69 839               | 201 644            | 654 022   | 56 687                                 | 41 281                    | 484 282   |
|      | ALASKA . . . . .                         | 16                | 3                                     | 172               | 1 441                | 118                | 225                  | 880                | 3 054   | 322                                    | 174                       | 2 275   |
|      | HAWAII . . . . .                         | 30                | 12                                    | 908               | 5 335                | 675                | 1 273                | 3 367              | 14 956  | 663                                    | 295                       | 3 332   |
| 321  | FLAT GLASS, TOTAL <sup>1</sup> . . . . . | 31                | 30                                    | 22 815            | 172 214              | 19 440             | 39 704               | 143 752            | 364 466   | 28 244                                 | 21 179                    | 263 151   |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area              | 1963           |                                    |                |                   |                    |                   |                 |  | 1958                                |                        |  |
|------|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 322  | PRESSED AND BLOWN GLASSWARE, TOTAL              | 220            | 200                                | 97 986         | 535 248           | 86 533             | 171 910           | 446 612         | 1 101 820                                      | 76 469                              | 90 295                 | 844 811  |
|      | MIDDLE ATLANTIC                                 | 61             | 50                                 | 31 117         | 169 420           | 27 531             | 53 834            | 141 450         | 317 468  | 25 464                              | 31 019                 | 268 623  |
|      | NEW YORK  | 15             | 10                                 | 6 497          | 39 418            | 5 745              | 11 965            | 32 994          | 74 291   | 4 592                               | 7 665                  | 54 568   |
|      | NEW JERSEY                                      | 16             | 11                                 | 11 237         | 60 524            | 9 882              | 19 168            | 49 940          | 114 429  | 13 958                              | 10 406                 | 94 469   |
|      | PENNSYLVANIA                                    | 30             | 29                                 | 13 383         | 69 478            | 11 904             | 22 701            | 58 516          | 128 748  | 6 914                               | 14 698                 | 119 586  |
|      | EAST NORTH CENTRAL                              | 50             | 49                                 | 29 739         | 162 673           | 26 199             | 51 567            | 136 591         | 347 517  | 14 049                              | 28 487                 | 281 715  |
|      | OHIO  | 21             | 21                                 | 11 694         | 64 068            | 10 008             | 18 802            | 52 286          | 143 986  | 4 514                               | 11 850                 | 111 613  |
|      | INDIANA   | 13             | 13                                 | 7 687          | 40 389            | 6 829              | 13 609            | 33 851          | 71 461   | 5 309                               | 7 502                  | 67 795   |
|      | SOUTH ATLANTIC                                  | 56             | 50                                 | 19 256         | 99 441            | 17 150             | 34 509            | 83 139          | 220 849  | 14 920                              | 15 907                 | 134 872  |
|      | MARYLAND  | 3              | 3                                  | 1 824          | 10 385            | 1 542              | 3 420             | 8 335           | 15 252   | 786                                 | 1 838                  | 13 629   |
|      | WEST VIRGINIA                                   | 40             | 36                                 | 11 159         | 57 381            | 10 066             | 19 688            | 48 545          | 131 249  | 4 953                               | 11 169                 | 87 101   |
|      | NORTH CAROLINA                                  | 4              | 3                                  | 1 543          | 6 724             | 1 390              | 2 820             | 5 620           | 17 809   | 1 839                               | 2                      | 31   |
|      | PACIFIC   | 22             | 22                                 | 8 117          | 52 367            | 7 075              | 14 493            | 43 827          | 102 305  | 6 083                               | 6 412                  | 76 611   |
|      | OKLAHOMA  | 8              | 7                                  | 2 363          | 11 459            | 2 061              | 4 096             | 8 922           | 26 801   | 1 249                               | 2 320                  | 21 472   |
|      | TEXAS   | 4              | 3                                  | 1 395          | 8 155             | 1 241              | 2 668             | 6 975           | 18 919   | 1 173                               | 1 322                  | 17 476   |
|      | ALL OTHER DIVISIONS                             | 31             | 29                                 | 9 757          | 51 347            | 8 578              | 17 507            | 41 605          | 113 681  | 7 692                               | 8 470                  | 82 990   |
| 323  | PRODUCTS OF PURCHASED GLASS, TOTAL <sup>1</sup> | 1 044          | 249                                | 26 158         | 138 275           | 21 669             | 43 384            | 103 890         | 309 734  | 13 223                              | 24 024                 | 242 657  |
| 324  | CEMENT, HYDRAULIC, TOTAL <sup>1</sup>           | 188            | 179                                | 34 863         | 227 385           | 28 719             | 57 579            | 173 891         | 785 681  | 120 843                             | 41 127                 | 724 771  |
| 325  | STRUCTURAL CLAY PRODUCTS, TOTAL                 | 916            | 681                                | 65 034         | 320 922           | 54 840             | 111 520           | 244 766         | 553 809  | 42 192                              | 70 305                 | 490 448  |
|      | NORTHEAST                                       | 167            | 125                                | 10 905         | 59 424            | 9 288              | 18 741            | 47 071          | 101 078  | 6 298                               | 12 930                 | 96 425   |
|      | NEW HAMPSHIRE                                   | 4              | 3                                  | 136            | 574               | 121                | 245               | 493             | 733  | 34                                  | (0)                    | (0)  |
|      | PENNSYLVANIA                                    | 99             | 82                                 | 7 289          | 40 361            | 6 185              | 12 355            | 32 060          | 71 873   | 4 107                               | 8 521                  | 65 997   |
|      | NORTH CENTRAL                                   | 307            | 231                                | 23 915         | 126 630           | 20 054             | 39 915            | 96 290          | 204 178  | 12 108                              | 27 594                 | 197 508  |
|      | EAST NORTH CENTRAL                              | 238            | 175                                | 17 418         | 90 952            | 14 837             | 29 162            | 70 065          | 139 235  | 6 799                               | 21 590                 | 144 212  |
|      | OHIO  | 139            | 110                                | 12 118         | 63 025            | 10 329             | 19 823            | 47 916          | 98 513   | 4 408                               | 14 909                 | 99 376   |
|      | INDIANA   | 40             | 29                                 | 2 629          | 13 433            | 2 249              | 4 726             | 11 002          | 18 410   | 1 346                               | 3 209                  | 18 653   |
|      | ILLINOIS  | 40             | 32                                 | 2 200          | 11 640            | 1 855              | 3 709             | 8 981           | 17 934   | 840                                 | 2 803                  | 21 388   |
|      | WEST NORTH CENTRAL                              | 69             | 56                                 | 6 497          | 35 678            | 5 217              | 10 753            | 26 225          | 64 943   | 5 309                               | 6 004                  | 53 296   |
|      | MINNESOTA                                       | 5              | 3                                  | 235            | 1 115             | 200                | 397               | 899             | 1 684  | 225                                 | 247                    | 1 760  |
|      | MISSOURI  | 25             | 20                                 | 4 052          | 23 542            | 3 198              | 6 386             | 17 094          | 44 557   | 2 859                               | 3 551                  | 35 277   |
|      | NEBRASKA  | 4              | 3                                  | 175            | 770               | 148                | 327               | 571             | 1 392  | 104                                 | 123                    | 584  |
|      | SOUTH   | 302            | 244                                | 22 711         | 93 107            | 19 507             | 40 768            | 71 223          | 170 676  | 18 333                              | 21 885                 | 129 161  |
|      | SOUTH ATLANTIC                                  | 124            | 100                                | 10 418         | 43 749            | 8 883              | 18 636            | 32 981          | 83 455   | 6 670                               | 9 295                  | 55 327   |
|      | MARYLAND  | 14             | 11                                 | 774            | 3 864             | 673                | 1 396             | 2 984           | 6 684  | 358                                 | 778                    | 5 977  |
|      | SOUTH CAROLINA                                  | 16             | 14                                 | 1 296          | 4 842             | 1 132              | 2 278             | 3 754           | 7 665  | 1 241                               | 1 022                  | 4 225  |
|      | FLORIDA   | 15             | 6                                  | 834            | 3 251             | 705                | 1 510             | 2 399           | 8 789  | 547                                 | 407                    | 2 881  |
|      | EAST SOUTH CENTRAL                              | 77             | 64                                 | 5 359          | 23 183            | 4 680              | 9 641             | 18 626          | 46 502   | 7 626                               | 5 747                  | 35 959   |
|      | KENTUCKY  | 19             | 16                                 | 1 374          | 6 802             | 1 220              | 2 491             | 5 651           | 12 299   | 1 478                               | 1 449                  | 9 603  |
|      | TENNESSEE                                       | 12             | 10                                 | 839            | 3 562             | 749                | 1 530             | 2 894           | 7 848  | 4 041                               | (0)                    | (0)  |
|      | ALABAMA   | 24             | 19                                 | 1 703          | 7 392             | 1 511              | 3 078             | 6 156           | 16 037   | 922                                 | (0)                    | (0)  |
|      | MISSISSIPPI                                     | 22             | 19                                 | 1 443          | 5 427             | 1 200              | 2 542             | 3 925           | 10 318   | 1 185                               | 1 051                  | 6 951  |
|      | WEST SOUTH CENTRAL                              | 101            | 80                                 | 6 934          | 26 175            | 5 944              | 12 491            | 19 616          | 40 719   | 4 037                               | 6 843                  | 37 875   |
|      | LOUISIANA                                       | 11             | 7                                  | 371            | 1 263             | 335                | 691               | 1 058           | 1 436  | 182                                 | (0)                    | (0)  |
|      | OKLAHOMA  | 12             | 10                                 | 425            | 1 523             | 368                | 750               | 1 183           | 1 837  | 525                                 | (0)                    | (0)  |
|      | WEST  | 140            | 81                                 | 7 503          | 41 761            | 5 991              | 12 096            | 30 182          | 77 877   | 5 453                               | 7 896                  | 67 354   |
|      | MOUNTAIN  | 39             | 19                                 | 1 817          | 9 952             | 1 434              | 2 825             | 6 878           | 13 664   | 1 356                               | 2 319                  | 15 389   |
|      | COLORADO  | 11             | 8                                  | 1 000          | 5 520             | 772                | 1 502             | 3 579           | 7 635  | 628                                 | 1 271                  | 9 071  |
|      | ARIZONA   | 12             | 3                                  | 194            | 945               | 157                | 306               | 724             | 1 355  | 93                                  | 219                    | 1 193  |
|      | UTAH  | 8              | 4                                  | 413            | 2 417             | 333                | 660               | 1 793           | 3 252  | 274                                 | (0)                    | (0)  |
|      | PACIFIC   | 101            | 62                                 | 5 686          | 31 809            | 4 557              | 9 271             | 23 304          | 64 213   | 4 097                               | 5 577                  | 51 965   |
|      | OREGON  | 15             | 2                                  | 145            | 788               | 118                | 227               | 610             | 1 090  | 82                                  | 214                    | 1 247  |
|      | CALIFORNIA                                      | 76             | 53                                 | 5 245          | 29 560            | 4 195              | 8 538             | 21 590          | 59 706   | 3 806                               | 4 955                  | 47 492   |
| 326  | POTTERY AND RELATED PRODUCTS, TOTAL             | 638            | 229                                | 42 198         | 212 869           | 35 342             | 68 492            | 163 702         | 337 160  | 11 169                              | 44 000                 | 283 009  |
|      | NORTHEAST AND NORTH CENTRAL                     | 320            | 152                                | 30 035         | 153 336           | 24 983             | 48 393            | 117 563         | 243 704  | 6 726                               | 30 227                 | 201 287  |
|      | CONNECTICUT                                     | 10             | 4                                  | 657            | 3 614             | 549                | 1 159             | 2 823           | 6 342  | (0)                                 | 427                    | 3 122  |
|      | NEW JERSEY                                      | 51             | 31                                 | 4 284          | 23 260            | 3 466              | 6 711             | 17 401          | 39 012   | 959                                 | 4 510                  | 33 229   |
|      | PENNSYLVANIA                                    | 36             | 21                                 | 5 060          | 26 300            | 4 242              | 8 399             | 20 476          | 42 545   | 1 118                               | 4 810                  | 31 344   |
|      | OHIO  | 77             | 46                                 | 8 698          | 41 023            | 7 373              | 13 974            | 31 848          | 66 757   | 1 697                               | 9 287                  | 56 041   |
|      | INDIANA   | 10             | 5                                  | 726            | 4 433             | 597                | 1 198             | 3 409           | 7 742  | 97                                  | 874                    | 7 629  |
|      | ILLINOIS  | 27             | 16                                 | 3 170          | 15 222            | 2 694              | 5 364             | 12 060          | 23 883   | 754                                 | 3 141                  | 20 317   |
|      | WISCONSIN                                       | 9              | 4                                  | 2 024          | 11 248            | 1 523              | 2 955             | 8 223           | 14 248   | 463                                 | (0)                    | (0)  |
|      | MISSOURI  | 8              | 3                                  | 118            | 486               | 107                | 219               | 381             | 928  | 63                                  | (0)                    | (0)  |
|      | SOUTH   | 117            | 37                                 | 7 015          | 33 679            | 6 061              | 11 691            | 25 923          | 51 154   | 2 772                               | 8 401                  | 44 167   |
|      | SOUTH ATLANTIC                                  | 59             | 16                                 | 3 821          | 18 179            | 3 362              | 6 229             | 14 101          | 25 519   | 999                                 | 5 388                  | 23 804   |
|      | WEST VIRGINIA                                   | 15             | 9                                  | 2 727          | 11 806            | 2 489              | 4 488             | 9 718           | 14 869   | 197                                 | 4 172                  | 14 550   |
|      | GEORGIA   | 10             | 2                                  | 148            | 620               | 126                | 247               | 480             | 532  | 43                                  | 205                    | 883  |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code     | Industry group and geographic area               | 1963           |                           |               |         |                    |           |           |                                      | 1958                      |               |                                      |
|----------|--|----------------|---------------------------|---------------|---------|--------------------|-----------|-----------|--------------------------------------|---------------------------|---------------|--------------------------------------|
|          |  | Establishments |                           | All employees |         | Production workers |           |           | Value added by manufacture, adjusted | Capital expenditures, new | All employees | Value added by manufacture, adjusted |
|          |  | Total          | With 20 employees or more | Total         | Payroll | Total              | Man-hours | Wages     |                                      |                           |               |                                      |
| (number) | (number)   | (number)       | (\$1,000)                 | (number)      | (1,000) | (\$1,000)          | (\$1,000) | (\$1,000) | (number)                             | (\$1,000)                 |               |                                      |
| 326      | POTTERY AND RELATED PRODUCTS—CONT.               |                |                           |               |         |                    |           |           |                                      |                           |               |                                      |
|          | EAST SOUTH CENTRAL . . . . .                     | 30             | 11                        | 2 052         | 9 508   | 1 740              | 3 544     | 7 128     | 14 619                               | 1 383                     | 1 991         | 11 278                               |
|          | MAINE . . . . .                                  | 9              | 5                         | 1 548         | 7 767   | 1 271              | 2 648     | 5 624     | 11 983                               | 799                       | 1 509         | 8 718                                |
|          | TENNESSEE . . . . .                              |                |                           |               |         |                    |           |           |                                      |                           |               |                                      |
|          | WEST SOUTH CENTRAL . . . . .                     | 28             | 10                        | 1 142         | 5 992   | 959                | 1 918     | 4 694     | 11 016                               | 390                       | 1 022         | 9 085                                |
|          | WEST . . . . .                                   | 201            | 40                        | 5 148         | 25 854  | 4 298              | 8 438     | 20 196    | 42 302                               | 1 671                     | 5 372         | 37 555                               |
|          | CALIFORNIA . . . . .                             | 176            | 38                        | 4 042         | 19 176  | 3 517              | 6 623     | 15 505    | 32 091                               | 1 052                     | 4 738         | 33 710                               |
| 327      | CONCRETE AND PLASTER PRODUCTS, TOTAL             | 10 160         | 2 244                     | 165 848       | 906 026 | 118 505            | 251 697   | 591 622   | 2 122 283                            | 210 634                   | 149 947       | 1 553 639                            |
|          | NORTHEAST . . . . .                              | 1 717          | 402                       | 29 799        | 181 367 | 21 294             | 45 500    | 119 313   | 401 796                              | 42 994                    | 28 878        | 312 508                              |
|          | NEW ENGLAND . . . . .                            | 417            | 91                        | 6 677         | 40 844  | 4 807              | 10 470    | 26 137    | 95 975                               | 9 652                     | 5 868         | 65 405                               |
|          | MAINE . . . . .                                  | 35             | 12                        | 582           | 2 650   | 405                | 897       | 1 629     | 5 538                                | 662                       | 465           | 4 226                                |
|          | NEW HAMPSHIRE . . . . .                          | 41             | 5                         | 537           | 2 929   | 371                | 843       | 1 872     | 6 479                                | 772                       | 405           | 3 922                                |
|          | MASSACHUSETTS . . . . .                          | 170            | 37                        | 2 933         | 18 639  | 2 099              | 4 641     | 12 075    | 45 231                               | 4 254                     | 2 605         | 33 592                               |
|          | CONNECTICUT . . . . .                            | 122            | 27                        | 2 066         | 13 516  | 1 547              | 3 225     | 8 598     | 32 306                               | 3 120                     | 1 771         | 18 127                               |
|          | MIDDLE ATLANTIC . . . . .                        | 1 300          | 311                       | 23 122        | 140 523 | 16 487             | 35 030    | 93 176    | 305 821                              | 33 342                    | 23 010        | 247 103                              |
|          | PENNSYLVANIA . . . . .                           | 568            | 121                       | 9 005         | 47 029  | 6 729              | 14 025    | 32 524    | 99 338                               | 12 365                    | 8 810         | 85 136                               |
|          | NORTH CENTRAL . . . . .                          | 3 478          | 575                       | 45 855        | 267 639 | 32 635             | 69 260    | 172 056   | 634 103                              | 56 144                    | 45 703        | 510 051                              |
|          | EAST NORTH CENTRAL . . . . .                     | 2 321          | 404                       | 31 082        | 188 675 | 21 589             | 45 685    | 117 733   | 443 686                              | 39 696                    | 31 212        | 348 366                              |
|          | OHIO . . . . .                                   | 577            | 113                       | 9 663         | 58 496  | 6 486              | 13 580    | 34 771    | 134 659                              | 13 961                    | 10 402        | 111 867                              |
|          | ILLINOIS . . . . .                               | 515            | 93                        | 6 773         | 42 773  | 4 846              | 10 476    | 28 626    | 99 427                               | 6 939                     | 6 335         | 78 890                               |
|          | MICHIGAN . . . . .                               | 538            | 85                        | 6 415         | 38 862  | 4 523              | 9 500     | 24 684    | 98 350                               | 8 112                     | 6 457         | 71 435                               |
|          | WEST NORTH CENTRAL . . . . .                     | 1 157          | 171                       | 14 773        | 78 964  | 11 046             | 23 575    | 54 323    | 190 417                              | 16 448                    | 14 491        | 161 685                              |
|          | MINNESOTA . . . . .                              | 284            | 41                        | 3 109         | 17 594  | 2 288              | 4 971     | 11 526    | 37 685                               | 3 478                     | (D)           | (D)                                  |
|          | IOWA . . . . .                                   | 270            | 36                        | 3 474         | 19 126  | 2 652              | 5 837     | 13 583    | 55 866                               | 3 887                     | 3 216         | 44 521                               |
|          | MISSOURI . . . . .                               | 262            | 45                        | 3 925         | 21 177  | 3 054              | 6 244     | 15 530    | 45 974                               | 4 613                     | 4 615         | 46 696                               |
|          | NORTH DAKOTA . . . . .                           | 37             | 4                         | 359           | 1 796   | 259                | 533       | 1 148     | 3 818                                | 366                       | 313           | 3 149                                |
|          | SOUTH DAKOTA . . . . .                           | 60             | 8                         | 575           | 2 750   | 444                | 926       | 1 856     | 6 125                                | 814                       | (O)           | (O)                                  |
|          | NEBRASKA . . . . .                               | 101            | 15                        | 1 493         | 6 899   | 1 130              | 2 444     | 4 754     | 16 410                               | 1 445                     | 1 085         | 9 769                                |
|          | KANSAS . . . . .                                 | 143            | 22                        | 1 838         | 9 622   | 1 219              | 2 620     | 5 926     | 24 539                               | 1 845                     | 1 762         | 21 854                               |
|          | SOUTH . . . . .                                  | 3 168          | 833                       | 58 047        | 255 125 | 42 471             | 92 140    | 167 914   | 637 487                              | 66 732                    | 49 244        | 448 320                              |
|          | SOUTH ATLANTIC . . . . .                         | 1 533          | 469                       | 30 015        | 133 219 | 21 945             | 47 368    | 87 112    | 324 603                              | 34 581                    | 26 117        | 224 127                              |
|          | DELAWARE . . . . .                               | 33             | 11                        | 740           | 3 645   | 575                | 1 222     | 2 718     | 10 133                               | 925                       | 541           | 4 895                                |
|          | MARYLAND . . . . .                               | 142            | 51                        | 3 139         | 16 701  | 2 232              | 4 831     | 10 383    | 44 043                               | 5 343                     | 2 409         | 24 430                               |
|          | DISTRICT OF COLUMBIA . . . . .                   | 8              | 7                         | 592           | 3 910   | 451                | 984       | 2 493     | 8 782                                | 1 328                     | 523           | 5 954                                |
|          | VIRGINIA . . . . .                               | 210            | 75                        | 5 422         | 25 385  | 4 423              | 9 624     | 18 647    | 63 502                               | 7 664                     | 4 085         | 42 796                               |
|          | WEST VIRGINIA . . . . .                          | 70             | 17                        | 1 082         | 4 914   | 797                | 1 636     | 3 338     | 10 053                               | 1 040                     | 1 237         | 10 693                               |
|          | NORTH CAROLINA . . . . .                         | 226            | 68                        | 3 777         | 15 006  | 2 755              | 5 892     | 9 267     | 32 236                               | 4 411                     | 3 064         | 20 849                               |
|          | SOUTH CAROLINA . . . . .                         | 118            | 29                        | 1 708         | 6 309   | 1 299              | 2 782     | 4 262     | 14 623                               | 2 097                     | 1 377         | 11 114                               |
|          | GEORGIA . . . . .                                | 225            | 67                        | 4 385         | 17 678  | 3 278              | 6 937     | 12 015    | 45 197                               | 4 603                     | 2 989         | 23 692                               |
|          | FLORIDA . . . . .                                | 501            | 144                       | 9 170         | 39 671  | 6 135              | 13 460    | 23 989    | 96 034                               | 7 170                     | 9 892         | 79 704                               |
|          | EAST SOUTH CENTRAL . . . . .                     | 673            | 133                       | 10 010        | 40 630  | 7 220              | 15 064    | 25 572    | 101 116                              | 10 032                    | 8 070         | 66 081                               |
|          | KENTUCKY . . . . .                               | 174            | 21                        | 1 913         | 8 501   | 1 279              | 2 612     | 4 855     | 19 389                               | 2 006                     | 1 477         | 11 416                               |
|          | WEST SOUTH CENTRAL . . . . .                     | 962            | 231                       | 18 022        | 81 276  | 13 306             | 29 708    | 55 230    | 211 768                              | 22 119                    | 15 057        | 158 112                              |
|          | ARKANSAS . . . . .                               | 107            | 18                        | 1 205         | 4 583   | 955                | 2 038     | 3 425     | 12 271                               | 2 485                     | 1 088         | 9 150                                |
|          | LOUISIANA . . . . .                              | 160            | 37                        | 2 816         | 12 696  | 2 104              | 4 539     | 8 624     | 33 155                               | 2 872                     | 2 772         | 28 618                               |
|          | OKLAHOMA . . . . .                               | 149            | 20                        | 2 139         | 10 401  | 1 527              | 3 383     | 7 105     | 27 412                               | 3 225                     | 1 920         | 19 830                               |
|          | TEXAS . . . . .                                  | 546            | 156                       | 11 862        | 53 596  | 8 720              | 19 748    | 36 076    | 138 930                              | 13 537                    | 9 277         | 100 514                              |
|          | WEST . . . . .                                   | 1 798          | 435                       | 32 147        | 201 895 | 22 105             | 44 797    | 131 919   | 452 498                              | 44 919                    | 26 122        | 282 760                              |
|          | MOUNTAIN . . . . .                               | 565            | 134                       | 10 269        | 58 700  | 7 425              | 15 186    | 40 063    | 136 721                              | 13 597                    | 7 499         | 80 114                               |
|          | MONTANA . . . . .                                | 54             | 6                         | 534           | 2 775   | 400                | 744       | 1 988     | 6 110                                | 501                       | (D)           | (D)                                  |
|          | IDAHO . . . . .                                  | 51             | 10                        | 626           | 3 316   | 471                | 948       | 2 298     | 6 070                                | 594                       | 752           | 7 021                                |
|          | COLORADO . . . . .                               | 142            | 26                        | 2 056         | 11 787  | 1 382              | 2 862     | 7 187     | 25 885                               | 2 516                     | 1 443         | 13 873                               |
|          | NEW MEXICO . . . . .                             | 64             | 15                        | 1 119         | 5 734   | 809                | 1 700     | 3 819     | 13 353                               | 1 586                     | 833           | 6 810                                |
|          | ARIZONA . . . . .                                | 102            | 26                        | 2 461         | 13 707  | 1 809              | 3 516     | 9 534     | 31 282                               | 3 881                     | 1 561         | 17 550                               |
|          | NEVADA . . . . .                                 | 38             | 19                        | 1 323         | 9 626   | 994                | 2 152     | 7 161     | 26 943                               | 2 536                     | 779           | 12 079                               |
|          | PACIFIC . . . . .                                | 1 233          | 301                       | 21 878        | 143 195 | 14 680             | 29 611    | 91 856    | 315 777                              | 31 322                    | 18 623        | 202 646                              |
|          | WASHINGTON . . . . .                             | 197            | 51                        | 3 653         | 23 744  | 2 698              | 5 297     | 17 078    | 44 268                               | 4 755                     | 3 025         | 30 344                               |
|          | OREGON . . . . .                                 | 152            | 20                        | 1 934         | 11 701  | 1 456              | 2 911     | 8 404     | 25 828                               | 5 646                     | 1 696         | 17 336                               |
|          | CALIFORNIA . . . . .                             | 855            | 218                       | 15 479        | 102 522 | 9 931              | 20 295    | 63 044    | 232 838                              | 20 106                    | 13 480        | 149 761                              |
|          | ALASKA . . . . .                                 | 16             | 3                         | 172           | 1 441   | 118                | 225       | 880       | 3 054                                | 322                       | (D)           | (D)                                  |
|          | HAWAII . . . . .                                 | 13             | 9                         | 640           | 3 787   | 477                | 883       | 2 450     | 9 789                                | 493                       | (D)           | (D)                                  |
| 328      | CUT STONE AND STONE PRODUCTS, TOTAL <sup>1</sup> | 893            | 211                       | 18 340        | 85 745  | 15 259             | 30 896    | 66 657    | 131 465                              | 6 693                     | 20 348        | 129 038                              |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area  | 1963           |                                    |                |                   |                    |                   |                 | 1958   |                                     |                        |  |
|------|-------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |                                     | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |                                     | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 329  | NONMETALLIC MINERAL PRODUCTS: TOTAL | 1 748          | 632                                | 100 617        | 613 811           | 75 511             | 153 766           | 415 331         | 1 337 569                                      | 98 114                              | 91 270                 | 1 001 730                                      |
|      | NORTHEAST                           | 567            | 231                                | 40 727         | 258 998           | 29 746             | 59 944            | 170 350         | 509 835  | 27 550                              | 40 716                 | 400 919  |
|      | NEW ENGLAND                         | 108            | 52                                 | 10 135         | 65 180            | 7 096              | 14 049            | 39 652          | 126 784  | 4 547                               | 10 571                 | 94 850   |
|      | MASSACHUSETTS                       | 69             | 29                                 | 6 474          | 44 049            | 4 302              | 8 361             | 24 565          | 87 315   | 3 521                               | 6 815                  | 62 863   |
|      | CONNECTICUT                         | 29             | 17                                 | 2 746          | 16 825            | 2 052              | 4 217             | 11 991          | 31 006   | 696                                 | 2 650                  | 24 229   |
|      | MIDDLE ATLANTIC                     | 459            | 179                                | 30 592         | 193 818           | 22 650             | 45 895            | 130 698         | 383 051  | 23 003                              | 30 145                 | 306 069  |
|      | NEW YORK                            | 168            | 54                                 | 12 249         | 79 457            | 8 599              | 17 239            | 49 689          | 155 160  | 7 200                               | 10 963                 | 112 124  |
|      | NEW JERSEY                          | 123            | 51                                 | 8 933          | 57 619            | 6 812              | 14 222            | 41 222          | 118 093  | 9 408                               | 8 580                  | 90 177   |
|      | PENNSYLVANIA                        | 168            | 74                                 | 9 410          | 56 742            | 7 239              | 14 434            | 39 787          | 109 798  | 6 395                               | 10 602                 | 103 768  |
|      | NORTH CENTRAL                       | 578            | 222                                | 37 599         | 227 644           | 28 138             | 57 420            | 154 443         | 517 785  | 30 451                              | 32 417                 | 378 188  |
|      | EAST NORTH CENTRAL                  | 496            | 205                                | 29 204         | 168 899           | 22 809             | 46 465            | 120 004         | 373 866  | 23 028                              | 26 623                 | 287 911  |
|      | OHIO                                | 144            | 65                                 | 8 892          | 51 783            | 7 041              | 14 405            | 38 109          | 111 250  | 9 197                               | 7 438                  | 77 058   |
|      | INDIANA                             | 51             | 26                                 | 4 762          | 25 708            | 3 974              | 8 067             | 19 963          | 55 430   | 4 221                               | 4 626                  | 50 278   |
|      | ILLINOIS                            | 167            | 71                                 | 11 319         | 67 286            | 8 547              | 17 657            | 46 073          | 150 148  | 7 373                               | 10 492                 | 117 111  |
|      | MICHIGAN                            | 101            | 35                                 | 3 240          | 19 149            | 2 456              | 4 858             | 12 498          | 43 655   | 1 767                               | 3 053                  | 31 261   |
|      | WISCONSIN                           | 33             | 8                                  | 991            | 4 973             | 791                | 1 478             | 3 361           | 13 373   | 470                                 | 1 014                  | 12 203   |
|      | WEST NORTH CENTRAL                  | 82             | 17                                 | 8 395          | 58 745            | 5 329              | 10 955            | 34 439          | 143 919  | 7 423                               | 5 794                  | 90 277   |
|      | SOUTH                               | 303            | 110                                | 14 112         | 72 619            | 11 617             | 23 737            | 54 681          | 177 504  | 28 669                              | 10 971                 | 118 761  |
|      | SOUTH ATLANTIC                      | 127            | 41                                 | 6 996          | 34 392            | 5 993              | 11 925            | 27 599          | 81 536   | 4 883                               | 5 049                  | 49 383   |
|      | VIRGINIA                            | 17             | 7                                  | 1 384          | 5 661             | 1 182              | 2 342             | 4 562           | 11 487   | 1 196                               | 1 214                  | 9 478  |
|      | WEST VIRGINIA                       | 13             | 5                                  | 602            | 3 669             | 492                | 1 051             | 2 961           | 9 489  | 397                                 | 109                    | 1 523  |
|      | NORTH CAROLINA                      | 25             | 10                                 | 1 232          | 4 962             | 1 075              | 2 121             | 3 792           | 8 912  | 504                                 | 909                    | 5 753  |
|      | SOUTH CAROLINA                      | 6              | 3                                  | 896            | 4 474             | 735                | 1 516             | 3 279           | 6 879  | 428                                 | (D)                    | (D)  |
|      | GEORGIA                             | 23             | 8                                  | 796            | 3 588             | 681                | 1 241             | 2 755           | 8 209  | 546                                 | 304                    | 1 775  |
|      | FLORIDA                             | 25             | 2                                  | 648            | 3 376             | 521                | 1 029             | 2 507           | 12 246   | (0)                                 | 262                    | 1 743  |
|      | EAST SOUTH CENTRAL                  | 70             | 31                                 | 3 100          | 16 521            | 2 467              | 5 059             | 11 531          | 41 584   | 4 877                               | 2 487                  | 27 565   |
|      | KENTUCKY                            | 11             | 4                                  | 811            | 5 266             | 605                | 1 288             | 3 558           | 10 135   | 2 106                               | 958                    | 8 902  |
|      | TENNESSEE                           | 24             | 10                                 | 784            | 3 669             | 612                | 1 284             | 2 178           | 7 626  | 1 773                               | (0)                    | (0)  |
|      | ALABAMA                             | 25             | 12                                 | 762            | 3 584             | 623                | 1 156             | 2 593           | 9 564  | 238                                 | 857                    | 10 315   |
|      | MISSISSIPPI                         | 10             | 5                                  | 743            | 4 002             | 627                | 1 331             | 3 202           | 14 259   | 760                                 | (D)                    | (0)  |
|      | WEST SOUTH CENTRAL                  | 106            | 38                                 | 4 016          | 21 706            | 3 157              | 6 753             | 15 551          | 54 384   | 18 909                              | 3 435                  | 41 813   |
|      | LOUISIANA                           | 17             | 9                                  | 1 130          | 6 460             | 924                | 1 906             | 5 024           | 17 063   | 730                                 | 1 329                  | 13 483   |
|      | TEXAS                               | 74             | 26                                 | 2 534          | 13 497            | 1 949              | 4 257             | 9 267           | 33 586   | 17 888                              | 1 789                  | 21 808   |
|      | WEST                                | 299            | 68                                 | 8 109          | 54 054            | 5 956              | 12 532            | 35 514          | 135 685  | 11 683                              | 7 166                  | 103 862  |
|      | MOUNTAIN                            | 60             | 9                                  | 747            | 4 085             | 592                | 1 128             | 3 061           | 10 231   | 688                                 | 894                    | 13 864   |
|      | UTAH                                | 10             | 3                                  | 242            | 1 341             | 202                | 376               | 1 085           | 3 346  | 87                                  | 354                    | 7 284  |
|      | PACIFIC                             | 239            | 59                                 | 7 362          | 49 969            | 5 364              | 11 404            | 32 453          | 125 454  | 10 995                              | 6 272                  | 89 998   |
|      | WASHINGTON                          | 25             | 4                                  | 381            | 2 203             | 300                | 607               | 1 686           | 5 618  | 219                                 | 451                    | 5 602  |
|      | CALIFORNIA                          | 200            | 55                                 | 6 900          | 47 333            | 5 002              | 10 688            | 30 474          | 118 999  | 10 711                              | 5 782                  | 84 063   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.  
 1 This industry group consists of a single 4-digit industry. Detailed data by State are included in the 4-digit industry tables.

TABLE 3. Detailed Statistics: 1963

| Item   | Stone, clay, and glass products (SIC 32) | Flat glass (SIC 321) | Pressed and blown glassware (SIC 322) | Products of purchased glass (SIC 323) | Cement, hydraulic (SIC 324) | Structural clay products (SIC 325) | Pottery and related products (SIC 326) | Concrete and plaster products (SIC 327) | Cut stone and stone products (SIC 328) | Nonmetallic mineral products (SIC 329) |
|--|--|----------------------|---------------------------------------|---------------------------------------|-----------------------------|------------------------------------|--|---|--|--|
| ESTABLISHMENTS, TOTAL . . . . . NUMBER . .                                 | 15 838                                   | 31                   | 220                                   | 1 044                                 | 188                         | 916                                | 638                                    | 10 160                                  | 893                                    | 1 748                                  |
| WITH 1 TO 19 EMPLOYEES . . . . . DO . .                                    | 11 183                                   | 1                    | 20                                    | 795                                   | 9                           | 235                                | 409                                    | 7 916                                   | 682                                    | 1 116                                  |
| WITH 20 TO 99 EMPLOYEES . . . . . DO . .                                   | 3 481                                    | 4                    | 23                                    | 195                                   | 30                          | 496                                | 127                                    | 2 024                                   | 175                                    | 407                                    |
| WITH 100 EMPLOYEES OR MORE . . . . . DO . .                                | 1 174                                    | 26                   | 177                                   | 54                                    | 149                         | 185                                | 102                                    | 220                                     | 36                                     | 225                                    |
| PROPRIETORS AND WORKING PARTNERS . . DO . .                                | 7 699                                    | -                    | 11                                    | 562                                   | 1                           | 188                                | 400                                    | 5 402                                   | 558                                    | 577                                    |
| ALL EMPLOYEES (AVERAGE FOR THE YEAR) . . . . . DO . .                      | 573 859                                  | 22 815               | 97 986                                | 26 158                                | 34 863                      | 65 034                             | 42 198                                 | 165 848                                 | 18 340                                 | 100 617                                |
| PAYROLL (ALL EMPLOYEES), TOTAL FOR YEAR . . . . . \$1,000 . .              | 3 212 495                                | 172 214              | 535 248                               | 138 275                               | 227 385                     | 320 922                            | 212 869                                | 906 026                                 | 85 745                                 | 613 811                                |
| PRODUCTION WORKERS:  |  |                      |                                       |                                       |                             |                                    |  |   |  |  |
| AVERAGE FOR THE YEAR . . . . . NUMBER . .                                  | 455 818                                  | 19 440               | 86 533                                | 21 669                                | 28 719                      | 54 840                             | 35 342                                 | 118 505                                 | 15 259                                 | 75 511                                 |
| MARCH . . . . . DO . .   | 430 299                                  | 18 591               | 84 484                                | 20 818                                | 26 649                      | 50 474                             | 34 984                                 | 106 039                                 | 14 363                                 | 73 897                                 |
| MAY . . . . . DO . .   | 459 535                                  | 18 853               | 86 860                                | 21 374                                | 29 663                      | 55 862                             | 34 946                                 | 120 960                                 | 15 522                                 | 75 495                                 |
| AUGUST . . . . . DO . .  | 474 345                                  | 19 659               | 89 524                                | 22 087                                | 30 510                      | 57 605                             | 35 189                                 | 127 123                                 | 15 866                                 | 76 782                                 |
| NOVEMBER . . . . . DO . .  | 459 437                                  | 20 652               | 85 254                                | 22 424                                | 27 997                      | 55 421                             | 36 318                                 | 120 163                                 | 15 274                                 | 75 934                                 |
| MAN-HOURS . . . . . \$1,000 . .  | 928 948                                  | 39 704               | 171 910                               | 43 384                                | 57 579                      | 111 520                            | 68 492                                 | 251 697                                 | 30 896                                 | 153 766                                |
| JANUARY-MARCH . . . . . DO . .   | 212 852                                  | 9 365                | 41 276                                | 10 465                                | 12 833                      | 24 851                             | 16 657                                 | 53 057                                  | 6 933                                  | 37 415                                 |
| APRIL-JUNE . . . . . DO . .  | 237 746                                  | 9 604                | 43 923                                | 10 902                                | 15 046                      | 28 770                             | 17 270                                 | 65 288                                  | 8 102                                  | 38 841                                 |
| JULY-SEPTEMBER . . . . . DO . .  | 243 139                                  | 9 939                | 44 653                                | 10 872                                | 15 315                      | 29 664                             | 16 847                                 | 69 469                                  | 8 048                                  | 38 332                                 |
| OCTOBER-DECEMBER . . . . . DO . .  | 235 309                                  | 10 796               | 42 058                                | 11 145                                | 14 385                      | 28 235                             | 17 917                                 | 63 883                                  | 7 813                                  | 39 077                                 |
| WAGES . . . . . \$1,000 . .  | 2 350 223                                | 143 752              | 446 612                               | 103 890                               | 173 891                     | 244 766                            | 163 702                                | 591 622                                 | 66 657                                 | 415 331                                |
| COST OF MATERIALS, ETC., TOTAL <sup>1</sup> . . DO . .                     | 5 267 768                                | 185 879              | 560 014                               | 320 339                               | 388 747                     | 288 953                            | 165 217                                | 2 191 640                               | 86 633                                 | 1 100 346                              |
| MATERIALS, PARTS, CONTAINERS, AND SUPPLIES CONSUMED . . . . . DO . .       | 4 235 746                                | 146 029              | 446 482                               | 281 018                               | 195 819                     | 174 000                            | 120 579                                | 1 860 951                               | 70 599                                 | 940 269                                |
| COST OF REALES . . . . . DO . .  | 435 574                                  | (D)                  | 24 679                                | 28 276                                | 6 993                       | 31 987                             | (D)                                    | 204 298                                 | 6 860                                  | 91 751                                 |
| FUELS CONSUMED . . . . . DO . .  | 403 301                                  | 20 615               | 64 438                                | 4 840                                 | 123 611                     | 64 135                             | 10 215                                 | 78 513                                  | 1 698                                  | 35 236                                 |
| ELECTRIC ENERGY:   |  |                      |                                       |                                       |                             |                                    |  |   |  |  |
| PURCHASED:   |  |                      |                                       |                                       |                             |                                    |  |   |  |  |
| QUANTITY . . . . . MILLION KW.-HRS. . .                                    | 16 296                                   | 883                  | 2 607                                 | 276                                   | 6 520                       | 1 081                              | 340                                    | 1 973                                   | 227                                    | 2 389                                  |
| COST . . . . . \$1,000 . .   | 173 185                                  | 7 087                | 23 362                                | 3 709                                 | 59 533                      | 15 355                             | 4 532                                  | 30 807                                  | 3 409                                  | 25 391                                 |
| GENERATED LESS SOLD . . . . . MILLION KW.-HRS. .                           | 6 212                                    | (D)                  | 18                                    | (D)                                   | 1 445                       | 7                                  | (D)                                    | 1                                       | (D)                                    | (D)                                    |
| CONTRACT WORK . . . . . \$1,000 . .  | 39 962                                   | (D)                  | 1 053                                 | 2 499                                 | 2 791                       | 3 469                              | (D)                                    | 17 071                                  | 4 067                                  | 7 699                                  |
| VALUE OF SHIPMENTS (INCLUDING REALES), TOTAL <sup>1</sup> . . . . . DO . . | 12 289 091                               | 549 390              | 1 635 409                             | 627 327                               | 1 176 913                   | 841 715                            | 492 989                                | 4 312 849                               | 217 176                                | 2 435 323                              |
| VALUE OF REALES . . . . . DO . .   | 564 808                                  | 12 705               | 27 881                                | 31 018                                | 8 285                       | 41 018                             | 28 729                                 | 279 518                                 | 9 423                                  | 126 231                                |
| VALUE ADDED BY MANUFACTURE, ADJUSTED . . . . . DO . .                      | 7 043 987                                | 364 466              | 1 101 820                             | 309 734                               | 785 681                     | 553 809                            | 337 160                                | 2 122 283                               | 131 465                                | 1 337 569                              |
| MANUFACTURERS' INVENTORIES:  |  |                      |                                       |                                       |                             |                                    |  |   |  |  |
| BEGINNING OF YEAR, TOTAL . . . . . DO . .                                  | 1 471 029                                | 71 489               | 206 119                               | 85 208                                | 181 942                     | 160 753                            | 75 097                                 | 288 802                                 | 29 779                                 | 371 840                                |
| FINISHED PRODUCTS . . . . . DO . .   | 774 805                                  | 21 019               | 137 245                               | 40 456                                | 72 135                      | 110 604                            | 36 139                                 | 170 042                                 | 11 861                                 | 175 304                                |
| WORK-IN-PROCESS . . . . . DO . .   | 186 245                                  | 16 854               | 14 982                                | 15 868                                | 25 167                      | 12 376                             | 17 426                                 | 19 543                                  | 8 010                                  | 56 019                                 |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO . .                             | 509 979                                  | 33 616               | 53 892                                | 28 884                                | 84 640                      | 37 773                             | 21 532                                 | 99 217                                  | 9 908                                  | 140 517                                |
| END OF YEAR, TOTAL . . . . . DO . .  | 1 522 406                                | 72 669               | 232 707                               | 88 888                                | 180 625                     | 162 707                            | 77 820                                 | 298 961                                 | 31 199                                 | 376 830                                |
| FINISHED PRODUCTS . . . . . DO . .   | 804 464                                  | 21 612               | 162 625                               | 43 044                                | 69 648                      | 111 942                            | 37 413                                 | 169 820                                 | 11 761                                 | 176 599                                |
| WORK-IN-PROCESS . . . . . DO . .   | 194 487                                  | 17 216               | 16 027                                | 16 026                                | 25 169                      | 12 085                             | 18 715                                 | 22 906                                  | 9 032                                  | 57 311                                 |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO . .                             | 523 456                                  | 33 841               | 54 055                                | 29 819                                | 85 808                      | 38 680                             | 21 692                                 | 106 235                                 | 10 406                                 | 142 920                                |
| EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . . . DO . .               | 641 233                                  | 28 866               | 77 536                                | 14 982                                | 121 369                     | 43 545                             | 13 305                                 | 229 366                                 | 7 676                                  | 104 588                                |
| NEW, TOTAL . . . . . DO . .  | 607 581                                  | 28 244               | 76 469                                | 13 223                                | 120 843                     | 42 192                             | 11 169                                 | 210 634                                 | 6 693                                  | 98 114                                 |
| NEW STRUCTURES AND ADDITIONS TO PLANT . . . . . DO . .                     | 156 428                                  | 5 106                | 19 728                                | 2 932                                 | 36 192                      | 13 233                             | 2 057                                  | 52 079                                  | 1 378                                  | 23 723                                 |
| NEW MACHINERY AND EQUIPMENT . . DO . .                                     | 451 153                                  | 23 138               | 56 741                                | 10 291                                | 84 651                      | 28 959                             | 9 112                                  | 158 555                                 | 5 315                                  | 74 391                                 |
| USED PLANT AND EQUIPMENT . . . . . DO . .                                  | 33 656                                   | 622                  | 1 067                                 | 1 759                                 | 526                         | 1 353                              | 2 136                                  | 18 736                                  | 983                                    | 6 474                                  |
| SELECTED OPERATING RATIOS:   |  |                      |                                       |                                       |                             |                                    |  |   |  |  |
| PAYROLL/TOTAL EMPLOYMENT . . . . .   | 5 598                                    | 7 548                | 5 462                                 | 5 286                                 | 6 522                       | 4 935                              | 5 045                                  | 5 463                                   | 4 675                                  | 6 100                                  |
| PRODUCTION WORKERS/TOTAL EMPLOYMENT . .                                    | .79                                      | .85                  | .88                                   | .83                                   | .82                         | .84                                | .84                                    | .71                                     | .83                                    | .75                                    |
| MAN-HOURS/PRODUCTION WORKERS . . . . .                                     | 2.04                                     | 2 042                | 1 987                                 | 2 002                                 | 2 005                       | 2 034                              | 1 938                                  | 2 124                                   | 2 025                                  | 2 036                                  |
| PRODUCTION WORKER WAGES/MAN-HOURS . . .                                    | 2.53                                     | 3.62                 | 2.60                                  | 2.39                                  | 3.02                        | 2.19                               | 2.39                                   | 2.35                                    | 2.16                                   | 2.70                                   |
| COST OF MATERIALS AND PAYROLLS/TOTAL VALUE OF SHIPMENTS . . . . .          | .69                                      | .65                  | .67                                   | .73                                   | .52                         | .72                                | .75                                    | .72                                     | .79                                    | .70                                    |
| COST OF MATERIALS/TOTAL VALUE OF SHIPMENTS . . . . .                       | .43                                      | .34                  | .34                                   | .51                                   | .33                         | .34                                | .32                                    | .51                                     | .40                                    | .45                                    |
| ADJUSTED VALUE ADDED/TOTAL EMPLOYMENT .                                    | 12 275                                   | 15 975               | 11 245                                | 11 841                                | 22 536                      | 8 516                              | 7 990                                  | 12 797                                  | 7 168                                  | 13 294                                 |
| SALARIES AND WAGES/ADJUSTED VALUE ADDED                                    | .46                                      | .47                  | .49                                   | .45                                   | .28                         | .58                                | .63                                    | .43                                     | .65                                    | .46                                    |

Standard Notes: - Represents zero.

(D) Withheld to avoid disclosing figures for individual companies.

(NA) Not available.

(X) Not applicable.

<sup>1</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.



## GLASS PRODUCTS

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3211—Flat Glass
- 3221—Glass Containers
- 3229—Pressed and Blown Glass and Glassware, N.E.C.
- 3231—Glass Products, Made of Purchased Glass

This group of industries includes establishments primarily engaged in manufacturing flat glass and glass products not specifically classified in other industries. For example, establishments primarily engaged in manufacturing the following glass products are not included in this group of industries: Complete electric light bulbs, electronic or X-ray tubes (classified in Major Group 36, Electrical Machinery and Equipment), ophthalmic goods, including prescription sun glasses and eye-protective goggles (classified in industry 3851, Ophthalmic Goods), glass fabrics (classified in industry 2221, Weaving Mills, Synthetic), glass insulation (classified in industry 3296, Mineral Wool).

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3211--FLAT GLASS

This industry comprises establishments primarily engaged in manufacturing flat glass, including plate glass, window glass, rolled glass, figured and wire glass, opalescent and obscured glass, and cathedral and skylight glass. This industry also includes establishments that produce laminated glass from glass produced in the same establishment. Establishments primarily engaged in manufacturing laminated glass from purchased flat glass are classified in industry 3231, Glass Products, Made of Purchased Glass. For a detailed list of primary products of industry 3211, refer to table 6A, product codes 3211122 to 3211498 and 3231311 to 3231698.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Flat Glass Industry in 1963 totaled \$549 million. This amount included shipments of flat and laminated glass (primary prod-

ucts), and other products (secondary products) valued at \$536 million, and miscellaneous receipts at \$13 million. Separate value of shipments data for primary and secondary products are withheld to avoid disclosing figures for individual companies.

This industry's shipments of flatglass, including laminated in 1963 represented 90 percent of its total product shipments. The industry specialization ratio in 1958 was also 90 percent.

The production index for the primary products of the industry increased to 139 in 1963 from the 1958 level of 98. The unit value index for 1963 was 107 compared to 112 in 1958. The computation of the indexes included laminated glass made in the Flat Glass Industry (3211) and laminated glass made in the Products of Purchased Glass Industry (3231). Both indexes were computed on a basis of 1954 = 100.

Table 6 presents data for the total "shipments and interplant transfers" of flat glass. It should be noted, however, that some of the flat glass reported as "shipments and interplant transfers" does not reach the ultimate consumer as flat glass, but is instead used by establishments in industry 3231 in the production of laminated glass and other glass products. These data are shown in table 7 for industry 3231.

A quarterly survey on Business and Defense Services Administration form BDSAF-375, "Flat Glass" collects statistics on flat glass (except laminated glass—code 32113 and other flat glass—code 3211498) in the same detail that is presented in this report. These statistics are summarized and published quarterly in Current Industrial Reports Series BDSAF-375, Flat Glass.

#### 3221—GLASS CONTAINERS

This industry comprises establishments primarily engaged in manufacturing glass containers for commercial packing and bottling, and for home canning. Products of this industry may be machine-made or hand-made and include carboys, cosmetic jars, fruit jars, medicine bottles, milk bottles, vials, and beverage and beer bottles. For a more detailed list of primary products of industry 3221, refer to table 6A, product codes 3221011 to 3221062.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Glass Containers Industry in 1963 totaled \$1,004 million. This amount included shipments of glass containers (primary products), valued at \$973 million, shipments of other products (secondary products) valued at \$7 million and miscellaneous receipts at \$24 million.

This industry's shipments of glass containers in 1963 represented 99 percent of its total product shipments. The industry specialization ratio in 1958 was also 99 percent.

Shipments of glass containers by this industry in 1963 represented 99 percent of all shipments of these products (\$982 million) by all industries. In 1958 the coverage ratio was also 99 percent. Other industries shipping glass containers (primary products) consisted mainly of industry 3229, Pressed and Blown Glass, N.E.C.

The production index for the primary products of the industry increased to 141 in 1963 from the 1958 level of 114. The unit value index for 1963 was 111 compared to 117 in 1958. Both indexes were computed on a basis of 1954 = 100.

A monthly survey on Census Form M32G, "Glass Containers," collects statistics on quantity of machine-made containers in the same detail that is presented in this re-



port. These statistics are summarized and published monthly in Current Industrial Reports, Series M32G, Glass Containers.

#### 3229—PRESSED AND BLOWN GLASS AND GLASSWARE, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing glass and glassware, not elsewhere classified, pressed, blown, or shaped from glass produced in the same establishment. Establishments primarily engaged in manufacturing textile type glass fibers are also included in this industry, but establishments primarily engaged in manufacturing glass wool insulation products are classified in industry 3296, Mineral Wool.

Establishments primarily engaged in the production of pressed lenses for headlights, beacons, and lanterns are also included in this industry, but establishments primarily engaged in the production of optical lenses are classified in industry 3831, Optical Instruments and Lenses. Establishments primarily engaged in manufacturing glass containers are classified in industry 3221, Glass Containers, and complete electric light bulbs in industry 3641, Electric Lamps. For a detailed list of products of industry 3229, refer to table 6A, product codes 3229111 to 3229417.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Pressed and Blown Glass, N.E.C., Industry in 1963 totaled \$631 million. This amount included shipments of pressed and blown glass, n.e.c., (primary products), valued at \$600 million, shipments of other products (secondary products) valued at \$23 million, and miscellaneous receipts at \$8 million.

This industry's shipments of pressed and blown glass, n.e.c., in 1963 represented 96 percent of its total product shipments. The industry specialization ratio in 1958 was 98 percent. Secondary products shipped by this industry in 1963 consisted mainly of glass containers and lighting fixtures.

Shipments of pressed and blown glass, n.e.c., by this industry in 1963 represented 97 percent of all shipments of these products (\$615 million) by all industries. In 1958 the coverage ratio was also 97 percent. Other industries shipping pressed and blown glass, n.e.c. (primary products) consisted mainly of industry 3221, Glass Containers, \$3 million; and industry 3296, Mineral Wool, \$7 million.

An annual survey on Census Form MA-32E, "Consumer, Scientific, Technical and Industrial Glassware" (formerly "Pressed and Blown Glassware") collects statistics in the same detail that is presented in this report. These statistics are summarized and published annually in Current Industrial Reports, Series M32E, "Consumer, Scientific, Technical and Industrial Glassware" (formerly "Pressed and Blown Glassware").

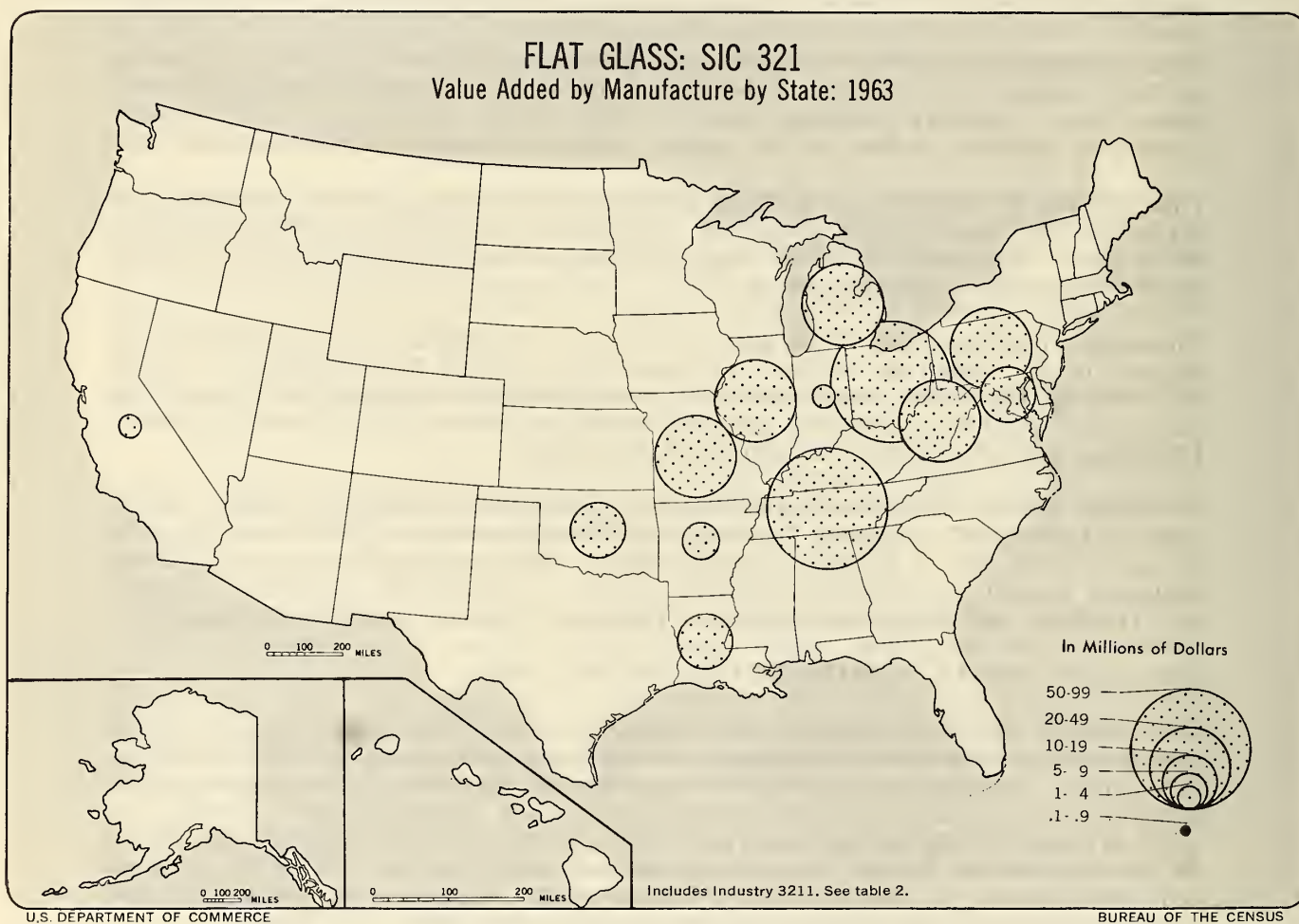
#### 3231—GLASS PRODUCTS, MADE OF PURCHASED GLASS

This industry comprises establishments primarily engaged in manufacturing glass products from purchased glass, including laminated glass, tempered glass, stained, leaded, ornamented, and decorated glass; mirrors; cutware; scientific-apparatus glass; glass novelties; mosaic glass; cut, beveled; and etched glass. Establishments primarily engaged in manufacturing optical lenses and ophthalmic lenses are classified in Major Group 38, Instruments and Related Products; glass insulation in industry 3296; Mineral Wool and glass fabrics in industry 2221, Weaving Mills, Synthetic. For a detailed list of products of industry 3231, refer to table 6A, product codes 3231511 to 3231698.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Products of Purchased Glass Industry in 1963 totaled \$627 million. This amount included shipments of primary and secondary products and miscellaneous receipts. Separate value of shipments data for primary and secondary products and miscellaneous receipts are withheld to avoid disclosing figures for individual companies.

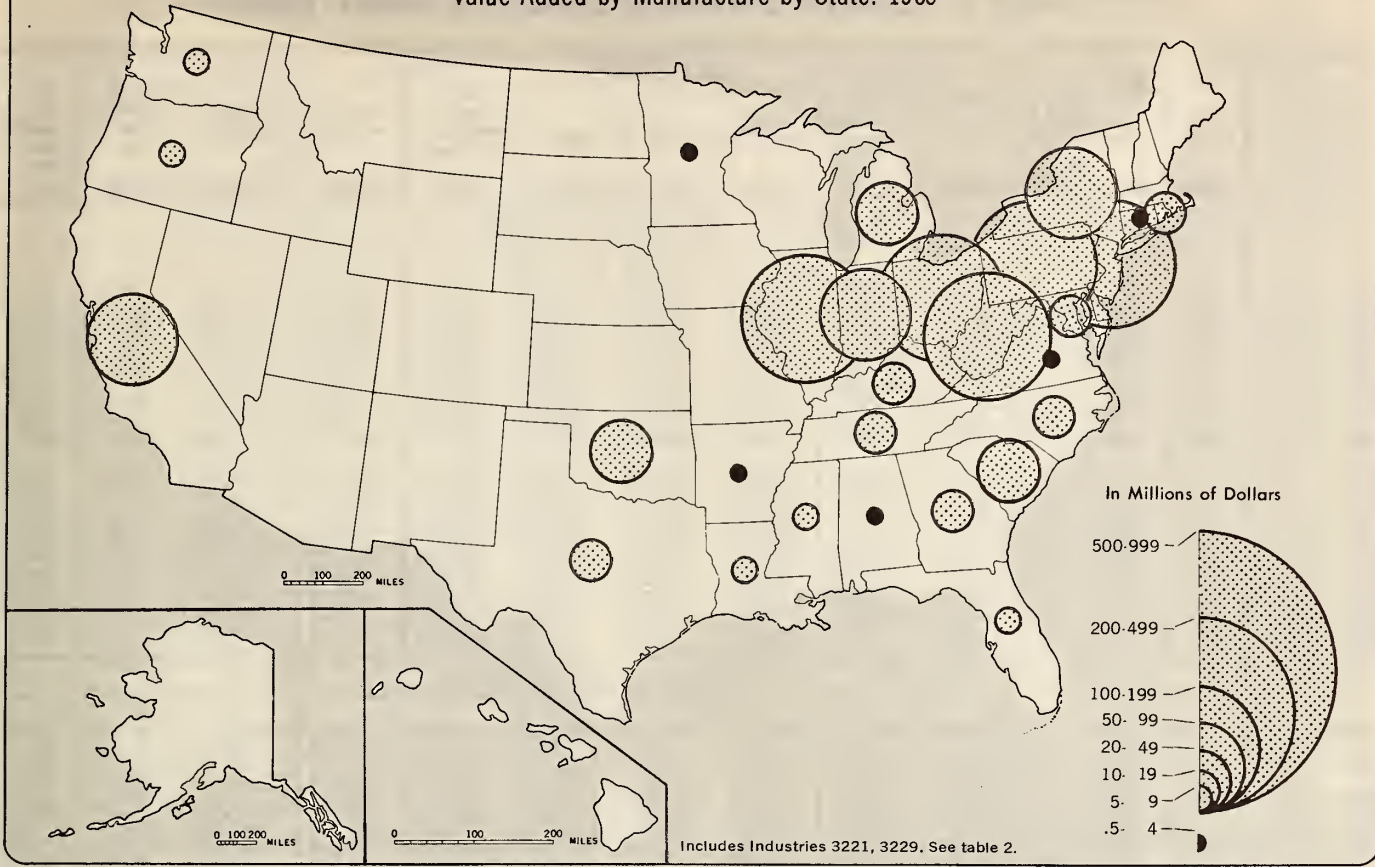
This industry's shipments of products of purchased glass in 1963 represented over 90 percent of its total product shipments. The industry specialization ratio in 1958 was 98 percent.





# PRESSED AND BLOWN GLASSWARE: SIC 322

Value Added by Manufacture by State: 1963



# PRODUCTS OF PURCHASED GLASS: SIC 323

Value Added by Manufacture by State: 1963

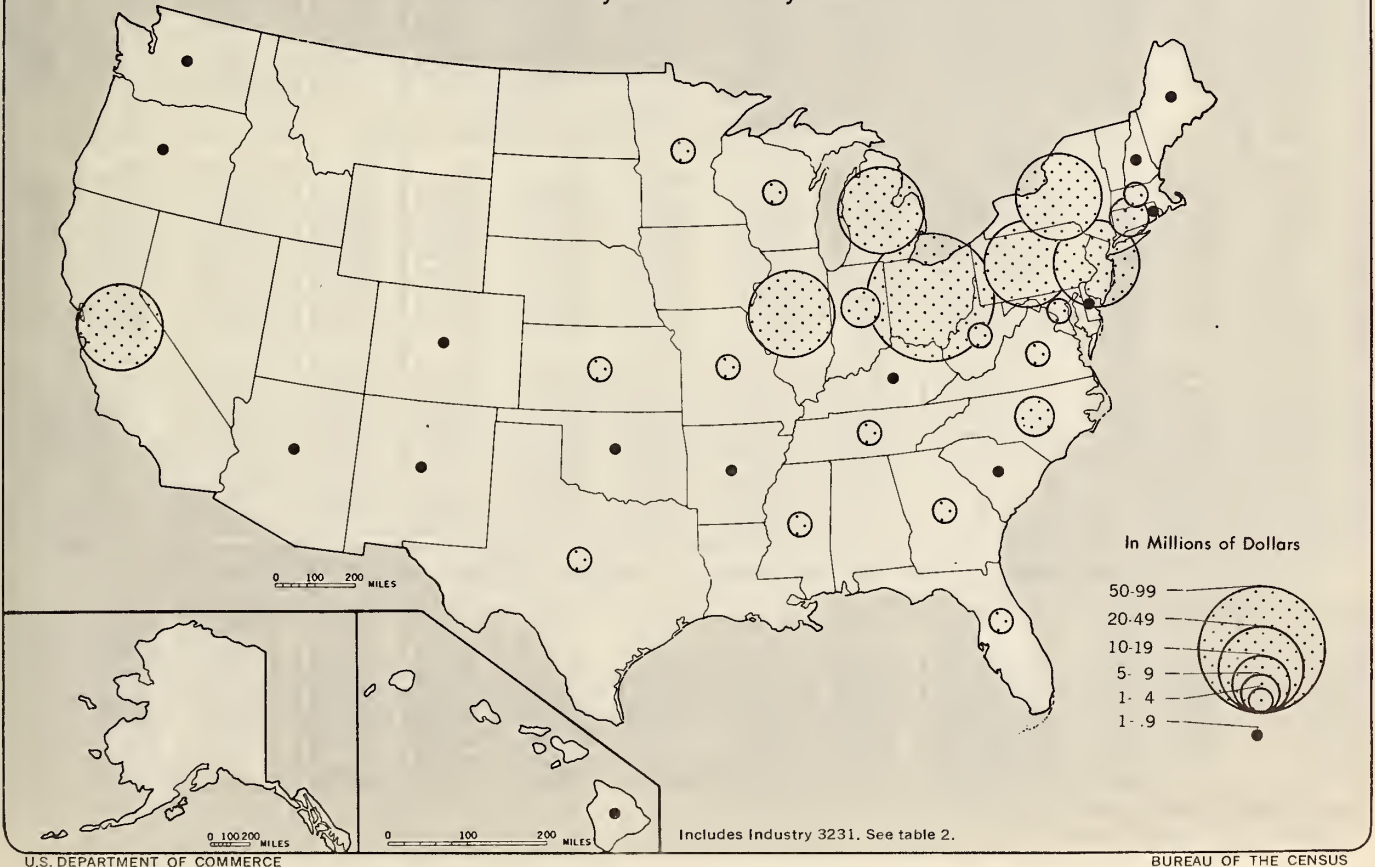


TABLE 1. General Statistics: 1963 and Earlier Years

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3211.—FLAT GLASS   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....   | 11                         | 31                | 30   | 22,815            | 172,214              | 19,440             | 39,704               | 143,752            | 364,466  | 185,879                           | 549,390                            | 28,244  | 290   | (D)                                      |
| 1962 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 22,366            | 162,556              | 19,110             | 38,833               | 135,951            | 315,189  | 176,159                           | 490,681                            | 33,982  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 21,159            | 146,221              | 17,938             | 35,493               | 120,681            | 284,585  | 164,731                           | 448,483                            | 39,013  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 23,471            | 167,626              | 20,010             | 41,478               | 140,203            | 345,197  | 180,492                           | 529,944                            | 36,132  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 27,280            | 180,616              | 23,841             | 46,962               | 155,998            | 400,516  | 174,872                           | 557,431                            | 18,866  | (NA)  | (NA)                                     |
| 1958.....   | 14                         | 32                | 31   | 21,179            | 133,551              | 17,625             | 35,867               | 110,675            | 263,151  | 115,115                           | 384,711                            | 21,607  | 290   | (D)                                      |
| 1957 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 26,105            | 163,356              | 22,746             | 46,048               | 138,694            | 315,863  | 144,548                           | 458,038                            | 86,509  | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 26,628            | 165,528              | 23,332             | 49,494               | 143,985            | 327,358  | 148,087                           | 467,275                            | 101,320   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 26,482            | 159,921              | 23,294             | 49,726               | 140,279            | 346,475  | 146,479                           | 492,088                            | 12,790  | (NA)  | (NA)                                     |
| 1954.....   | 16                         | 32                | 30   | 24,559            | 132,509              | 21,389             | 44,344               | 114,966            | 247,175  | 119,576                           | 372,689                            | 30,964  | 290   | (D)                                      |
| 1953 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 25,819            | 129,769              | 22,779             | 46,217               | 113,711            | 224,583  | 111,591                           | 336,174                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 23,206            | 107,870              | 20,435             | 41,966               | 94,521             | 191,080  | 91,321                            | 282,401                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 26,401            | 114,907              | 23,447             | 49,006               | 101,066            | 211,498  | 104,880                           | 316,378                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 26,286            | 103,996              | 23,685             | 48,954               | 92,208             | 201,555  | 99,539                            | 301,094                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 23,329            | 84,081               | 20,409             | 41,112               | 73,504             | 152,284  | 82,847                            | 235,131                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....   | (NA)                       | 32                | (NA)   | 25,268            | 77,940               | 22,563             | 46,966               | 67,861             | 158,746  | 64,736                            | 223,715                            | (NA)  | (NA)  | (NA)                                     |
| 1939.....   | (NA)                       | 37                | (NA)   | 18,638            | 28,161               | 16,739             | (NA)                 | 24,009             | 68,540   | 33,849                            | 102,389                            | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>3</sup> .....   | (NA)                       | 39                | (NA)   | (NA)              | (NA)                 | 20,583             | (NA)                 | 30,598             | 82,903   | 44,450                            | 127,353                            | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3221.—GLASS CONTAINERS   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....   | 40                         | 113               | 105  | 59,987            | 327,956              | 53,476             | 107,055              | 278,691            | 629,608  | 392,541                           | 1,004,464                          | 53,805  | 99  | 99                                       |
| 1962 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 60,033            | 326,733              | 53,348             | 106,933              | 275,994            | 612,953  | 375,507                           | 987,620                            | 53,630  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 60,152            | 314,480              | 53,653             | 106,566              | 265,058            | 601,248  | 366,673                           | 967,405                            | 68,930  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 58,531            | 298,251              | 52,027             | 104,309              | 251,420            | 576,529  | 375,239                           | 939,177                            | 34,777  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 56,240            | 271,948              | 50,109             | 98,796               | 228,872            | 561,292  | 354,610                           | 915,611                            | 32,898  | (NA)  | (NA)                                     |
| 1958.....   | 42                         | 100               | 92   | 54,937            | 259,893              | 48,635             | 97,622               | 218,358            | 532,469  | 333,554                           | 862,117                            | 31,164  | 99  | 99                                       |
| 1957 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 54,255            | 238,554              | 48,449             | 97,428               | 203,580            | 502,360  | 315,446                           | 797,141                            | 45,370  | 98  | 100                                      |
| 1956 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 51,574            | 230,590              | 46,256             | 94,201               | 195,817            | 470,411  | 294,503                           | 758,092                            | 34,423  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 51,138            | 212,140              | 45,770             | 92,138               | 179,904            | 422,696  | 276,073                           | 693,703                            | 23,865  | (NA)  | (NA)                                     |
| 1954.....   | 38                         | 85                | 83   | 49,410            | 195,944              | 44,076             | 87,672               | 166,107            | 384,647  | 267,222                           | 646,104                            | 26,542  | 98  | 99                                       |
| 1953 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 50,605            | 189,514              | 45,306             | 89,857               | 163,281            | 358,465  | 255,164                           | 613,629                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 47,569            | 168,976              | 42,938             | 86,674               | 143,767            | 325,674  | 252,841                           | 564,494                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 48,159            | 162,498              | 43,541             | 87,478               | 138,828            | 308,093  | 254,852                           | 548,918                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 42,279            | 131,889              | 38,235             | 77,546               | 113,104            | 264,811  | 205,118                           | 455,902                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 40,303            | 119,977              | 36,242             | 74,137               | 101,592            | 223,746  | 185,362                           | 395,081                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....   | (NA)                       | 87                | (NA)   | 47,132            | 126,503              | 41,943             | 87,530               | 107,101            | 252,069  | 191,961                           | 422,614                            | (NA)  | (D)   | (D)                                      |
| 1939.....   | (NA)                       | 77                | (NA)   | 29,357            | 43,023               | 25,753             | (NA)                 | 34,181             | 98,378   | 59,894                            | 158,272                            | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>3</sup> .....   | (NA)                       | 80                | (NA)   | (NA)              | (NA)                 | 28,422             | (NA)                 | 37,288             | 93,581   | 69,136                            | 162,717                            | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3229.—PRESSED AND BLOWN GLASS, N.E.C.  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963 <sup>2</sup> .....   | 75                         | 107               | 95   | 37,999            | 207,292              | 33,057             | 64,855               | 167,921            | 472,212  | 167,473                           | 630,945                            | 22,664  | 96  | 97                                       |
| 1962 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 38,137            | 199,651              | 33,117             | 64,718               | 161,151            | 448,081  | 174,544                           | 619,471                            | 24,420  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 37,443            | 190,388              | 32,380             | 62,730               | 153,794            | 425,338  | 163,938                           | 584,751                            | 27,554  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 37,078            | 181,817              | 34,252             | 67,545               | 162,064            | 408,843  | 173,282                           | 568,917                            | 41,816  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 37,972            | 184,001              | 33,361             | 65,771               | 152,257            | 398,648  | 151,789                           | 547,473                            | (33,827)  | (NA)  | (NA)                                     |
| 1958.....   | 111                        | 140               | 98   | 35,358            | 161,296              | 30,473             | 58,974               | 131,851            | 312,342  | 128,892                           | 445,361                            | 19,387  | 98  | 97                                       |
| 1957 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 46,308            | 204,087              | 37,867             | 74,076               | 157,333            | 356,737  | 141,103                           | 488,886                            | 23,566  | 98  | 97                                       |
| 1956 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 45,006            | 188,767              | 37,677             | 71,496               | 144,266            | 345,765  | 134,936                           | 476,446                            | 26,458  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 43,337            | 174,339              | 36,304             | 70,450               | 134,877            | 318,630  | 130,145                           | 444,775                            | 17,493  | (NA)  | (NA)                                     |
| 1954.....   | (NA)                       | (4)               | (4)  | 41,924            | 158,623              | 35,006             | 66,673               | 121,776            | 294,192  | 117,757                           | 416,021                            | 10,875  | 98  | 96                                       |
| 1953 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 39,703            | 151,985              | 34,510             | 66,594               | 118,242            | 254,394  | 97,793                            | 352,187                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 39,391            | 133,664              | 33,436             | 64,667               | 104,779            | 230,107  | 84,658                            | 314,763                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 42,963            | 137,545              | 37,009             | 72,669               | 109,352            | 227,374  | 91,223                            | 318,595                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 41,650            | 122,065              | 36,238             | 69,536               | 97,611             | 239,041  | 81,181                            | 320,220                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 38,063            | 105,964              | 32,511             | 62,383               | 82,845             | 185,850  | 73,757                            | 259,605                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....   | (NA)                       | 107               | 126  | 42,170            | 103,784              | 37,474             | 75,249               | 86,853             | 169,449  | 69,863                            | 234,795                            | (NA)  | 96  | 91                                       |
| 1939.....   | (NA)                       | 115               | (NA)   | 31,320            | 38,975               | 27,330             | (NA)                 | 30,115             | 70,284   | 27,033                            | 97,317                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>3</sup> .....   | (NA)                       | 113               | (NA)   | (NA)              | (NA)                 | 30,046             | (NA)                 | 33,701             | 70,521   | 27,119                            | 97,649                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRIES 3211, 3221, 3229.—TOTALS FOR FLAT GLASS, GLASS CONTAINERS, AND PRESSED AND BLOWN GLASS, N.E.C. |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....   | (NA)                       | 251               | 230  | 120,801           | 707,462              | 105,923            | 211,614              | 590,364            | 1,466,286  | 745,893                           | 2,184,799                          | 102,923   | (NA)  | (NA)                                     |
| 1962 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 120,536           | 688,940              | 105,575            | 210,484              | 573,096            | 1,376,223  | 726,210                           | 2,097,772                          | 112,032   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 118,754           | 651,989              | 103,971            | 204,789              | 539,533            | 1,311,171  | 695,342                           | 2,000,639                          | 135,497   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 119,808           | 647,694              | 106,289            | 213,332              | 553,687            | 1,330,569  | 729,013                           | 2,038,038                          | 112,725   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 121,492           | 636,565              | 107,311            | 211,529              | 537,127            | 1,360,456  | 681,271                           | 2,020,515                          | 85,591  | (NA)  | (NA)                                     |
| 1958.....   | (NA)                       | 272               | 221  | 113,224           | 564,858              | 96,733             | 192,463              | 460,884            | 1,107,962  | 577,561                           | 1,692,189                          | 54,475  | (NA)  | (NA)                                     |
| 1957 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 126,668           | 605,697              | 109,062            | 217,552              | 499,607            | 1,174,960  | 601,097                           | 1,744,065                          | 155,445   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 123,208           | 584,885              | 107,265            | 215,191              | 484,068            | 1,143,534  | 577,526                           | 1,701,813                          | 162,201   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 120,957           | 546,400              | 105,368            | 211,314              | 455,060            | 1,087,801  | 522,697                           | 1,630,566                          | 54,148  | (NA)  | (NA)                                     |
| 1954.....   | (NA)                       | (NA)              | (NA)   | 115,893           | 487,076              | 100,471            | 198,689              | 402,849            | 926,014  | 504,555                           | 1,434,814                          | 68,381  | (NA)  | (NA)                                     |

See Footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees or<br>more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRIES 3211, 3221, 3229.—TOTALS FOR FLAT GLASS, GLASS CONTAINERS, AND PRESSED AND BLOWN GLASS, N.E.C.—Continued |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1953 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 116,127           | 471,268              | 102,595            | 202,668              | 395,234            | 837,442  | 464,548                           | 1,301,990                          | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 110,166           | 410,510              | 96,809             | 193,307              | 343,067            | 746,861  | 428,820                           | 1,161,658                          | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 117,523           | 414,950              | 103,997            | 209,153              | 349,246            | 746,965  | 450,955                           | 1,183,891                          | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 110,215           | 357,950              | 98,158             | 196,036              | 302,923            | 705,407  | 385,838                           | 1,077,216                          | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 101,695           | 310,022              | 89,162             | 177,632              | 257,941            | 561,880  | 341,966                           | 889,817                            | (NA)  | (NA)  | (NA)                                     |
| 1947 <sup>1</sup>   | (NA)                       | 245               | (NA)   | 114,570           | 308,227              | 101,980            | 209,745              | 261,815            | 580,264  | 326,560                           | 881,124                            | (NA)  | (NA)  | (NA)                                     |
| 1939  | (NA)                       | 229               | (NA)   | 79,315            | 110,159              | 69,822             | (NA)                 | 88,305             | 237,202  | 120,776                           | 357,978                            | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>3</sup>   | (NA)                       | 232               | (NA)   | 87,007            | 119,391              | 79,051             | (NA)                 | 101,587            | 247,005  | 140,705                           | 387,710                            | (NA)  | (NA)  | (NA)                                     |
| 1935  | (NA)                       | 213               | (NA)   | 73,350            | 85,828               | 67,138             | (NA)                 | 71,443             | 173,884  | 110,041                           | 283,925                            | (NA)  | (NA)  | (NA)                                     |
| 1933  | (NA)                       | 213               | (NA)   | 54,297            | 53,858               | 49,797             | (NA)                 | 45,222             | 128,538  | 63,410                            | 191,948                            | (NA)  | (NA)  | (NA)                                     |
| 1931  | (NA)                       | 229               | (NA)   | (NA)              | (NA)                 | 49,917             | (NA)                 | 57,882             | 142,690  | 73,575                            | 216,265                            | (NA)  | (NA)  | (NA)                                     |
| 1929  | (NA)                       | 263               | (NA)   | 73,396            | 103,382              | 67,527             | (NA)                 | 87,795             | 200,525  | 103,294                           | 303,819                            | (NA)  | (NA)  | (NA)                                     |
| 1927  | (NA)                       | 269               | (NA)   | 71,454            | 95,207               | 65,825             | (NA)                 | 81,353             | 172,483  | 109,911                           | 282,394                            | (NA)  | (NA)  | (NA)                                     |
| 1925  | (NA)                       | 310               | (NA)   | 74,786            | 100,637              | 69,371             | (NA)                 | 86,736             | 182,307  | 113,652                           | 295,959                            | (NA)  | (NA)  | (NA)                                     |
| 1923  | (NA)                       | 333               | (NA)   | 79,629            | 105,417              | 73,335             | (NA)                 | 89,898             | 196,183  | 113,170                           | 309,353                            | (NA)  | (NA)  | (NA)                                     |
| 1921  | (NA)                       | 329               | (NA)   | 59,741            | 80,665               | 54,748             | (NA)                 | 68,224             | 127,435  | 86,036                            | 213,471                            | (NA)  | (NA)  | (NA)                                     |
| 1919  | (NA)                       | 371               | (NA)   | 83,596            | 100,891              | 77,520             | (NA)                 | 87,527             | 171,104  | 90,780                            | 261,884                            | (NA)  | (NA)  | (NA)                                     |
| 1914  | (NA)                       | 348               | (NA)   | 78,711            | 55,205               | 74,502             | (NA)                 | 48,656             | 77,068   | 46,017                            | 123,085                            | (NA)  | (NA)  | (NA)                                     |
| 1909  | (NA)                       | 363               | (NA)   | 72,486            | 44,293               | 68,911             | (NA)                 | 39,300             | 59,976   | 32,119                            | 92,095                             | (NA)  | (NA)  | (NA)                                     |
| 1904  | (NA)                       | 399               | (NA)   | 67,009            | 41,228               | 63,969             | (NA)                 | 37,288             | 53,462   | 26,146                            | 79,608                             | (NA)  | (NA)  | (NA)                                     |
| 1899  | (NA)                       | 355               | (NA)   | 55,086            | 29,877               | 52,818             | (NA)                 | 27,085             | 39,809   | 16,731                            | 56,540                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3231.—PRODUCTS OF PURCHASED GLASS  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963  | 1,016                      | 1,044             | 249  | 26,158            | 138,275              | 21,669             | 43,384               | 103,890            | 309,734  | 320,339                           | 627,327                            | 13,223  | <sup>2</sup> 90                                     | (D)                                      |
| 1962 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 27,710            | 138,130              | 22,914             | 44,948               | 103,532            | 301,483  | 268,725                           | 562,101                            | 18,482  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 26,967            | 127,677              | 22,184             | 43,095               | 95,097             | 286,896  | 247,633                           | 520,569                            | 7,404   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 27,965            | 131,848              | 23,203             | 44,780               | 100,658            | 314,357  | 260,327                           | 557,811                            | 13,629  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 28,628            | 135,345              | 24,426             | 46,839               | 105,305            | 311,143  | 293,220                           | 581,079                            | 20,201  | (NA)  | (NA)                                     |
| 1958 <sup>1</sup>   | 1,002                      | 1,031             | 239  | 24,024            | 109,570              | 19,737             | 38,124               | 83,125             | 242,657  | 226,031                           | 468,809                            | 16,526  | 98  | 81                                       |
| 1957 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 23,367            | 103,548              | 19,249             | 37,413               | 80,488             | 251,709  | 205,192                           | 445,789                            | (S)   | 96  | 71                                       |
| 1956 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 24,215            | 105,755              | 20,157             | 40,497               | 83,532             | 250,428  | 212,686                           | 449,169                            | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 23,462            | 103,626              | 19,839             | 41,105               | 83,522             | 248,011  | 230,011                           | 468,487                            | 34,691  | (NA)  | (NA)                                     |
| 1954  | (NA)                       | ( <sup>4</sup> )  | ( <sup>4</sup> )                                 | 21,614            | 87,529               | 18,203             | 36,377               | 68,285             | 193,282  | 190,435                           | 386,695                            | 5,590   | 97  | 75                                       |
| 1953 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 28,647            | 110,685              | 24,466             | 46,217               | 88,031             | 231,573  | 190,985                           | 422,558                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 29,026            | 97,955               | 25,809             | 51,941               | 80,878             | 215,510  | 186,709                           | 402,153                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 29,130            | 89,734               | 25,908             | 51,782               | 75,520             | 205,899  | 180,682                           | 386,515                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 24,813            | 76,581               | 22,295             | 47,189               | 64,861             | 187,714  | 166,140                           | 353,788                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 20,756            | 61,525               | 17,762             | 35,229               | 48,878             | 140,761  | 107,785                           | 247,380                            | (NA)  | (NA)  | (NA)                                     |
| 1947  | (NA)                       | 1,048             | (NA)   | 23,920            | 61,508               | 20,748             | 38,884               | 48,449             | 129,857  | 84,595                            | 214,873                            | (NA)  | (NA)  | (NA)                                     |
| 1939  | (NA)                       | 557               | (NA)   | 12,195            | 15,168               | 10,012             | (NA)                 | 10,615             | 23,432   | 26,454                            | 49,886                             | (NA)  | (NA)  | (NA)                                     |
| 1937  | (NA)                       | 534               | (NA)   | 14,442            | 17,885               | 12,652             | (NA)                 | 13,981             | 47,265   | 40,744                            | 88,009                             | (NA)  | (NA)  | (NA)                                     |
| 1935  | (NA)                       | 532               | (NA)   | 12,256            | 13,967               | 10,687             | (NA)                 | 10,896             | 39,438   | 29,300                            | 68,738                             | (NA)  | (NA)  | (NA)                                     |
| 1933  | (NA)                       | 425               | (NA)   | 7,435             | 6,910                | 6,520              | (NA)                 | 5,559              | 14,292   | 18,585                            | 32,877                             | (NA)  | (NA)  | (NA)                                     |
| 1931  | (NA)                       | 610               | (NA)   | (NA)              | (NA)                 | 7,183              | (NA)                 | 8,650              | 19,077   | 17,250                            | 36,327                             | (NA)  | (NA)  | (NA)                                     |
| 1929  | (NA)                       | 735               | (NA)   | 12,721            | 19,987               | 10,811             | (NA)                 | 14,757             | 33,138   | 31,978                            | 65,116                             | (NA)  | (NA)  | (NA)                                     |
| 1927  | (NA)                       | 650               | (NA)   | 10,430            | 16,839               | 8,773              | (NA)                 | 12,575             | 28,786   | 24,967                            | 53,753                             | (NA)  | (NA)  | (NA)                                     |
| 1925  | (NA)                       | 628               | (NA)   | 10,841            | 16,871               | 9,013              | (NA)                 | 12,621             | 29,848   | 33,044                            | 62,892                             | (NA)  | (NA)  | (NA)                                     |
| 1923  | (NA)                       | 629               | (NA)   | 10,230            | 14,403               | 8,621              | (NA)                 | 10,921             | 26,595   | 31,900                            | 58,495                             | (NA)  | (NA)  | (NA)                                     |
| 1921  | (NA)                       | 642               | (NA)   | 8,395             | 11,579               | 7,050              | (NA)                 | 8,807              | 18,059   | 20,890                            | 38,949                             | (NA)  | (NA)  | (NA)                                     |
| 1919  | (NA)                       | 802               | (NA)   | 10,865            | 12,494               | 9,079              | (NA)                 | 8,974              | 22,417   | 26,857                            | 49,274                             | (NA)  | (NA)  | (NA)                                     |
| 1914  | (NA)                       | 817               | (NA)   | 12,902            | 8,613                | 11,251             | (NA)                 | 6,638              | 13,478   | 13,157                            | 26,635                             | (NA)  | (NA)  | (NA)                                     |
| 1909  | (NA)                       | 731               | (NA)   | 13,851            | 8,758                | 12,356             | (NA)                 | 7,013              | 13,521   | 12,151                            | 25,672                             | (NA)  | (NA)  | (NA)                                     |
| 1904  | (NA)                       | 572               | (NA)   | 12,073            | 6,842                | 11,028             | (NA)                 | 5,734              | 11,534   | 9,209                             | 20,743                             | (NA)  | (NA)  | (NA)                                     |
| 1899  | (NA)                       | 514               | (NA)   | 8,213             | 4,390                | 7,469              | (NA)                 | 3,625              | 8,223  | 8,531                             | 16,754                             | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: **All employees:** For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** For 1947 and prior years figures represent an average of 12 monthly figures. **Value added:** Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. **Cost of materials:** Cost of materials prior to 1954 excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. **Value of shipments:** Value of shipments for years prior to 1954 excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

n.e.c. Not elsewhere classified.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufacturing volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>This is a minimum percentage. The exact figure cannot be shown without disclosing figures for individual companies.

<sup>3</sup>"Flat Glass," "Glass Containers," and "Pressed and Blown Glassware, N.E.C." constituted a single classification "Glass" prior to 1937. The separate industry figures shown for 1937-1963 have been combined in order that comparable statistics can be shown for the period 1899-1963.

<sup>4</sup>Due to misclassification of small establishments in 1954 no separate establishment count is available for industries 3229 and 3231. Combined establishment count for industries 3229 and 3231 in 1954: 1,146 establishments; with 20 or more employees: 310.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                   | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3211.—FLAT GLASS                      |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                     | 31             | 30                                 | 22,815         | 172,214           | 19,440             | 39,704            | 143,752         | 364,466                              | 185,879           | 549,390            | 28,244                    | 21,179           | 263,151                              |
| Middle Atlantic....                            | 6              | 6                                  | 4,539          | 32,992            | 3,825              | 7,502             | 26,897          | 48,947                               | 53,154            | 100,094            | 1,271                     | 4,450            | 50,184                               |
| Pennsylvania.....                              | 6              | 6                                  | 4,539          | 32,992            | 3,825              | 7,502             | 26,897          | 48,947                               | 53,154            | 100,094            | 1,271                     | 4,450            | 50,184                               |
| North Central.....                             | 11             | 10                                 | 8,402          | 67,749            | 7,328              | 15,297            | 58,464          | 162,196                              | 73,011            | 235,296            | 7,664                     | 8,766            | 124,831                              |
| South and West.....                            | 14             | 14                                 | 9,874          | 71,473            | 8,287              | 16,905            | 58,391          | 153,323                              | 59,714            | 214,000            | 19,309                    | 7,963            | 88,136                               |
| West Virginia....                              | 5              | 5                                  | 3,051          | 22,726            | 2,607              | 5,201             | 19,107          | 35,032                               | 16,882            | 52,932             | 3,246                     | 2,851            | 27,904                               |
| INDUSTRY 3221.—GLASS CONTAINERS                |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                     | 113            | 105                                | 59,987         | 327,956           | 53,476             | 107,055           | 278,691         | 629,608                              | 392,541           | 1,004,464          | 53,805                    | 54,937           | 532,469                              |
| Middle Atlantic....                            | 35             | 30                                 | 19,796         | 103,320           | 17,709             | 34,474            | 88,108          | 199,839                              | 125,888           | 320,623            | 19,730                    | 19,064           | 169,298                              |
| Pennsylvania.....                              | 15             | 15                                 | 8,461          | 43,066            | 7,675              | 14,695            | 37,334          | 78,851                               | 49,604            | 127,216            | 4,721                     | 9,193            | 74,925                               |
| East North Central.                            | 24             | 23                                 | 17,157         | 93,008            | 15,467             | 31,258            | 80,324          | 175,781                              | 110,835           | 280,898            | 17,791                    | 16,096           | 154,887                              |
| Illinois.....                                  | 11             | 11                                 | 9,184          | 51,083            | 8,282              | 16,943            | 44,347          | 102,855                              | 60,389            | 159,172            | 3,465                     | 7,965            | 83,118                               |
| South Atlantic.....                            | 17             | 16                                 | 9,119          | 49,540            | 8,069              | 16,292            | 41,760          | 90,574                               | 56,173            | 143,296            | 5,638                     | 8,448            | 83,770                               |
| Maryland.....                                  | 3              | 3                                  | 1,824          | 10,385            | 1,542              | 3,420             | 8,335           | 15,252                               | 9,165             | 24,397             | 786                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West South Central.                            | 11             | 11                                 | 3,555          | 18,884            | 3,120              | 6,404             | 15,280          | 40,542                               | 24,837            | 63,826             | 1,975                     | 3,141            | 31,713                               |
| Pacific.....                                   | 18             | 18                                 | 7,729          | 49,966            | 6,737              | 13,805            | 41,879          | 97,553                               | 59,246            | 155,534            | 5,953                     | 6,307            | 75,591                               |
| All other divisions                            | 8              | 7                                  | 2,631          | 13,238            | 2,374              | 4,822             | 11,340          | 25,319                               | 15,562            | 40,287             | 2,718                     | 1,881            | 17,210                               |
| INDUSTRY 3229.—PRESSED AND BLOWN GLASS, N.E.C. |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                     | 107            | 95                                 | 37,999         | 207,292           | 33,057             | 64,855            | 167,921         | 472,212                              | 167,473           | 630,945            | 22,664                    | 35,358           | 312,342                              |
| Middle Atlantic....                            | 26             | 20                                 | 11,321         | 66,100            | 9,822              | 19,360            | 53,342          | 117,629                              | 43,796            | 159,990            | 5,734                     | 11,955           | 99,325                               |
| Pennsylvania.....                              | 15             | 14                                 | 4,922          | 26,412            | 4,229              | 8,006             | 21,182          | 49,897                               | 18,494            | 67,592             | 2,193                     | 5,505            | 44,661                               |
| East North Central.                            | 26             | 26                                 | 12,582         | 69,665            | 10,732             | 20,309            | 56,267          | 171,736                              | 60,897            | 230,113            | 4,604                     | 12,391           | 126,828                              |
| South Atlantic.....                            | 38             | 34                                 | 10,137         | 49,901            | 9,081              | 18,217            | 41,379          | 130,275                              | 43,838            | 171,196            | 9,282                     | 7,459            | 51,102                               |
| Pacific.....                                   | 4              | 4                                  | 388            | 2,401             | 338                | 688               | 1,948           | 4,752                                | 1,531             | 5,176              | 130                       | 105              | 1,020                                |
| California.....                                | 4              | 4                                  | 388            | 2,401             | 338                | 688               | 1,948           | 4,752                                | 1,531             | 5,176              | 130                       | 105              | 1,020                                |
| All other divisions                            | 13             | 11                                 | 3,571          | 19,225            | 3,084              | 6,281             | 14,985          | 47,820                               | 17,411            | 64,470             | 2,914                     | 3,448            | 34,067                               |
| INDUSTRY 3231.—PRODUCTS OF PURCHASED GLASS     |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                     | 1,044          | 249                                | 26,158         | 138,275           | 21,669             | 43,384            | 103,890         | 309,734                              | 320,339           | 627,327            | 13,223                    | 24,024           | 242,657                              |
| New England.....                               | 54             | 13                                 | 1,200          | 5,863             | 1,020              | 2,032             | 4,298           | 10,500                               | 6,400             | 16,732             | 472                       | 1,204            | 9,694                                |
| Massachusetts....                              | 28             | 4                                  | 310            | 1,585             | 257                | 506               | 1,163           | 3,020                                | 995               | 3,946              | 153                       | 305              | 2,011                                |
| Connecticut.....                               | 14             | 6                                  | 663            | 3,414             | 573                | 1,139             | 2,574           | 5,972                                | 4,152             | 10,104             | 146                       | 597              | 4,997                                |
| Middle Atlantic....                            | 418            | 99                                 | 9,741          | 49,025            | 5,193              | 16,230            | 36,987          | 95,488                               | 87,236            | 182,382            | 3,449                     | 9,218            | 73,755                               |
| New York.....                                  | 212            | 41                                 | 3,789          | 18,283            | 3,156              | 6,244             | 13,621          | 33,413                               | 24,686            | 57,816             | 1,253                     | 3,899            | 30,864                               |
| New Jersey <sup>2</sup> .....                  | 110            | 36                                 | 2,992          | 14,577            | 2,571              | 5,170             | 10,900          | 26,865                               | 19,072            | 45,316             | 746                       | 2,028            | 13,695                               |
| Pennsylvania.....                              | 96             | 22                                 | 2,960          | 16,165            | 2,466              | 4,816             | 12,466          | 35,210                               | 43,478            | 79,250             | 1,450                     | 3,291            | 29,196                               |
| East North Central.                            | 208            | 66                                 | 9,238          | 56,237            | 7,587              | 15,299            | 42,861          | 145,515                              | 158,230           | 301,904            | 5,213                     | 8,600            | 124,882                              |
| Ohio.....                                      | 69             | 25                                 | 3,806          | 23,792            | 3,205              | 6,423             | 19,120          | 55,980                               | 72,727            | 125,836            | 3,126                     | 3,464            | 59,753                               |
| Indiana.....                                   | 19             | 8                                  | 875            | 4,338             | 738                | 1,475             | 3,260           | 7,743                                | 8,183             | 15,936             | 270                       | 635              | 4,984                                |
| Illinois.....                                  | 64             | 18                                 | 2,415          | 15,209            | 1,998              | 3,992             | 11,834          | 40,161                               | 39,785            | 79,724             | 896                       | 3,294            | 47,983                               |
| Michigan.....                                  | 38             | 11                                 | 1,879          | 11,558            | 1,423              | 2,943             | 7,616           | 39,127                               | 35,804            | 76,150             | 848                       | 1,024            | 11,096                               |
| Wisconsin.....                                 | 18             | 4                                  | 263            | 1,340             | 223                | 466               | 1,031           | 2,504                                | 1,731             | 4,258              | 73                        | 183              | 1,066                                |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                         | 1963              |                                       |                   |                      |                    |                      |                    |                                      |                   |                    | 1958                      |                  |                                      |
|--|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3231.—PRODUCTS OF PURCHASED GLASS—Continued |                   |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           |                  |                                      |
| West North Central.                                  | 50                | 7                                     | 461               | 2,309                | 354                | 671                  | 1,503              | 4,945                                | 5,471             | 10,396             | 334                       | 389              | 3,237                                |
| Missouri.....  | 25                | 4                                     | 255               | 1,299                | 199                | 373                  | 889                | 2,358                                | 1,579             | 3,937              | 167                       | 231              | 2,002                                |
| South Atlantic.....                                  | 95                | 29                                    | 2,656             | 10,719               | 2,197              | 4,487                | 7,880              | 20,397                               | 34,461            | 54,647             | 747                       | 2,629            | 16,898                               |
| Maryland.....  | 15                | 2                                     | 315               | 1,212                | 283                | 546                  | 1,018              | 2,029                                | 1,276             | 3,331              | 118                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Virginia.....  | 9                 | 7                                     | 600               | 2,453                | 487                | 990                  | 1,558              | 4,534                                | 11,631            | 16,269             | 203                       | 585              | 4,647                                |
| West Virginia....                                    | 20                | 6                                     | 370               | 1,247                | 299                | 658                  | 1,049              | 2,677                                | 2,119             | 4,755              | 59                        | 404              | 1,813                                |
| North Carolina...                                    | 14                | 6                                     | 827               | 3,610                | 711                | 1,445                | 2,853              | 6,616                                | 13,085            | 19,440             | 240                       | 833              | 5,338                                |
| Georgia.....   | 6                 | 3                                     | 206               | 914                  | 142                | 299                  | 454                | 1,948                                | 2,521             | 4,310              | 24                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Florida.....   | 27                | 4                                     | 296               | 1,115                | 242                | 481                  | 821                | 2,319                                | 3,703             | 6,153              | 88                        | 446              | 2,568                                |
| Mountain.....  | 14                | 3                                     | 130               | 648                  | 108                | 214                  | 393                | 1,190                                | 1,245             | 2,449              | 64                        | 68               | 449                                  |
| Pacific.....   | 146               | 23                                    | 1,740             | 9,658                | 1,359              | 2,745                | 6,899              | 21,849                               | 19,368            | 41,061             | 1,933                     | 1,320            | 9,839                                |
| California.....                                      | 121               | 22                                    | 1,624             | 9,088                | 1,261              | 2,545                | 6,451              | 20,753                               | 18,176            | 38,789             | 1,625                     | 1,226            | 8,927                                |
| All other divisions                                  | 59                | 9                                     | 992               | 3,816                | 851                | 1,706                | 3,069              | 9,850                                | 7,928             | 17,756             | 1,011                     | 596              | 3,903                                |
| Texas.....   | 28                | 4                                     | 247               | 1,064                | 204                | 420                  | 847                | 2,671                                | 1,540             | 4,190              | 263                       | 161              | 1,070                                |

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3211, Flat Glass: East North Central—Ohio, 4 (4,143); Indiana, 2 (250-499); Illinois, 2 (500-999); Michigan, 1 (1,000-2,499); Missouri, 2 (1,000-2,499); South Atlantic—Maryland, 1 (500-999); East South Central—Tennessee, 3 (2,500-4,999); West South Central—Arkansas, 1 (250-499); Louisiana, 1 (500-999); Oklahoma, 2 (1,000-2,499); Pacific—California, 1 (20-99).

SIC 3221, Glass Containers: New England—Connecticut, 1 (100-249); Middle Atlantic—New York, 7 (1,000-2,499); New Jersey, 13 (9,395); East North Central—Ohio, 2 (1,000-2,499); Indiana, 9 (6,586); Michigan, 2 (2,099); West North Central—Minnesota, 2 (2,500-4,999); South Atlantic—West Virginia, 6 (4,213); North Carolina, 3 (250-499); South Carolina, 1 (500-999); Georgia, 2 (1,000-2,499); Florida, 2 (500-999); East South Central—Tennessee, 1 (500-999); Alabama, 1 (250-499); Mississippi, 2 (500-999); West South Central—Arkansas, 1 (100-249); Louisiana, 2 (250-499); Oklahoma, 5 (1,000-2,499); Texas, 3 (1,000-2,499); Mountain—Arizona, 1 (1-19); Pacific—Washington, 1 (250-499); Oregon, 1 (250-499); California, 16 (5,000-9,999).

SIC 3229, Pressed and Blown Glass, n.e.c.: New England—Rhode Island, 2 (1,000-2,499); Middle Atlantic—New York, 8 (2,500-4,999); New Jersey, 3 (1,842); East North Central—Ohio, 19 (10,000 and over); Indiana, 4 (1,101); Illinois, 2 (100-249); Michigan, 1 (500-999); South Atlantic—Virginia, 1 (250-499); West Virginia, 34 (6,946); North Carolina, 1 (1,000-2,499); South Carolina, 2 (1,000-2,499); East South Central—Kentucky, 4 (1,000-2,499); Tennessee, 1 (250-499); Mississippi, 1 (20-99); West South Central—Arkansas, 1 (100-249); Oklahoma, 3 (500-999); Texas, 1 (1-19).

SIC 3231, Products of Purchased Glass: New England—Maine, 1 (20-99); New Hampshire, 3 (20-99); Rhode Island, 8 (20-99); West North Central—Minnesota, 16 (100-249); Iowa, 2 (1-19); Nebraska, 2 (1-19); Kansas, 5 (20-99); South Atlantic—Delaware, 2 (20-99); District of Columbia, 1 (1-19); South Carolina, 1 (1-19); East South Central—Kentucky, 5 (20-99); Tennessee, 10 (466); Mississippi, 2 (100-299); West South Central—Arkansas, 4 (20-99); Louisiana, 5 (1-19); Oklahoma, 5 (20-99); Mountain—Colorado, 7 (20-99); New Mexico, 2 (1-19); Arizona, 2 (20-99); Utah, 3 (1-19); Pacific—Washington, 7 (20-99); Oregon, 12 (20-99); Hawaii, 6 (20-99).

<sup>2</sup>This state or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.

TABLE 3. Detailed Statistics: 1963

| Item   | Flat glass<br>(SIC 3211) | Glass containers<br>(SIC 3221) | Pressed and blown<br>glass, n.e.c.<br>(SIC 3229) | Products of<br>purchased glass<br>(SIC 3231) |
|--|--------------------------|--------------------------------|--|--|
| Primary product specialization ratio <sup>1</sup> .....        | 2.90                     | .99                            | .96  | 2.90   |
| Coverage ratio <sup>2</sup> .....                              | (D)                      | 99                             | 97   | (D)  |
| Establishments, total.....number..                             | 31                       | 113                            | 107  | 1,044  |
| With 1 to 19 employees.....do....                              | 1                        | 8                              | 12   | 795  |
| With 20 to 99 employees.....do....                             | 4                        | 2                              | 21   | 195  |
| With 100 employees or more.....do....                          | 26                       | 103                            | 74   | 54   |
| Proprietors and working partners.....do....                    | -                        | 6                              | 5  | 562  |
| All employees (average for the year).....do....                | 22,815                   | 59,987                         | 37,999   | 26,158                                       |
| Payroll (all employees), total for year.....\$1,000..          | 172,214                  | 327,956                        | 207,292  | 138,275                                      |
| Production workers:  |                          |                                |  |  |
| Average for the year.....number..                              | 19,440                   | 53,476                         | 33,057   | 21,669                                       |
| March.....do....   | 18,591                   | 51,909                         | 32,575   | 20,818                                       |
| May.....do....   | 18,853                   | 54,070                         | 32,790   | 21,374                                       |
| August.....do....  | 19,659                   | 56,384                         | 33,140   | 22,087                                       |
| November.....do....  | 20,652                   | 51,547                         | 33,707   | 22,424                                       |
| Man-hours.....1,000..  | 39,704                   | 107,055                        | 64,855   | 43,384                                       |
| January-March.....do....                                       | 9,365                    | 25,742                         | 15,534   | 10,465                                       |
| April-June.....do....  | 9,604                    | 27,499                         | 16,424   | 10,902                                       |
| July-September.....do....                                      | 9,939                    | 28,172                         | 16,481   | 10,872                                       |
| October-December.....do....                                    | 10,796                   | 25,642                         | 16,416   | 11,145                                       |
| Wages.....\$1,000..  | 143,752                  | 278,691                        | 167,921  | 103,890                                      |
| Cost of materials, etc., total.....do....                      | 185,879                  | 392,541                        | 167,473  | 320,339                                      |
| Materials, parts, containers, and supplies consumed.....do.... | 146,029                  | 315,938                        | 130,544  | 281,018                                      |
| Cost of resales.....(D)  |                          | 20,302                         | 4,377  | 28,276                                       |
| Fuels consumed.....do....                                      | 20,615                   | 40,798                         | 23,640   | 4,840  |
| Electric energy:   |                          |                                |  |  |
| Purchased:   |                          |                                |  |  |
| Quantity.....million kw.-hrs..                                 | 883                      | 1,731                          | 876  | 276  |
| Cost.....\$1,000..   | 7,087                    | 15,170                         | 8,192  | 3,709  |
| Generated less sold.....million kw.-hrs..                      | (D)                      | 18                             | -  | (D)  |
| Contract work.....\$1,000..                                    | (D)                      | 333                            | 720  | 2,499  |
| Value of shipments (including resales), total.....do....       | 549,390                  | 1,004,464                      | 630,945  | 627,327                                      |
| Value of resales.....do....                                    | 12,705                   | 22,038                         | 5,843  | 31,018                                       |
| Value added by manufacture, adjusted.....do....                | 364,466                  | 629,608                        | 472,212  | 309,734                                      |
| Manufacturers' inventories:                                    |                          |                                |  |  |
| Beginning of year, total.....do....                            | 71,489                   | 120,575                        | 85,544   | 85,208                                       |
| Finished products.....do....                                   | 21,019                   | 87,607                         | 49,638   | 40,456                                       |
| Work-in-process.....do....                                     | 16,854                   | 1,406                          | 13,576   | 15,868                                       |
| Materials, supplies, fuel, etc.....do....                      | 33,616                   | 31,562                         | 22,330   | 28,884                                       |
| End of year, total.....do....                                  | 72,669                   | 137,349                        | 95,358   | 88,888                                       |
| Finished products.....do....                                   | 21,612                   | 105,410                        | 57,215   | 43,044                                       |
| Work-in-process.....do....                                     | 17,216                   | 1,288                          | 14,739   | 16,026                                       |
| Materials, supplies, fuel, etc.....do....                      | 33,841                   | 30,651                         | 23,404   | 29,819                                       |
| Expenditures for plant and equipment, total.....do....         | 28,866                   | 54,043                         | 23,493   | 14,982                                       |
| New, total.....do....  | 28,244                   | 53,805                         | 22,664   | 13,223                                       |
| New structures and additions to plant.....do....               | 5,106                    | 13,495                         | 6,233  | 2,932  |
| New machinery and equipment.....do....                         | 23,138                   | 40,310                         | 16,431   | 10,291                                       |
| Used plant and equipment.....do....                            | 622                      | 238                            | 829  | 1,759  |
| Selected operating ratios:                                     |                          |                                |  |  |
| Payroll/Total employment.....                                  | 7,548                    | 5,467                          | 5,455  | 5,286  |
| Production workers/Total employment.....                       | .85                      | .89                            | .87  | .83  |
| Man-hours/Production workers.....                              | 2,042                    | 2,002                          | 1,962  | 2,002  |
| Production worker wages/Man-hours.....                         | 3.62                     | 2.60                           | 2.59   | 2.39   |
| Cost of materials and payrolls/Total value of shipments.....   | .65                      | .72                            | .59  | .73  |
| Cost of materials/Total value of shipments.....                | .34                      | .39                            | .27  | .51  |
| Adjusted value added/Total employment.....                     | 15,975                   | 10,496                         | 12,427   | 11,841                                       |
| Salaries and wages/Adjusted value added.....                   | .47                      | .52                            | .44  | .45  |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>This is a minimum percentage. The exact percentage cannot be shown without disclosing figures for individual companies.

<sup>3</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item   | Establishments, total | Establishments with an average of- |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3211.—FLAT GLASS                      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                    | 31                    | -                                  | 1                | -                  | 2                  | 2                  | 1                    | 7                    | 10                   | 8                        | -                        |
| All employees:                                 |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                               | 22,815                | -                                  | 352              | -                  | (D)                | (D)                | (D)                  | 2,620                | 6,944                | 12,899                   | -                        |
| Payroll.....\$1,000..                          | 172,214               | -                                  | 2,096            | -                  | (D)                | (D)                | (D)                  | 17,110               | 52,459               | 100,549                  | -                        |
| Value added, adjusted.....do....               | 364,466               | -                                  | 5,250            | -                  | (D)                | (D)                | (D)                  | 30,276               | 110,185              | 218,755                  | -                        |
| Value of shipments.....do....                  | 549,390               | -                                  | 8,437            | -                  | (D)                | (D)                | (D)                  | 40,760               | 154,674              | 345,519                  | -                        |
| Capital expenditures, new...do....             | 28,244                | -                                  | 117              | -                  | (D)                | (D)                | (D)                  | 1,989                | 14,781               | 11,357                   | -                        |
| INDUSTRY 3221.—GLASS CONTAINERS                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                    | 113                   | 5                                  | 2                | 1                  | 1                  | 1                  | 22                   | 43                   | 22                   | 13                       | 3                        |
| All employees:                                 |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                               | 59,987                | 137                                | (D)              | (D)                | (D)                | (D)                | 4,108                | 14,606               | 16,340               | 17,050                   | 7,746                    |
| Payroll.....\$1,000..                          | 327,956               | 892                                | (D)              | (D)                | (D)                | (D)                | 21,473               | 80,851               | 89,545               | 90,859                   | 44,336                   |
| Value added, adjusted.....do....               | 629,608               | 21                                 | (D)              | (D)                | (D)                | (D)                | 40,387               | 171,109              | 174,541              | 148,924                  | 94,626                   |
| Value of shipments.....do....                  | 1,004,464             | 1,106                              | (D)              | (D)                | (D)                | (D)                | 72,066               | 281,574              | 266,921              | 246,356                  | 136,441                  |
| Capital expenditures, new...do....             | 53,805                | 13,338                             | (D)              | (D)                | (D)                | (D)                | 4,702                | 18,558               | 9,015                | 6,964                    | 1,228                    |
| INDUSTRY 3229.—PRESSED AND BLOWN GLASS, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                    | 107                   | 2                                  | 4                | 6                  | 11                 | 10                 | 34                   | 15                   | 15                   | 10                       | -                        |
| All employees:                                 |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                               | 37,999                | 37                                 | (D)              | 92                 | 361                | 689                | 5,522                | 5,375                | 10,339               | 15,584                   | -                        |
| Payroll.....\$1,000..                          | 207,292               | 181                                | (D)              | 423                | 1,739              | 3,522              | 27,131               | 28,832               | 57,018               | 88,446                   | -                        |
| Value added, adjusted.....do....               | 472,212               | 292                                | (D)              | 560                | 3,005              | 8,568              | 51,461               | 61,471               | 170,088              | 176,767                  | -                        |
| Value of shipments.....do....                  | 630,945               | 385                                | (D)              | 845                | 3,949              | 11,327             | 68,424               | 82,461               | 220,714              | 242,840                  | -                        |
| Capital expenditures, new...do....             | 22,664                | 69                                 | (D)              | 8                  | 69                 | 159                | 2,144                | 2,936                | 8,090                | 9,189                    | -                        |
| INDUSTRY 3231.—PRODUCTS OF PURCHASED GLASS     |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                    | 1,044                 | 459                                | 177              | 159                | 130                | 65                 | 41                   | 8                    | 4                    | 1                        | -                        |
| All employees:                                 |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                               | 26,158                | 852                                | 1,161            | 2,176              | 4,133              | 4,719              | 6,259                | 2,894                | 3,964                | (D)                      | -                        |
| Payroll.....\$1,000..                          | 138,275               | 3,560                              | 5,428            | 10,507             | 19,386             | 22,390             | 30,612               | 18,161               | 28,231               | (D)                      | -                        |
| Value added, adjusted.....do....               | 309,734               | 8,182                              | 10,382           | 18,306             | 34,953             | 41,758             | 62,594               | 46,588               | 86,971               | (D)                      | -                        |
| Value of shipments.....do....                  | 627,327               | 13,159                             | 19,758           | 34,836             | 71,192             | 78,556             | 129,503              | 107,646              | 172,677              | (D)                      | -                        |
| Capital expenditures, new...do....             | 13,223                | 713                                | 821              | 1,372              | 1,521              | 2,558              | 2,538                | 1,252                | 2,448                | (D)                      | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

<sup>1</sup>Includes capital expenditures for plants under construction but not in operation which constitute approximately \$2-5 million of the total for the size class.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                 | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           | A  | B                  | C                | D                  | E                      | F                                    | G                                  | H                     | I                        |                               |
| 3211      | Flat glass.....1963..                    | 549,390            | (D)              | (D)                | 13,029                 | <sup>1</sup> 90                      | <sup>2</sup> 733,104               | (D)                   | (D)                      | (D)                           |
|           | 1958..                                   | 384,711            | (D)              | (D)                | 2,369                  | <sup>1</sup> 90                      | <sup>2</sup> 546,991               | (D)                   | (D)                      | (D)                           |
| 3221      | Glass containers.....1963..              | 1,004,464          | 973,254          | 7,514              | 23,696                 | 99                                   | 982,382                            | 973,254               | 9,128                    | 99                            |
|           | 1958..                                   | 862,117            | 836,776          | 9,868              | 15,473                 | 99                                   | 841,560                            | 836,776               | 4,784                    | 99                            |
| 3229      | Pressed and blown glass, n.e.c....1963.. | 630,945            | 599,657          | 22,776             | 8,512                  | 96                                   | 615,126                            | 599,657               | 15,469                   | 97                            |
|           | 1958..                                   | 445,361            | 431,911          | 8,668              | 4,782                  | 98                                   | 447,997                            | 436,518               | 11,479                   | 97                            |
| 3231      | Products of purchased glass.....1963..   | 627,327            | (D)              | (D)                | 38,738                 | <sup>1</sup> 90                      | <sup>2</sup> 729,287               | (D)                   | (D)                      | (D)                           |
|           | 1958..                                   | 468,809            | 430,703          | 10,607             | 27,499                 | 98                                   | <sup>2</sup> 533,145               | <sup>2</sup> 430,703  | 102,442                  | 81                            |

NOTE: See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

<sup>1</sup>This is a minimum percentage. The exact percentage cannot be shown without disclosing figures for individual companies.

<sup>2</sup>Includes laminated glass (product classes 32113 and 32313) which is primary to industry 3211 when made by primary glass producers, and industry 3231 when made from purchased glass. Separate totals withheld to avoid disclosing figures of individual companies.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c)

miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                 | Class of products and miscellaneous receipts      | All industries       | Flat glass (SIC 3211)       | Other industries   | Prod. class code                                 | Class of products and miscellaneous receipts             | All industries                      | Pressed and blown glass, n.e.c. (SIC 3229) | Other industries    |
|----------------------------------|---|----------------------|-----------------------------|--------------------|--|--|-------------------------------------|--|---------------------|
| <b>FLAT GLASS INDUSTRY</b>       |   |                      |                             |                    | <b>PRESSED AND BLOWN GLASS, N.E.C., INDUSTRY</b> |  |                                     |  |                     |
|                                  | Total shipments and receipts of the industry..... | (X)                  | 549,390                     | (X)                |  | Total shipments and receipts of the industry.....        | (X)                                 | 630,945                                    | (X)                 |
|                                  | Primary products.....                             | <sup>1</sup> 733,104 | (D)                         | (D)                | 32291  | Primary products.....                                    | 615,126                             | 599,657                                    | <sup>4</sup> 15,469 |
| 32111                            | Sheet (window) glass.....                         | 141,479              | (D)                         | (D)                | 32292  | Table, kitchen, art, and novelty glassware.....          | 220,281                             | 218,593                                    | 1,688               |
| 32112                            | Plate glass.....                                  | } 274,355 {          | (D)                         | (D)                | 32293  | Lighting and electronic glassware..                      | 210,347                             | 210,347                                    | (X)                 |
| 32114                            | Other flat glass.....                             |                      | (D)                         | (D)                | 32294  | Glass fiber.....   | 91,611                              | 85,696                                     | 5,915               |
| 32113                            | Laminated glass.....                              |                      | <sup>1</sup> 317,270        | (D)                | (D)  | 32290  | Other pressed and blown glassware.. | 92,485                                     | 84,737              |
|                                  | Secondary products.....                           | (X)                  | (D)                         | (X)                |  | Other pressed and blown glass, n.e.c., n.s.k.....        | 402                                 | 284  | 118                 |
|                                  | Miscellaneous receipts.....                       | (X)                  | 13,029                      | (X)                |  | Secondary products.....                                  | (X)                                 | <sup>5</sup> 22,776                        | (X)                 |
|                                  |   |                      |                             |                    |  | Miscellaneous receipts.....                              | (X)                                 | 8,512                                      | (X)                 |
|                                  |   | All industries       | Glass containers (SIC 3221) | Other industries   |  |  | All industries                      | Products of purchased glass (SIC 3231)     | Other industries    |
| <b>GLASS CONTAINERS INDUSTRY</b> |   |                      |                             |                    | <b>PRODUCTS OF PURCHASED GLASS INDUSTRY</b>      |  |                                     |  |                     |
|                                  | Total shipments and receipts of the industry..... | (X)                  | 1,004,464                   | (X)                |  | Total shipments and receipts of the industry.....        | (X)                                 | 627,327                                    | (X)                 |
|                                  | Primary products.....                             |                      |                             |                    | 32313  | Primary products.....                                    | <sup>1</sup> 729,287                | (D)  | (D)                 |
| 32210                            | Glass containers.....                             | 982,382              | 973,254                     | <sup>2</sup> 9,128 | 32315  | Laminated glass.....                                     | <sup>1</sup> 317,270                | (D)  | (D)                 |
|                                  | Secondary products.....                           | (X)                  | <sup>3</sup> 7,514          | (X)                | 32316  | Mirrors.....   | 123,424                             | (D)  | (D)                 |
|                                  | Miscellaneous receipts.....                       | (X)                  | 23,696                      | (X)                | 32310  | Other glass products, made of purchased glass.....       | 275,167                             | (D)  | (D)                 |
|                                  | Sales of products bought and resold               | (X)                  | 22,038                      | (X)                |  | Other glass products made of purchased glass, n.s.k..... | 13,426                              | (D)  | (D)                 |
|                                  | Other miscellaneous receipts.....                 | (X)                  | 1,658                       | (X)                |  | Secondary products.....                                  | (X)                                 | (D)  | (X)                 |
|                                  |   |                      |                             |                    |  | Miscellaneous receipts.....                              | (X)                                 | 38,738                                     | (X)                 |
|                                  |   |                      |                             |                    |  | Contract and commission work.....                        | (X)                                 | 5,667                                      | (X)                 |
|                                  |   |                      |                             |                    |  | Sales of products bought and resold                      | (X)                                 | 31,018                                     | (X)                 |
|                                  |   |                      |                             |                    |  | Other miscellaneous receipts.....                        | (X)                                 | 2,053                                      | (X)                 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Includes totals for laminated glass (product classes 32113 and 32313) which is primary to industry 3211 when made by primary glass producers, and industry 3231, when made from purchased glass. Separate totals are withheld to avoid disclosing figures for individual companies.

<sup>2</sup>Industry 3229, Pressed and Blown Glass, N.E.C., had shipments totaling over \$2 million. The exact figure is withheld to avoid disclosing figures for individual companies.

<sup>3</sup>Includes the following product class which totaled \$2 million or more but are withheld to avoid disclosing individual company figures—26530, Corrugated and solid fiber boxes.

<sup>4</sup>Includes \$3 million shipped by industry 3221, Glass Containers; and \$7 million shipped by industry 3296, Mineral Wool.

<sup>5</sup>Includes the following product classes which totaled \$2 million or more, but are withheld to avoid disclosing individual company figures—32210, Glass containers; 36343, Other small household electrical appliances; 36422, Commercial and institutional type electric fixtures; and 36423, Industrial type electric fixtures.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Unit of measure                                       | Shipments and interplant transfers     |          |                 |   |                 |
|--------------|---|---|--|----------|-----------------|---|-----------------|
|              |   |   | Production for all purposes (quantity) | Total    |                 | Transfers to other plants of the same company |                 |
|              |   |   |  | Quantity | Value (\$1,000) | Quantity                                      | Value (\$1,000) |
| 1963         |   |   |  |          |                 |   |                 |
| 3211- --     | FLAT GLASS, TOTAL <sup>1</sup> .....  | .....   | (X)                                    | (X)      | 733,104         | (X)   | (X)             |
| 32111 --     | Sheet (window) glass (not rolled) including colored, total <sup>2</sup> .....   | 1,000 boxes 50 sq. ft. each single strength or equiv. | 26,165                                 | 24,968   | 141,479         | (X)   | (D)             |
|              | Uncolored:  |   |  |          |                 |   |                 |
| 32111 22     | Single strength.....  | ...do.....  | 10,465                                 | 10,863   | 56,657          | (X)   | (X)             |
| 32111 23     | Double strength, including greenhouse.....  | ...do.....  | 4,834                                  | 4,849    | 29,899          | (X)   | (X)             |
| 32111 24     | Heavy sheet.....  | ...do.....  | 9,240                                  | 7,707    | 43,295          | (X)   | (X)             |
| 32111 21     | Thin, including picture glass.....  | ...do.....  | 1,626                                  | 1,549    | 11,628          | (X)   | (X)             |
| 32111 25     | Tinted or colored (all thicknesses).....  | ...do.....  |  |          |                 |   |                 |
| 32112 11     | Plate glass <sup>2</sup> .....  | 1,000 sq. ft.....                                     | 716,732                                | 476,242  | 3175,820        | (X)   | (D)             |
| 32114 --     | Other flat glass:   |   |  |          |                 |   |                 |
| 32114 11     | Rolled and wire glass <sup>2 4</sup> .....  | ...do.....  |  |          |                 |   |                 |
| 32114 98     | Other flat glass (except laminated), such as plate glass blanks, bent and tempered glass, glass doors, multiple-sealed insulating units, etc., from glass made in the same establishment..... | ...do.....  | (X)                                    | 185,402  | 98,535          | (D)   | (D)             |
| 32113 --     | Laminated glass, including safety glass, total <sup>5</sup> .....   | .....   | (X)                                    | 188,003  | 317,270         | (X)   | (X)             |
| 32113 11     | Laminated plate 1/4" and under.....   | 1,000 sq. ft.....                                     | (X)                                    | 162,815  | 295,317         | (X)   | (X)             |
| 32313 11     |   |   |  |          |                 |   |                 |
| 32113 31     | Laminated plate over 1/4" <sup>4</sup> .....  | ...do.....  | (X)                                    | 25,188   | 21,953          | (X)   | (X)             |
| 32313 31     |   |   |  |          |                 |   |                 |
| 32113 51     | Laminated sheet (window) glass <sup>4</sup> .....   | ...do.....  | (X)                                    | 25,188   | 21,953          | (X)   | (X)             |
| 32313 51     |   |   |  |          |                 |   |                 |
| 32113 71     | Other laminated glass <sup>4</sup> .....  | ...do.....  | (X)                                    | 25,188   | 21,953          | (X)   | (X)             |
| 32313 98     |   |   |  |          |                 |   |                 |
| 1958         |   |   |  |          |                 |   |                 |
| 3211- --     | FLAT GLASS, TOTAL <sup>1</sup> .....  | .....   | (X)                                    | (X)      | 546,991         | (X)   | (X)             |
| 32111 --     | Sheet (window) glass (not rolled) including colored, total <sup>2</sup> .....   | 1,000 boxes 50 sq. ft. each single strength or equiv. | 18,177                                 | 17,911   | 92,339          | (X)   | (D)             |
|              | Uncolored:  |   |  |          |                 |   |                 |
| 32111 22     | Single strength.....  | ...do.....  | 8,563                                  | 8,231    | 38,144          | (X)   | (X)             |
| 32111 23     | Doubled strength, including greenhouse.....   | ...do.....  | 4,679                                  | 4,725    | 26,046          | (X)   | (X)             |
| 32111 24     | Heavy sheet.....  | ...do.....  | 3,907                                  | 3,945    | 21,262          | (X)   | (X)             |
| 32111 21     | Thin, including picture glass.....  | ...do.....  | 303                                    | 313      | 1,460           | (X)   | (X)             |
| 32111 25     | Tinted or colored (all thicknesses).....  | ...do.....  | 725                                    | 697      | 5,427           | (X)   | (X)             |
| 32112 11     | Plate glass <sup>2</sup> .....  | 1,000 sq. ft.....                                     | 521,338                                | 390,414  | 144,771         | (X)   | (D)             |
| 32114 --     | Other flat glass:   |   |  |          |                 |   |                 |
| 32114 11     | Rolled and wire glass <sup>2 4</sup> .....  | ...do.....  |  |          |                 |   |                 |
| 32114 98     | Other flat glass (except laminated), such as plate glass blanks, bent and tempered glass, glass doors, multiple-sealed insulating units, etc., from glass made in the same establishment..... | ...do.....  | (X)                                    | 78,129   | 56,052          | 28,851  | 9,379           |
| 32113 --     | Laminated glass, including safety glass, total <sup>5</sup> .....   | .....   | (X)                                    | (X)      | 253,829         | (X)   | (X)             |
| 32313 --     |   |   |  |          |                 |   |                 |
| 32113 11     | Laminated plate 1/4" and under.....   | 1,000 sq. ft.....                                     | (X)                                    | 115,635  | 216,696         | (X)   | (X)             |
| 32313 11     |   |   |  |          |                 |   |                 |
| 32113 31     | Laminated plate over 1/4" <sup>4</sup> .....  | ...do.....  | (X)                                    | 115,635  | 216,696         | (X)   | (X)             |
| 32313 31     |   |   |  |          |                 |   |                 |
| 32113 51     | Laminated sheet (window) glass <sup>4</sup> .....   | ...do.....  | (X)                                    | 115,635  | 216,696         | (X)   | (X)             |
| 32313 51     |   |   |  |          |                 |   |                 |
| 32113 71     | Other laminated glass <sup>4</sup> .....  | ...do.....  | (X)                                    | 115,635  | 216,696         | (X)   | (X)             |
| 32313 98     |   |   |  |          |                 |   |                 |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code                                   | Product  | Unit of measure | 1963                                   |   |                 | 1958                                   |   |                 |        |        |
|--|--|-----------------|--|---|-----------------|--|---|-----------------|--------|--------|
|  |  |                 | Production for all purposes (quantity) | Total shipments, including interplant transfers |                 | Production for all purposes (quantity) | Total shipments, including interplant transfers |                 |        |        |
|  |  |                 |  | Quantity  | Value (\$1,000) |  | Quantity  | Value (\$1,000) |        |        |
| 3221- --                                       | GLASS CONTAINERS, TOTAL <sup>6</sup> .....   | .....           | (X)                                    | (X)   | 982,382         | (X)                                    | (X)   | 841,560         |        |        |
|  | Machine made: <sup>7</sup>   |                 |  |   |                 |  |   |                 |        |        |
|  | Narrow neck:   |                 |  |   |                 |  |   |                 |        |        |
| 32210 11                                       | Food.....  | 1,000 gross.    | 54,877                                 | 19,225  | 129,862         | 52,714                                 | 15,422  | 105,530         |        |        |
| 32210 13                                       | Medicinal and health supplies.....   | do.....         |  |   |                 |  |   |                 | 16,730 | 70,126 |
| 32210 15                                       | Chemical, household, and industrial.....   | do.....         |  |   |                 |  |   |                 | 7,412  | 44,261 |
| 32210 17                                       | Toiletries and cosmetics.....  | do.....         |  |   |                 |  |   |                 | 10,590 | 41,107 |
| 32210 19                                       | Beverage, returnable.....  | do.....         |  |   |                 |  |   |                 | 13,543 | 12,303 |
| 32210 21                                       | Beverage, nonreturnable.....   | do.....         |  |   |                 |  |   |                 | 3,970  | 3,892  |
| 32210 23                                       | Beer, returnable.....  | do.....         |  |   |                 |  |   |                 | 2,901  | 2,693  |
| 32210 25                                       | Beer, nonreturnable.....   | do.....         |  |   |                 |  |   |                 | 27,081 | 26,745 |
| 32210 27                                       | Liquor.....  | do.....         |  |   |                 |  |   |                 | 11,878 | 10,953 |
| 32210 29                                       | Wine.....  | do.....         |  |   |                 |  |   |                 | 5,324  | 5,233  |
|  | Wide mouth:  |                 |  |   |                 |  |   |                 |        |        |
| 32210 31                                       | Food, including packers' tumblers, fruit jars and jelly glasses.....                                 | do.....         | 60,463                                 | 49,199  | 235,321         | 53,537                                 | 42,854  | 220,607         |        |        |
| 32210 32                                       | Medicinal and health supplies.....   | do.....         |  |   |                 |  |   |                 | 4,860  | 18,999 |
| 32210 33                                       | Chemical, household, and industrial.....   | do.....         |  |   |                 |  |   |                 | 1,460  | 7,501  |
| 32210 34                                       | Toiletries and cosmetics.....  | do.....         |  |   |                 |  |   |                 | 3,481  | 17,207 |
| 32210 37                                       | Dairy products.....  | do.....         |  |   |                 |  |   |                 | 1,570  | 1,522  |
| 32210 62                                       | Export shipments, machine-made (all types).....  | do.....         | (X)                                    | 1,588   | 8,940           | (X)                                    | 2,897   | 13,214          |        |        |
| 32210 71                                       | Net weight of machine-made glass containers packed..   | 1,000 lbs...    | (X)                                    | 12,856,748                                      | (X)             | (X)                                    | 10,789,356                                      | (X)             |        |        |
| 32210 54                                       | Hand-made, all types, domestic and export.....   | 1,000 gross.    | (X)                                    | (X)   | (X)             | (NA)                                   | (NA)  | 3,516           |        |        |
| 32210 00                                       | Glass containers, not specified by kind.....   | do.....         | (X)                                    | (X)   | 936             |  |   |                 |        |        |
| Total shipments including interplant transfers |  |                 |  |   |                 |  |   |                 |        |        |
|  |  |                 | 1963                                   |   | 1958            |  |   |                 |        |        |
|  |  |                 | Quantity                               | Value (\$1,000)                                 | Quantity        | Value (\$1,000)                        |   |                 |        |        |
| 3229- --                                       | PRESSED AND BLOWN GLASS, N.E.C., TOTAL:  |                 |  |   |                 |  |   |                 |        |        |
|  | As reported in the census of manufactures.....   | .....           | (X)                                    | 615,126   | (X)             | 447,997                                |   |                 |        |        |
|  | As reported on Census Annual Forms MA-32E and MA-32.....   | .....           | (X)                                    | 609,628   | (X)             | (X)                                    |   |                 |        |        |
| 32291 --                                       | Table, kitchen, art, and novelty glassware, total:   |                 |  |   |                 |  |   |                 |        |        |
|  | As reported in the census of manufactures.....   | .....           | (X)                                    | 220,281   | (X)             | 149,006                                |   |                 |        |        |
|  | As reported on Census Annual Form MA-32E <sup>9</sup> .....  | .....           | (X)                                    | 216,226   |                 |  |   |                 |        |        |
|  | Machine-made (includes glassware made by machine with automatic and semi-automatic feeds):           |                 |  |   |                 |  |   |                 |        |        |
| 32291 11                                       | Tumblers (except those designed exclusively for use as packers), goblets, and other stemware..       | 1,000 dozen.    | 60,380                                 | 63,721  | 56,195          | 50,887                                 |   |                 |        |        |
| 32291 12                                       | Tableware (designed for serving food and drink; excluding tumblers, goblets and other stemware)..... | do.....         | }                                      | (X)   | 106,184         | 52,195                                 | 23,297  | 27,401          |        |        |
| 32291 13                                       | Kitchenware and cookingware (designed for preparing, cooking and storing food):                      | 1,000 pieces    |  |   |                 |  |   |                 |        |        |
|  | Custard cups, cake and bread bakers, casseroles, and pie plates.....                                 | .....           |  |   |                 |  |   |                 |        |        |
| 32291 14                                       | Coffee and beverage makers (excluding tea kettles).....  | .....           |  |   |                 |  |   |                 |        |        |
| 32291 15                                       | Other kitchenware and cookingware (including top-of-stove ware).....                                 | .....           |  |   |                 |  |   |                 |        |        |
| 32291 16                                       | Ornamental, decorative, novelty glassware and smokers' accessories.....                              | 1,000 dozen.    | 7,934                                  | 13,303  | 6,014           | 8,699                                  |   |                 |        |        |
|  | Hand-made:   |                 |  |   |                 |  |   |                 |        |        |
|  | Pressed ware:  |                 |  |   |                 |  |   |                 |        |        |
| 32291 17                                       | Tumblers, goblets, and other stemware.....   | do.....         | 271                                    | 2,517   | 368             | 2,344                                  |   |                 |        |        |
| 32291 18                                       | Tableware (excluding tumblers, goblets, and other stemware).....                                     | do.....         | 540                                    | 6,371   | 459             | 6,194                                  |   |                 |        |        |
| 32291 19                                       | Other, including ornamental, decorative, and novelty glassware, and smokers' accessories.....        | .....           | (X)                                    | 7,108   | (NA)            | (NA)                                   |   |                 |        |        |
|  | Blown ware:  |                 |  |   |                 |  |   |                 |        |        |
| 32291 20                                       | Tumblers.....  | 1,000 dozen.    | 873                                    | 3,005   | 479             | 2,050                                  |   |                 |        |        |
| 32291 21                                       | Goblets and other stemware (including footed ware).....  | do.....         | 965                                    | 7,075   | 1,029           | 7,483                                  |   |                 |        |        |
| 32291 22                                       | Other, including ornamental, decorative, and novelty glassware and smokers' accessories .....        | .....           | (X)                                    | 6,942   | (NA)            | (NA)                                   |   |                 |        |        |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure       | Total shipments including interplant transfers |  |                             |  |         |                      |        |      |        |
|--------------|--|-----------------------|--|--|-----------------------------|--|---------|----------------------|--------|------|--------|
|              |  |                       | 1963   |  | 1958                        |  |         |                      |        |      |        |
|              |  |                       | Quantity                                       | Value (\$1,000)                                | Quantity                    | Value (\$1,000)                                |         |                      |        |      |        |
| 3229- --     | PRESSED AND BLOWN GLASS, N. E. C.—Continued  |                       |  |  |                             |  |         |                      |        |      |        |
| 32292 --     | Lighting and electronic glassware, total:<br>As reported in the census of manufactures.....  |                       | (X)  | 210,347  | }                           | (X)  | 143,286 |                      |        |      |        |
|              | As reported on Census Annual Form MA-32E <sup>9</sup> 1 <sup>0</sup> .....   |                       | (X)  | 210,261  |                             |  |         |                      |        |      |        |
| 32292 12     | Bowls and enclosing globes (all types including lantern globes), lamp chimneys, lamp parts, shades, reflectors, and torchiers.....                                     |                       | (X)  | 21,673   | }                           | (X)  | 16,756  |                      |        |      |        |
| 32292 13     | Automotive (including sealed beam), searchlight, and other lenses (including railroad, marine, air, and traffic lighting glassware) <sup>10</sup> 1 <sup>1</sup> ..... |                       | (X)  | 22,882   |                             |  |         |                      |        |      |        |
| 32292 14     | Electric-light bulb blanks.....  | }                     | (X)  | 38,463   | }                           | (NA)   | (NA)    |                      |        |      |        |
| 32292 15     | Tubing and cane for electric light bulbs (including exhaust tubes and flares for fluorescent lamps).....   |                       |  |  |                             |  |         |                      |        |      |        |
| 32292 16     | Electronic-tube blanks (radio, X-ray, radar and special tubes).....  |                       | (X)  | 6,803  | }                           | (X)  | 124,573 |                      |        |      |        |
| 32292 17     | Tubing, cane and other glass parts for electronic tubes and devices.....   |                       |  |  |                             |  |         |                      |        |      |        |
| 32292 18     | Television tube blanks and parts.....  |                       |  |  |                             |  |         |                      |        |      |        |
| 32292 19     | Other electrical discharge tubing, including fluorescent and neon.....   |                       | (X)  | 120,440  |                             |  |         |                      |        |      |        |
| 32292 20     | Other interior and exterior lighting glassware, (including shields and plates for fluorescent and incandescent lighting fixtures, etc.).....                           |                       |  |  |                             |  |         |                      |        |      |        |
|              |  |                       | 1963   |  | 1958                        |  |         |                      |        |      |        |
|              |  |                       | Production for all purposes                    | Total shipments including interplant transfers | Production for all purposes | Total shipments including interplant transfers |         |                      |        |      |        |
|              |  |                       | (1,000 pounds)                                 | Quantity (1,000 pounds) Value (\$1,000)        | (1,000 pounds)              | Quantity (1,000 pounds) Value (\$1,000)        |         |                      |        |      |        |
| 32293 --     | Textile type fiber, total:<br>As reported in the census of manufactures.....   | (X)                   | (X)  | 91,611   | (X)                         | 113,484  | 59,670  |                      |        |      |        |
|              | As reported on Census Annual Form MA-32J <sup>12</sup> .....   | <sup>13</sup> 199,966 | <sup>13</sup> 191,904                          | 91,123   | (X)                         | (X)  | (X)     |                      |        |      |        |
| 32293 21     | Yarn, strand, staple yarn, and sliver.....   | }                     | <sup>13</sup> 142,992                          | <sup>13</sup> 134,536                          | }                           | (NA)   | 113,484 |                      |        |      |        |
| 32293 25     | Mat.....   |                       |  |  |                             |  |         | 71,555               |        |      |        |
| 32293 23     | Roving chopped strand and milled fiber.....  |                       |  |  |                             |  |         | <sup>13</sup> 56,974 | 19,568 | (NA) |        |
| 32294 --     | All other pressed and blown glassware, total:<br>As reported in the census of manufactures.....  | (X)                   | (X)  | 92,485   | }                           | (X)  | (X)     | 96,035               |        |      |        |
|              | As reported on Census Annual Form MA-32E <sup>9</sup> 1 <sup>0</sup> .....   | (X)                   | (X)  | 92,018   |                             |  |         |                      |        |      |        |
| 32294 11     | Tubing, rod, and canes, all types (except electrical and electronic).....  | }                     | (X)  | 49,092   | }                           | (X)  | 16,419  | 7,555                |        |      |        |
| 32294 12     | Scientific and laboratory glassware.....   |                       |  |  |                             |  |         |                      | (X)    | (X)  | 24,465 |
| 32294 13     | All other technical glassware (included insulators), except lighting and electronic glassware..  |                       |  |  |                             |  |         |                      |        |      | 4,492  |
| 32294 14     | Industrial glassware (including such products as gauge glasses, instrument faces, machine parts, glass knobs, meter covers, pumps, battery jars, etc.).....            | (X)                   | (X)  | 24,218   | (X)                         | (X)  | 14,825  |                      |        |      |        |
| 32294 15     | Ophthalmic lens blanks, optical instrument lens blanks, sun glass lenses and other eye-protective lenses.....  | }                     | (X)  | 17,939   | }                           | (X)  | (NA)    | (NA)                 |        |      |        |
|              | Other (including glass blocks, stationers' ware, nursery bottles, Christmas tree ornaments; etc.):   |                       |  |  |                             |  |         |                      |        |      |        |
| 32294 16     | Machine made.....  |                       |  |  |                             |  |         |                      | (X)    | (X)  | 769    |
| 32294 17     | Hand made.....   | (X)                   | (X)  |  | (X)                         | (X)  |         |                      |        |      |        |
| 32294 00     | Other pressed and blown glassware, not specified by kind.....  | -                     | -  | -  | (X)                         | (X)  | 2,279   |                      |        |      |        |
| 32290 00     | Pressed and blown glassware, n.e.c.,.....  | (X)                   | (X)  | 402  | -                           | -  | -       |                      |        |      |        |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Total shipments including interplant transfers |                    |                             |                    |
|--------------|--|--|--------------------|-----------------------------|--------------------|
|              |  | 1963   |                    | 1958                        |                    |
|              |  | Quantity<br>(1,000 sq. ft.)                    | Value<br>(\$1,000) | Quantity<br>(1,000 sq. ft.) | Value<br>(\$1,000) |
| 3231- --     | GLASS PRODUCTS MADE OF PURCHASED GLASS, EXCEPT LAMINATED, TOTAL <sup>14</sup> .....  | (X)  | 412,017            | (X)                         | 279,316            |
| 32315 --     | Mirrors, total.....  | (X)  | 123,424            | (X)                         | 87,974             |
|              | Mirrors - framed (decorated and undecorated):  |  |                    |                             |                    |
| 32315 11     | Plate glass:   |  |                    |                             |                    |
|              | Quantity reported.....   | 7,974  | 15,760             | } 18,812                    | } 24,737           |
|              | Quantity not reported.....   | (X)  | 9,549              |                             |                    |
| 32315 51     | Other glass.....   | (S)  | 37,272             | (NA)                        | 5,371              |
|              | Mirrors - unframed (decorated and undecorated):  |  |                    |                             |                    |
| 32315 61     | Plate glass:   |  |                    |                             |                    |
|              | Quantity reported.....   | 34,076   | 26,945             | } (NA)                      | } 24,666           |
|              | Quantity not reported.....   | (X)  | 9,049              |                             |                    |
| 32315 63     | Other glass:   |  |                    |                             |                    |
|              | Quantity reported.....   | 27,263   | 13,528             | } (NA)                      | } 11,222           |
|              | Quantity not reported.....   | (X)  | 2,464              |                             |                    |
| 32315 98     | Automotive rearview mirrors.....   | (X)  | (15)               | (X)                         | 16,208             |
| 32315 00     | Mirrors, not specified by kind.....  | (X)  | 8,857              | (X)                         | 5,770              |
| 32316 --     | Other glass products made of purchased glass, total.....   | (X)  | 275,167            | (X)                         | 157,095            |
|              | Glassware, etched, ornamented, bent, etc:  |  |                    |                             |                    |
| 32316 31     | Tumblers, goblets and other stemware.....  | (X)  | 8,101              | (X)                         | 12,050             |
| 32316 35     | Tableware (except tumblers, goblets, and other stemware), including tableware from flat glass.....   | (X)  | 6,181              | (X)                         | 6,514              |
| 32316 39     | All other glassware (except flat glass products) including technical and scientific.....   | (X)  | 58,156             | (X)                         | 44,924             |
| 32316 11     | Plate glass, except tempered, bent, or enameled.....   | 1,361  | 2,005              | } (X)                       | } 93,605           |
| 32316 21     | Stained and leaded glass and stained glass slabs.....  | (S)  | 6,880              |                             |                    |
| 32316 71     | Multiple - glazed, sealed insulating glass units.....  | (X)  | 31,299             |                             |                    |
| 32316 98     | Other glass products (except laminated) such as tempered, bent (except when made into tableware), or enameled sheet, plate, and rolled glass; shower doors and tub enclosures; automobile glass other than laminated (cut, leveled and polished); watch crystals, etc..... | (X)  | 148,109            |                             |                    |
| 32316 00     | Other glass products made of purchased glass, n.s.k.....   | (X)  | 14,436             | (X)                         | (X)                |
| 32310 00     | Products made of purchased glass, not specified by kind.....   | (X)  | 13,426             | (X)                         | 34,247             |
| 32113 --     | Laminated glass, including safety glass, total <sup>16</sup> .....   | 188,003  | 317,270            | (X)                         | 253,829            |
| 32313 --     |  |  |                    |                             |                    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

(S) Withheld because the reported figures did not meet publication standards.

<sup>1</sup>Includes laminated glass (product codes 3211311-3211371 and 3231311-3231398).

<sup>2</sup>Product detail for 3211122-25, 3211211, and 3211411 is from Current Industrial Reports Series BDSAF-375, Flat Glass.

<sup>3</sup>Revised from shipments figure of \$171,618 thousand published in Current Industrial Reports Series BDSAF-375(63)-4, Flat Glass.

<sup>4</sup>Includes glass of which one or both surfaces are roughed, figured, ribbed, or otherwise impressed. Excludes glass block and tile.

<sup>5</sup>Includes laminated glass made in the Flat Glass Industry (3211) and laminated glass made in Products of Purchased Glass Industry (3231), combined to avoid disclosing figures for individual companies. For 1963, no production or shipments of "laminated plate, over 1/4" (code 3211331), "laminated sheet (window) glass" (code 3211351) or "other laminated glass" (code 3211371) were reported in the Flat Glass Industry (3211).

<sup>6</sup>Comparable monthly quantity data are published in Current Industrial Reports Series M32G, Glass Containers.

<sup>7</sup>Production figures include all containers produced whether for domestic or export shipment. Shipments figures include only domestic shipments. Refer to product code 3221062 for export shipments.

<sup>8</sup>Net weight was not reported for shipments totaling 11,509 thousand gross in 1963.

<sup>9</sup>Statistics on shipments of pressed and blown glassware were collected on Form MA-32E and previously published in Current Industrial Reports Series M32E. Detail may not add to product class total because of revisions to product class content and product detail between 1963 and 1958.

<sup>10</sup>Product class totals for 32292 and 32294 are not directly comparable between 1958 and 1963. In 1958, certain lenses, e.g., automotive (including sealed beam) lantern, searchlight, etc., were included with "Other Pressed and Blown Glassware" (32294) the exact amount of which is not available. For 1963 these lenses are classified in Product Class 32292, Lighting and Electronic Glassware.

<sup>11</sup>Shipments of railroad, marine and traffic lighting glassware were valued at \$1,957 thousand in 1958.

<sup>12</sup>Data for fibrous glass were collected on Form MA-32J and previously published in Current Industrial Reports Series M32J.

<sup>13</sup>Quantities include normal sizing, but exclude the weight of vinyl polyester, and other synthetics used in coatings.

<sup>14</sup>Total excludes product class 32313, Laminated Glass. See footnote 16.

<sup>15</sup>Separate data were not collected for automotive rearview mirrors for 1963. An indeterminable amount is included in product codes 3231511-3231563.

<sup>16</sup>Includes laminated glass made in the Flat Glass Industry (3211) and the Products of Purchased Glass Industry (3231). combined to avoid disclosing figures for individual companies. For detailed data see products of Industry 3211 above.

TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code    | Product and year   | Indexes (1954 = 100) |            | Product code | Product and year   | Indexes (1954 = 100) |                  |
|-----------------|--|----------------------|------------|--------------|--|----------------------|------------------|
|                 |  | Production           | Unit value |              |  | Production           | Unit value       |
| 3211            | Flat glass <sup>1</sup> .....1963..                            | 139                  | 107        | 322          | Pressed and blown glassware.....1963..                   | 131                  | 116              |
|                 | .....1958..  | 98                   | 112        |              | .....1958..  | 104                  | 118              |
| 32111           | Sheet (window) glass (not rolled) including colored.....1963.. | 120                  | 118        | 3221         | Glass containers.....1963..                              | 141                  | 111              |
|                 | .....1958..  | 86                   | 108        |              | .....1958..  | 114                  | 117              |
| 32112 and 32114 | Plate glass and other flat glass.....1963..                    | 173                  | 97         | 3229         | Pressed and blown glass, n.e.c. <sup>2</sup> .....1963.. | ( <sup>2</sup> )     | ( <sup>2</sup> ) |
|                 | .....1958..  | 112                  | 110        |              | .....1958..  | ( <sup>2</sup> )     | ( <sup>2</sup> ) |
| 32113 and 32313 | Laminated glass, including safety glass.....1963..             | 120                  | 112        | 32291        | Table, kitchen, art, and novelty glassware.....1963..    | 102                  | 154              |
|                 | .....1958..  | 93                   | 116        |              | .....1958..  | 94                   | 128              |
|                 |  |                      |            | 32293        | Textile type fiber.....1963..                            | 327                  | 82               |
|                 |  |                      |            |              | .....1958..  | 193                  | 91               |
|                 |  |                      |            | 3231         | Products of purchased glass <sup>2</sup> .....1963..     | ( <sup>2</sup> )     | ( <sup>2</sup> ) |
|                 |  |                      |            |              | .....1958..  | ( <sup>2</sup> )     | ( <sup>2</sup> ) |
|                 |  |                      |            | 32315        | Mirrors.....1963..                                       | 182                  | 98               |
|                 |  |                      |            |              | .....1958..  | 133                  | 96               |

n.e.c. Not elsewhere classified.

<sup>1</sup>Includes laminated glass made in industry 3211, Flat Glass, and industry 3231, Products of Purchased Glass.

<sup>2</sup>Not shown pending further review of data covering products not included below.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments, 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code            | Product class   | 1963    | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958    | 1954    | 1947    |
|-----------------|---|---------|-------------------|-------------------|-------------------|-------------------|---------|---------|---------|
| 3211-           | Flat glass <sup>2</sup> .....                                 | 733,104 | 679,690           | 623,249           | 747,786           | 782,230           | 546,991 | 499,267 | 297,717 |
| 32111           | Sheet window glass.....                                       | 141,479 | 124,853           | 109,860           | 105,279           | 132,704           | 92,339  | 99,124  | 72,525  |
| 32112           | Plate glass.....  | 274,355 | 249,013           | 240,051           | 297,157           | 280,593           | 200,823 | 163,924 | 124,178 |
| 32114           | Other flat glass.....   |         |                   |                   |                   |                   |         |         |         |
| 32113 and 32313 | Laminated glass, including safety glass....                   | 317,270 | 305,824           | 273,338           | 345,350           | 368,933           | 253,824 | 236,219 | 101,014 |
| 3221-           | Glass containers.....   | 982,382 | 964,953           | 944,202           | 910,267           | 901,773           | 841,560 | 628,916 | 422,963 |
| 3229-           | Pressed and blown glass, n.e.c. <sup>3</sup> .....            | 609,628 | 592,891           | 572,694           | 566,391           | 545,450           | 447,997 | 416,997 | (NA)    |
| 32291           | Table, kitchen, art, and novelty glassware <sup>4</sup> ..... | 216,226 | 195,587           | 193,440           | 188,534           | 174,456           | 149,006 | 123,478 | (NA)    |
| 32292           | Lighting and electronic glassware <sup>4</sup> .....          | 210,261 | 198,222           | 171,801           | 169,894           | 171,696           | 143,286 | 149,991 | (NA)    |
| 32293           | Glass fiber.....  | 91,123  | 89,924            | 89,895            | 87,609            | 84,217            | 59,670  | 33,985  | (NA)    |
| 32294           | Other pressed and blown glassware <sup>4</sup> .....          | 92,018  | 109,138           | 117,558           | 120,354           | 115,081           | 96,035  | 109,543 | (NA)    |
| 3231-           | Products of purchased glass <sup>6</sup> .....                | 412,017 | 349,077           | 320,333           | 322,111           | 336,111           | 279,316 | 239,810 | (NA)    |
| 32315           | Mirrors (made of purchased glass).....                        | 123,424 | 86,169            | 79,887            | 93,185            | 101,983           | 87,974  | 68,867  | 54,875  |
| 32316           | Other glass products, made of purchased glass.....            | 275,167 | 229,216           | 206,928           | 193,350           | 194,903           | 157,095 | 170,943 | (NA)    |
| 32310           | Products of purchased glass, n.s.k.....                       | 13,426  | (S)               | (S)               | (S)               | (S)               | (S)     | -       | -       |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

n.s.k. Not specified by kind.

<sup>1</sup>The figures for 1959-1962 represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>2</sup>Includes laminated glass shipped by establishments-classified in industry 3211, Flat Glass, and industry 3231, Products of Purchased Glass, to avoid disclosing figures for individual companies.

<sup>3</sup>See footnotes 4 and 5.

<sup>4</sup>Source: Current Industrial Reports Series M32E, Pressed and Blown Glassware.

<sup>5</sup>Source: (1963 and 1962) Current Industrial Reports Series M32J, Fibrous Glass. Prior years data from annual survey of manufactures.

<sup>6</sup>Excludes laminated glass, product class 32313.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area                 | Value of shipments 1963 <sup>1</sup> | Product class and geographic area                    | Value of shipments 1963 <sup>1</sup> | Product class and geographic area                         | Value of shipments 1963 <sup>1</sup> |
|---|--------------------------------------|--|--------------------------------------|---|--------------------------------------|
| TABLE, KITCHEN, ART AND NOVELTY GLASSWARE (32291) |                                      | OTHER PRESSED AND BLOWN GLASSWARE (32294)—Con.       |                                      | OTHER GLASS PRODUCTS MADE OF PURCHASED GLASS (32316)—Con. |                                      |
| United States, total.....                         | 220,281                              | East North Central, South and West.....              | 41,575                               | New England.....  | 10,281                               |
| Middle Atlantic.....                              | 38,460                               |  |                                      | Massachusetts.....  | 4,186                                |
| East North Central.....                           | 94,080                               | MIRRORS (32315)                                      |                                      | Connecticut.....  | 3,709                                |
| South and West.....                               | 87,741                               | United States, total.....                            | 123,424                              | Middle Atlantic.....                                      | 106,689                              |
| West Virginia.....                                | 74,253                               | New England.....                                     | 5,617                                | New York.....   | 32,775                               |
|   |                                      | Middle Atlantic.....                                 | 27,612                               | New Jersey.....   | 39,070                               |
| LIGHTING AND ELECTRONIC GLASSWARE (32292)         |                                      | New York.....  | 18,811                               | Pennsylvania.....   | 34,844                               |
| United States, total.....                         | 210,347                              | New Jersey.....                                      | 2,335                                |   |                                      |
| Northeast.....                                    | 73,579                               | Pennsylvania.....                                    | 6,466                                | East North Central.....                                   | 105,672                              |
| East North Central.....                           | 109,517                              | East North Central.....                              | 32,682                               | Ohio.....   | 47,738                               |
| South and West.....                               | 27,251                               | Ohio.....  | 9,516                                | Indiana.....  | 6,955                                |
| West Virginia.....                                | 10,788                               | Indiana.....   | 11,196                               | Illinois.....   | 30,005                               |
|   |                                      | West North Central.....                              | 1,310                                | Michigan.....   | 17,092                               |
| GLASS FIBER (32293)                               |                                      | South Atlantic.....                                  | 38,018                               | Wisconsin.....  | 3,882                                |
| United States, total.....                         | 91,611                               | Virginia.....  | 13,904                               | West North Central.....                                   | 6,584                                |
| Northeast and North Central.                      | 29,987                               | North Carolina.....                                  | 22,872                               | Minnesota.....  | 1,562                                |
| South and West.....                               | 61,624                               | East South Central.....                              | 11,038                               | Missouri.....   | 4,687                                |
|   |                                      | West South Central.....                              | 2,237                                | South Atlantic.....                                       | 18,597                               |
| OTHER PRESSED AND BLOWN GLASSWARE (32294)         |                                      | West.....  | 4,910                                | West Virginia.....  | 4,857                                |
| United States, total.....                         | 92,485                               | California.....                                      | 4,421                                | Georgia.....  | 3,768                                |
| Northeast.....                                    | 50,910                               | OTHER GLASS PRODUCTS MADE OF PURCHASED GLASS (32316) |                                      | Florida.....  | 5,956                                |
|   |                                      | United States, total.....                            | 275,167                              | East South Central.....                                   | 1,764                                |
|   |                                      |  |                                      | West South Central.....                                   | 4,817                                |
|   |                                      |  |                                      | Texas.....  | 3,653                                |
|   |                                      |  |                                      | Mountain.....   | 1,251                                |
|   |                                      |  |                                      | Pacific.....  | 19,512                               |
|   |                                      |  |                                      | Oregon.....   | 1,165                                |
|   |                                      |  |                                      | California.....   | 17,903                               |

<sup>1</sup>For the specified product classes, production of over \$1 million were reported for 1963 for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 32291, New York, Pennsylvania, Ohio, Indiana, Oklahoma, and California; 32292, Rhode Island, New York, Pennsylvania, Ohio, Indiana, Michigan, Kentucky, and Oklahoma; 32293, Rhode Island, Pennsylvania, Ohio, Kansas, West Virginia, North Carolina, South Carolina, and Tennessee; 32294, Rhode Island, New York, New Jersey, Pennsylvania, Ohio, Indiana, Virginia, West Virginia, Kentucky, and Oklahoma; 32315, Connecticut, Illinois, Michigan, Tennessee, Mississippi, and Arkansas; 32316, Rhode Island, Virginia, and Tennessee.

TABLE 7A. Materials by Kind: 1963 and 1958

| Code   | Material  | Unit of measure  | 1963      |                          | 1958      |                          |
|--|---|------------------|-----------|--------------------------|-----------|--------------------------|
|  |   |                  | Quantity  | Delivered cost (\$1,000) | Quantity  | Delivered cost (\$1,000) |
| INDUSTRY 3211.—FLAT GLASS                      |   |                  |           |                          |           |                          |
|  | Materials, containers, and supplies, total.....                                   |                  | (X)       | 146,029                  | (X)       | 94,234                   |
| 281228   | Sodium carbonate (soda ash) (98-100% Na <sub>2</sub> CO <sub>3</sub> ).....       | Short tons.....  | 398,757   | 13,524                   | 248,348   | 9,096                    |
| 144301   | Glass sand, all types.....  | ..do.....        | 1,880,629 | 8,595                    | 1,348,968 | 6,048                    |
| 281976   | Sodium sulfate, including salt cake.....  | ..do.....        | 67,624    | 2,141                    | 49,275    | 1,719                    |
| 321121   | Plate glass.....  | 1,000 sq. ft.... | 87,569    | 18,952                   | (NA)      | (NA)                     |
| 321111   | Sheet glass.....  | ..do.....        | 15,166    | 2,587                    | (NA)      | (NA)                     |
| Refractories:                                  |   |                  |           |                          |           |                          |
| 325501   | Clay.....   | Short tons.....  | 14,428    | 2,622                    | (NA)      | (NA)                     |
| 329701   | Nonclay.....  | ..do.....        | 9,807     | 1,641                    | (NA)      | (NA)                     |
| 265011   | Paper and paperboard containers, including folding, corrugated, and set-up.....   |                  | (X)       | 4,753                    | (NA)      | (NA)                     |
| 244011   | Wooden boxes and crates.....  |                  | (X)       | 7,902                    | (X)       | 10,338                   |
| 999816   | Cullet (glass scrap).....   | 1,000 lbs.....   | 998,149   | 7,472                    | (NA)      | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed..... |                  | (X)       | 75,840                   | (X)       | 67,033                   |
| INDUSTRY 3221.—GLASS CONTAINERS                |   |                  |           |                          |           |                          |
|  | Materials, containers, and supplies, total.....                                   |                  | (X)       | 315,938                  | (X)       | 273,197                  |
| 281228   | Sodium carbonate (soda ash) (98-100% Na <sub>2</sub> CO <sub>3</sub> ).....       | Short tons.....  | 1,623,890 | 58,082                   | 1,258,695 | 44,711                   |
| 144301   | Glass sand, all types.....  | ..do.....        | 4,724,608 | 26,906                   | 3,832,113 | 20,416                   |
| 281976   | Sodium sulfate, including salt cake.....  | ..do.....        | -         | -                        | 10,177    | 362                      |
| Refractories:                                  |   |                  |           |                          |           |                          |
| 325501   | Clay.....   | ..do.....        | (S)       | 2,739                    | (NA)      | (NA)                     |
| 329701   | Nonclay.....  | ..do.....        | (S)       | 3,078                    | (NA)      | (NA)                     |
| 265011   | Paperboard boxes and containers, including folding, corrugated, and set-up.....   |                  | (X)       | 100,472                  | (X)       | 85,783                   |
| 970099   | All other materials and components, parts, containers, and supplies consumed..... |                  | (X)       | 124,673                  | (X)       | 121,925                  |
| INDUSTRY 3229.—PRESSED AND BLOWN GLASS, N.E.C. |   |                  |           |                          |           |                          |
|  | Materials, containers, and supplies, total.....                                   |                  | (X)       | 130,544                  | (X)       | 104,081                  |
| 281228   | Sodium carbonate (soda ash) (98-100% Na <sub>2</sub> CO <sub>3</sub> ).....       | Short tons.....  | 148,317   | 5,349                    | 124,801   | 4,618                    |
| 144301   | Glass sand, all types.....  | ..do.....        | 767,155   | 5,783                    | 505,842   | 4,163                    |
| 281976   | Sodium sulfate, including salt cake.....  | ..do.....        | 14,479    | 926                      | (NA)      | (NA)                     |
| 321121   | Plate glass.....  | 1,000 sq. ft.... |           |                          |           |                          |
| 321111   | Sheet glass.....  | ..do.....        |           |                          |           |                          |
| 322911   | Glass tumblers, stemware, and other tableware.....                                |                  | (X)       | 1,231                    | (NA)      | 4,734                    |
| 322901   | Other glass products.....   |                  |           |                          |           |                          |
| Refractories:                                  |   |                  |           |                          |           |                          |
| 325501   | Clay.....   | Short tons.....  | 7,967     | 1,723                    | (NA)      | (NA)                     |
| 329701   | Nonclay.....  | ..do.....        | (S)       | 1,131                    | (NA)      | (NA)                     |
| 265011   | Paper and paperboard containers including folding, corrugated, and set-up.....    |                  | (X)       | 23,613                   | (X)       | 17,643                   |
| 244011   | Wooden boxes and crates.....  |                  | (X)       | 628                      | (NA)      | (NA)                     |
| 999816   | Cullet (glass scrap).....   | 1,000 lbs.....   | 417,593   | 6,425                    | (NA)      | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed..... |                  | (X)       | 83,735                   | (X)       | 67,924                   |
| 973000   | All other materials, containers, and supplies, n.s.k.....                         |                  | (X)       | -                        | -         | 4,999                    |
| INDUSTRY 3231.—PRODUCTS OF PURCHASED GLASS     |   |                  |           |                          |           |                          |
|  | Materials, containers, and supplies, total.....                                   |                  | (X)       | 281,018                  | (X)       | 199,597                  |
| 321121   | Plate glass.....  | 1,000 sq. ft.... | 293,675   | 104,865                  | 262,085   | 79,363                   |
| 321111   | Sheet glass:  |                  |           |                          |           |                          |
|  | Quantity reported.....  | ..do.....        | 255,939   | 47,930                   | 144,917   | 17,894                   |
|  | Quantity not reported.....  | ..do.....        | (X)       | (X)                      | (X)       | 6,464                    |
| 322911   | Glass tumblers, stemware, and other tableware.....                                |                  | (X)       | 3,871                    | (X)       | 5,137                    |
| 322901   | Other glass products.....   |                  | (X)       | 14,721                   | (X)       | 10,155                   |
| 265011   | Paper and paperboard containers including folding, corrugated, and set-up.....    |                  | (X)       | 4,518                    | (X)       | 5,544                    |
| 244011   | Wooden boxes and crates.....  |                  | (X)       | 3,490                    | (NA)      | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed..... |                  | (X)       | 72,594                   | (X)       | 55,209                   |
| 973000   | Materials, containers, and supplies, n.s.k. <sup>1</sup> .....                    |                  | (X)       | 29,029                   | (X)       | 19,831                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.s.k. Not specified by kind.

<sup>1</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item   | Flat glass<br>(SIC 3211) | Glass<br>Containers<br>(SIC 3221) | Pressed<br>and blown<br>glass,<br>n.e.c.<br>(SIC 3229) | Products of<br>purchased<br>glass<br>(SIC 3231) |
|--|--------------------------|-----------------------------------|--|---|
| Total cost of purchased fuels and electric energy.....\$1,000..  | 23,576                   | 55,760                            | 30,425   | 8,052   |
| Total cost of purchased fuels.....do....   | 16,698                   | 41,048                            | 22,361   | 3,682   |
| Bituminous coal, lignite, and anthracite:  |                          |                                   |  |   |
| Quantity.....1,000 short tons..  | 337                      | 71                                | (S)  | 93  |
| Cost.....\$1,000..   | 2,334                    | 548                               | (S)  | 683   |
| Coke and breeze:   |                          |                                   |  |   |
| Quantity.....1,000 short tons..  | -                        | -                                 | (S)  | -   |
| Cost.....\$1,000..   | -                        | -                                 | (S)  | -   |
| Fuel oil (distillate and residual):  |                          |                                   |  |   |
| Quantity.....1,000 barrels of 42 gallons..   | (S)                      | 1,527                             | 329  | 89  |
| Cost.....\$1,000..   | (S)                      | 4,523                             | 1,100  | 300   |
| Gas (natural, manufactured, still, blast furnace,<br>and coke oven):   |                          |                                   |  |   |
| Quantity.....million cu.ft..   | 32,728                   | 80,774                            | 39,533   | 3,797   |
| Cost.....\$1,000..   | 13,649                   | 35,699                            | 19,501   | 1,997   |
| Other fuels.....do....   | 465                      | 278                               | 1,457  | 702   |
| Electric energy:   |                          |                                   |  |   |
| Purchased:   |                          |                                   |  |   |
| Quantity.....million kw.-hrs..   | 828                      | 1,676                             | 863  | 295   |
| Cost.....\$1,000..   | 6,878                    | 14,712                            | 8,064  | 4,370   |
| Generated less sold.....million kw.-hrs..  | 170                      | 17                                | -  | 18  |
| Aggregate horsepower of prime movers and electric motors<br>driven by purchased energy (December 31), total.....1,000 hp.. | 338                      | 438                               | 202  | 130   |
| Prime movers, total.....do....   | 84                       | 60                                | 17   | 23  |
| Driving generators.....do....  | 66                       | 11                                | 5  | 19  |
| Not driving generators.....do....  | 18                       | 49                                | 12   | 4   |
| Electric motors, total.....do....  | 287                      | 382                               | 185  | 114   |
| Driven by purchased energy.....do....  | 255                      | 378                               | 185  | 107   |
| Driven by energy generated at establishment.....do....   | 32                       | 4                                 | -  | 7   |
| Aggregate horsepower per 100 production workers.....   | 1,769                    | 821                               | 610  | 567   |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry of product class code | Industry or product class by percent of specialization                          | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3229-                          | PRESSED AND BLOWN GLASS, N.E.C.   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 107                     | 37,999         | 207,292           | 33,057             | 64,855            | 167,921         | 472,212  | 167,473                     | 630,945                      | 22,664                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% of more specialization...   | 93                      | 33,604         | 185,922           | 29,128             | 57,073            | 150,000         | 395,893  | 146,898                     | 535,495                      | 20,369                              |
| 32291                          | Table, kitchen, art and novelty glassware(primary product class of estab.)..... | 40                      | 18,161         | 96,272            | 15,805             | 30,229            | 78,342          | 208,077  | 65,019                      | 267,923                      | 7,169                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 23                      | 8,990          | 46,073            | 7,620              | 13,992            | 36,892          | 89,495   | 26,061                      | 112,602                      | 2,394                               |
|                                | 75-89% specialization.....  | 8                       | 3,560          | 18,044            | 3,207              | 6,161             | 14,576          | 70,240   | 18,302                      | 86,743                       | 2,185                               |
| 32292                          | Lighting and electronic glassware (primary product class of estab.)             | 40                      | 10,720         | 61,169            | 9,438              | 18,529            | 50,169          | 163,315  | 51,192                      | 213,623                      | 6,599                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 25                      | 7,126          | 41,537            | 6,257              | 12,534            | 34,330          | 121,335  | 35,987                      | 156,890                      | 5,146                               |
|                                | 75-89% specialization.....  | 7                       | 1,319          | 7,343             | 1,177              | 2,305             | 6,030           | 16,917   | 5,383                       | 22,201                       | 466                                 |
| 32293                          | Glass fiber (primary product class of estab.).....                              | 8                       | 5,118          | 26,850            | 4,394              | 9,395             | 21,433          | 51,816   | 37,408                      | 88,264                       | 7,645                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 8                       | 5,118          | 26,850            | 4,394              | 9,395             | 21,433          | 51,816   | 37,408                      | 88,264                       | 7,645                               |
| 32294                          | Other pressed and blown glassware (primary product class of estab.)             | 15                      | 3,973          | 22,882            | 3,394              | 6,655             | 17,863          | 48,815   | 13,747                      | 60,836                       | 1,188                               |



## CEMENT AND STRUCTURAL CLAY PRODUCTS

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3241--Cement, Hydraulic
- 3251--Brick and Structural Clay Tile
- 3253--Ceramic Wall and Floor Tile
- 3255--Clay Refractories
- 3259--Structural Clay Products, Not Elsewhere Classified

Establishments primarily engaged in manufacturing cement, brick, ceramic tile, clay refractories and other structural clay products included in their census of manufactures reports all of the activities at each establishment including the operation of mines, pits, or quarries at the same site. Selected data for mining and quarrying activities operated in conjunction with the manufacturing plant were reported separately in the 1963 Census of Manufactures by those establishments reporting on "standard forms" and are shown in tables 3 and 9 in this report, as well as in the 1963 reports for the census of mineral industries. "Small" establishments reporting on "short forms" were not required to report separate data for mining or quarrying done in conjunction with manufacturing. The limitations to the statistics resulting from this exclusion of "small" establishments is covered in the table footnotes.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3241--CEMENT, HYDRAULIC

This industry comprises establishments primarily engaged in manufacturing hydraulic cement, including portland, natural, masonry, and puzzolan cements. For a detailed list of products of industry 3241, refer to table 6A, product codes 3241011 to 3241051.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Cement, Hydraulic, Industry totaled \$1,177 million. This amount included shipments of hydraulic cement, including containers (primary products) valued at \$1,158 million, shipments of other products (secondary products)

valued at \$10 million, and miscellaneous receipts, at \$9 million. Virtually all of the hydraulic cement produced both in 1963 and 1958 was produced by plants classified in this industry.

This industry's shipments of hydraulic cement represented 99 percent of its total product shipments. The industry specialization ratio in 1958 was also 99 percent.

The production index for the primary products of the industry increased to 125 in 1963 from the 1958 level of 113. The unit value index for 1963 was 117 compared to 116 in 1958. Both indexes were computed on a basis of 1954 = 100.

In its annual report, Minerals Yearbook, the U.S. Department of the Interior, Bureau of Mines, publishes more detailed figures on the products listed in table 6A of this report. The variation between Bureau of Mines summary totals and the data appearing in this report are due to (1) inclusion of cost of containers and interplant transfers in Census Bureau figures and (2) differences in the reports submitted to the two agencies by individual companies.

#### 3251—BRICK AND STRUCTURAL CLAY TILE

This industry comprises establishments primarily engaged in manufacturing clay building brick, vitrified paving brick and hollow structural tile. Establishments primarily engaged in manufacturing clay firebrick are classified in industry 3255, Clay Refractories; non-clay firebrick in industry 3297, Nonclay Refractories; sand lime brick in industry 3299, Nonmetallic Minerals, N.E.C.; and glass brick in industry 3229, Pressed and Blown Glass, N.E.C. For a detailed list of products of industry 3251, refer to table 6A, product codes 3251111 to 3251251.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Brick and Structural Tile Industry totaled \$325 million. This amount included shipments of brick and structural clay tile (primary products) valued at \$303 million, shipments of other products (secondary products) valued at \$7 million, and miscellaneous receipts, at \$15 million.

This industry's shipments of brick and structural clay tile represented 98 percent of its total product shipments. The industry specialization ratio in 1958 was 96 percent. Secondary products shipped by this industry in 1963 consisted mainly of structural clay products, n.e.c. (\$5 million).

Shipments of brick and structural tile by this industry represented 98 percent of all shipments of these products (\$308 million) by all industries. In 1958, the coverage ratio was also 98 percent.

The production index for the primary products of the industry increased to 102 in 1963 from the 1958 level of 96. The unit value index for 1963 was 125 compared to 115 in 1958. Both indexes were computed on a basis of 1954 = 100.

Monthly data, including geographic information, are published on the production and shipments of brick (product code 3251111) and glazed brick and structural hollow tile (product codes 3251211, 3251231, and 3251251) in Current Industrial Reports series M32D, Clay Construction Products. The monthly survey is conducted on a sample basis and includes estimates for approximately 200 small establishments not included in the survey. The degree of estimation is shown in the monthly publications.



### 3253—CERAMIC WALL AND FLOOR TILE

This industry comprises establishments primarily engaged in manufacturing ceramic mosaic tile, glazed wall tile, quarry tile, and other types of ceramic wall and floor tile. Establishments primarily engaged in manufacturing hollow structural tile and ceramic and salt glazed facing tile are classified in industry 3251, Brick and Structural Tile; drain tile in industry 3259, Structural Clay Products, N.E.C.; asphalt floor tile in industry 3292, Asbestos Products; rubber tile in industry 3069, Rubber Products, N.E.C.; cork wall and floor tile in industry 2499, Wood Products, N.E.C; and other hard surface floor coverings in industry 3982, Hard Surface Floor Coverings. China and earthenware bathroom accessories (towel racks, soap cups, etc.) are classified in industry 3261, Vitreous Plumbing Fixtures. For a detailed list of products of industry 3253, refer to table 6A, product codes 3253013 to 3253071.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Ceramic Wall and Floor Tile Industry totaled \$165 million. This amount included shipments of ceramic wall and floor tile (primary products) valued at \$143 million, shipments of other products (secondary products) valued at \$7 million, and miscellaneous receipts, at \$15 million.

This industry's shipments of ceramic wall and floor tile represented 95 percent of its total product shipments. The industry specialization ratio in 1958 was 94 percent.

Shipments of ceramic wall and floor tile by this industry represented 99 percent of all shipments of these products (\$143 million) by all industries. In 1958 the coverage ratio was also 99 percent.

The production index for the primary products of the industry increased to 157 in 1963 from the 1958 level of 127. The unit value index for 1963 was 98 compared to 106 in 1958. Both indexes were computed on a basis of 1954 = 100.

Monthly data, including geographic information, are published on the production and shipments of ceramic wall and floor tile in Current Industrial Reports series M32D, Clay Construction Products. Estimates not exceeding 5 percent of total shipments are made for small establishments not included in the monthly survey.

### 3255—CLAY REFRACTORIES

This industry comprises establishments primarily engaged in manufacturing clay firebrick, refractory bonding mortars, and other heat-resisting clay products such as glass-house tank blocks, stoppers, floaters, and rings. Establishments primarily engaged in manufacturing nonclay refractories, as well as all graphite refractories whether of carbon bond or ceramic bond, are classified in industry 3297, Nonclay Refractories. For a detailed list of products of industry 3255, refer to table 6A, product codes 3255011 to 3255094.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Clay Refractories Industry totaled \$192 million. This amount included shipments of clay refractories (primary products) valued at \$168 million, shipments of other products (secondary products) valued at \$16 million, and miscellaneous receipts, at \$8 million.

This industry's shipments of clay refractories represented 91 percent of its total product shipments. The industry specialization ratio in 1958 was 93 percent. Secondary prod-

ucts shipped by this industry in 1963 consisted mainly of nonclay refractories (\$9 million), and minerals and earths, ground or otherwise treated (\$2 million).

Shipments of clay refractories by this industry represented 93 percent of all shipments of these products (\$181 million) by all industries. In 1958 the coverage ratio was 92 percent. Other industries shipping clay refractories consisted mainly of industry 3297, nonclay refractories \$8 million.

The production index for the primary products of the industry increased to 123 in 1963 from the 1958 level of 94. The unit value index for 1963 was 128 compared to 131 in 1958. Both indexes were computed on a basis of 1954 = 100.

Quarterly data on the shipments of clay refractories are published in Current Industrial Reports series M32C, Refractories. The detailed product information for 1963 as it appears in table 6A of this report was obtained from the 1964 Annual Summary (M32C (64)-5) from this series. Since detailed product statistics are reported quarterly, manufacturers were required to report only total shipments of clay refractories in the census of manufactures. A comparison on the totals as reported in the quarterly survey and the census of manufactures appears in table 6A.

#### 3259--STRUCTURAL CLAY PRODUCTS, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing clay sewer pipe and kindred products made of clay, and structural clay products, n.e.c., such as architectural terra cotta, roofing tile, stove lining, flue lining, chimney pipes, thimbles and tops, wall coping, segment blocks, drain tile and adobe brick. Establishments primarily engaged in manufacturing concrete sewer pipe are classified in industry 3272, Other Concrete Products; cast iron pipe in industry 3321, Gray Iron Foundries; and plastic pipe in industry 3079, Plastics Products, N.E.C. For a detailed list of products of industry 3259, refer to table 6A, product codes 3259111 to 3259298.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Structural Clay Products, N.E.C., Industry totaled \$160 million. This amount included shipments of structural clay products, n.e.c. (primary products) valued at \$135 million, shipments of other products (secondary products) valued at \$17 million, and miscellaneous receipts, at \$8 million.

This industry's shipments of structural clay products, n.e.c., represented 89 percent of its total product shipments. The industry specialization ratio in 1958 was 97 percent. Secondary products shipped by this industry in 1963 consisted mainly of construction plastics products (\$12 million).

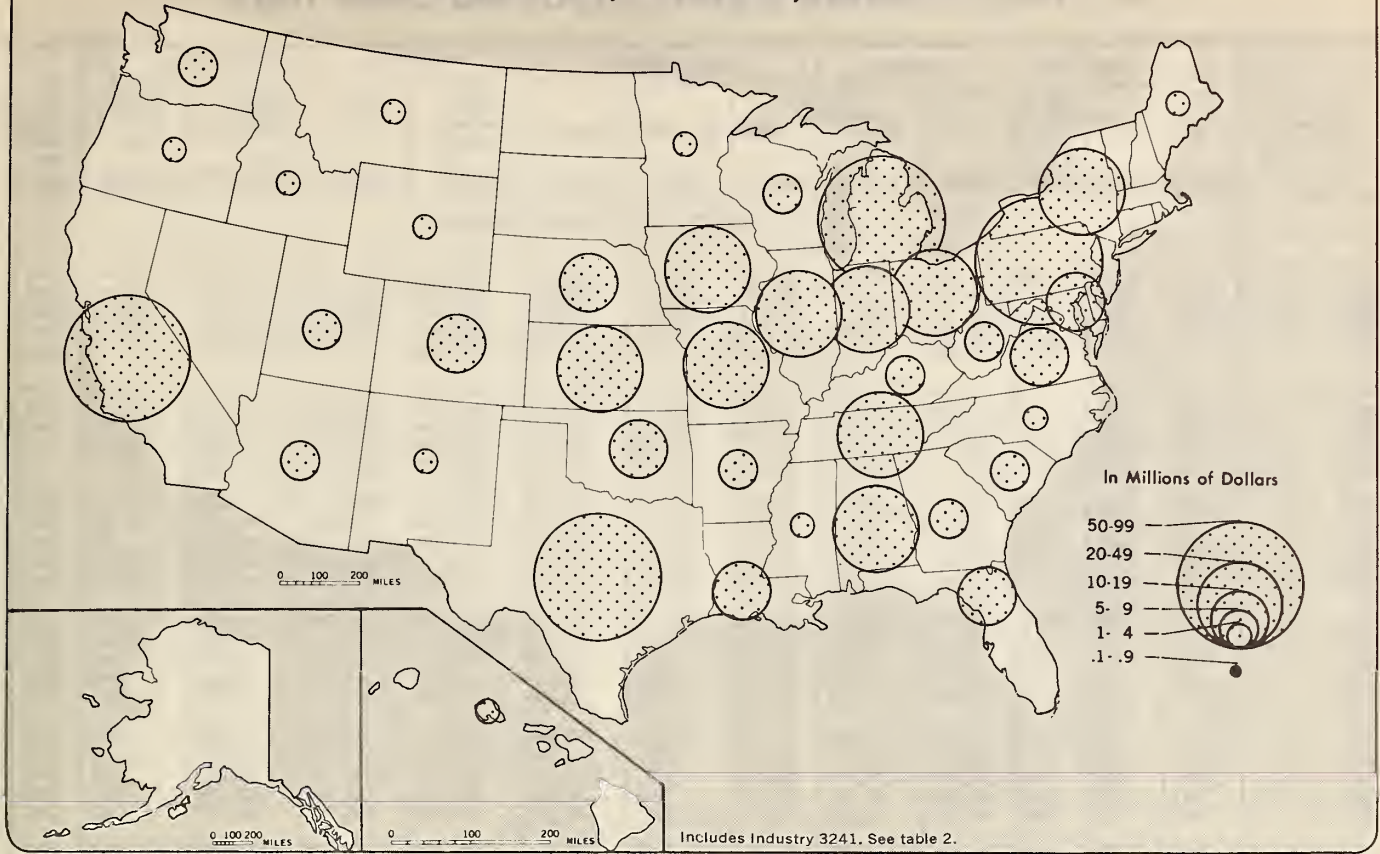
Shipments of structural clay products, n.e.c., by this industry represented 95 percent of all shipments of these products (\$141 million) by all industries. In 1958 the coverage ratio was 94 percent. Other industries shipping structural clay products, n.e.c., consisted mainly of industry 3251, Brick and Structural Tile, \$5 million.

The production index for the primary products of the industry increased slightly to 101 in 1963 from the 1958 level of 100. The unit value index for 1963 was 130 compared to 120 in 1958. Both indexes were computed on a basis of 1954 = 100.

Monthly data, including geographic information, are published on the production and shipments of clay sewer pipe and fittings (product code 3259111) in Current Industrial Reports series M32D, Clay Construction Products.



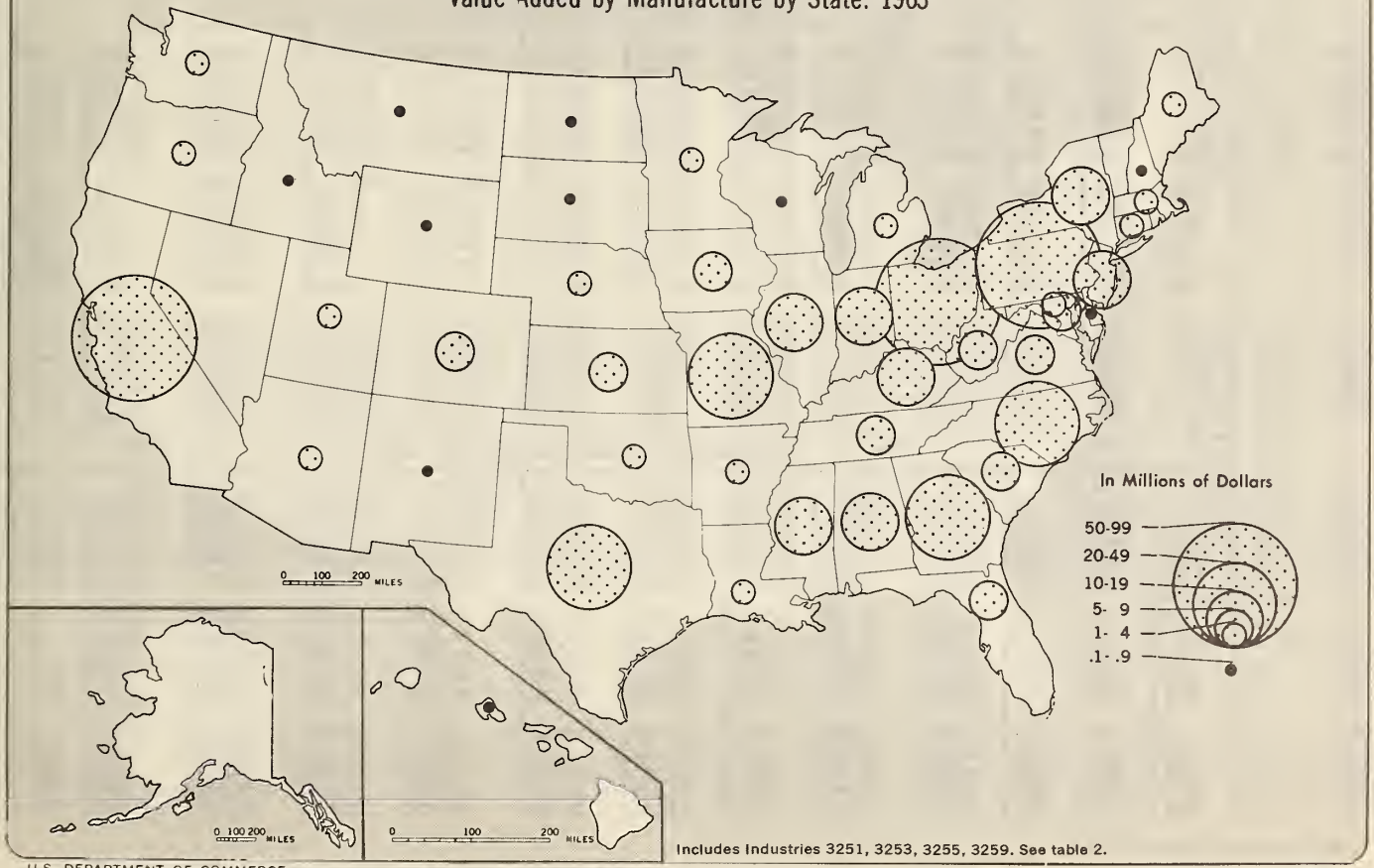
**CEMENT, HYDRAULIC: SIC 324**  
 Value Added by Manufacture by State: 1963



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

**STRUCTURAL CLAY PRODUCTS: SIC 325**  
 Value Added by Manufacture by State: 1963



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics: 1963 and Earlier Years

| Year                                       | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3241.—CEMENT, HYDRAULIC           |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                  | 55                         | 188               | 179  | 34,863            | 227,385              | 28,719             | 57,579               | 173,891            | 785,681  | 388,747                           | 1,176,913                          | 120,843   | 99  | 100                                      |
| 1962 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 35,520            | 220,948              | 29,698             | 59,072               | 171,076            | 771,830  | 360,394                           | 1,131,071                          | 96,735  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 36,388            | 218,107              | 30,533             | 60,519               | 170,553            | 752,877  | 355,423                           | 1,107,872                          | 100,223   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 39,357            | 227,919              | 33,249             | 66,728               | 180,198            | 760,817  | 366,792                           | 1,112,330                          | 114,350   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 41,129            | 229,757              | 35,036             | 71,213               | 183,033            | 815,132  | 379,453                           | 1,190,995                          | 119,436   | (NA)  | (NA)                                     |
| 1958.....                                  | 62                         | 175               | 170  | 41,127            | 214,221              | 34,780             | 69,481               | 170,156            | 724,771  | 354,391                           | 1,073,494                          | 113,095   | 99  | 100                                      |
| 1957 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 41,562            | 203,610              | 35,868             | 70,188               | 161,214            | 648,439  | 344,065                           | 968,490                            | 218,188   | 99  | 100                                      |
| 1956 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 41,429            | 195,292              | 35,809             | 73,648               | 157,554            | 672,436  | 337,028                           | 997,007                            | 239,888   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 40,774            | 179,103              | 35,122             | 73,406               | 144,775            | 597,997  | 305,274                           | 900,086                            | 139,493   | (NA)  | (NA)                                     |
| 1954.....                                  | 67                         | 162               | 160  | 39,769            | 167,659              | 34,036             | 70,839               | 134,777            | 525,667  | 285,388                           | 814,923                            | 73,015  | 99  | 100                                      |
| 1953 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 37,785            | 156,164              | 31,802             | 67,514               | 123,199            | 464,463  | 284,155                           | 748,618                            | 68,866  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 39,429            | 152,178              | 33,418             | 70,507               | 119,685            | 445,834  | 273,060                           | 718,894                            | 44,815  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 39,746            | 141,991              | 33,706             | 70,471               | 111,764            | 427,251  | 265,023                           | 692,274                            | 41,769  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 38,205            | 127,426              | 32,675             | 68,677               | 100,202            | 391,216  | 225,362                           | 616,550                            | 50,804  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 35,613            | 113,823              | 30,327             | 64,041               | 90,838             | 302,591  | 211,974                           | 514,565                            | 44,948  | (NA)  | (NA)                                     |
| 1947.....                                  | 73                         | 155               | (NA)   | 35,662            | 98,626               | 30,639             | 66,341               | 79,861             | 247,936  | 160,992                           | 408,928                            | 42,488  | 100   | 100                                      |
| 1939.....                                  | (NA)                       | 160               | (NA)   | 28,197            | 42,583               | 23,801             | (NA)                 | 31,588             | 124,081  | 68,530                            | 129,611                            | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                  | (NA)                       | 158               | (NA)   | 29,130            | 40,741               | 26,426             | (NA)                 | 34,070             | 113,222  | 69,979                            | 183,201                            | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                  | (NA)                       | 153               | (NA)   | 23,311            | 27,486               | 20,698             | (NA)                 | 20,904             | 77,328   | 43,089                            | 120,417                            | (NA)  | (NA)  | (NA)                                     |
| 1933.....                                  | (NA)                       | 148               | (NA)   | (NA)              | (NA)                 | 15,829             | (NA)                 | 13,870             | 59,989   | 26,932                            | 86,921                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....                                  | (NA)                       | 164               | (NA)   | (NA)              | (NA)                 | 24,317             | (NA)                 | 29,884             | 92,747   | 56,098                            | 148,845                            | (NA)  | (NA)  | (NA)                                     |
| 1929.....                                  | (NA)                       | 174               | (NA)   | 38,752            | 62,834               | 33,368             | (NA)                 | 48,849             | 172,267  | 95,242                            | 267,509                            | (NA)  | (NA)  | (NA)                                     |
| 1927.....                                  | (NA)                       | 161               | (NA)   | 42,878            | 69,442               | 36,322             | (NA)                 | 53,111             | 173,553  | 120,012                           | 293,565                            | (NA)  | (NA)  | (NA)                                     |
| 1925.....                                  | (NA)                       | 125               | (NA)   | 45,033            | 68,658               | 38,337             | (NA)                 | 53,912             | 186,726  | 114,169                           | 300,895                            | (NA)  | (NA)  | (NA)                                     |
| 1923.....                                  | (NA)                       | 133               | (NA)   | 40,537            | 60,940               | 35,091             | (NA)                 | 49,708             | 163,331  | 100,767                           | 264,098                            | (NA)  | (NA)  | (NA)                                     |
| 1921.....                                  | (NA)                       | 125               | (NA)   | 30,891            | 44,958               | 26,231             | (NA)                 | 34,416             | 101,267  | 102,360                           | 203,627                            | (NA)  | (NA)  | (NA)                                     |
| 1919.....                                  | (NA)                       | 123               | (NA)   | 30,238            | 42,691               | 25,524             | (NA)                 | 33,195             | 95,755   | 79,510                            | 175,265                            | (NA)  | (NA)  | (NA)                                     |
| 1914.....                                  | (NA)                       | 133               | (NA)   | 31,948            | 24,258               | 27,916             | (NA)                 | 18,192             | 49,769   | 51,987                            | 101,756                            | (NA)  | (NA)  | (NA)                                     |
| 1909.....                                  | (NA)                       | 135               | (NA)   | 29,494            | 18,973               | 26,775             | (NA)                 | 15,320             | 33,861   | 29,344                            | 63,205                             | (NA)  | (NA)  | (NA)                                     |
| 1904.....                                  | (NA)                       | 129               | (NA)   | 18,861            | 10,672               | 17,478             | (NA)                 | 8,814              | 17,658   | 12,215                            | 29,873                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3251.—BRICK AND STRUCTURAL TILE   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963 <sup>2</sup> .....                    | 401                        | 512               | 400  | 28,620            | 130,378              | 24,665             | 51,237               | 102,597            | 216,548  | 106,012                           | 325,093                            | 19,344  | 98  | 98                                       |
| 1962 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 33,104            | 139,467              | 28,799             | 58,940               | 110,129            | 237,969  | 164,826                           | 400,232                            | 15,670  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 33,977            | 136,154              | 29,666             | 59,487               | 108,252            | 225,153  | 150,945                           | 370,490                            | (19,878)  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 34,158            | 135,412              | 29,468             | 59,144               | 107,315            | 214,943  | 151,600                           | 359,666                            | (13,832)  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 34,116            | 135,916              | 29,768             | 61,330               | 108,467            | 226,128  | 119,575                           | 342,547                            | (19,953)  | (NA)  | (NA)                                     |
| 1958.....                                  | 468                        | 569               | 430  | 31,087            | 122,868              | 26,955             | 55,316               | 97,196             | 196,890  | 89,410                            | 286,709                            | 14,023  | 96  | 98                                       |
| 1957 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 31,587            | 121,452              | 28,008             | 56,213               | 97,856             | 184,668  | 75,604                            | 253,837                            | (S)   | 95  | 97                                       |
| 1956 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 35,288            | 135,521              | 31,670             | 65,741               | 110,014            | 214,868  | 81,930                            | 284,482                            | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 33,757            | 125,327              | 30,149             | 65,661               | 104,058            | 210,509  | 77,088                            | 289,133                            | (NA)  | (NA)  | (NA)                                     |
| 1954.....                                  | 510                        | 610               | 459  | 32,426            | 114,740              | 28,751             | 61,048               | 93,114             | 184,017  | 77,404                            | 262,590                            | 16,233  | 96  | 98                                       |
| 1953 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 30,269            | 105,155              | 26,855             | 56,996               | 83,478             | 161,764  | 58,444                            | 220,208                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 33,636            | 108,484              | 30,536             | 64,070               | 88,471             | 154,278  | 55,863                            | 210,740                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 35,506            | 112,520              | 32,623             | 69,547               | 93,718             | 156,035  | 68,773                            | 225,407                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 34,729            | 100,585              | 31,380             | 65,525               | 81,281             | 164,224  | 56,616                            | 220,794                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 32,182            | 84,614               | 27,939             | 58,487               | 68,598             | 118,032  | 49,497                            | 167,670                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                  | 574                        | 674               | (NA)   | 29,617            | 69,399               | 27,002             | 58,367               | 59,876             | 110,867  | 37,640                            | 144,497                            | 13,266  | 95  | 97                                       |
| 1939.....                                  | (NA)                       | 800               | (NA)   | 32,962            | 33,877               | 29,069             | (NA)                 | 26,349             | 55,684   | 22,469                            | 78,153                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> .....                    | (NA)                       | 781               | (NA)   | (NA)              | (NA)                 | 27,742             | (NA)                 | 24,685             | 45,887   | 20,014                            | 65,901                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3253.—CERAMIC WALL AND FLOOR TILE |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                  | 72                         | 90                | 64   | 12,795            | 63,745               | 10,409             | 21,002               | 43,794             | 110,571  | 55,083                            | 164,668                            | 9,070   | 95  | 99                                       |
| 1962 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 13,250            | 62,811               | 10,702             | 22,020               | 44,372             | 120,222  | 56,882                            | 173,436                            | (5,356)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 12,575            | 57,595               | 10,033             | 20,198               | 39,440             | 101,627  | 50,869                            | 153,678                            | 3,788   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 13,765            | 61,311               | 11,095             | 22,966               | 43,852             | 106,939  | 52,387                            | 157,600                            | 5,558   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 14,372            | 63,756               | 11,659             | 24,031               | 47,432             | 112,618  | 54,230                            | 163,498                            | (8,535)   | (NA)  | (NA)                                     |
| 1958.....                                  | 79                         | 90                | 62   | 13,068            | 53,738               | 10,889             | 21,768               | 41,494             | 92,779   | 44,095                            | 135,470                            | 3,276   | 94  | 99                                       |
| 1958 <sup>3</sup> (old).....               | (NA)                       | 86                | 58   | 12,482            | 51,350               | 10,387             | 20,747               | 39,696             | 88,442   | 43,178                            | 130,300                            | 3,091   | 93  | 99                                       |
| 1957 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 11,409            | 47,879               | 9,437              | 18,661               | 36,234             | 81,653   | 32,823                            | 112,929                            | 8,839   | 91  | 99                                       |
| 1956 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 13,129            | 54,020               | 11,248             | 22,570               | 42,357             | 95,761   | 37,618                            | 126,518                            | 7,743   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 12,325            | 48,452               | 10,445             | 21,134               | 37,781             | 90,841   | 33,708                            | 124,449                            | 5,493   | (NA)  | (NA)                                     |
| 1954.....                                  | 41                         | 49                | 40   | 11,265            | 43,488               | 9,627              | 19,706               | 33,718             | 71,501   | 26,727                            | 100,025                            | 4,579   | 91  | 99                                       |
| 1953 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 10,411            | 38,719               | 8,707              | 18,123               | 29,755             | 60,400   | 23,357                            | 83,757                             | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 9,089             | 31,257               | 8,032              | 16,919               | 24,926             | 45,719   | 20,657                            | 66,429                             | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 9,462             | 31,691               | 8,507              | 18,159               | 25,341             | 52,881   | 21,957                            | 74,891                             | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 9,008             | 26,301               | 8,120              | 17,121               | 21,640             | 46,673   | 18,837                            | 65,563                             | (NA)  | (NA)  | (NA)                                     |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3253.—CERAMIC WALL AND FLOOR TILE—Continued   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1949 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 6,712             | 19,445               | 5,949              | 13,025               | 15,874             | 32,581   | 13,358                            | 45,992                             | (NA)  | (NA)  | (NA)                                     |
| 1947.....  | 34                         | 37                | 31   | 6,828             | 16,335               | 6,250              | 13,088               | 13,774             | 31,238   | 10,684                            | 40,966                             | 2,277   | 97  | 95                                       |
| 1939.....  | (NA)                       | 49                | (NA)   | 6,434             | 7,523                | 5,681              | (NA)                 | 5,931              | 12,517   | 5,142                             | 17,659                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> .....  | (NA)                       | 37                | (NA)   | (NA)              | (NA)                 | 6,288              | (NA)                 | 6,531              | 11,762   | 5,324                             | 17,086                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3255.—CLAY REFRACTORIES   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 80                         | 150               | 109  | 11,431            | 64,822               | 9,402              | 18,139               | 49,648             | 118,248  | 74,476                            | 192,230                            | 7,936   | 91  | 33                                       |
| 1962 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 12,019            | 67,053               | 10,324             | 18,057               | 49,324             | 114,578  | 73,995                            | 189,274                            | 8,100   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 12,871            | 68,471               | 11,149             | 19,449               | 51,495             | 113,106  | 78,160                            | 189,738                            | 6,517   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 13,884            | 70,988               | 12,128             | 21,232               | 54,481             | 118,790  | 75,546                            | 193,084                            | 8,548   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 13,611            | 69,867               | 11,825             | 21,237               | 52,958             | 123,013  | 72,499                            | 193,169                            | 9,902   | (NA)  | (NA)                                     |
| 1958.....  | 104                        | 167               | 117  | 12,394            | 59,816               | 10,110             | 18,581               | 44,920             | 104,898  | 56,624                            | 163,478                            | 10,804  | 93  | 92                                       |
| 1957 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 17,232            | 84,675               | 14,783             | 27,788               | 64,891             | 147,798  | 94,941                            | 237,493                            | (S)   | 88  | 94                                       |
| 1956 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 17,810            | 80,913               | 15,436             | 29,199               | 62,916             | 147,147  | 90,125                            | 232,780                            | 15,306  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 16,612            | 70,064               | 14,397             | 27,845               | 54,722             | 128,749  | 73,136                            | 198,345                            | 8,934   | (NA)  | (NA)                                     |
| 1954.....  | 113                        | 177               | 133  | 14,463            | 55,604               | 12,204             | 22,783               | 43,006             | 88,483   | 49,956                            | 139,290                            | 5,702   | 92  | 95                                       |
| 1953 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 15,644            | 58,502               | 13,638             | 27,001               | 48,595             | 94,904   | 52,410                            | 147,314                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 17,534            | 62,239               | 15,412             | 30,709               | 51,553             | 106,755  | 53,620                            | 160,290                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 18,018            | 62,877               | 15,852             | 32,976               | 52,356             | 114,362  | 54,308                            | 168,585                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 16,035            | 47,634               | 13,989             | 27,297               | 39,156             | 87,448   | 39,568                            | 126,825                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 16,019            | 44,671               | 14,062             | 25,806               | 36,393             | 69,865   | 36,467                            | 106,141                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....  | 108                        | 168               | (NA)   | 17,963            | 47,048               | 15,937             | 31,830               | 38,663             | 75,982   | 35,259                            | 109,260                            | (NA)  | 93  | 94                                       |
| 1939.....  | (NA)                       | 165               | (NA)   | 13,655            | 15,404               | 12,211             | (NA)                 | 12,324             | 28,978   | 13,213                            | 42,191                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> .....  | (NA)                       | 163               | (NA)   | (NA)              | (NA)                 | 15,449             | (NA)                 | 16,409             | 34,827   | 17,823                            | 52,650                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3259.—STRUCTURAL CLAY PRODUCTS, N.E.C.  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963 <sup>1</sup> .....  | 126                        | 164               | 108  | 12,188            | 61,977               | 10,364             | 21,142               | 48,727             | 108,442  | 53,382                            | 159,724                            | 5,842   | 89  | 95                                       |
| 1962 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 12,235            | 63,028               | 10,523             | 20,929               | 49,630             | 104,944  | 47,256                            | 153,868                            | (7,382)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 13,058            | 62,901               | 11,286             | 22,909               | 49,804             | 107,411  | 45,240                            | 150,080                            | 8,229   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 13,443            | 62,224               | 11,585             | 23,042               | 49,912             | 108,752  | 45,474                            | 149,739                            | 11,448  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 13,875            | 62,172               | 11,745             | 23,427               | 48,905             | 107,689  | 43,917                            | 152,634                            | 6,755   | (NA)  | (NA)                                     |
| 1958.....  | (NA)                       | 192               | 117  | 13,756            | 56,454               | 11,795             | 22,185               | 44,582             | 95,881   | 38,190                            | 134,928                            | 6,759   | 97  | 94                                       |
| 1958 <sup>4</sup> (old).....   | (NA)                       | 195               | 120  | 14,112            | 57,800               | 12,096             | 22,791               | 45,508             | 98,526   | 38,611                            | 137,810                            | 6,565   | (NA)  | (NA)                                     |
| 1954.....  | (NA)                       | 217               | 129  | 14,659            | 53,333               | 12,982             | 26,225               | 44,000             | 83,648   | 27,645                            | 110,330                            | 5,046   | 89  | 84                                       |
| 1950 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 14,375            | 42,039               | 12,774             | 24,818               | 34,986             | 72,697   | 20,045                            | 92,969                             | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 14,874            | 41,487               | 13,408             | 26,638               | 34,870             | 59,082   | 21,931                            | 80,972                             | (NA)  | (NA)  | (NA)                                     |
| 1947.....  | (NA)                       | 230               | 127  | 14,850            | 36,371               | 13,487             | 27,945               | 31,706             | 62,233   | 18,459                            | 76,668                             | (NA)  | 83  | 83                                       |
| 1939.....  | (NA)                       | 192               | (NA)   | 10,942            | 19,779               | 15,589             | (NA)                 | 15,732             | 20,941   | 6,805                             | 51,641                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> .....  | (NA)                       | 201               | (NA)   | (NA)              | (NA)                 | 10,105             | (NA)                 | 10,220             | 19,810   | 7,815                             | 27,625                             | (NA)  | (NA)  | (NA)                                     |
| Total for<br>clay products<br>(other than<br>pottery) and<br>nonclay re-<br>fractories: <sup>5</sup> |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1937.....  | (NA)                       | 1,238             | (NA)   | 70,460            | 75,330               | 65,226             | (NA)                 | 64,175             | 128,206  | 63,513                            | 191,719                            | (NA)  | (NA)  | (NA)                                     |
| 1935.....  | (NA)                       | 1,074             | (NA)   | 49,296            | 44,000               | 44,583             | (NA)                 | 34,603             | 73,114   | 38,083                            | 111,197                            | (NA)  | (NA)  | (NA)                                     |
| 1933.....  | (NA)                       | 928               | (NA)   | 34,962            | 23,535               | 31,944             | (NA)                 | 18,967             | 44,609   | 19,994                            | 64,603                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....  | (NA)                       | 1,264             | (NA)   | (NA)              | (NA)                 | 51,128             | (NA)                 | 44,368             | 90,367   | 36,969                            | 127,336                            | (NA)  | (NA)  | (NA)                                     |
| 1929.....  | (NA)                       | 1,760             | (NA)   | 101,938           | 128,989              | 93,657             | (NA)                 | 107,348            | 215,145  | 82,734                            | 297,879                            | (NA)  | (NA)  | (NA)                                     |
| 1927.....  | (NA)                       | 1,857             | (NA)   | 109,743           | 144,550              | 101,230            | (NA)                 | 122,311            | 221,248  | 100,642                           | 321,890                            | (NA)  | (NA)  | (NA)                                     |
| 1925.....  | (NA)                       | 1,950             | (NA)   | 111,662           | 148,914              | 103,061            | (NA)                 | 127,508            | 235,054  | 100,768                           | 335,822                            | (NA)  | (NA)  | (NA)                                     |
| 1923.....  | (NA)                       | 1,996             | (NA)   | 112,504           | 146,346              | 103,239            | (NA)                 | 124,400            | 232,340  | 104,544                           | 336,884                            | (NA)  | (NA)  | (NA)                                     |
| 1921.....  | (NA)                       | 1,898             | (NA)   | 76,247            | 90,915               | 69,171             | (NA)                 | 74,222             | 127,196  | 69,103                            | 196,299                            | (NA)  | (NA)  | (NA)                                     |
| 1919.....  | (NA)                       | 2,436             | (NA)   | 85,887            | 95,545               | 77,763             | (NA)                 | 79,179             | 143,996  | 69,721                            | 213,717                            | (NA)  | (NA)  | (NA)                                     |
| 1914.....  | (NA)                       | 3,249             | (NA)   | 108,407           | 65,769               | 100,484            | (NA)                 | 55,079             | 93,815   | 43,993                            | 137,808                            | (NA)  | (NA)  | (NA)                                     |

Footnotes on next page.

TABLE 1. General Statistics: 1963 and Earlier Years—Continued

Footnotes for Table 1-32B

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1954 excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1954 excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>"Brick and Structural Tile," "Ceramic Wall and Floor Tile," "Sewer Pipe," "Clay Refractories" and "Structural Clay Products, N.E.C." together with "Nonclay Refractories," formerly constituted a single industry classification, "Clay Products (other than pottery) and Nonclay Refractories," figures for which are shown in this table for the period 1914-1937.

<sup>3</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification. Figures for 1957 and earlier years are on the basis of the old SIC definition of the industry. Data for 1958 was retabulated to provide data comparable to that shown for 1957 and earlier years. The details of these revisions are described in Volume II, Industry Statistics, 1958 Census of Manufactures.

<sup>4</sup>The 1957 Standard Industrial Classification combined in this industry, industry 3254, Sewer Pipe and industry 3259, Structural Clay Products, N.E.C., which were separate in the 1945 Standard Industrial Classification. The data for 1957 and earlier years for these two industries have been combined to provide comparable data. The details of the revisions are described in Volume II, Industry Statistics, 1958 Census of Manufactures.

<sup>5</sup>Includes data for establishments engaged primarily in the manufacture of nonclay refractories. For 1937 the statistics included for these establishments are as follows: Number of establishments - 40; All employees, total - 5,990; Payroll - \$7,218 thousand; Production workers, total - 5,641; Production workers, wages - \$6,331 thousand; Value added by manufacture - \$15,919 thousand; Cost of materials - \$12,538 thousand; Value of shipments - \$28,457 thousand.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>             | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3241.—CEMENT, HYDRAULIC         |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                               | 188            | 179                                | 34,863         | 227,385           | 28,719             | 57,579            | 173,891         | 785,681                              | 388,747           | 1,176,913          | 120,843                   | 41,127           | 724,771                              |
| Northeast.....                           | 37             | 36                                 | 7,029          | 46,870            | 5,918              | 11,763            | 36,711          | 123,986                              | 73,064            | 198,370            | 11,393                    | 9,214            | 141,241                              |
| Pennsylvania.....                        | 23             | 23                                 | 4,784          | 31,301            | 4,024              | 7,846             | 24,415          | 84,039                               | 46,684            | 130,911            | 8,998                     | 6,455            | 101,644                              |
| East North Central.....                  | 31             | 28                                 | 6,793          | 45,888            | 5,573              | 11,244            | 34,750          | 163,368                              | 74,562            | 240,972            | 19,112                    | 9,063            | 152,958                              |
| Ohio.....                                | 9              | 9                                  | 1,808          | 12,082            | 1,488              | 2,901             | 8,728           | 37,298                               | 16,670            | 54,325             | 6,588                     | 2,362            | 36,817                               |
| Indiana.....                             | 5              | 5                                  | 1,641          | 10,129            | 1,299              | 2,485             | 7,423           | 35,462                               | 18,114            | 54,732             | 1,470                     | 2,514            | 37,473                               |
| Illinois.....                            | 5              | 5                                  | 1,062          | 6,841             | 957                | 1,897             | 5,914           | 28,151                               | 8,912             | 37,232             | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Michigan.....                            | 9              | 7                                  | 2,026          | 15,134            | 1,617              | 3,504             | 11,340          | 55,506                               | 25,460            | 82,716             | 2,218                     | 2,620            | 49,056                               |
| Wisconsin.....                           | 3              | 2                                  | 256            | 1,702             | 212                | 457               | 1,345           | 6,951                                | 5,406             | 11,967             | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West North Central.....                  | 20             | 20                                 | 4,306          | 26,576            | 3,688              | 7,092             | 21,196          | 100,085                              | 37,484            | 137,699            | 6,223                     | 4,996            | 99,197                               |
| Iowa.....                                | 5              | 5                                  | 1,270          | 8,475             | 1,110              | 2,284             | 7,027           | 32,044                               | 13,625            | 45,650             | 3,543                     | 1,423            | 29,561                               |
| Missouri.....                            | 5              | 5                                  | 1,265          | 7,498             | 1,071              | 1,922             | 5,883           | 31,395                               | 11,190            | 43,103             | 75                        | 1,504            | 30,293                               |
| Kansas.....                              | 7              | 7                                  | 1,146          | 6,750             | 956                | 1,831             | 5,094           | 20,930                               | 6,500             | 27,434             | 604                       | 1,307            | 24,489                               |
| South Atlantic.....                      | 18             | 17                                 | 3,121          | 19,089            | 2,672              | 5,365             | 15,280          | 70,073                               | 37,900            | 107,016            | 26,127                    | 3,198            | 55,012                               |
| Maryland.....                            | 3              | 3                                  | 593            | 3,888             | 544                | 1,108             | 3,399           | 14,659                               | 6,916             | 21,601             | 431                       | 498              | 10,325                               |
| Virginia.....                            | 4              | 4                                  | 801            | 4,560             | 680                | 1,281             | 3,617           | 15,207                               | 6,477             | 21,702             | 434                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Georgia.....                             | 3              | 3                                  | 291            | 2,080             | 224                | 478               | 1,351           | 8,302                                | 4,228             | 12,141             | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| East South Central.....                  | 18             | 18                                 | 2,700          | 17,230            | 2,174              | 4,469             | 12,957          | 63,444                               | 34,582            | 97,862             | 4,663                     | 3,144            | 56,277                               |
| Tennessee.....                           | 6              | 6                                  | 889            | 5,726             | 733                | 1,522             | 4,412           | 22,875                               | 8,893             | 31,720             | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Alabama.....                             | 9              | 9                                  | 1,266          | 8,157             | 1,007              | 2,089             | 6,023           | 30,304                               | 19,006            | 49,282             | 723                       | 1,607            | 30,619                               |
| West South Central.....                  | 28             | 25                                 | 4,002          | 24,169            | 3,090              | 6,399             | 16,931          | 109,309                              | 42,577            | 150,471            | 25,423                    | 4,189            | 88,539                               |
| Oklahoma.....                            | 5              | 4                                  | 446            | 2,974             | 321                | 693               | 1,977           | 16,823                               | 5,235             | 22,036             | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Texas.....                               | 18             | 16                                 | 2,613          | 15,481            | 2,077              | 4,287             | 11,025          | 69,894                               | 26,648            | 95,410             | 16,965                    | 2,689            | 62,100                               |
| Mountain.....                            | 11             | 11                                 | 1,476          | 9,830             | 1,247              | 2,488             | 7,877           | 43,528                               | 17,221            | 60,105             | 13,671                    | 1,527            | 32,827                               |
| Pacific.....                             | 25             | 24                                 | 5,436          | 37,733            | 4,357              | 8,759             | 28,189          | 111,888                              | 71,357            | 184,418            | 14,244                    | 5,796            | 98,720                               |
| Washington.....                          | 6              | 6                                  | 563            | 3,759             | 455                | 864               | 2,902           | 9,928                                | 6,930             | 17,032             | 420                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                          | 14             | 13                                 | 4,345          | 30,373            | 3,470              | 7,025             | 22,568          | 93,096                               | 55,719            | 149,237            | 13,509                    | 4,742            | 86,574                               |
| INDUSTRY 3251.—BRICK AND STRUCTURAL TILE |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                               | 512            | 400                                | 28,620         | 130,378           | 24,665             | 51,237            | 102,597         | 216,548                              | 106,012           | 325,093            | 19,344                    | 31,087           | 196,890                              |
| New England.....                         | 23             | 12                                 | 616            | 2,746             | 548                | 1,064             | 2,340           | 4,519                                | 3,701             | 8,247              | 262                       | 730              | 4,179                                |
| New Hampshire.....                       | 4              | 3                                  | 136            | 574               | 121                | 245               | 493             | 733                                  | 818               | 1,476              | 34                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Connecticut.....                         | 8              | 5                                  | 256            | 1,358             | 231                | 485               | 1,214           | 2,318                                | 2,154             | 4,611              | 129                       | 354              | 2,222                                |
| Middle Atlantic.....                     | 61             | 50                                 | 3,242          | 17,906            | 2,829              | 5,941             | 14,787          | 29,623                               | 12,643            | 42,720             | 1,851                     | 4,600            | 33,798                               |
| New York.....                            | 15             | 9                                  | 723            | 4,415             | 664                | 1,456             | 3,839           | 6,344                                | 3,232             | 9,528              | 474                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| New Jersey.....                          | 7              | 7                                  | 400            | 2,307             | 343                | 746               | 1,827           | 4,069                                | 1,487             | 5,547              | 351                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pennsylvania.....                        | 39             | 34                                 | 2,119          | 11,184            | 1,822              | 3,739             | 9,121           | 19,210                               | 7,924             | 27,645             | 1,026                     | 2,815            | 21,595                               |
| East North Central.....                  | 94             | 77                                 | 5,994          | 31,548            | 5,213              | 10,627            | 25,762          | 48,429                               | 23,262            | 71,643             | 3,329                     | 7,666            | 53,907                               |
| Ohio.....                                | 45             | 43                                 | 3,327          | 17,689            | 2,883              | 5,767             | 14,197          | 27,881                               | 13,318            | 41,307             | 1,945                     | 4,066            | 31,326                               |
| Indiana.....                             | 20             | 15                                 | 1,303          | 6,655             | 1,138              | 2,448             | 5,633           | 9,111                                | 5,114             | 14,249             | 883                       | 1,651            | 9,281                                |
| Illinois.....                            | 21             | 18                                 | 1,223          | 6,469             | 1,067              | 2,132             | 5,311           | 10,454                               | 4,437             | 14,733             | 464                       | 1,669            | 12,291                               |
| West North Central.....                  | 38             | 31                                 | 1,546          | 7,116             | 1,319              | 2,811             | 5,415           | 11,914                               | 7,255             | 19,534             | 2,396                     | 1,634            | 11,216                               |
| Iowa.....                                | 11             | 10                                 | 445            | 1,819             | 363                | 721               | 1,260           | 2,987                                | 3,151             | 6,422              | 928                       | 644              | 4,646                                |
| Missouri.....                            | 9              | 7                                  | 317            | 1,546             | 289                | 625               | 1,289           | 3,114                                | 1,492             | 4,617              | 781                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Nebraska.....                            | 4              | 3                                  | 175            | 770               | 148                | 327               | 571             | 1,392                                | 544               | 1,938              | 104                       | 123              | 584                                  |
| Kansas.....                              | 8              | 7                                  | 372            | 1,829             | 323                | 719               | 1,418           | 2,823                                | 1,036             | 4,017              | 387                       | 400              | 2,652                                |
| South Atlantic.....                      | 89             | 77                                 | 6,766          | 27,246            | 5,772              | 12,174            | 20,648          | 50,772                               | 22,661            | 74,133             | 3,814                     | 5,775            | 32,450                               |
| Maryland.....                            | 10             | 8                                  | 529            | 2,288             | 462                | 994               | 1,828           | 4,474                                | 1,613             | 6,199              | 203                       | 525              | 3,963                                |
| Virginia.....                            | 13             | 12                                 | 805            | 3,241             | 721                | 1,530             | 2,634           | 7,644                                | 2,812             | 10,658             | 453                       | 740              | 4,360                                |
| West Virginia.....                       | 7              | 5                                  | 367            | 1,542             | 320                | 625               | 1,268           | 1,979                                | 1,145             | 3,103              | 78                        | 306              | 1,596                                |
| North Carolina.....                      | 29             | 27                                 | 2,053          | 8,692             | 1,682              | 3,743             | 6,314           | 16,769                               | 7,856             | 24,555             | 1,282                     | 1,721            | 10,950                               |
| Georgia.....                             | 9              | 8                                  | 1,633          | 6,147             | 1,374              | 2,857             | 4,458           | 10,960                               | 4,235             | 15,462             | 603                       | 1,487            | 6,923                                |
| East South Central.....                  | 55             | 45                                 | 3,039          | 11,849            | 2,683              | 5,575             | 9,476           | 24,876                               | 10,988            | 36,580             | 2,767                     | 3,055            | 17,362                               |
| Kentucky.....                            | 9              | 7                                  | 353            | 1,437             | 312                | 682               | 1,133           | 2,599                                | 1,570             | 4,203              | 848                       | 360              | 1,682                                |
| Mississippi.....                         | 18             | 15                                 | 803            | 2,926             | 673                | 1,445             | 2,139           | 6,139                                | 3,125             | 9,361              | 992                       | 683              | 3,881                                |
| West South Central.....                  | 81             | 62                                 | 4,611          | 16,893            | 4,033              | 8,620             | 13,316          | 23,679                               | 11,886            | 36,214             | 3,288                     | 4,570            | 23,230                               |
| Arkansas.....                            | 8              | 8                                  | 743            | 2,871             | 657                | 1,340             | 2,276           | 2,905                                | 2,290             | 5,653              | 248                       | 683              | 4,157                                |
| Louisiana.....                           | 11             | 7                                  | 371            | 1,263             | 335                | 691               | 1,058           | 1,436                                | 1,035             | 2,537              | 182                       | 446              | 1,943                                |
| Oklahoma.....                            | 12             | 10                                 | 425            | 1,523             | 368                | 750               | 1,183           | 1,837                                | 1,081             | 2,894              | 525                       | 517              | 3,053                                |
| Texas.....                               | 50             | 37                                 | 3,072          | 11,236            | 2,673              | 5,839             | 8,799           | 17,501                               | 7,480             | 25,130             | 2,333                     | 2,924            | 14,077                               |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                       | 1963              |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           | 1958             |                                      |
|--|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3251.—BRICK AND STRUCTURAL TILE—Continued |                   |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           |                  |                                      |
| Mountain.....                                      | 26                | 16                                    | 1,512             | 8,311                | 1,208              | 2,367                | 5,788              | 11,400                               | 7,891             | 18,775             | 1,052                     | 1,672            | 11,243                               |
| Colorado.....                                      | 7                 | 6                                     | 819               | 4,535                | 650                | 1,259                | 2,977              | 6,331                                | 4,146             | 10,169             | 570                       | 812              | 6,142                                |
| Arizona.....                                       | 7                 | 3                                     | 169               | 844                  | 138                | 270                  | 660                | 1,256                                | 672               | 1,973              | 88                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pacific.....                                       | 45                | 30                                    | 1,294             | 6,763                | 1,060              | 2,058                | 5,065              | 11,336                               | 5,725             | 17,247             | 587                       | 1,385            | 9,505                                |
| Oregon.....  | 7                 | 2                                     | 108               | 607                  | 87                 | 166                  | 461                | 767                                  | 516               | 1,240              | 59                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                                    | 30                | 22                                    | 961               | 5,103                | 786                | 1,511                | 3,823              | 8,357                                | 4,192             | 12,795             | 323                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| INDUSTRY 3253.—CERAMIC WALL AND FLOOR TILE         |                   |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           |                  |                                      |
| Total.....   | 90                | 64                                    | 12,795            | 63,745               | 10,409             | 21,002               | 43,794             | 110,571                              | 55,083            | 164,668            | 9,070                     | 13,068           | 92,779                               |
| Northeast.....                                     | 19                | 12                                    | 2,862             | 15,284               | 2,353              | 4,866                | 10,939             | 26,682                               | 11,692            | 38,345             | 1,243                     | 2,799            | 22,916                               |
| North Central.....                                 | 18                | 13                                    | 3,920             | 20,218               | 3,257              | 6,329                | 13,668             | 33,091                               | 13,768            | 45,957             | 1,052                     | 4,655            | 27,554                               |
| Ohio.....  | 12                | 10                                    | 3,429             | 18,251               | 2,855              | 5,485                | 12,218             | 30,147                               | 12,266            | 41,497             | 976                       | 3,998            | 23,874                               |
| South.....   | 27                | 23                                    | 3,561             | 14,584               | 2,949              | 6,125                | 10,327             | 26,748                               | 19,115            | 46,102             | 5,348                     | 3,204            | 21,197                               |
| Florida.....                                       | 3                 | 3                                     | 625               | 2,409                | 524                | 1,108                | 1,702              | 5,431                                | 3,171             | 8,388              | (D)                       | 370              | 2,686                                |
| Texas.....   | 10                | 10                                    | 1,250             | 4,770                | 1,003              | 2,025                | 2,876              | 6,995                                | 8,034             | 15,327             | 366                       | 1,204            | 7,727                                |
| West.....  | 26                | 16                                    | 2,452             | 13,659               | 1,850              | 3,682                | 8,860              | 24,050                               | 10,508            | 34,264             | 1,427                     | 2,410            | 21,112                               |
| California.....                                    | 21                | 16                                    | 2,406             | 13,456               | 1,813              | 3,605                | 8,709              | 23,797                               | 10,316            | 33,650             | 1,420                     | 2,300            | 20,477                               |
| INDUSTRY 3255.—CLAY REFRACTORIES                   |                   |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           |                  |                                      |
| Total.....   | 150               | 109                                   | 11,431            | 64,822               | 9,402              | 18,139               | 49,648             | 118,248                              | 74,476            | 192,230            | 7,936                     | 12,394           | 104,898                              |
| Northeast.....                                     | 49                | 29                                    | 3,108             | 17,996               | 2,595              | 4,919                | 14,294             | 31,541                               | 20,401            | 51,631             | 2,634                     | 3,493            | 26,695                               |
| Pennsylvania.....                                  | 43                | 35                                    | 2,916             | 16,997               | 2,437              | 4,614                | 13,534             | 29,777                               | 19,628            | 49,163             | 2,583                     | 3,297            | 24,603                               |
| North Central.....                                 | 58                | 43                                    | 5,617             | 32,148               | 4,492              | 8,697                | 23,670             | 59,202                               | 36,033            | 94,400             | 2,740                     | 5,811            | 53,189                               |
| Ohio.....  | 36                | 28                                    | 2,068             | 10,631               | 1,788              | 3,403                | 8,695              | 19,316                               | 10,232            | 29,175             | 652                       | 2,033            | 14,697                               |
| South Atlantic.....                                | 13                | 9                                     | 1,300             | 7,090                | 1,118              | 2,168                | 5,506              | 12,716                               | 8,062             | 20,844             | 1,393                     | 1,262            | 9,281                                |
| Maryland.....                                      | 4                 | 3                                     | 245               | 1,576                | 211                | 402                  | 1,156              | 2,210                                | 2,469             | 4,884              | 155                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| East South Central.....                            | 10                | 8                                     | 748               | 4,165                | 678                | 1,316                | 3,702              | 6,635                                | 5,336             | 12,387             | 340                       | 935              | 7,119                                |
| Kentucky.....                                      | 6                 | 5                                     | 539               | 2,995                | 499                | 964                  | 2,750              | 4,653                                | 3,882             | 8,761              | 286                       | 625              | 4,614                                |
| Alabama.....                                       | 4                 | 3                                     | 209               | 1,170                | 179                | 352                  | 952                | 1,982                                | 1,454             | 3,626              | 54                        | 310              | 2,505                                |
| West South Central.....                            | 4                 | 3                                     | 183               | 699                  | 158                | 310                  | 538                | 1,726                                | 668               | 2,370              | 55                        | 238              | 1,606                                |
| Texas.....   | 4                 | 3                                     | 183               | 699                  | 158                | 310                  | 538                | 1,726                                | 668               | 2,370              | 55                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West.....  | 16                | 7                                     | 475               | 2,724                | 361                | 729                  | 1,938              | 6,428                                | 3,976             | 10,598             | 774                       | 655              | 7,008                                |
| California.....                                    | 10                | 4                                     | 205               | 1,206                | 164                | 329                  | 917                | 3,619                                | 2,410             | 6,192              | 624                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| INDUSTRY 3259.—STRUCTURAL CLAY PRODUCTS, N.E.C.    |                   |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           |                  |                                      |
| Total.....   | 164               | 108                                   | 12,188            | 61,977               | 10,364             | 21,142               | 48,727             | 108,442                              | 53,382            | 159,724            | 5,842                     | 13,756           | 95,881                               |
| Northeast.....                                     | 15                | 12                                    | 1,077             | 5,492                | 963                | 1,951                | 4,711              | 8,713                                | 4,018             | 12,704             | 308                       | 1,308            | 8,837                                |
| East North Central.....                            | 83                | 54                                    | 5,326             | 27,542               | 4,538              | 8,724                | 21,658             | 37,535                               | 21,816            | 58,609             | 1,607                     | 6,834            | 44,058                               |
| Ohio.....  | 46                | 29                                    | 3,294             | 16,454               | 2,803              | 5,168                | 12,806             | 21,169                               | 12,866            | 34,163             | 835                       | 4,812            | 29,479                               |
| Illinois.....                                      | 12                | 10                                    | 636               | 3,304                | 550                | 1,058                | 2,660              | 4,841                                | 2,694             | 7,329              | 163                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Michigan.....                                      | 5                 | 3                                     | 311               | 2,027                | 263                | 595                  | 1,472              | 3,272                                | 1,703             | 4,828              | 162                       | 305              | 3,224                                |
| West North Central.....                            | 16                | 13                                    | 1,512             | 8,058                | 1,235              | 2,727                | 6,117              | 14,007                               | 6,873             | 21,541             | 984                       | 994              | 7,584                                |
| South.....   | 23                | 17                                    | 2,503             | 10,581               | 2,116              | 4,480                | 7,710              | 23,524                               | 10,498            | 32,652             | 1,330                     | 2,846            | 16,916                               |
| West.....  | 27                | 12                                    | 1,770             | 10,304               | 1,512              | 3,260                | 8,531              | 24,663                               | 10,177            | 34,218             | 1,613                     | 1,774            | 18,486                               |
| California.....                                    | 15                | 11                                    | 1,673             | 9,795                | 1,432              | 3,093                | 8,141              | 23,933                               | 9,804             | 33,038             | 1,439                     | 1,565            | 17,269                               |

Footnotes on next page.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

Footnotes for Table 2-32B

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.  
SIC 3241, Cement, Hydraulic: New England—Maine, 1 (100-249); Connecticut, 1 (1-19); Middle Atlantic—New York, 12 (1,000-2,499); West North Central—Minnesota, 1 (100-249); Nebraska, 2 (250-499); South Atlantic—Virginia, 4 (801); West Virginia, 1 (250-499); North Carolina, 1 (20-99); South Carolina, 1 (100-249); Florida, 5 (821); East South Central—Kentucky, 1 (250-499); Mississippi, 2 (100-249); West South Central—Arkansas, 2 (250-499); Louisiana, 3 (500-999); Mountain—Montana, 2 (100-249); Idaho, 1 (20-99); Wyoming, 1 (100-249); Colorado, 2 (250-499); New Mexico, 1 (20-99); Arizona, 2 (250-499); Utah, 2 (100-249); Pacific—Oregon, 3 (250-499); Hawaii, 2 (100-249).

SIC 3251, Brick and Structural Tile: New England—Maine, 7 (100-249); Massachusetts, 4 (100-249); East North Central—Michigan, 3 (20-99); Wisconsin, 5 (20-99); West North Central—Minnesota, 3 (100-249); North Dakota, 2 (20-99); South Dakota, 1 (20-99); South Atlantic—Delaware, 1 (20-99); District of Columbia, 2 (100-249); South Carolina, 14 (1,000-2,499); Florida, 4 (20-99); East South Central—Tennessee, 10 (500-999); Alabama, 18 (1,000-2,499); Mountain—Montana, 2 (20-99); Idaho, 2 (20-99); New Mexico, 1 (20-99); Utah, 6 (250-499); Nevada, 1 (1-19); Pacific—Washington, 7 (100-249); Hawaii, 1 (20-99).

SIC 3253, Ceramic Wall and Floor Tile: New England—Massachusetts, 2 (250-499); Middle Atlantic—New York, 7 (467); New Jersey, 4 (500-999); Pennsylvania, 6 (1,504); East North Central—Indiana, 1 (100-249); Illinois, 2 (100-249); Michigan, 1 (1-19); West North Central—Minnesota, 1 (1-19); Kansas, 1 (100-249); South Atlantic—Virginia, 1 (1-19); West Virginia, 1 (250-499); North Carolina, 1 (100-249); South Carolina, 1 (1-19); Georgia, 1 (1-19); East South Central—Kentucky, 2 (100-249); Tennessee, 2 (20-99); Alabama, 1 (250-499); Mississippi, 3 (250-499); West South Central—Arkansas, 1 (100-249); Mountain—Colorado, 1 (1-19); Arizona, 2 (1-19); Utah, 1 (1-19); Pacific—Oregon, 1 (1-19).

SIC 3255, Clay Refractories: New England—Massachusetts, 1 (20-99); Connecticut, 1 (1-19); Middle Atlantic—New Jersey, 4 (100-249); East North Central—Indiana, 1 (20-99); Illinois, 5 (100-249); Michigan, 2 (1-19); Wisconsin, 1 (1-19); Missouri, 13 (2,500-4,999); South Atlantic—Delaware, 1 (1-19); West Virginia, 3 (250-499); Georgia, 3 (639); Florida, 2 (1-19); Mountain—Idaho, 1 (1-19); Colorado, 2 (100-249); Utah, 1 (1-19); Pacific—Washington, 2 (20-99).

SIC 3259, Structural Clay Products, N.E.C.: Middle Atlantic—New Jersey, 4 (327); Pennsylvania, 11 (750); East North Central—Indiana, 10 (1,000-2,499); Wisconsin, 2 (1-19); West North Central—Minnesota, 1 (20-99); Iowa, 10 (650); Missouri, 3 (250-499); North Dakota, 1 (20-99); Kansas, 1 (250-499); South Atlantic—District of Columbia, 1 (1-19); Virginia, 1 (20-99); North Carolina, 3 (250-499); South Carolina, 1 (100-249); Georgia, 2 (500-999); Florida, 6 (164); East South Central—Kentucky, 2 (250-499); Alabama, 1 (20-99); Mississippi, 1 (100-249); West South Central—Texas, 5 (500-999); Mountain—Wyoming, 1 (20-99); Colorado, 1 (1-19); Arizona, 3 (20-99); Pacific—Oregon, 7 (20-99).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.

TABLE 3. Detailed Statistics: 1963

| Item   | Cement, hydraulic (SIC 3241) |   |  | Brick and structural tile (SIC 3251) |   |  | Ceramic wall and floor tile (SIC 3253) all establishments |
|--|------------------------------|---|--|--------------------------------------|---|--|---|
|  | Total                        | Subindustry   |  | Total                                | Subindustry   |  |   |
|  |                              | Establishments with mining or quarrying activity <sup>1</sup> | Establishments without mining or quarrying activity <sup>1</sup> |                                      | Establishments with mining or quarrying activity <sup>1</sup> | Establishments without mining or quarrying activity <sup>1</sup> |   |
| Primary product specialization ratio <sup>2</sup> .....        | .99                          | (NA)  | (NA)   | .98                                  | (NA)  | (NA)   | .95   |
| Coverage ratio <sup>3</sup> .....                              | 1.00                         | (NA)  | (NA)   | .98                                  | (NA)  | (NA)   | .99   |
| Establishments, total.....number..                             | 188                          | 149   | 39   | 512                                  | 315   | 197  | 90  |
| With 1 to 19 employees.....do....                              | 9                            | -   | 9  | 112                                  | 16  | 96   | 26  |
| With 20 to 99 employees.....do....                             | 30                           | 19  | 11   | 342                                  | 256   | 86   | 24  |
| With 100 employees or more.....do...                           | 149                          | 130   | 19   | 58                                   | 43  | 15   | 40  |
| Proprietors and working partners.....do....                    | 1                            | (NA)  | (NA)   | 107                                  | (NA)  | (NA)   | 20  |
| All employees (average for the year).....do....                | 34,863                       | 30,134  | 4,729  | 28,620                               | 21,767  | 6,853  | 12,795  |
| Payroll (all employees), total for year.....\$1,000..          | 227,385                      | 195,931   | 31,454   | 130,378                              | 100,400   | 29,978   | 63,745  |
| Production workers:  |                              |   |  |                                      |   |  |   |
| Average for the year.....number..                              | 28,719                       | 24,902  | 3,817  | 24,675                               | 18,821  | 5,844  | 10,409  |
| March.....do....   | 26,649                       | 23,145  | 3,504  | 22,157                               | 17,247  | 4,910  | 10,221  |
| May.....do....   | 29,663                       | 25,657  | 4,006  | 25,333                               | 19,336  | 5,997  | 10,443  |
| August.....do....  | 30,510                       | 26,562  | 3,948  | 26,308                               | 19,843  | 6,465  | 10,616  |
| November.....do....  | 27,997                       | 24,192  | 3,805  | 24,866                               | 18,851  | 6,015  | 10,372  |
| Man-hours.....1,000..  | 57,579                       | 49,932  | 7,647  | 51,237                               | 39,100  | 12,137   | 21,002  |
| January-March.....do....                                       | 12,833                       | 11,265  | 1,568  | 10,980                               | 8,531   | 2,449  | 5,159   |
| April-June.....do....  | 15,046                       | 12,983  | 2,063  | 13,214                               | 10,057  | 3,157  | 5,466   |
| July-September.....do....                                      | 15,315                       | 13,222  | 2,093  | 14,011                               | 10,585  | 3,426  | 5,277   |
| October-December.....do....                                    | 14,385                       | 12,462  | 1,923  | 13,032                               | 9,927   | 3,105  | 5,100   |
| Wages.....\$1,000..  | 173,891                      | 150,474   | 23,417   | 102,597                              | 79,136  | 23,461   | 43,794  |
| Cost of materials, etc., total.....do....                      | 388,747                      | 318,399   | 70,348   | 106,012                              | 76,320  | 29,692   | 55,083  |
| Materials, parts, containers, and supplies consumed.....do.... | 195,819                      | 150,824   | 44,995   | 50,040                               | 33,937  | 16,103   | 39,351  |
| Cost of resales.....do....                                     | 6,993                        | 5,684   | 1,309  | 10,807                               | 7,414   | 3,393  | 10,331  |
| Fuels consumed.....do....                                      | 123,611                      | 108,414   | 15,197   | 34,717                               | 26,963  | 7,754  | 3,801   |
| Electric energy:   |                              |   |  |                                      |   |  |   |
| Purchased:   |                              |   |  |                                      |   |  |   |
| Quantity.....million kw.-hrs..                                 | 6,520                        | 5,663   | 857  | 582                                  | 457   | 125  | 113   |
| Cost.....\$1,000..   | 59,533                       | 51,221  | 8,312  | 8,307                                | 6,499   | 1,808  | 1,524   |
| Generated less sold.....million kw.-hrs..                      | 1,445                        | 1,287   | 158  | 7                                    | (D)   | (D)  | (D)   |
| Contract work.....\$1,000..                                    | 2,791                        | 2,256   | 535  | 2,138                                | 1,507   | 631  | 76  |
| Value of shipments (including resales), total.....do....       | 1,176,913                    | 1,009,795   | 167,118  | 325,093                              | 245,182   | 79,911   | 164,668   |
| Value of resales.....do....                                    | 8,285                        | 6,406   | 1,879  | 13,096                               | 8,747   | 4,349  | 14,503  |
| Value added by manufacture, adjusted.....do....                | 785,681                      | 690,307   | 95,374   | 216,548                              | 166,471   | 50,077   | 110,571   |
| Manufacturers' inventories:                                    |                              |   |  |                                      |   |  |   |
| Beginning of year, total.....do....                            | 181,942                      | 143,735   | 38,207   | 49,812                               | 37,708  | 12,104   | 31,881  |
| Finished products.....do....                                   | 72,135                       | 57,782  | 14,353   | 40,547                               | 30,859  | 9,688  | 21,429  |
| Work-in-process.....do....                                     | 25,167                       | 19,722  | 5,445  | 3,437                                | 2,423   | 1,014  | 3,842   |
| Materials, supplies, fuel, etc.....do....                      | 84,640                       | 66,231  | 18,409   | 5,828                                | 4,426   | 1,402  | 6,610   |
| End of year, total.....do....                                  | 180,625                      | 143,887   | 36,738   | 48,007                               | 36,009  | 11,998   | 33,250  |
| Finished products.....do....                                   | 69,648                       | 55,760  | 13,888   | 37,948                               | 28,319  | 9,629  | 22,449  |
| Work-in-process.....do....                                     | 25,169                       | 20,655  | 4,514  | 3,503                                | 2,572   | 931  | 3,808   |
| Materials, supplies, fuel, etc.....do....                      | 85,808                       | 67,472  | 18,336   | 6,556                                | 5,118   | 1,438  | 6,993   |
| Expenditures for plant and equipment, total.....do....         | 121,369                      | 95,795  | 25,574   | 19,933                               | 14,641  | 5,292  | 9,182   |
| New, total.....do....  | 120,843                      | 95,571  | 25,272   | 19,344                               | 14,214  | 5,130  | 9,070   |
| New structures and additions to plant.....do....               | 36,192                       | 26,072  | 10,120   | 6,434                                | 4,379   | 2,055  | 3,343   |
| New machinery and equipment.....do....                         | 84,651                       | 69,499  | 15,152   | 12,910                               | 9,835   | 3,075  | 5,722   |
| Used plant and equipment.....do....                            | 526                          | 224   | 302  | 589                                  | 427   | 162  | 112   |
| Selected operating ratios:                                     |                              |   |  |                                      |   |  |   |
| Payroll/Total employment.....                                  | 6,522                        | 6,502   | 6,651  | 4,510                                | 4,552   | 4,374  | 4,982   |
| Production workers/Total employment.....                       | .82                          | .83   | .81  | .86                                  | .87   | .85  | .81   |
| Man-hours/Production workers.....                              | 2,005                        | 2,005   | 2,002  | 2,055                                | 2,049   | 2,077  | 2,018   |
| Production worker wages/Man-hours.....                         | 3.02                         | 3.01  | 3.06   | 2.00                                 | 2.02  | 1.93   | 2.09  |
| Cost of materials and payrolls/Total value of shipments.....   | .52                          | .50   | .61  | .73                                  | .72   | .75  | .72   |
| Cost of materials/Total value of shipments.....                | .33                          | .32   | .42  | .33                                  | .31   | .37  | .33   |
| Adjusted value added/Total employment.....                     | 22,536                       | 22,908  | 20,168   | 7,514                                | 7,578   | 7,307  | 8,642   |
| Salaries and wages/Adjusted value added.....                   | .28                          | .36   | .33  | .60                                  | .60   | .60  | .58   |

See footnotes at end of table.



TABLE 3. Detailed Statistics: 1963—Continued

| Item   | Clay refractories (SIC 3255) |   |  | Structural clay products, n.e.c. (SIC 3259) |   |  |
|--|------------------------------|---|--|---|---|--|
|  | Total                        | Subindustry   |  | Total                                       | Subindustry   |  |
|  |                              | Establishments with mining or quarrying activity <sup>1</sup> | Establishments without mining or quarrying activity <sup>1</sup> |   | Establishments with mining or quarrying activity <sup>1</sup> | Establishments without mining or quarrying activity <sup>1</sup> |
| Primary product specialization ratio <sup>2</sup> .....        | .91                          | (NA)  | (NA)   | .89   | (NA)  | (NA)   |
| Coverage ratio <sup>3</sup> .....                              | .93                          | (NA)  | (NA)   | .95   | (NA)  | (NA)   |
| Establishments, total.....number..                             | 150                          | (NA)  | (NA)   | 164   | 76  | 88   |
| With 1 to 19 employees.....do....                              | 41                           | 1   | 40   | 56  | 3   | 48   |
| With 20 to 99 employees.....do....                             | 70                           | 11  | 59   | 60  | 40  | 20   |
| With 100 employees or more.....do....                          | 39                           | 9   | 30   | 48  | 28  | 20   |
| Proprietors and working partners.....do....                    | 14                           | (NA)  | (NA)   | 47  | (NA)  | (NA)   |
| All employees (average for the year).....do....                | 11,431                       | 2,535   | 8,896  | 12,188                                      | 7,519   | 4,669  |
| Payroll (all employees), total for year.....\$1,000..          | 64,822                       | 15,208  | 49,614   | 61,977                                      | 38,121  | 23,856   |
| Production workers:  |                              |   |  |   |   |  |
| Average for the year.....number..                              | 9,402                        | 2,101   | 7,301  | 10,364                                      | 6,304   | 4,060  |
| March.....do....   | 9,155                        | 2,046   | 7,109  | 8,941                                       | 5,612   | 3,329  |
| May.....do....   | 9,538                        | 2,142   | 7,396  | 10,548                                      | 6,485   | 4,063  |
| August.....do....  | 9,590                        | 2,157   | 7,433  | 11,091                                      | 6,678   | 4,413  |
| November.....do....  | 9,304                        | 2,058   | 7,246  | 10,879                                      | 6,442   | 4,437  |
| Man-hours.....1,000..  | 18,139                       | 4,135   | 14,004   | 21,142                                      | 13,055  | 8,087  |
| January-March.....do....                                       | 4,345                        | 999   | 3,346  | 4,367                                       | 2,780   | 1,587  |
| April-June.....do....  | 4,657                        | 1,083   | 3,574  | 5,433                                       | 3,352   | 2,081  |
| July-September.....do....                                      | 4,566                        | 1,048   | 3,518  | 5,810                                       | 3,559   | 2,251  |
| October-December.....do....                                    | 4,571                        | 1,005   | 3,566  | 5,532                                       | 3,364   | 2,168  |
| Wages.....\$1,000..  | 49,648                       | 11,699  | 37,949   | 48,727                                      | 29,419  | 19,308   |
| Cost of materials, etc., total.....do....                      | 74,476                       | 16,623  | 57,853   | 53,382                                      | 30,492  | 22,890   |
| Materials, parts, containers, and supplies consumed.....do.... | 54,210                       | 10,974  | 43,236   | 30,399                                      | 16,238  | 14,161   |
| Cost of resales.....do....                                     | 5,322                        | 1,278   | 4,044  | 5,527                                       | 3,412   | 2,115  |
| Fuels consumed.....do....                                      | 11,644                       | 3,311   | 8,333  | 13,973                                      | 8,617   | 5,356  |
| Electric energy:   |                              |   |  |   |   |  |
| Purchased:   |                              |   |  |   |   |  |
| Quantity.....million kw.-hrs..                                 | 216                          | 54  | 161  | 170   | 108   | 62   |
| Cost.....\$1,000..   | 2,992                        | 763   | 2,229  | 2,532                                       | 1,633   | 899  |
| Generated less sold.....million kw.-hrs..                      | (D)                          | -   | (D)  | (D)   | (D)   | -  |
| Contract work.....\$1,000..                                    | 308                          | 297   | 11   | 947   | 592   | 355  |
| Value of shipments (including resales), total.....do....       | 192,230                      | 45,498  | 146,732  | 159,724                                     | 96,849  | 62,875   |
| Value of resales.....do....                                    | 7,055                        | 1,438   | 5,617  | 6,364                                       | 3,737   | 2,627  |
| Value added by manufacture, adjusted.....do....                | 118,248                      | 29,349  | 88,899   | 108,442                                     | 67,413  | 41,029   |
| Manufacturers' inventories:                                    |                              |   |  |   |   |  |
| Beginning of year, total.....do....                            | 53,941                       | 13,895  | 40,046   | 25,119                                      | 15,076  | 10,043   |
| Finished products.....do....                                   | 29,487                       | 7,693   | 21,794   | 19,141                                      | 11,490  | 7,651  |
| Work-in-process.....do....                                     | 2,901                        | 746   | 2,155  | 2,196                                       | 1,175   | 1,021  |
| Materials, supplies, fuel, etc.....do....                      | 21,553                       | 5,456   | 16,097   | 3,782                                       | 2,411   | 1,371  |
| End of year, total.....do....                                  | 54,001                       | 14,125  | 39,876   | 27,449                                      | 16,124  | 11,325   |
| Finished products.....do....                                   | 30,322                       | 8,103   | 22,219   | 21,223                                      | 12,527  | 8,696  |
| Work-in-process.....do....                                     | 2,560                        | 810   | 1,750  | 2,214                                       | 1,194   | 1,020  |
| Materials, supplies, fuel, etc.....do....                      | 21,119                       | 5,212   | 15,907   | 4,012                                       | 2,403   | 1,609  |
| Expenditures for plant and equipment, total.....do....         | 8,383                        | 1,865   | 6,518  | 6,047                                       | 3,315   | 2,732  |
| New, total.....do....  | 7,936                        | 1,652   | 6,284  | 5,842                                       | 3,197   | 2,645  |
| New structures and additions to plant.....do....               | 1,521                        | 353   | 1,168  | 1,930                                       | 1,086   | 844  |
| New machinery and equipment.....do....                         | 6,415                        | 1,299   | 5,116  | 3,912                                       | 2,111   | 1,801  |
| Used plant and equipment.....do....                            | 447                          | 213   | 234  | 205   | 118   | 87   |
| Selected operating ratios:                                     |                              |   |  |   |   |  |
| Payroll/Total employment.....                                  | 5,669                        | 5,999   | 5,574  | 5,085                                       | 5,070   | 5,109  |
| Production workers/Total employment.....                       | .82                          | .83   | .82  | .85   | .84   | .87  |
| Man-hours/Production workers.....                              | 1,928                        | 1,968   | 1,916  | 2,040                                       | 2,071   | 1,992  |
| Production worker wages/Man-hours.....                         | 2.74                         | 2.83  | 2.71   | 2.30  | 2.25  | 2.39   |
| Cost of materials and payrolls/Total value of shipments....    | .72                          | .70   | .73  | .72   | .71   | .74  |
| Cost of materials/Total value of shipments.....                | .39                          | .37   | .39  | .33   | .32   | .36  |
| Adjusted value added/Total employment.....                     | 10,387                       | 1,578   | 10,042   | 8,897                                       | 8,966   | 8,788  |
| Salaries and wages/Adjusted value added.....                   | .55                          | .52   | .56  | .57   | .56   | .58  |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>Separate detailed data are not available for "small" establishments that operated mines (including clay pits) or quarries in conjunction with manufacturing operations but reported on "short forms." These establishments are included with "Establishments Without Mining or Quarrying Activity."

<sup>2</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>3</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3241.—CEMENT, HYDRAULIC                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 188                   | 5                                  | 2                | 2                  | 7                  | 23                 | 112                  | 31                   | 6                    | -                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 34,863                | <u>50</u>                          | (D)              | (D)                | 258                | 1,874              | 18,902               | 9,946                | 3,833                | -                        | -                        |
| Payroll.....\$1,000..                           | 227,385               | <u>323</u>                         | (D)              | (D)                | 2,042              | 12,370             | 121,807              | 64,859               | 25,984               | -                        | -                        |
| Value added, adjusted.....do....                | 785,681               | <u>2,116</u>                       | (D)              | (D)                | 7,123              | 50,116             | 436,658              | 209,738              | 79,930               | -                        | -                        |
| Value of shipments.....do....                   | 1,176,913             | <u>4,374</u>                       | (D)              | (D)                | 10,302             | 81,238             | 649,261              | 311,300              | 120,438              | -                        | -                        |
| Capital expenditures, new...do....              | 120,843               | <u>110,890</u>                     | (D)              | (D)                | 31,941             | 12,812             | 37,421               | <u>27,779</u>        | (D)                  | -                        | -                        |
| INDUSTRY 3251.—BRICK AND STRUCTURAL TILE        |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 512                   | 42                                 | 27               | 43                 | 179                | 163                | 50                   | 7                    | 1                    | -                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 28,620                | 70                                 | 186              | 607                | 6,234              | 11,205             | 7,412                | 2,906                | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                           | 130,378               | 324                                | 644              | 2,408              | 27,858             | 50,777             | 35,103               | <u>13,264</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....                | 216,548               | 699                                | 1,542            | 3,168              | 46,467             | 86,000             | 58,180               | <u>20,492</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....                   | 325,093               | <u>1,217</u>                       | 2,243            | 5,036              | 71,976             | 128,473            | 87,578               | <u>28,570</u>        | (D)                  | -                        | -                        |
| Capital expenditures, new...do....              | 19,344                | <u>2,063</u>                       | (D)              | (D)                | 4,935              | 7,023              | 3,742                | <u>1,581</u>         | (D)                  | -                        | -                        |
| INDUSTRY 3253.—CERAMIC WALL AND FLOOR TILE      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 90                    | 17                                 | 2                | 7                  | 15                 | 9                  | 27                   | 8                    | 4                    | 1                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 12,795                | <u>33</u>                          | (D)              | 90                 | 526                | 665                | 4,591                | 2,639                | 4,251                | (D)                      | -                        |
| Payroll.....\$1,000..                           | 63,745                | <u>125</u>                         | (D)              | 342                | 2,032              | 2,657              | 20,812               | 12,253               | <u>25,524</u>        | (D)                      | -                        |
| Value added, adjusted.....do....                | 110,571               | <u>165</u>                         | (D)              | 578                | 3,164              | 4,090              | 36,938               | 23,262               | <u>42,374</u>        | (D)                      | -                        |
| Value of shipments.....do....                   | 164,668               | <u>238</u>                         | (D)              | 1,137              | 4,802              | 7,226              | 58,044               | 36,094               | <u>57,127</u>        | (D)                      | -                        |
| Capital expenditures, new...do....              | 9,070                 | <u>3,440</u>                       | (D)              | (D)                | (D)                | (D)                | 1,625                | 1,240                | <u>1,765</u>         | (D)                      | -                        |
| INDUSTRY 3255.—CLAY REFRACTORIES                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 150                   | 22                                 | 8                | 11                 | 40                 | 30                 | 35                   | 1                    | 2                    | 1                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 11,431                | 34                                 | 60               | 147                | 1,309              | 2,206              | 5,435                | (D)                  | 2,240                | (D)                      | -                        |
| Payroll.....\$1,000..                           | 64,822                | 288                                | 313              | 731                | 6,630              | 12,327             | <u>31,321</u>        | (D)                  | <u>13,212</u>        | (D)                      | -                        |
| Value added, adjusted.....do....                | 118,248               | 246                                | 642              | 1,829              | 15,312             | 21,199             | <u>55,538</u>        | (D)                  | <u>23,482</u>        | (D)                      | -                        |
| Value of shipments.....do....                   | 192,230               | 1,065                              | 1,342            | 3,446              | 25,690             | 32,059             | <u>90,448</u>        | (D)                  | <u>38,180</u>        | (D)                      | -                        |
| Capital expenditures, new...do....              | 7,936                 | 78                                 | 37               | 1,511              | 806                | 1,511              | <u>2,341</u>         | (D)                  | <u>1,452</u>         | (D)                      | -                        |
| INDUSTRY 3259.—STRUCTURAL CLAY PRODUCTS, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 164                   | 29                                 | 10               | 17                 | 36                 | 24                 | 41                   | 6                    | 1                    | -                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 12,188                | 45                                 | 67               | 243                | 1,187              | 1,684              | 6,403                | 2,559                | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                           | 61,977                | 241                                | 309              | 1,062              | 6,012              | 8,554              | 32,450               | <u>13,349</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....                | 108,442               | 355                                | 676              | 1,609              | 10,141             | 11,508             | 58,314               | <u>25,839</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....                   | 159,724               | 637                                | 1,066            | 2,422              | 13,940             | 18,499             | 85,663               | <u>37,497</u>        | (D)                  | -                        | -                        |
| Capital expenditures, new...do....              | 5,842                 | 46                                 | 63               | 102                | 604                | 587                | 2,873                | <u>1,567</u>         | (D)                  | -                        | -                        |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

<sup>1</sup>Includes capital expenditures of over \$10 million for plants under construction but not in operation.

<sup>2</sup>Includes capital expenditures between \$1 million and \$2 million for plants under construction but not in operation.

<sup>3</sup>Includes capital expenditures between \$2 million and \$5 million for plants under construction but not in operation.



**TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958**

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|---|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |   | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |   | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |   | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3241      | Cement, hydraulic.....1963..            | 1,176,913          | 1,158,276        | 9,708              | 8,929                  | 99                                   | 1,162,965                          | 1,158,276             | 4,689                    | 100                           |
|           | 1958..                                  | 1,073,494          | 1,059,967        | 8,118              | 5,409                  | 99                                   | 1,062,849                          | 1,059,967             | 2,882                    | 100                           |
| 3251      | Brick and structural tile.....1963..    | 325,093            | 303,108          | 6,857              | 15,128                 | 98                                   | 308,136                            | 303,108               | 5,028                    | 98                            |
|           | 1958..                                  | 286,709            | 264,627          | 10,213             | 11,869                 | 96                                   | 268,887                            | 264,627               | 4,260                    | 98                            |
| 3253      | Ceramic wall and floor tile ....1963..  | 164,668            | 142,726          | 7,430              | 14,512                 | 95                                   | 143,390                            | 142,726               | 664                      | 99                            |
|           | 1958..                                  | 135,470            | 122,723          | 7,928              | 4,819                  | 94                                   | 124,196                            | 122,723               | 1,473                    | 99                            |
| 3255      | Clay refractories.....1963..            | 192,230            | 168,133          | 16,429             | 7,668                  | 91                                   | 180,664                            | 168,133               | 12,531                   | 93                            |
|           | 1958..                                  | 163,478            | 145,617          | 11,200             | 6,661                  | 93                                   | 158,241                            | 145,617               | 12,624                   | 92                            |
| 3259      | Structural clay products, n.e.c..1963.. | 159,724            | 134,574          | 17,193             | 7,957                  | 89                                   | 141,400                            | 134,574               | 6,826                    | 95                            |
|           | 1958..                                  | 134,928            | 124,628          | 4,017              | 6,283                  | 97                                   | 132,325                            | 124,628               | 7,697                    | 94                            |

NOTE: See Introduction for an explanation of terms used.

n.e.c. Not elsewhere classified.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c)

miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code | Class of products and miscellaneous receipts         | All industries | Cement, hydraulic (SIC 3241)           | Other industries | Prod. class code | Class of products and miscellaneous receipts           | All industries | Ceramic wall and floor tile (SIC 3253)      | Other industries |
|------------------|--|----------------|--|------------------|------------------|--|----------------|---|------------------|
| 32410            | CEMENT, HYDRAULIC, INDUSTRY                          |                |  |                  |                  | CERAMIC FLOOR AND WALL TILE INDUSTRY—Con.              |                |   |                  |
|                  | Value of shipments.....                              | (X)            | 1,176,913                              | (X)              |                  | Secondary products.....                                | (X)            | 7,430                                       | (X)              |
|                  | Cement, hydraulic.....                               | 1,162,965      | 1,158,276                              | 14,689           |                  | Miscellaneous receipts.....                            | (X)            | 14,512                                      | (X)              |
|                  | Secondary products.....                              | (X)            | 9,708                                  | (X)              |                  | Value of products bought and resold.....               | (X)            | 14,428                                      | (X)              |
|                  | Miscellaneous receipts.....                          | (X)            | 8,929                                  | (X)              |                  | Other miscellaneous receipts.....                      | (X)            | 84  | (X)              |
|                  | Value of products bought and resold.....             | (X)            | 8,285                                  | (X)              |                  |  |                |   |                  |
|                  | Other miscellaneous receipts....                     | (X)            | 644                                    | (X)              |                  |  |                |   |                  |
|                  |  | All industries | Brick and structural tile (SIC 3251)   | Other industries |                  |  | All industries | Clay refractories (SIC 3255)                | Other industries |
|                  | BRICK AND STRUCTURAL CLAY TILE INDUSTRY              |                |  |                  | 32550            | CLAY REFRACTORIES INDUSTRY                             |                |   |                  |
|                  | Value of shipments.....                              | (X)            | 325,093                                | (X)              |                  | Value of shipments.....                                | (X)            | 192,230                                     | (X)              |
| 32511            | Primary products.....                                | 308,136        | 303,108                                | 5,028            | 32970            | Clay refractories.....                                 | 180,664        | 168,133                                     | 212,531          |
| 32512            | Brick, except ceramic glazed and refractory.....     | 263,584        | 259,945                                | 3,639            |                  | Secondary products.....                                | (X)            | 16,429                                      | (X)              |
| 32510            | Glazed brick and structural hollow tile.....         | 35,880         | (D)                                    | (D)              |                  | Nonclay refractories, except dead-burned magnesia..... | (X)            | 8,553                                       | (X)              |
|                  | Brick and structural clay tile, n.s.k.....           | 8,672          | (D)                                    | (D)              |                  | Other secondary products.....                          | (X)            | 37,894                                      | (X)              |
|                  | Secondary products.....                              | (X)            | 6,857                                  | (X)              |                  | Miscellaneous receipts.....                            | (X)            | 7,668                                       | (X)              |
| 3259-            | Structural clay products, n.e.c.                     | (X)            | 4,665                                  | (X)              |                  | Value of products bought and resold.....               | (X)            | 7,055                                       | (X)              |
|                  | Other secondary products.....                        | (X)            | 2,192                                  | (X)              |                  | Other miscellaneous receipts.....                      | (X)            | 613   | (X)              |
|                  | Miscellaneous receipts.....                          | (X)            | 15,128                                 | (X)              |                  |  | All industries | Structural clay products, n.e.c. (SIC 3259) | Other industries |
|                  | Value of products bought and resold.....             | (X)            | 13,096                                 | (X)              |                  | STRUCTURAL CLAY PRODUCTS, N.E.C., INDUSTRY             |                |   |                  |
|                  | Other miscellaneous receipts....                     | (X)            | 2,032                                  | (X)              |                  | Value of shipments.....                                | (X)            | 159,724                                     | (X)              |
|                  |  | All industries | Ceramic wall and floor tile (SIC 3253) | Other industries | 32591            | Primary products.....                                  | 141,400        | 134,574                                     | 46,826           |
|                  | CERAMIC WALL AND FLOOR TILE INDUSTRY                 |                |  |                  | 32592            | Clay sewer pipe and fittings.....                      | 98,223         | 95,268                                      | 2,955            |
| 32530            | Value of shipments.....                              | (X)            | 164,668                                | (X)              | 32590            | Structural clay products, n.e.c....                    | 39,907         | 36,036                                      | 3,871            |
|                  | Clay floor and wall tile, including quarry tile..... | 143,390        | 142,726                                | 664              |                  | Structural clay products, n.e.c., n.s.k.....           | 3,270          | 3,270                                       |                  |
|                  |  |                |  |                  |                  | Secondary products.....                                | (X)            | 517,193                                     | (X)              |
|                  |  |                |  |                  |                  | Miscellaneous receipts.....                            | (X)            | 7,957                                       | (X)              |
|                  |  |                |  |                  |                  | Value of products bought and resold.....               | (X)            | 6,364                                       | (X)              |
|                  |  |                |  |                  |                  | Other miscellaneous receipts.....                      | (X)            | 1,593                                       | (X)              |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Includes over \$2 million shipped by establishments classified in industry 2812, Alkalies and Chlorine. The exact amount is withheld to avoid disclosing figures of individual companies.

<sup>2</sup>Includes \$8 million shipped by establishments classified in industry 3297, Nonclay Refractories.

<sup>3</sup>Includes \$2 million in shipments of product class 32950, Minerals and earths, ground or otherwise treated.

<sup>4</sup>Includes \$5 million shipped by establishments classified in industry 3251, Brick and Structural Tile.

<sup>5</sup>Includes \$12 million in shipments of product class, 30796, Construction plastics products.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product  | Unit of measure          | 1963   |   |                  | 1958                                   |   |                 |
|--------------|--|--------------------------|--|---|------------------|--|---|-----------------|
|              |  |                          | Production for all purposes (quantity)         | Total shipments, including interplant transfers |                  | Production for all purposes (quantity) | Total shipments, including interplant transfers |                 |
|              |  |                          |  | Quantity  | Value (\$1,000)  |  | Quantity  | Value (\$1,000) |
| 3241- --     | CEMENT, HYDRAULIC, TOTAL.....  |                          | (X)  | (X)   | 1,162,965        | (X)                                    | (X)   | 1,062,849       |
| 32410 11     | Portland cement.....   | 1,000 bbls. of 376 lbs.. | 333,434  | 336,048   | 1,093,218        | 303,992                                | 304,704   | 979,084         |
| 32410 31     | Prepared or mixed hydraulic and masonry cements other than special portlands.....  | 1,000 bbls. of 280 lbs.. | (S)  | (S)   | 66,551           | 19,133                                 | 19,811  | 53,270          |
| 32410 51     | Natural, masonry-natural, pozzolan (slag lime), and hydraulic lime cements.....  | 1,000 bbls. of 376 lbs.. | 728  | 695   | 2,390            | 1,050                                  | 957   | 3,208           |
| 95120 31     | Cost of containers for above cements and mortars...  |                          | (X)  | (X)   | ( <sup>1</sup> ) | (X)                                    | (X)   | 24,236          |
| 32410 00     | Cement, hydraulic, n.s.k.....  |                          | (X)  | (X)   | 806              | (X)                                    | (X)   | 3,051           |
| 3251- --     | BRICK AND STRUCTURAL CLAY TILE, TOTAL.....   |                          | (X)  | (X)   | 308,136          | (X)                                    | (X)   | 268,887         |
| 32511 --     | Brick (except ceramic glazed and refractory brick), total.....   | 1,000 bricks.            | (X)  | (X)   | 263,584          | 6,401,464                              | 6,332,881                                       | 212,700         |
| 32511 11     | Building or common, and face (2-1/4" x 3-5/8" x 7-5/8" equivalent).....  | ...do.....               | 7,117,500                                      | 7,003,320                                       | 256,658          | 6,318,714                              | 6,254,990                                       | 209,356         |
| 32511 19     | Other brick (paving, floor, and sewer) 2-1/4" x 3-5/8" x 7-5/8" equivalent.....  | ...do.....               | 75,235   | 72,370  | 3,037            | 82,750                                 | 77,891  | 3,344           |
| 32511 00     | Brick (except ceramic glazed and refractory brick) n.s.k.....  |                          | (X)  | (X)   | 3,889            | -                                      | -   | -               |
| 32512 --     | Glazed brick and structural hollow tile, total.....  |                          | (X)  | (X)   | 35,880           | (X)                                    | (X)   | 43,241          |
| 32512 11     | Structural clay tile, except facing, including load-bearing and nonload-bearing tile, silo tile, corner tile, structural floor tile, etc.                      | Short tons...            | 324,293  | 319,681   | 5,239            | 570,973                                | 548,336   | 8,998           |
| 32512 31     | Facing tile (structural) and ceramic glazed brick: Ceramic glazed facing tile and ceramic glazed brick (2-1/4" x 3-5/8" x 7-5/8" equivalent)...                | 1,000 bricks.            | 378,442  | 358,123   | 28,987           | 425,902                                | 399,147   | 31,508          |
| 32512 51     | Unglazed and salt glazed facing tile (8" x 5" x 12" equivalent).....   | 1,000 tiles..            | 7,764  | 7,596   | 1,489            | 16,553                                 | 15,764  | 2,735           |
| 32512 00     | Glazed brick and structural hollow tile, n.s.k.....  |                          | (X)  | (X)   | 165              | -                                      | -   | -               |
| 32510 00     | Brick and structural clay tile, n.s.k.....   |                          | (X)  | (X)   | 8,672            | (X)                                    | (X)   | 12,946          |
| 3253- --     | CERAMIC WALL AND FLOOR TILE, TOTAL.....  |                          | (X)  | (X)   | 143,390          | (X)                                    | (X)   | 124,196         |
| 32530 71     | Quarry tile and promenade tile.....  | 1,000 sq. ft.            | 25,150   | 23,846  | 9,648            | 20,598                                 | 18,569  | 6,579           |
| 32530 13     | Ceramic mosaic tile (tiles having a facial area of less than 6 square inches): Glazed.....   | ...do.....               | 4,288  | 4,074   | 2,899            | 207,312                                | 198,079   | 113,645         |
| 32530 53     | Unglazed.....  | ...do.....               | 35,635   | 35,396  | 18,681           |  |   |                 |
| 32530 15     | Other glazed floor and wall tile.....  | ...do.....               | 221,304  | 214,628   | 110,804          | (X)                                    | (X)   | 3,972           |
| 32530 55     | Other unglazed floor and wall tile.....  | ...do.....               | (X)  | (X)   | 1,358            |  |   |                 |
| 32530 00     | Ceramic wall and floor tile, n.s.k.....  | ...do.....               |  |   |                  |  |   |                 |
|              |  |                          | Total shipments including interplant transfers |   |                  |  |   |                 |
|              |  |                          | 1963   |   | 1958             |  |   |                 |
|              |  |                          | Quantity                                       | Value (\$1,000)                                 | Quantity         | Value (\$1,000)                        |   |                 |
| 3255 --      | CLAY REFRACTORIES, TOTAL:  |                          | (X)  | 180,664   | (X)              | 158,241                                |   |                 |
| 3255 --      | As reported in the 1963 Census of Manufactures   |                          | (X)  | 176,280   |                  |  |   |                 |
| 3255011      | As reported on census quarterly form M32C....  |                          |  |   |                  |  |   |                 |
| 3255011      | Fireclay brick and shapes, except superduty.....   | 1,000 9"equiv.           | 286,490  | 44,161  | 320,034          | 56,526                                 |   |                 |
| 3255015      | Superduty fireclay brick and shapes.....   | ...do.....               | 67,497   | 19,185  | 60,163           | 15,375                                 |   |                 |
| 3255021      | High alumina brick and shapes (50% Al <sub>2</sub> O <sub>3</sub> and over) made substantially of calcined diaspore or bauxite <sup>2</sup> <sup>3</sup> ..... | ...do.....               | 32,596   | 15,373  | 17,395           | 7,464                                  |   |                 |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure | Total shipments including interplant transfers |   |                 |  |   |                 |
|--------------|--|-----------------|--|---|-----------------|--|---|-----------------|
|              |  |                 | 1963   |   | 1958            |  |   |                 |
|              |  |                 | Quantity                                       | Value (\$1,000)                                 | Quantity        | Value (\$1,000)                          |   |                 |
| 3255- --     | CLAY REFRACTORIES—Continued  |                 |  |   |                 |  |   |                 |
|              | Insulating fire brick and shapes: <sup>4</sup>   |                 |  |   |                 |  |   |                 |
| 3255026      | 1,600°F to 2,000°F (but not including 2,000°F)...  | 1,000 9"equiv.  | 5,742  | 1,217   | 38,600          | 9,386                                    |   |                 |
| 3255027      | 2,000°F to 2,300°F (but not including 2,300°F)...  | ...do.....      | 12,037   | 2,316   |                 |  |   |                 |
| 3255028      | 2,300°F and higher.....  | ...do.....      | 26,523   | 7,804   |                 |  |   |                 |
| 3255031      | Ladle brick.....   | ...do.....      | 184,961  | 20,705  | 167,654         | 17,024                                   |   |                 |
| 3255041      | Sleeves, nozzles, runnerbrick and tuyeres.....   | ...do.....      | 42,457   | 9,361   | 34,930          | 7,448                                    |   |                 |
| 3255045      | Glass-house pots, tank blocks, feeder parts, and upper structural shapes used only for glass tanks <sup>2 3</sup>  | Short tons...   | 13,516   | 4,391   | 14,534          | 3,598                                    |   |                 |
| 3255047      | Hot top refractories.....  | ...do.....      | 61,621   | 4,429   | (NA)            | 3,975                                    |   |                 |
| 3255049      | Clay kiln furniture, radiant heater elements, potters' supplies, and other miscellaneous shaped refractory items.....  | ...do.....      | (NA)   | 7,210   | (X)             | 4,808                                    |   |                 |
| 3255053      | Refractory bonding mortars, air setting (wet and dry types) <sup>5</sup>   | ...do.....      | 53,503   | 6,515   | 73,571          | 6,864                                    |   |                 |
| 3255057      | Refractory bonding mortars, except air setting types <sup>5</sup>  | ...do.....      | 9,488  | 956   | 6,499           | 678                                      |   |                 |
| 3255061      | Plastic refractories and ramming mixes <sup>3 6</sup>  | ...do.....      | 165,668  | 13,638  | 104,189         | 9,030                                    |   |                 |
| 3255065      | Castable refractories (hydraulic setting).....   | ...do.....      | 120,971  | 12,075  | 91,812          | 9,077                                    |   |                 |
| 3255069      | Insulating castable refractories (hydraulic setting)   | ...do.....      | 18,310   | 2,338   | 19,746          | 2,380                                    |   |                 |
| 3255094      | Other clay refractory materials sold in lump or ground form <sup>7</sup>   | ...do.....      | 204,299  | 4,606   | 211,856         | 4,608                                    |   |                 |
| Product code | Product  |                 | 1963   |   | 1958            |  |   |                 |
|              |  |                 | Production for all purposes (short tons)       | Total shipments, including interplant transfers |                 | Production for all purposes (short tons) | Total shipments, including interplant transfers |                 |
|              |  |                 |  | Quantity (short tons)                           | Value (\$1,000) |  | Quantity (short tons)                           | Value (\$1,000) |
| 3259- --     | STRUCTURAL CLAY PRODUCTS, N.E.C., TOTAL.....   |                 | (X)  | (X)   | 141,400         | (X)                                      | (X)   | 132,325         |
| 32591 11     | Vitrified clay sewer pipe and fittings.....  | 1,827,316       | 1,726,556                                      | 98,223  | 1,734,006       | 1,723,503                                | 86,912  |                 |
| 32592 --     | Other structural clay products, n.e.c., total.....   |                 | (X)  | (X)   | 39,907          | (X)                                      | (X)   | 41,987          |
| 32592 11     | Drain tile.....  | 859,811         | 822,189  | 19,748  | 883,173         | 874,985                                  | 18,563  |                 |
| 32592 51     | Flue lining.....   | 182,703         | 176,671  | 7,637   | 214,657         | 213,735                                  | 8,680   |                 |
| 32592 98     | Other structural clay products (such as terra cotta (architectural), roofing tile, conduit, chimney pipe, tops and thimbles, wall coping, adobe brick etc.)..... |                 | (X)  | (X)   | 11,786          | (X)                                      | (X)   | 14,744          |
| 32592 00     | Other structural clay products, n.e.c.....   |                 | (X)  | (X)   | 736             | (X)                                      | (X)   | (X)             |
| 32590 00     | Structural clay products, n.e.c.....   |                 | (X)  | (X)   | 3,270           | (X)                                      | (X)   | 3,426           |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Does not meet publication standards.

n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>For 1963 included in values of products shipped.

<sup>2</sup>"Calcined" as applied to diasporic and bauxite implies heat treatment short of fusion for volume stability prior to use in a refractory product. In the process, volatile materials are driven off and chemical changes take place.

<sup>3</sup>Excludes data for mullite and extra-high alumina refractories. These products are included with mullite and extra-high alumina brick and shapes in Industry 3297, Nonclay Refractories.

<sup>4</sup>The subdivisions are in accordance with the ASTM Classification C155, the respective groups being 16, 20, and 23 and higher.

<sup>5</sup>Includes bonding mortars which contain up to 60% Al<sub>2</sub>O<sub>3</sub>, dry basis. Bonding mortars which contain more than 60% Al<sub>2</sub>O<sub>3</sub>, dry basis are included in Industry 3297, Nonclay Refractories.

<sup>6</sup>Includes products referred to as plastic fire brick and the less plastic materials intended for ramming into place after the addition of water (when shipped in dry form). Excludes mixes made of mullite or extra-high alumina. Mixes made of these products are included in Industry 3297, Nonclay Refractories.

<sup>7</sup>Represents shipments for direct use as finished refractory products by establishments classified in "manufacturing" industries, and excludes shipments to refractory producers for processing in the manufacture of brick and other refractories. Includes data for calcined clay, ground brick, and siliceous and other gunning mixes.



TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year  | Indexes (1954 = 100) |            |
|--------------|---|----------------------|------------|
|              |   | Production           | Unit value |
| 3241         | Cement, hydraulic.....1963..                                  | 125                  | 117        |
|              | .....1958..   | 113                  | 116        |
| 325          | Structural clay products.....1963..                           | 114                  | 117        |
|              | .....1958..   | 101                  | 118        |
| 3251         | Brick and structural clay tile.....1963..                     | 102                  | 125        |
|              | .....1958..   | 96                   | 115        |
| 32511        | Brick (except ceramic glazed and refractory brick).....1963.. | 106                  | 125        |
|              | .....1958..   | 95                   | 115        |
| 32512        | Glazed brick and structural hollow tile.....1963..            | 71                   | 119        |
|              | .....1958..   | 86                   | 118        |
| 3253         | Ceramic wall and floor tile.....1963..                        | 157                  | 98         |
|              | .....1958..   | 127                  | 106        |
| 3255         | Clay refractories.....1963..                                  | 123                  | 128        |
|              | .....1958..   | 94                   | 131        |
| 3259         | Structural clay products, n.e.c.....1963..                    | 101                  | 130        |
|              | .....1958..   | 100                  | 120        |
| 32591        | Vitrified clay sewer pipe and fittings.....1963..             | 106                  | 128        |
|              | .....1958..   | 101                  | 121        |
| 32592        | Other structural clay products, n.e.c.....1963..              | 91                   | 140        |
|              | .....1958..   | 97                   | 117        |

n.e.c. Not elsewhere classified.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class  | 1963      | 1962 <sup>1</sup>    | 1961 <sup>1</sup>    | 1960 <sup>1</sup>    | 1959 <sup>1</sup>    | 1958      | 1954    | 1947    |
|-------|--|-----------|----------------------|----------------------|----------------------|----------------------|-----------|---------|---------|
| 32410 | Cement, hydraulic.....   | 1,162,965 | 1,103,361            | 1,081,709            | 1,072,278            | 1,162,724            | 1,062,849 | 807,338 | 406,916 |
| 32511 | Brick and structural clay tile.....                                | 308,136   | <sup>2</sup> 296,364 | <sup>2</sup> 276,933 | <sup>2</sup> 278,517 | <sup>2</sup> 294,423 | 268,887   | 242,918 | -       |
| 32511 | Brick, except ceramic glazed and refractory brick.....             | 263,584   | <sup>2</sup> 246,457 | <sup>2</sup> 225,285 | <sup>2</sup> 223,546 | <sup>2</sup> 241,385 | 212,700   | 196,107 | -       |
| 32512 | Glazed brick and structural hollow tile....                        | 35,880    | 36,803               | 38,579               | 39,505               | 40,080               | 43,241    | 42,508  | -       |
| 32510 | Brick and structural clay tile, n.s.k.....                         | 8,672     | (S)                  | (S)                  | (S)                  | (S)                  | 12,946    | 4,303   | -       |
| 32530 | Clay floor and wall tile, including quarry tile <sup>3</sup> ..... | 143,390   | 157,330              | 142,706              | 140,895              | 149,345              | 124,196   | 92,758  | 43,650  |
| 32550 | Clay refractories.....   | 180,664   | 162,550              | 162,525              | 174,065              | 173,794              | 158,241   | 129,086 | 107,578 |
| 3259- | Structural clay products, n.e.c.....                               | 141,400   | <sup>2</sup> 137,501 | <sup>2</sup> 138,302 | <sup>2</sup> 140,985 | <sup>2</sup> 145,343 | 132,325   | 110,637 | 75,136  |
| 32591 | Clay sewer pipe and fittings.....                                  | 98,223    | <sup>2</sup> 88,620  | <sup>2</sup> 89,640  | <sup>2</sup> 94,780  | <sup>2</sup> 98,319  | 86,912    | 70,878  | 42,984  |
| 32592 | Structural clay products, n.e.c.....                               | 39,907    | 48,881               | 48,662               | 46,205               | 47,024               | 45,413    | 39,759  | 32,152  |
| 32590 | Structural clay products, n.e.c., n.s.k....                        | 3,270     | -                    | -                    | -                    | -                    | -         | -       | -       |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>The figures for 1959-1962 represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would be obtained from a complete canvass of all manufacturing establishments.

<sup>2</sup>Source: Current Industrial Reports Series M32D, Clay Construction Products.

<sup>3</sup>It appears the estimates derived for 1959-1962 are overstated between 2 and 12 percent, based on a comparison of the totals obtained from Current Industrial Reports Series M32D, Clay Construction Products and the Censuses of Manufactures for 1958 and 1963. The comparable shipments figures as published in Series M32D are as follows:

| Year | \$1,000 | Year | \$1,000 |
|------|---------|------|---------|
| 1963 | 137,854 | 1960 | 129,524 |
| 1962 | 135,526 | 1959 | 141,149 |
| 1961 | 124,301 | 1958 | 119,171 |

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area                         | Value of shipments | Product class and geographic area                                   | Value of shipments | Product class and geographic area                                   | Value of shipments |
|---|--------------------|---|--------------------|---|--------------------|
|   | 1963 <sup>1</sup>  |   | 1963 <sup>1</sup>  |   | 1963 <sup>1</sup>  |
| BRICK, EXCEPT CERAMIC GLAZED AND REFRACTORY BRICK (32511) |                    | BRICK, EXCEPT CERAMIC GLAZED AND REFRACTORY BRICK (32511)—Continued |                    | BRICK, EXCEPT CERAMIC GLAZED AND REFRACTORY BRICK (32511)—Continued |                    |
| United States, total....                                  | 263,584            | West North Central.....   | 14,901             | West South Central.....   | 29,391             |
| Northeast.....  | 6,507              | Iowa.....   | 3,071              | Arkansas.....   | 5,088              |
| New Hampshire.....  | 1,227              | Missouri.....   | 4,251              | Louisiana.....  | 2,298              |
| Connecticut.....  | 3,616              | Nebraska.....   | 1,798              | Oklahoma.....   | 2,504              |
|   |                    | Kansas.....   | 3,743              | Texas.....  | 19,501             |
| Middle Atlantic.....                                      | 35,546             | South Atlantic.....   | 69,133             | Mountain.....   | 12,321             |
| New York.....   | 8,402              | Maryland.....   | 5,244              | Colorado.....   | 6,370              |
| New Jersey.....   | 4,701              | Virginia.....   | 10,545             | Arizona.....  | 1,091              |
| Pennsylvania.....   | 22,443             | West Virginia.....  | 2,453              |   |                    |
|   |                    | North Carolina.....   | 22,948             | Pacific.....  | 14,688             |
| East North Central.....                                   | 48,550             | South Carolina.....   | 10,595             | Washington.....   | 2,716              |
| Ohio.....   | 28,687             | Georgia.....  | 14,979             | California.....   | 10,707             |
| Indiana.....  | 6,853              | East South Central.....   | 32,547             |   |                    |
| Illinois.....   | 12,018             | Alabama.....  | 9,924              |   |                    |
|   |                    | Mississippi.....  | 8,301              |   |                    |

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 32511-Maine, Minnesota, District of Columbia, Kentucky, Tennessee, Utah, Oregon.

TABLE 7A. Materials by Kind: 1963

| Code   | Material  | 1963                             |                          |
|--------|---|----------------------------------|--------------------------|
|        |   | Quantity (short tons)            | Delivered cost (\$1,000) |
|        |   | INDUSTRY 3241.—CEMENT, HYDRAULIC |                          |
|        | Materials, containers, and supplies, total .....                                  | (X)                              | 195,819                  |
| 264338 | Paper shipping sacks and multiwall bags.....                                      | 375,952                          | 18,134                   |
|        | Refractories:   |                                  |                          |
| 325501 | Clay.....   | (S)                              | 4,172                    |
| 329701 | Nonclay.....  | (S)                              | 2,906                    |
| 970099 | All other materials and components, parts, containers, and supplies consumed..... | (X)                              | 167,626                  |
| 976000 | Materials, containers, and supplies, n.s.k.....                                   | (X)                              | 2,981                    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available (X) Not applicable. n.s.k. Not specified by kind. (S) Withheld because the estimate did not meet publication standards.



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Cement,<br>hydraulic<br>(SIC 3241) | Brick and<br>structural<br>tile<br>(SIC 3251) | Ceramic<br>wall tile<br>floor tile<br>(SIC 3253) | Clay<br>refractories<br>(SIC 3255) | Structural<br>clay<br>products, n.e.c.<br>(SIC 3259) |
|---|------------------------------------|---|--|------------------------------------|--|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 172,006                            | 43,705  | 4,826  | 14,365                             | 14,975   |
| Total cost of purchased fuels.....do....  | 117,954                            | 35,074  | 3,411  | 11,405                             | 12,647   |
| Bituminous coal, lignite, and anthracite:   |                                    |   |  |                                    |  |
| Quantity.....1,000 short tons..   | 7,631                              | (S)   | (S)  | (S)                                | 303  |
| Cost.....\$1,000..  | 54,205                             | (S)   | (S)  | (S)                                | 2,051  |
| Coke and breeze:  |                                    |   |  |                                    |  |
| Quantity.....1,000 short tons..   | 38                                 | (S)   | -  | (S)                                | -  |
| Cost.....\$1,000..  | 383                                | (S)   | -  | (S)                                | -  |
| Fuel oil (distillate and residual):   |                                    |   |  |                                    |  |
| Quantity.....1,000 barrels of 42 gallons..  | 3,053                              | 755   | 71   | 174                                | 277  |
| Cost.....\$1,000..  | 8,381                              | 2,655   | 278  | 755                                | 1,024  |
| Gas (natural, manufactured, still, blast furnace,<br>and coke oven):  |                                    |   |  |                                    |  |
| Quantity.....million cu.ft..  | 185,494                            | 64,245  | 5,672  | 20,298                             | 22,484   |
| Cost.....\$1,000..  | 54,758                             | 25,144  | 2,929  | 9,494                              | 9,207  |
| Other fuels.....do....  | 227                                | 3,156   | 181  | 78                                 | 365  |
| Electric energy:  |                                    |   |  |                                    |  |
| Purchased:  |                                    |   |  |                                    |  |
| Quantity.....million kw.-hrs..  | 5,913                              | 568   | 99   | 215                                | 151  |
| Cost.....\$1,000..  | 54,052                             | 8,631   | 1,415  | 2,960                              | 2,328  |
| Generated less sold.....million kw.-hrs..   | 1,522                              | (S)   | (S)  | (S)                                | (S)  |
| Aggregate horsepower of prime movers and electric motors<br>driven by purchased energy(December 31), total.....1,000 hp.. | 2,842                              | 482   | 56   | 156                                | 140  |
| Prime movers, total.....do....  | 757                                | 91  | 9  | 12                                 | 27   |
| Driving generators.....do....   | 526                                | 6   | 2  | 4                                  | 2  |
| Not driving generators.....do....   | 231                                | 85  | 7  | 8                                  | 25   |
| Electric motors, total.....do....   | 2,611                              | 392   | 48   | 145                                | 113  |
| Driven by purchased energy.....do....   | 2,085                              | 391   | 47   | 144                                | 113  |
| Driven by energy generated at establishment.....do....  | 526                                | 1   | 1  | 1                                  | (Z)  |
| Aggregate horsepower per 100 production workers.....  | 9,570                              | 1,674   | 523  | 1,480                              | 1,330  |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization                             | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3251-                          | BRICK AND STRUCTURAL TILE  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 512                     | 28,620         | 130,378           | 24,665             | 51,237            | 102,597         | 216,548  | 106,012                     | 325,093                      | 19,344                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 484                     | 26,811         | 121,622           | 23,163             | 48,077            | 96,052          | 203,900  | 98,383                      | 304,758                      | 15,723                              |
|                                | 75-89% specialization.....   | 12                      | 788            | 3,742             | 656                | 1,418             | 2,806           | 5,864  | 3,205                       | 9,255                        | 1,379                               |
| 32511                          | Brick, except ceramic glazed and refractory (primary product class of estab.)..... | 432                     | 24,791         | 111,737           | 21,453             | 44,574            | 88,115          | 188,772  | 91,655                      | 283,212                      | 15,838                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 383                     | 21,381         | 96,026            | 18,586             | 38,540            | 76,249          | 164,739  | 77,328                      | 244,494                      | 12,904                              |
|                                | 75-89% specialization.....   | 25                      | 1,468          | 6,465             | 1,267              | 2,695             | 5,021           | 10,125   | 5,445                       | 15,903                       | 1,411                               |
| 32512                          | Glazed brick and structural hollow tile (primary product class of estab.).....     | 26                      | 3,037          | 15,691            | 2,528              | 5,284             | 12,090          | 22,423   | 11,047                      | 33,220                       | 1,436                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 17                      | 1,969          | 10,184            | 1,680              | 3,501             | 8,407           | 13,796   | 7,065                       | 20,601                       | 1,134                               |
|                                | 75-89% specialization.....   | 4                       | 366            | 1,622             | 308                | 697               | 1,107           | 3,184  | 772                         | 3,951                        | 67                                  |
| 3259-                          | STRUCTURAL CLAY PRODUCTS, N.E.C.   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 164                     | 12,188         | 61,977            | 10,364             | 21,142            | 48,727          | 108,442  | 53,382                      | 159,724                      | 5,842                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 132                     | 8,044          | 40,535            | 6,909              | 13,897            | 32,076          | 66,153   | 35,056                      | 99,360                       | 3,745                               |
|                                | 75-89% specialization.....   | 12                      | 1,706          | 8,739             | 1,453              | 2,878             | 7,042           | 16,798   | 6,478                       | 22,928                       | 697                                 |
| 32591                          | Clay sewer pipe and fittings (primary product class of estab.).....                | 58                      | 8,867          | 44,882            | 7,678              | 15,382            | 36,057          | 80,279   | 40,567                      | 119,620                      | 4,549                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 30                      | 3,932          | 20,603            | 3,517              | 6,847             | 17,665          | 35,225   | 18,970                      | 53,233                       | 1,938                               |
|                                | 75-89% specialization.....   | 13                      | 1,993          | 8,435             | 1,710              | 3,296             | 6,231           | 12,750   | 6,945                       | 19,302                       | 809                                 |
| 32592                          | Structural clay products, n.e.c. (primary product class of estab.).....            | 74                      | 3,010          | 15,389            | 2,411              | 5,182             | 11,208          | 24,945   | 11,835                      | 36,087                       | 1,059                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 60                      | 2,211          | 11,740            | 1,757              | 3,825             | 8,441           | 19,271   | 9,285                       | 27,804                       | 890                                 |
|                                | 75-89% specialization.....   | 5                       | 311            | 1,386             | 262                | 470               | 1,163           | 2,413  | 659                         | 2,998                        | 37                                  |

n.e.c. Not elsewhere classified.

TABLE 9. Selected Statistics for Establishments With Mining Activities: 1963

| Item   | Cement, hydraulic (SIC 3241) | Brick and structural tile (SIC 3251) | Clay refractories (SIC 3255) | Structural clay products, n.e.c. (SIC 3259) |
|--|------------------------------|--------------------------------------|------------------------------|---|
| Establishments.....number..  | 149                          | 291                                  | 121                          | 176   |
| Production workers wages.....\$1,000..                                   | 19,221                       | 6,541                                | 1,294                        | 881   |
| Man-hours of production workers.....1,000..                              | 6,384                        | 2,591                                | 471                          | 410   |
| Cost of supplies, fuels, electric energy, and contract work....\$1,000.. | 19,044                       | 5,616                                | 1,014                        | 1,643                                       |

<sup>1</sup>See footnote 1, table 3.

<sup>2</sup>Only 291 of the 315 establishments reporting mining activity in conjunction with manufacturing also reported separate data for the operation of the mine or pit. See also footnote 1, table 3.



## POTTERY AND RELATED PRODUCTS

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3261—Vitreous China Plumbing Fixtures and China and Earthenware Fittings and Bathroom Accessories
- 3262—Vitreous China Table and Kitchen Articles
- 3263—Fine Earthenware (Whiteware) Table and Kitchen Articles
- 3264—Porcelain Electrical Supplies
- 3269—Pottery Products, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3261—VITREOUS CHINA PLUMBING FIXTURES AND CHINA AND EARTHENWARE FITTINGS AND BATHROOM ACCESSORIES

This industry comprises establishments primarily engaged in manufacturing china plumbing fixtures and china and earthenware fittings and bathroom accessories. For a detailed list of products of industry 3261, refer to table 6A, product codes 3261011 to 3261051.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Vitreous Plumbing Fixtures Industry totaled \$156 million. This amount included shipments of vitreous plumbing fixtures (primary products) valued at \$139 million, shipments of other products (secondary products) valued at \$5 million, and miscellaneous receipts at \$12 million.

This industry's shipments of vitreous plumbing fixtures represented 97 percent of its total product shipments. The industry specialization ratio in 1958 was also 97 percent. Secondary products shipped by this industry in 1963 consisted mainly of plumbing fixture fittings and trim (brass goods).

Shipments of vitreous plumbing fixtures by this industry represented 97 percent of all shipments of these products (\$144 million) by all industries. In 1958 the coverage ratio was also 97 percent. Other industries shipping vitreous plumbing fixtures consisted mainly of industry 3431, Metal Plumbing Fixtures.

The production index for the primary products of the industry increased to 140 in 1963 from the 1958 level of 110. The unit value index for 1963 was 88 compared to 102 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3262—VITREOUS CHINA TABLE AND KITCHEN ARTICLES

This industry comprises establishments primarily engaged in manufacturing vitreous china table and kitchen articles for use in households and in hotels, restaurants, and other commercial institutions for preparing, serving, or storing food or drink. Establishments primarily engaged in manufacturing fine (semivitreous) types of earthenware (whiteware) table and kitchen articles are classified in industry 3263. For a detailed list of products of industry 3262, refer to table 6A, product codes 3262018 to 3262052.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Vitreous China Food Utensils Industry totaled \$51 million. This amount included shipments of vitreous china food utensils (primary products) valued at \$47 million, shipments of other products (secondary products) and miscellaneous receipts at \$3 million.

This industry's shipments of vitreous china food utensils represented over 90 percent of its total product shipments. The exact percentage is withheld to avoid disclosing figures of individual companies. The industry specialization ratio in 1958 was 96 percent.

Shipments of vitreous china food utensils by this industry represented 91 percent of all shipments of these products (\$52 million) by all industries. In 1958 the coverage ratio was 96 percent. Other industries shipping vitreous china food utensils consisted mainly of industry 3263, Earthenware Food Utensils.

The production index for the primary products of the industry increased to 90 in 1963 from the 1958 level of 88. The unit value index for 1963 was 119 compared to 123 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3263—FINE EARTHENWARE (WHITEWARE) TABLE AND KITCHEN ARTICLES

This industry comprises establishments primarily engaged in manufacturing fine (semi-vitreous) types of earthenware table and kitchen articles for preparing, serving, or storing food or drink. Establishments primarily engaged in manufacturing vitreous china table and kitchen articles are classified in industry 3262. For a detailed list of products of industry 3263, refer to table 6A, product codes 3263012 to 3263052.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Fine Earthenware Food Utensils Industry totaled \$59 million. This amount included shipments of fine earthenware food utensils (primary products) valued at \$53 million, shipments of other products (secondary products) valued at \$5 million, and miscellaneous receipts at \$2 million.



This industry's shipments of fine earthenware food utensils represented 92 percent of its total product shipments. The industry specialization ratio in 1958 was 98 percent. Secondary products shipped by this industry in 1963 consisted mainly of fine vitreous china food utensils.

Shipments of fine earthenware food utensils by this industry represented 91 percent of all shipments of these products (\$58 million) by all industries. In 1958 the coverage ratio was also 91 percent. Other industries shipping fine earthenware food utensils consisted mainly of industry 3253, Ceramic Wall and Floor Tile.

The production index for the primary products of the industry increased to 78 in 1963 from the 1958 level of 60. The unit value index for 1963 was 106 compared to 127 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3264--PORCELAIN ELECTRICAL SUPPLIES

This industry comprises establishments primarily engaged in the manufacture of porcelain electrical insulators, molded porcelain parts for electrical devices, steatite electrical products and other electrical supplies from clay and other ceramic materials. For a detailed list of products of industry 3264, refer to table 6A, codes 3264012 to 3264098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Porcelain Electrical Supplies Industry totaled \$132 million. This amount included shipments of porcelain electrical supplies (primary products) valued at \$115 million, shipments of other products (secondary products) valued at \$12 million, and miscellaneous receipts at \$5 million.

This industry's shipments of porcelain electrical supplies represented 91 percent of its total product shipments. The industry specialization ratio in 1958 was 92 percent. Secondary products shipped by this industry in 1963 consisted mainly of pottery products, n.e.c. (\$3 million), and current-carrying wiring devices (over \$2 million).

Shipments of porcelain electrical supplies by this industry represented 95 percent of all shipments of these products (\$121 million) by all industries. In 1958 the coverage ratio was 93 percent. Other industries shipping porcelain electrical supplies consisted mainly of industry 3269, Pottery Products, N.E.C.

#### 3269--POTTERY PRODUCTS, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in firing and decorating white china and earthenware for the trade and manufacturing art and ornamental pottery, industrial and laboratory pottery, stoneware and coarse earthenware table and kitchen articles, unglazed red earthenware florists' articles, and other pottery products not elsewhere classified. For a detailed list of products of industry 3269, refer to table 6A, product codes 3269011 to 3269091.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Pottery Products, N.E.C., Industry totaled \$96 million. This amount included shipments of pottery products, n.e.c., (primary products) valued at \$73 million, shipments of other products (secondary products) valued at \$11 million, and miscellaneous receipts at \$12 million.

This industry's shipments of pottery products, n.e.c., represented 87 percent of its total product shipments. The industry specialization ratio in 1958 was 93 percent. Secondary products shipped by this industry in 1963 consisted mainly of porcelain electrical supplies.

Shipments of pottery products, n.e.c., by this industry represented 89 percent of all shipments of these products (\$81 million) by all industries. In 1958 the coverage ratio was 90 percent. Other industries shipping pottery products, n.e.c., consisted mainly of industry 3264, Porcelain Electrical Supplies, \$3 million.

**POTTERY AND RELATED PRODUCTS: SIC 326**  
**Value Added by Manufacture by State: 1963**

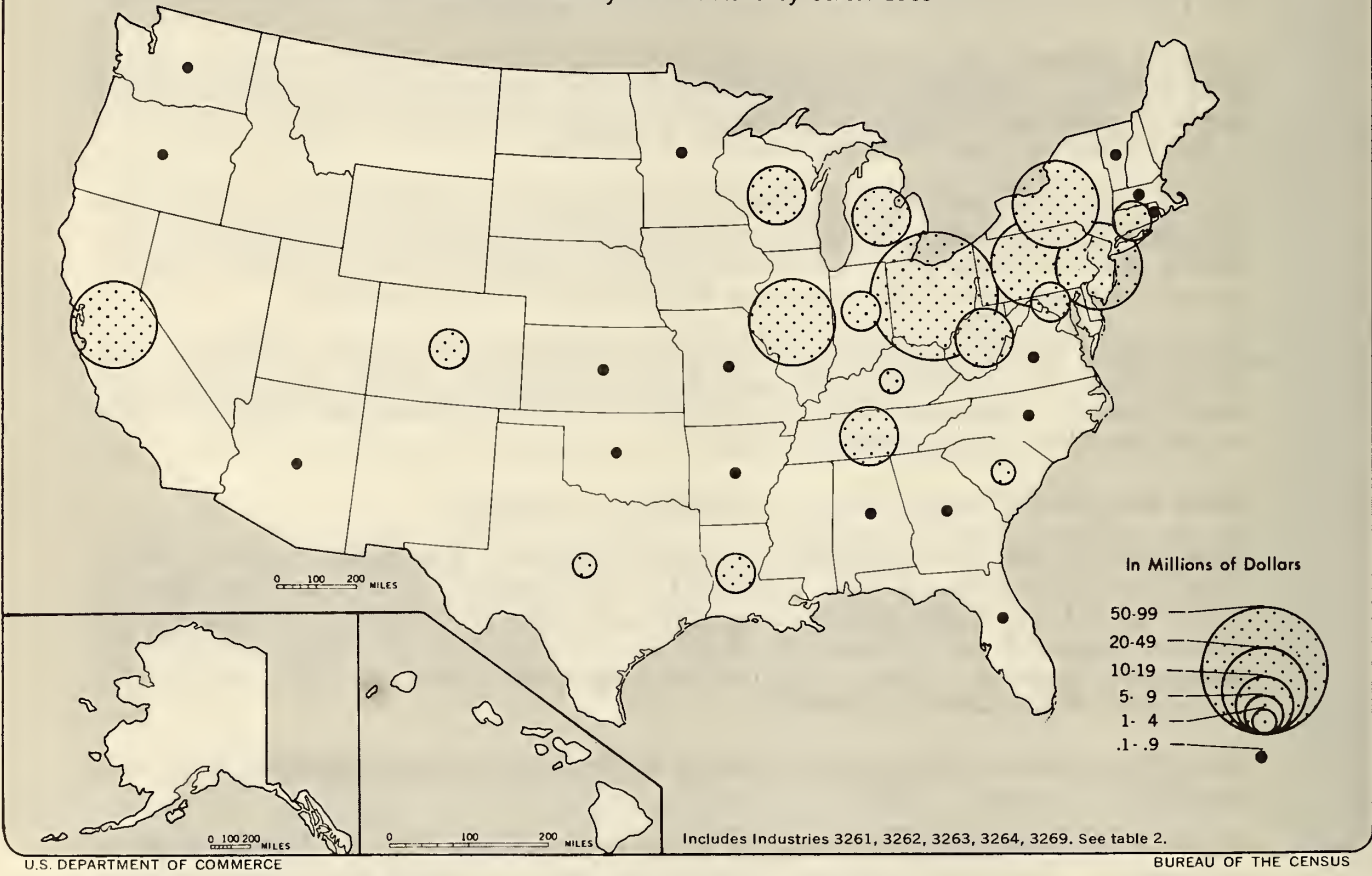




TABLE 1. General Statistics: 1963 and Earlier Years

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expendi-<br>tures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3261.—VITREOUS PLUMBING FIXTURES     |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 34                         | 49                | 43   | 9,280             | 56,794               | 7,893              | 15,519               | 46,588             | 101,502  | 55,664                            | 155,658                            | 2,442   | 97  | 97                                       |
| 1962 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 8,812             | 51,529               | 7,354              | 14,309               | 40,955             | 88,054   | 52,758                            | 141,451                            | 1,572   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 8,945             | 49,339               | 7,457              | 14,133               | 39,277             | 85,808   | 49,829                            | 135,382                            | 3,222   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,308            | 56,050               | 8,743              | 16,988               | 45,042             | 100,615  | 56,993                            | 153,726                            | 3,179   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,919            | 58,820               | 9,376              | 18,556               | 48,219             | 112,780  | 64,909                            | 175,530                            | 1,831   | (NA)  | (NA)                                     |
| 1958.....                                     | 35                         | 49                | 43   | 9,677             | 49,568               | 8,111              | 15,638               | 39,580             | 87,293   | 52,793                            | 142,683                            | 1,613   | 97  | 97                                       |
| 1957 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,240            | 52,320               | 8,690              | 17,249               | 41,336             | 99,011   | 47,217                            | 142,177                            | (S)   | 98  | 99                                       |
| 1956 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 11,365            | 57,013               | 9,822              | 20,254               | 46,403             | 117,255  | 54,594                            | 162,978                            | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,883            | 52,102               | 9,527              | 19,758               | 43,380             | 107,031  | 50,599                            | 153,955                            | (S)   | (NA)  | (NA)                                     |
| 1954.....                                     | 25                         | 37                | 33   | 9,200             | 40,541               | 7,785              | 15,676               | 32,987             | 75,539   | 50,242                            | 128,229                            | 1,061   | 99  | 99                                       |
| 1952 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 8,896             | 37,019               | 7,582              | (NA)                 | 29,253             | 65,312   | 31,583                            | 96,895                             | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,536            | 43,585               | 9,191              | (NA)                 | 35,827             | 86,276   | 40,046                            | 126,322                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,067            | 38,480               | 8,757              | (NA)                 | 31,411             | 77,777   | 33,730                            | 111,507                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 9,044             | 32,012               | 8,020              | (NA)                 | 25,923             | 51,714   | 30,989                            | 82,703                             | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                     | 26                         | 33                | (NA)   | 7,831             | 24,615               | 6,996              | 14,591               | 21,187             | 45,677   | 22,416                            | 68,093                             | (NA)  | 98  | 99                                       |
| 1939.....                                     | (NA)                       | 25                | (NA)   | 5,146             | 7,669                | 4,534              | (NA)                 | 6,316              | 14,997   | 6,982                             | 21,979                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                     | (NA)                       | 30                | (NA)   | (NA)              | (NA)                 | 4,577              | (NA)                 | 6,481              | 14,547   | 5,846                             | 20,393                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3262.—VITREOUS CHINA FOOD UTENSILS   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 26                         | 31                | 21   | 6,314             | 29,552               | 5,288              | 9,817                | 21,773             | 42,504   | 8,927                             | 50,954                             | 724   | (D)   | 91                                       |
| 1962 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 6,691             | 29,631               | 5,515              | 10,611               | 21,572             | 43,785   | 9,154                             | 52,205                             | 1,069   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 6,512             | 27,905               | 5,404              | 10,088               | 20,174             | 40,236   | 8,560                             | 49,153                             | 631   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 7,052             | 30,034               | 5,876              | 10,950               | 21,645             | 42,588   | 9,015                             | 51,468                             | 782   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 7,219             | 30,367               | 6,103              | 11,633               | 22,633             | 42,735   | 8,933                             | 51,792                             | 1,059   | (NA)  | (NA)                                     |
| 1958.....                                     | 26                         | 28                | 23   | 7,248             | 28,573               | 6,002              | 10,946               | 20,508             | 39,285   | 8,082                             | 47,695                             | 906   | 96  | 96                                       |
| 1957 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 8,023             | 30,779               | 7,011              | 13,011               | 23,435             | 42,120   | 8,406                             | 49,782                             | 1,045   | 96  | 96                                       |
| 1956 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 8,306             | 30,664               | 7,308              | 13,733               | 23,771             | 41,801   | 8,475                             | 42,914                             | 1,248   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 8,441             | 28,158               | 7,421              | 13,496               | 22,110             | 37,902   | 7,937                             | 46,436                             | 701   | (NA)  | (NA)                                     |
| 1954.....                                     | 32                         | 34                | 29   | 8,704             | 28,161               | 7,693              | 14,061               | 22,622             | 36,413   | 8,675                             | 45,063                             | 1,333   | 95  | 96                                       |
| 1952 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 8,194             | 24,860               | 7,340              | 13,184               | 30,407             | 33,061   | 7,076                             | 40,137                             | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 9,356             | 27,670               | 8,454              | 15,937               | 22,942             | 34,791   | 7,902                             | 42,693                             | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                     | 26                         | 27                | 25   | 11,000            | 26,849               | 10,326             | 20,228               | 23,530             | 35,228   | 7,968                             | 43,196                             | 2,692   | 97  | 97                                       |
| 1939 <sup>2</sup> .....                       | (NA)                       | 17                | (NA)   | 4,798             | 5,716                | 4,350              | (NA)                 | 4,639              | 7,653  | 1,707                             | 9,360                              | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> .....                       | (NA)                       | 18                | (NA)   | (NA)              | (NA)                 | 4,671              | (NA)                 | 5,030              | 8,438  | 1,977                             | 10,415                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3263.—FINE EARTHENWARE FOOD UTENSILS |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 20                         | 21                | 18   | 7,349             | 31,614               | 6,594              | 12,319               | 26,416             | 41,046   | 17,881                            | 59,046                             | 797   | 92  | 91                                       |
| 1962 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | (6,714)           | (27,086)             | (5,951)            | (10,726)             | (22,231)           | (34,192)   | (14,242)                          | (48,383)                           | (660)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | (6,890)           | (25,870)             | (6,172)            | (10,833)             | (21,098)           | (32,769)   | (12,969)                          | (46,446)                           | (673)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | (8,770)           | (33,575)             | (7,890)            | (13,787)             | (27,893)           | (41,743)   | (16,059)                          | (58,326)                           | (724)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | (9,289)           | (33,526)             | (8,477)            | (14,331)             | (28,228)           | (41,898)   | (15,490)                          | (58,215)                           | (499)   | (NA)  | (NA)                                     |
| 1958.....                                     | 29                         | 30                | 24   | 8,718             | 28,749               | 7,969              | 12,645               | 26,756             | 36,311   | 13,221                            | 50,230                             | 586   | 98  | 91                                       |
| 1957 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,916            | 37,918               | 10,026             | 17,018               | 31,915             | 45,054   | 17,514                            | 63,212                             | 778   | 96  | 90                                       |
| 1956 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 12,470            | 41,439               | 11,502             | 19,231               | 35,045             | 52,746   | 18,099                            | 69,307                             | 1,126   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 13,034            | 39,706               | 12,104             | 19,898               | 33,686             | 50,590   | 17,476                            | 67,985                             | 733   | (NA)  | (NA)                                     |
| 1954.....                                     | 46                         | 47                | 36   | 13,335            | 38,742               | 12,333             | 19,467               | 32,468             | 48,655   | 17,220                            | 67,029                             | 528   | 98  | 92                                       |
| 1953 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 14,593            | 42,790               | 13,510             | 22,892               | 37,172             | 52,173   | 15,578                            | 67,751                             | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 17,726            | 54,936               | 16,159             | 29,266               | 46,949             | 72,062   | 21,007                            | 93,069                             | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 17,822            | 54,001               | 16,209             | 29,483               | 46,484             | 70,185   | 22,743                            | 92,928                             | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 17,396            | 47,492               | 15,866             | 29,465               | 40,219             | 60,894   | 20,911                            | 81,805                             | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 18,146            | 46,070               | 16,705             | 28,022               | 39,395             | 56,140   | 20,500                            | 76,640                             | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                     | 74                         | 76                | 42   | 16,747            | 42,091               | 15,742             | 29,733               | 37,175             | 54,837   | 17,217                            | 72,054                             | 4,784   | 92  | 97                                       |
| 1939.....                                     | (NA)                       | 31                | (NA)   | 12,773            | 15,600               | 11,728             | (NA)                 | 13,150             | 19,644   | 8,157                             | 27,801                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                     | (NA)                       | 35                | (NA)   | (NA)              | (NA)                 | 11,348             | (NA)                 | 12,918             | 17,945   | 7,744                             | 25,689                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3264.—PORCELAIN ELECTRICAL SUPPLIES  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 74                         | 79                | 49   | 10,170            | 57,401               | 8,028              | 15,917               | 41,120             | 90,001   | 41,775                            | 131,790                            | 4,142   | 91  | 95                                       |
| 1962 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,137            | 53,782               | 8,032              | 15,625               | 38,809             | 83,898   | 40,474                            | 122,765                            | 4,696   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 9,656             | 50,563               | 7,675              | 15,070               | 36,447             | 77,384   | 37,550                            | 115,264                            | 5,159   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 9,376             | 47,211               | 7,641              | 15,237               | 35,440             | 75,931   | 35,899                            | 111,384                            | 4,130   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 9,605             | 46,502               | 7,994              | 16,096               | 35,093             | 76,695   | 34,792                            | 109,864                            | 3,508   | (NA)  | (NA)                                     |
| 1958.....                                     | 57                         | 59                | 44   | 9,107             | 42,362               | 7,489              | 14,741               | 31,342             | 66,074   | 31,014                            | 97,475                             | 4,390   | 92  | 93                                       |
| 1957 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 9,538             | 43,758               | 7,965              | 15,916               | 33,159             | 70,969   | 30,370                            | 101,957                            | (S)   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,347            | 45,367               | 8,813              | 17,602               | 35,153             | 72,604   | 28,899                            | 99,403                             | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,006            | 40,526               | 8,458              | 17,074               | 31,468             | 62,727   | 25,620                            | 86,902                             | 5,645   | (NA)  | (NA)                                     |
| 1954.....                                     | 42                         | 45                | 37   | 9,550             | 37,679               | 7,990              | 15,847               | 28,629             | 54,312   | 27,798                            | 83,169                             | 5,357   | 94  | 87                                       |
| 1953 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 11,393            | 43,480               | 9,808              | 19,765               | 33,947             | 63,906   | 28,751                            | 72,657                             | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 11,318            | 41,748               | 9,870              | 19,872               | 33,415             | 60,576   | 30,271                            | 90,847                             | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 12,120            | 41,093               | 10,754             | 21,706               | 33,513             | 62,768   | 31,846                            | 94,614                             | (NA)  | (NA)  | (NA)                                     |

See footnotes at end of table.

TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3264.—PORCELAIN ELECTRICAL SUPPLIES—Continued |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1950 <sup>1</sup> .....                                | (NA)                       | (NA)              | (NA)   | 9,896             | 30,496               | 8,690              | 17,774               | 24,434             | 48,760   | 21,397                            | 70,157                             | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                                | (NA)                       | (NA)              | (NA)   | 9,282             | 27,187               | 8,168              | 16,371               | 21,849             | 42,120   | 20,561                            | 62,681                             | (NA)  | (NA)  | (NA)                                     |
| 1947.....  | 47                         | 50                | 40   | 11,547            | 30,463               | 10,447             | 21,553               | 25,454             | 52,832   | 18,652                            | 71,484                             | 2,904   | 89  | 93                                       |
| 1939 <sup>3</sup> .....                                | (NA)                       | 42                | (NA)   | 6,897             | 8,767                | 6,018              | (NA)                 | 6,530              | 13,673   | 7,144                             | 20,817                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>3</sup> .....                                | (NA)                       | 37                | (NA)   | (NA)              | (NA)                 | 7,170              | (NA)                 | 8,160              | 16,208   | 7,451                             | 23,659                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3269.—POTTERY PRODUCTS, N.E.C.                |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 449                        | 458               | 98   | 9,085             | 37,508               | 7,539              | 14,920               | 27,805             | 62,107   | 34,145                            | 95,541                             | 3,064   | 87  | 89                                       |
| 1962 <sup>1</sup> .....                                | (NA)                       | (NA)              | (NA)   | 9,799             | 38,018               | 8,372              | 15,341               | 28,481             | 59,795   | 34,836                            | 96,211                             | 1,323   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                                | (NA)                       | (NA)              | (NA)   | 9,003             | 33,829               | 7,651              | 14,743               | 25,630             | 55,788   | 31,747                            | 89,642                             | 3,287   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                                | (NA)                       | (NA)              | (NA)   | 9,683             | 34,979               | 8,339              | 15,978               | 26,730             | 57,323   | 29,761                            | 88,798                             | 2,813   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                                | (NA)                       | (NA)              | (NA)   | 10,404            | 34,801               | 8,723              | 16,650               | 26,608             | 57,735   | 31,141                            | 87,295                             | 2,391   | (NA)  | (NA)                                     |
| 1958 <sup>4</sup> 5.....                               | 580                        | 587               | 108  | 9,250             | 31,218               | 7,745              | 15,155               | 23,778             | 54,046   | 25,202                            | 78,800                             | 3,275   | 93  | 90                                       |
| 1954 <sup>4</sup> .....                                | (NA)                       | 704               | 115  | 10,144            | 28,438               | 8,958              | 17,177               | 22,569             | 42,710   | 17,302                            | 60,456                             | 2,352   | 95  | 90                                       |
| 1947 <sup>4</sup> .....                                | (NA)                       | 556               | 126  | 10,781            | 22,944               | 9,865              | 20,959               | 19,331             | 36,218   | 12,086                            | 48,304                             | 2,710   | 96  | 85                                       |
| 1939 <sup>2</sup> 4.....                               | (NA)                       | 175               | (NA)   | 7,481             | 9,165                | 6,475              | (NA)                 | 6,824              | 13,990   | 4,937                             | 18,927                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> 4.....                               | (NA)                       | 147               | (NA)   | (NA)              | (NA)                 | 5,600              | (NA)                 | 6,099              | 12,263   | 3,997                             | 16,260                             | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: **All employees:** For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** For 1947 and prior years figures represent an average of 12 monthly figures. **Value added:** Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. **Cost of materials:** Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. **Value of shipments:** Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Establishments primarily engaged in manufacturing vitreous china household food utensils are excluded from the 1939 and 1937 figures for "Vitreous china food utensils" and included in the figures for "Pottery products, n.e.c." Five establishments were primarily engaged in making these products in 1947.

<sup>3</sup>Excludes data for establishments which manufactured steatite and other ceramic electrical products.

<sup>4</sup>The 1957 Standard Industrial Classification combined in this industry two industries which were separate in the 1945 Standard Industrial Classification. These were: SIC 3265, China Decorating for the Trade, and SIC 3269, Pottery Products, N.E.C. The data for 1957 and earlier years for these two industries have been combined.

<sup>5</sup>Revised to include data for Alaska and Hawaii.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                  | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3261.—VITREOUS PLUMBING FIXTURES     |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 49             | 43                                 | 9,280          | 56,794            | 7,893              | 15,519            | 46,588          | 101,502                              | 55,664            | 155,658            | 2,442                     | 9,677            | 87,293                               |
| Northeast.....                                | 19             | 14                                 | 3,375          | 20,612            | 2,857              | 5,540             | 17,227          | 37,593                               | 19,499            | 56,848             | 450                       | 3,645            | 31,343                               |
| New Jersey.....                               | 12             | 10                                 | 1,974          | 11,888            | 1,672              | 3,214             | 9,971           | 20,201                               | 10,938            | 31,102             | 177                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| North Central.....                            | 15             | 15                                 | 3,804          | 22,132            | 3,273              | 6,486             | 18,111          | 38,161                               | 22,227            | 59,495             | 967                       | 3,693            | 32,595                               |
| Indiana.....                                  | 4              | 4                                  | 668            | 4,214             | 550                | 1,111             | 3,268           | 7,347                                | 5,350             | 12,894             | 72                        | 830              | 7,378                                |
| Illinois.....                                 | 3              | 3                                  | 786            | 4,457             | 671                | 1,155             | 3,724           | 7,334                                | 3,913             | 11,047             | 175                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South.....                                    | 7              | 7                                  | 976            | 5,834             | 820                | 1,642             | 4,607           | 10,931                               | 6,398             | 17,274             | 740                       | 1,181            | 9,591                                |
| Pacific.....                                  | 8              | 7                                  | 1,125          | 8,216             | 943                | 1,851             | 6,643           | 14,817                               | 7,540             | 22,041             | 285                       | 1,158            | 13,764                               |
| California.....                               | 8              | 7                                  | 1,125          | 8,216             | 943                | 1,851             | 6,643           | 14,817                               | 7,540             | 22,041             | 285                       | 1,158            | 13,764                               |
| INDUSTRY 3262.—VITREOUS CHINA FOOD UTENSILS   |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 31             | 21                                 | 6,314          | 29,552            | 5,288              | 9,817             | 21,773          | 42,504                               | 8,927             | 50,954             | 724                       | 7,248            | 39,285                               |
| Middle Atlantic.....                          | 11             | 10                                 | 4,568          | 22,430            | 3,714              | 7,023             | 15,996          | 32,894                               | 6,822             | 39,322             | 619                       | 4,745            | 28,115                               |
| Pennsylvania.....                             | 4              | 4                                  | 1,801          | 8,681             | 1,483              | 2,858             | 6,516           | 11,340                               | 2,163             | 12,960             | 203                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| North Central.....                            | 8              | 5                                  | 1,137          | 4,699             | 1,026              | 1,771             | 3,750           | 6,569                                | 1,062             | 7,613              | 74                        | 1,585            | 6,703                                |
| South and West.....                           | 12             | 6                                  | 609            | 2,423             | 548                | 1,023             | 2,027           | 3,041                                | 1,043             | 4,019              | 31                        | 918              | 4,467                                |
| INDUSTRY 3263.—FINE EARTHENWARE FOOD UTENSILS |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 21             | 18                                 | 7,349          | 31,614            | 6,594              | 12,319            | 26,416          | 41,046                               | 17,881            | 59,046             | 797                       | 8,718            | 36,311                               |
| Northeast and North Central.....              | 12             | 11                                 | 4,646          | 19,832            | 4,168              | 7,915             | 17,034          | 26,488                               | 11,688            | 38,220             | 658                       | 4,717            | 22,350                               |
| Ohio.....                                     | 7              | 6                                  | 2,707          | 11,232            | 2,461              | 4,560             | 9,748           | 14,188                               | 7,591             | 21,900             | 445                       | 2,820            | 11,871                               |
| South and West.....                           | 9              | 7                                  | 2,703          | 11,782            | 2,426              | 4,404             | 9,382           | 14,558                               | 6,193             | 20,826             | 139                       | 4,001            | 13,961                               |
| West Virginia.....                            | 4              | 3                                  | 2,215          | 9,763             | 2,037              | 3,679             | 8,025           | 11,578                               | 5,222             | 16,873             | 90                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| INDUSTRY 3264.—PORCELAIN ELECTRICAL SUPPLIES  |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 79             | 49                                 | 10,170         | 57,401            | 8,028              | 15,917            | 41,120          | 90,001                               | 41,775            | 131,790            | 4,142                     | 9,107            | 66,074                               |
| Northeast.....                                | 38             | 25                                 | 3,785          | 21,200            | 3,059              | 6,207             | 15,292          | 33,673                               | 18,049            | 51,383             | 1,766                     | 3,396            | 24,190                               |
| New York.....                                 | 7              | 4                                  | 1,275          | 8,109             | 1,015              | 2,026             | 5,903           | 14,586                               | 9,742             | 24,056             | 794                       | 1,160            | 11,039                               |
| Pennsylvania.....                             | 8              | 5                                  | 1,265          | 6,972             | 1,037              | 2,134             | 5,063           | 11,006                               | 5,119             | 15,817             | 452                       | 1,042            | 6,524                                |
| East North Central..                          | 14             | 12                                 | 3,725          | 21,430            | 2,804              | 5,262             | 15,298          | 32,412                               | 13,234            | 45,889             | 737                       | 3,208            | 23,944                               |
| Ohio.....                                     | 8              | 7                                  | 1,567          | 9,210             | 1,230              | 2,360             | 6,794           | 18,562                               | 8,722             | 27,480             | 349                       | 1,692            | 14,929                               |
| South.....                                    | 12             | 10                                 | 2,540          | 14,124            | 2,068              | 4,254             | 10,059          | 22,725                               | 9,970             | 32,782             | 1,513                     | 2,417            | 17,573                               |
| Pacific.....                                  | 15             | 2                                  | 120            | 647               | 97                 | 194               | 471             | 1,191                                | 522               | 1,736              | 126                       | 86               | 367                                  |
| INDUSTRY 3269.—POTTERY PRODUCTS, N.E.C.       |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 458            | 98                                 | 9,085          | 37,508            | 7,539              | 14,920            | 27,805          | 62,107                               | 34,145            | 95,541             | 3,064                     | 29,250           | 254,046                              |
| New England.....                              | 26             | 2                                  | 174            | 636               | 150                | 272               | 496             | 1,319                                | 409               | 1,708              | 43                        | 179              | 1,067                                |
| Middle Atlantic.....                          | 74             | 20                                 | 1,374          | 5,749             | 1,131              | 2,212             | 4,196           | 10,728                               | 4,958             | 15,628             | 599                       | 1,357            | 9,489                                |
| New York.....                                 | 35             | 5                                  | 247            | 1,033             | 197                | 364               | 728             | 2,035                                | 776               | 2,790              | 91                        | 406              | 2,788                                |
| New Jersey.....                               | 19             | 7                                  | 398            | 1,822             | 317                | 649               | 1,275           | 3,150                                | 929               | 4,046              | 306                       | 373              | 2,220                                |
| Pennsylvania.....                             | 20             | 8                                  | 729            | 2,894             | 617                | 1,199             | 2,193           | 5,543                                | 3,253             | 8,792              | 202                       | 578              | 4,481                                |
| East North Central..                          | 88             | 36                                 | 3,311          | 14,096            | 2,684              | 5,437             | 9,787           | 22,898                               | 16,192            | 38,722             | 730                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Ohio.....                                     | 52             | 25                                 | 2,097          | 8,949             | 1,038              | 3,200             | 5,814           | 14,425                               | 11,709            | 25,674             | 417                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Illinois.....                                 | 20             | 9                                  | 1,065          | 4,452             | 924                | 2,005             | 3,455           | 6,845                                | 4,170             | 11,116             | 281                       | 1,084            | 6,583                                |
| West North Central..                          | 15             | 2                                  | 136            | 520               | 117                | 238               | 396             | 969                                  | 361               | 1,351              | 83                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South Atlantic.....                           | 42             | 3                                  | 316            | 949               | 270                | 504               | 747             | 1,703                                | 1,181             | 2,869              | 116                       | 397              | 1,806                                |
| East South Central..                          | 26             | 7                                  | 518            | 1,618             | 472                | 937               | 1,369           | 2,253                                | 1,214             | 3,443              | 152                       | 444              | 1,930                                |
| West South Central..                          | 21             | 4                                  | 235            | 698               | 203                | 380               | 565             | 1,008                                | 389               | 1,397              | 119                       | 307              | 1,447                                |
| Texas.....                                    | 16             | 3                                  | 190            | 577               | 166                | 314               | 480             | 830                                  | 329               | 1,151              | 109                       | 226              | 1,117                                |
| West.....                                     | 166            | 24                                 | 3,021          | 13,242            | 2,512              | 4,940             | 10,249          | 21,229                               | 9,441             | 30,423             | 1,222                     | 2,860            | 16,759                               |
| California.....                               | 143            | 22                                 | 1,933          | 6,663             | 1,746              | 3,153             | 5,616           | 11,209                               | 4,877             | 15,811             | 603                       | 2,279            | 13,191                               |

Footnotes on next page.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

Footnotes for Table 2-32C

n.e.c. Not elsewhere classified.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3261, Vitreous Plumbing Fixtures: New England—Connecticut, 2 (250-499); Middle Atlantic—New York, 2 (1-19); Pennsylvania, 3 (1,000-2,499); East North Central—Ohio, 4 (1,000-2,499); Wisconsin, 2 (1,000-2,499); West North Central—Missouri, 1 (20-99); Kansas, 1 (20-99); South Atlantic—Georgia, 1 (20-99); East South Central—Alabama, 1 (20-99); West South Central—Louisiana, 1 (250-499); Texas, 4 (445).

SIC 3262, Vitreous China Food Utensils: Middle Atlantic—New York, 5 (1,000-2,499); New Jersey, 2 (500-999); East North Central—Ohio, 6 (1,000-2,499); Illinois, 1 (20-99); West North Central—Missouri, 1 (1-19); South Atlantic—West Virginia, 2 (100-249); Florida, 1 (1-19); West South Central—Oklahoma, 1 (1-19); Pacific—California, 8 (468).

SIC 3263, Fine Earthenware Food Utensils: Middle Atlantic—New Jersey, 1 (100-249); Pennsylvania, 1 (100-249); East North Central—Illinois, 1 (500-999); Michigan, 1 (250-499); West North Central—Minnesota, 1 (100-249); West South Central—Oklahoma, (20-99); Mountain—Arizona, 1 (1-19); Pacific—California, 3 (250-499).

SIC 3264, Porcelain Electrical Supplies: New England—Massachusetts, 3 (20-99); Rhode Island, 1 (1-19); Connecticut, 2 (100-249); Middle Atlantic—New Jersey, 17 (500-999); East North Central—Indiana, 1 (1-19); Illinois, 2 (250-499); Michigan, 1 (500-999); Wisconsin, 2 (500-999); South Atlantic—Maryland, 4 (500-999); West Virginia, 4 (289); South Carolina, 1 (20-99); East South Central—Tennessee, 3 (1,000-2,499); Pacific—Washington, 1 (1-19); California, 14 (100-249).

SIC 3269, Pottery Products, N.E.C.: New England—Maine, 4 (1-19); New Hampshire, 4 (1-19); Vermont, 2 (1-19); Massachusetts, 8 (20-99); Rhode Island, 2 (1-19); Connecticut, 6 (20-99); East North Central—Indiana, 5 (20-99); Michigan, 6 (20-99); Wisconsin, 5 (1-19); West North Central—Minnesota, 1 (1-19); Iowa, 2 (1-19); Missouri, 6 (20-99); North Dakota, 1 (1-19); South Dakota, 1 (1-19); Nebraska, 1 (1-19); Kansas, 3 (20-99); South Atlantic—Maryland, 1 (1-19); Virginia, 4 (20-99); West Virginia, 5 (20-99); North Carolina, 9 (20-99); South Carolina, 1 (1-19); Georgia, 9 (20-99); Florida, 13 (20-99); East South Central—Kentucky, 13 (414); Tennessee, 6 (20-99); Alabama, 3 (1-19); Mississippi, 4 (1-19); West South Central—Arkansas, 2 (20-99); Louisiana, 1 (1-19); Oklahoma, 2 (1-19); Mountain—Colorado, 8 (1,023); Arizona, 3 (1-19); Utah, 1 (1-19); Pacific—Washington, 4 (1-19); Oregon, 3 (20-99); Hawaii, 4 (20-99).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.

<sup>3</sup>Revised to include data for Alaska and Hawaii.



TABLE 3. Detailed Statistics: 1963

| Item   | Vitreous plumbing fixtures<br>(SIC 3261) | Vitreous china food utensils<br>(SIC 3262) | Fine earthenware food utensils<br>(SIC 3263) | Porcelain electrical supplies<br>(SIC 3264) | Pottery products, n.e.c.<br>(SIC 3269) |
|--|--|--|--|---|--|
| Primary product specialization ratio <sup>1</sup> .....        | .97                                      | 2.90                                       | .92  | .91   | .87                                    |
| Coverage ratio <sup>3</sup> .....                              | .97                                      | .91  | .91  | .95   | .89                                    |
| Establishments, total.....number..                             | 49                                       | 31   | 21   | 79  | 458                                    |
| With 1 to 19 employees.....do....                              | 6  | 10   | 3  | 30  | 360                                    |
| With 20 to 99 employees.....do....                             | 13                                       | 5  | 3  | 25  | 81                                     |
| With 100 employees or more.....do....                          | 30                                       | 16   | 15   | 24  | 17                                     |
| Proprietors and working partners.....do....                    | 2  | 10   | 3  | 21  | 364                                    |
| All employees (average for the year).....do....                | 9,280                                    | 6,314                                      | 7,349  | 10,170                                      | 9,085                                  |
| Payroll (all employees), total for year.....\$1,000..          | 56,794                                   | 29,552                                     | 31,614                                       | 57,401                                      | 37,508                                 |
| Production workers:  |  |  |  |   |  |
| Average for the year.....number..                              | 7,893                                    | 5,288                                      | 6,594  | 8,028                                       | 7,539                                  |
| March.....do....   | 7,845                                    | 5,275                                      | 6,491  | 7,956                                       | 7,417                                  |
| May.....do....   | 7,987                                    | 5,311                                      | 6,477  | 8,049                                       | 7,122                                  |
| August.....do....  | 7,745                                    | 5,216                                      | 6,496  | 8,039                                       | 7,693                                  |
| November.....do....  | 7,996                                    | 5,358                                      | 6,911  | 8,088                                       | 7,965                                  |
| Man-hours.....1,000..  | 15,519                                   | 9,817                                      | 12,319                                       | 15,917                                      | 14,920                                 |
| January-March.....do....                                       | 3,777                                    | 2,405                                      | 2,871  | 3,920                                       | 3,684                                  |
| April-June.....do....  | 3,870                                    | 2,586                                      | 3,127  | 4,065                                       | 3,622                                  |
| July-September.....do....                                      | 3,990                                    | 2,215                                      | 2,963  | 3,899                                       | 3,780                                  |
| October-December.....do....                                    | 3,891                                    | 2,611                                      | 3,358  | 4,043                                       | 4,014                                  |
| Wages.....\$1,000..  | 46,588                                   | 21,773                                     | 26,416                                       | 41,120                                      | 27,805                                 |
| Cost of materials, etc., total.....do....                      | 55,664                                   | 8,927                                      | 17,881                                       | 41,775                                      | 34,145                                 |
| Materials, parts, containers, and supplies consumed.....do.... | 40,928                                   | 7,269                                      | 14,584                                       | 33,845                                      | 30,831                                 |
| Cost of resales.....do....                                     | 10,155                                   |  | 1,446  | 3,298                                       |  |
| Fuels consumed.....do....                                      | 3,257                                    | 1,261                                      | 1,348  | 2,277                                       | 2,072                                  |
| Electric energy:   |  |  |  |   |  |
| Purchased:   |  |  |  |   |  |
| Quantity.....million kw.-hrs..                                 | 107                                      | 29   | 38   | 106   | 60                                     |
| Cost.....\$1,000..   | 1,324                                    | 397  | 503  | 1,347                                       | 961                                    |
| Generated less sold.....million kw.-hrs..                      | (D)                                      | (D)  | -  | (D)   | -                                      |
| Contract work.....\$1,000..                                    | ( <sup>4</sup> )                         | -  | ( <sup>4</sup> )                             | 1,008                                       | 259                                    |
| Value of shipments (including resales), total.....do....       | 155,658                                  | 50,954                                     | 59,046                                       | 131,790                                     | 95,541                                 |
| Value of resales.....do....                                    | 11,842                                   | (D)  | (D)  | 4,821                                       | 9,795                                  |
| Value added by manufacture, adjusted.....do....                | 101,502                                  | 42,504                                     | 41,046                                       | 90,001                                      | 62,107                                 |
| Manufacturers' inventories: -                                  |  |  |  |   |  |
| Beginning of year, total.....do....                            | 25,363                                   | 11,442                                     | 9,835  | 19,789                                      | 8,668                                  |
| Finished products.....do....                                   | 14,878                                   | 5,573                                      | 5,610  | 5,260                                       | 4,818                                  |
| Work-in-process.....do....                                     | 3,902                                    | 3,640                                      | 1,431  | 7,299                                       | 1,154                                  |
| Materials, supplies, fuel, etc.....do....                      | 6,583                                    | 2,229                                      | 2,794  | 7,230                                       | 2,696                                  |
| End of year, total.....do....                                  | 26,818                                   | 11,873                                     | 9,663  | 19,599                                      | 9,867                                  |
| Finished products.....do....                                   | 15,738                                   | 5,728                                      | 5,276  | 5,385                                       | 5,286                                  |
| Work-in-process.....do....                                     | 4,550                                    | 3,962                                      | 1,646  | 7,160                                       | 1,397                                  |
| Materials, supplies, fuel, etc.....do....                      | 6,530                                    | 2,183                                      | 2,741  | 7,054                                       | 3,184                                  |
| Expenditures for plant and equipment, total.....do....         | 2,508                                    | 2,365                                      | 824  | 4,265                                       | 3,343                                  |
| New, total.....do....  | 2,442                                    | 724  | 797  | 4,142                                       | 3,064                                  |
| New structures and additions to plant.....do....               | 512                                      | 39   | 33   | 579   | 894                                    |
| New machinery and equipment.....do....                         | 1,930                                    | 685  | 764  | 3,563                                       | 2,170                                  |
| Used plant and equipment.....do....                            | 66                                       | 1,641                                      | 27   | 123   | 279                                    |
| Selected operating ratios:                                     |  |  |  |   |  |
| Payroll/Total employment.....                                  | 6,120                                    | 4,680                                      | 4,302  | 5,644                                       | 4,129                                  |
| Production workers/Total employment.....                       | .85                                      | .84  | .90  | .79   | .83                                    |
| Man-hours/Production workers.....                              | 1,966                                    | 1,856                                      | 1,868  | 1,983                                       | 1,979                                  |
| Production worker wages/Man-hours.....                         | 3.00                                     | 2.22                                       | 2.14   | 2.58  | 1.86                                   |
| Cost of materials and payrolls/Total value of shipments....    | .72                                      | .76  | .84  | .75   | .75                                    |
| Cost of materials/Total value of shipments.....                | .36                                      | .18  | .30  | .32   | .36                                    |
| Adjusted value added/Total employment.....                     | 10,938                                   | 6,732                                      | 5,585  | 8,850                                       | 6,848                                  |
| Salaries and wages/Adjusted value added.....                   | .56                                      | .70  | .77  | .64   | .60                                    |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>This is a minimum percentage. The exact percentage is withheld to avoid disclosing figures for individual companies.

<sup>3</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

<sup>4</sup>Cost of contract work included with cost of materials, parts, containers, and supplies to avoid disclosing figures of individual companies.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3261.—VITREOUS PLUMBING FIXTURES     |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 49                    | 2                                  | 3                | 1                  | 4                  | 9                  | 15                   | 12                   | 3                    | -                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 9,280                 | <u>41</u>                          | (D)              | (D)                | 105                | 641                | 2,354                | 4,427                | 1,712                | -                        | -                        |
| Payroll.....\$1,000..                         | 56,794                | <u>185</u>                         | (D)              | (D)                | 418                | 3,339              | 13,863               | 28,205               | 10,784               | -                        | -                        |
| Value added, adjusted.....do....              | 101,502               | <u>320</u>                         | (D)              | (D)                | 520                | 5,204              | 24,079               | 52,105               | 19,274               | -                        | -                        |
| Value of shipments.....do....                 | 155,658               | <u>544</u>                         | (D)              | (D)                | 850                | 7,672              | 41,358               | 77,712               | 27,522               | -                        | -                        |
| Capital expenditures, new...do....            | 2,442                 | <u>8</u>                           | (D)              | (D)                | 15                 | 637                | 394                  | 1,124                | 264                  | -                        | -                        |
| INDUSTRY 3262.—VITREOUS CHINA FOOD UTENSILS   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 31                    | 4                                  | 2                | 4                  | 3                  | 2                  | 6                    | 8                    | -                    | 2                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 6,314                 | 7                                  | <u>72</u>        | (D)                | <u>267</u>         | (D)                | 864                  | <u>5,104</u>         | -                    | (D)                      | -                        |
| Payroll.....\$1,000..                         | 29,552                | 11                                 | <u>299</u>       | (D)                | <u>964</u>         | (D)                | 3,585                | <u>24,693</u>        | -                    | (D)                      | -                        |
| Value added, adjusted.....do....              | 42,504                | 17                                 | <u>488</u>       | (D)                | <u>1,648</u>       | (D)                | 4,485                | <u>35,866</u>        | -                    | (D)                      | -                        |
| Value of shipments.....do....                 | 50,954                | 22                                 | <u>593</u>       | (D)                | <u>1,798</u>       | (D)                | 5,968                | <u>42,573</u>        | -                    | (D)                      | -                        |
| Capital expenditures, new...do....            | 724                   | <u>5</u>                           | (D)              | (D)                | <u>37</u>          | (D)                | 52                   | <u>630</u>           | -                    | (D)                      | -                        |
| INDUSTRY 3263.—FINE EARTHENWARE FOOD UTENSILS |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 21                    | -                                  | 1                | 2                  | 2                  | 1                  | 5                    | 5                    | 3                    | 2                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 7,349                 | -                                  | <u>182</u>       | (D)                | (D)                | (D)                | 819                  | 1,840                | <u>4,508</u>         | (D)                      | -                        |
| Payroll.....\$1,000..                         | 31,614                | -                                  | <u>656</u>       | (D)                | (D)                | (D)                | 3,577                | 7,992                | <u>19,389</u>        | (D)                      | -                        |
| Value added, adjusted.....do....              | 41,046                | -                                  | <u>769</u>       | (D)                | (D)                | (D)                | 4,444                | 10,618               | <u>25,215</u>        | (D)                      | -                        |
| Value of shipments.....do....                 | 59,046                | -                                  | <u>1,399</u>     | (D)                | (D)                | (D)                | 6,967                | 15,386               | <u>35,294</u>        | (D)                      | -                        |
| Capital expenditures, new...do....            | 797                   | -                                  | <u>66</u>        | (D)                | (D)                | (D)                | (D)                  | 342                  | <u>389</u>           | (D)                      | -                        |
| INDUSTRY 3264.—PORCELAIN ELECTRICAL SUPPLIES  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 79                    | 18                                 | 4                | 8                  | 13                 | 12                 | 13                   | 5                    | 5                    | 1                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 10,170                | 30                                 | 23               | 101                | 382                | 941                | 2,129                | 1,557                | <u>5,007</u>         | (D)                      | -                        |
| Payroll.....\$1,000..                         | 57,401                | 172                                | 94               | 445                | 1,977              | 4,210              | 11,661               | 7,808                | <u>31,034</u>        | (D)                      | -                        |
| Value added, adjusted.....do....              | 90,001                | 232                                | 109              | 561                | 3,062              | 7,120              | 18,318               | 14,065               | <u>46,534</u>        | (D)                      | -                        |
| Value of shipments.....do....                 | 131,790               | 324                                | 212              | 759                | 4,500              | 9,669              | 28,709               | 18,931               | <u>68,686</u>        | (D)                      | -                        |
| Capital expenditures, new...do....            | 4,142                 | 20                                 | 6                | 93                 | 223                | 341                | 684                  | 356                  | <u>2,419</u>         | (D)                      | -                        |
| INDUSTRY 3269.—POTTERY PRODUCTS, N.E.C.       |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 458                   | 223                                | 94               | 43                 | 58                 | 23                 | 13                   | 3                    | 1                    | -                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 9,085                 | 340                                | 622              | 590                | 1,902              | 1,585              | 2,164                | <u>1,882</u>         | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                         | 37,508                | 951                                | 1,997            | 2,194              | 7,644              | 6,278              | 8,280                | <u>10,164</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....              | 62,107                | 2,096                              | 3,699            | 4,183              | 12,556             | 10,579             | 13,103               | <u>15,891</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....                 | 95,541                | 3,070                              | 5,600            | 6,061              | 17,275             | 15,901             | 20,647               | <u>26,987</u>        | (D)                  | -                        | -                        |
| Capital expenditures, new...do....            | 3,064                 | 230                                | 335              | 173                | 812                | 245                | 575                  | <u>694</u>           | (D)                  | -                        | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

n.e.c. Not elsewhere classified.



TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                 | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B:C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |  | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3261      | Vitreous plumbing fixtures.....1963..    | 155,658            | 139,069          | 4,721              | 11,868                 | 97                                   | 143,762                            | 139,069               | 4,693                    | 97                            |
|           | 1958..                                   | 142,683            | 126,746          | 4,074              | 11,863                 | 97                                   | 130,517                            | 126,746               | 3,771                    | 97                            |
| 3262      | Vitreous china food utensils.....1963..  | 50,954             | 47,458           | (D)                | (D)                    | <sup>1</sup> 90                      | 51,887                             | 47,458                | 4,429                    | 91                            |
|           | 1958..                                   | 47,695             | 44,865           | 2,033              | 797                    | 96                                   | 46,908                             | 44,865                | 2,043                    | 96                            |
| 3263      | Fine earthenware food utensils....1963.. | 59,046             | 52,920           | 4,541              | 1,585                  | 92                                   | 58,231                             | 52,920                | 5,311                    | 91                            |
|           | 1958..                                   | 50,230             | 48,450           | 883                | 897                    | 98                                   | 53,456                             | 48,448                | 5,008                    | 91                            |
| 3264      | Porcelain electrical supplies....1963..  | 131,790            | 114,795          | 11,714             | 5,281                  | 91                                   | 121,472                            | 114,795               | 6,677                    | 95                            |
|           | 1958..                                   | 97,475             | 84,749           | 7,492              | 5,234                  | 92                                   | 91,097                             | 84,749                | 6,348                    | 93                            |
| 3269      | Pottery products, n.e.c.....1963..       | 95,541             | 72,657           | 10,613             | 12,271                 | 87                                   | 81,376                             | 72,657                | 8,719                    | 89                            |
|           | 1958 <sup>2</sup> .                      | 78,755             | 67,484           | 5,241              | 6,030                  | 93                                   | 74,981                             | 67,484                | 7,497                    | 90                            |

NOTE: See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>This is a minimum percentage. The exact percentage is withheld to avoid disclosing figures for individual companies.

<sup>2</sup>Does not include data for Alaska and Hawaii.





TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code                                   | Product  | 1963   |  |                               | 1958                                 |  |                      |
|--|--|--|--|-------------------------------|--------------------------------------|--|----------------------|
|  |  | Production for all purposes (number)                     | Total shipments including interplant transfers |                               | Production for all purposes (number) | Total shipments including interplant transfers |                      |
|  |  |  | Quantity (number)                              | Value (\$1,000)               |                                      | Quantity (number)                              | Value (\$1,000)      |
| 3261- --                                       | VITREOUS AND SEMIVITREOUS PLUMBING FIXTURES AND ACCESSORIES, TOTAL.....  | (X)  | (X)  | 143,762                       | (X)                                  | (X)  | 130,517              |
| 32610 11                                       | Plumbing fixtures:<br>Total as reported in the census of manufactures.....   | (X)  | (X)  | 136,996                       | (X)                                  | (X)  | 124,463              |
|  | Total as reported on Census Quarterly Form M34E <sup>1</sup> .....   | (X)  | (X)  | <sup>2</sup> 142,159          | (X)                                  | (X)  | <sup>2</sup> 124,522 |
| 32610 14                                       | Drinking fountains.....  | 50,546   | 50,978   | (X)                           | (X)                                  | 68,978   | (X)                  |
| 32610 16                                       | Lavatories.....  | 2,598,651  | 2,523,516                                      | (X)                           | (X)                                  | 2,179,706                                      | (X)                  |
|  | Water closet bowls:  |  |  |                               |                                      |  |                      |
| 32610 18                                       | Syphon jet.....  | 1,132,912  | 1,022,291                                      | (X)                           | (X)                                  | 484,436  | (X)                  |
| 32610 20                                       | Washdown.....  | 1,687,463  | 1,662,971                                      | (X)                           | (X)                                  | 1,813,522                                      | (X)                  |
| 32610 22                                       | Reverse trap.....  | 2,812,900  | 2,734,725                                      | (X)                           | (X)                                  | 1,938,405                                      | (X)                  |
| 32610 24                                       | Flush tanks.....   | 4,787,552  | 4,600,563                                      | (X)                           | (X)                                  | 3,639,123                                      | (X)                  |
| 32610 26                                       | Urinals.....   | 196,037  | 191,926  | (X)                           | (X)                                  | 157,186  | (X)                  |
| 32610 51                                       | China and earthenware plumbing fixture accessories and fittings (including towel racks, soap cups, etc.).....  | (X)  | (X)  | 6,100                         | (X)                                  | (X)  | 5,290                |
| 32610 00                                       | Vitreous and semivitreous plumbing fixtures and accessories, n.s.k.....  | (X)  | (X)  | 666                           | (X)                                  | (X)  | 764                  |
| Total shipments including interplant transfers |  |  |  |                               |                                      |  |                      |
|  |  | 1963   |  | 1958                          |                                      |  |                      |
|  |  | Quantity (1,000 dozen pieces)                            | Value (\$1,000)                                | Quantity (1,000 dozen pieces) | Value (\$1,000)                      |  |                      |
| 3262- --                                       | VITREOUS CHINA AND PORCELAIN TABLE AND KITCHEN ARTICLES, TOTAL   | (X)  | 51,887   | (X)                           | 46,908                               |  |                      |
|  | Tableware (for serving food and drink):  |  |  |                               |                                      |  |                      |
| 32620 18                                       | Hotel or commercial.....   | 6,682  | 33,827   | 6,151                         | 28,369                               |  |                      |
| 32620 14                                       | Household.....   |  |  |                               |                                      |  |                      |
| 32620 52                                       | Kitchenware, household and commercial (for cooking, preparing, and storing food or drink).....   | 1,130  | 17,712   | 1,238                         | 18,344                               |  |                      |
| 32620 00                                       | Vitreous china and porcelain table and kitchen articles, n.s.k....   | (X)  | 348  | (X)                           | 195                                  |  |                      |
| 3263- --                                       | EARTHENWARE (SEMIVITREOUS) TABLE AND KITCHEN ARTICLES, TOTAL..   | (X)  | 58,231   | (X)                           | 53,456                               |  |                      |
| 32630 12                                       | Tableware, household and commercial (for serving food and drink)..   | 28,160   | 56,671   | 21,292                        | 52,045                               |  |                      |
| 32630 52                                       | Kitchenware, household and commercial (for cooking, preparing, and storing food and drink).....  | 250  | 1,560  | 256                           | 1,080                                |  |                      |
| 32630 00                                       | Earthenware (semivitreous) table and kitchen articles, n.s.k.....  | -  | -  | (X)                           | 331                                  |  |                      |
| Product code                                   | Product  | Total shipments including interplant transfers (\$1,000) |  |                               |                                      |  |                      |
|  |  | 1963   |  | 1958                          |                                      |  |                      |
| 3264- --                                       | PORCELAIN, STEATITE, AND OTHER CERAMIC ELECTRICAL PRODUCTS, TOTAL.....   | <sup>3</sup> 121,472                                     |  | <sup>3</sup> 91,097           |                                      |  |                      |
|  | Porcelain electrical products (excluding steatite, alumina, ferrite, titanate, etc.):  |  |  |                               |                                      |  |                      |
|  | High-voltage porcelain products (wet process porcelain) shipped with integral hardware parts:  |  |  |                               |                                      |  |                      |
| 32640 12                                       | Low-voltage one-piece pintype insulators.....  | 3,068  |  | } 49,754                      |                                      |  |                      |
| 32640 13                                       | High-voltage pintype insulators.....   | 6,067  |  |                               |                                      |  |                      |
|  | Suspension type insulators:  |  |  |                               |                                      |  |                      |
| 32640 14                                       | 7 1/2-inch discs and smaller.....  | 6,307  |  |                               |                                      |  |                      |
| 32640 15                                       | Larger than 7 1/2-inch discs.....  | 11,195   |  |                               |                                      |  |                      |
| 32640 16                                       | Switch and bus insulators (include cap and pin, and post types).....   | 11,115   |  |                               |                                      |  |                      |
| 32640 17                                       | All other including guy strain insulators and spools.....  | 11,785   |  |                               |                                      |  |                      |
| 32640 18                                       | High voltage porcelain products (wet process porcelain), shipped without integral hardware parts   | 8,758  |  |                               |                                      |  |                      |
| 32640 21                                       | All standard dry process electrical porcelain, including cleats, knobs, tubes, outlet and switch box covers, etc.....  | 1,345  |  | 2,876                         |                                      |  |                      |
| 32640 31                                       | All special dry process electrical porcelain, including porcelain parts for wiring devices, fuses, circuit breakers, radio receiving sets, spark plugs, etc., and electrical refractory porcelain..... | 26,044   |  | 7,965                         |                                      |  |                      |
| 32640 41                                       | Steatite electrical products.....  | 15,635   |  | 8,603                         |                                      |  |                      |
| 32640 98                                       | Other ceramic electrical products, including alumina, ferrite (except for electronic applications applications), titanate, etc., electrical products.....  | 17,103   |  | 19,120                        |                                      |  |                      |
| 32640 00                                       | Porcelain electrical supplies, n.s.k.....  | 3,050  |  | 2,779                         |                                      |  |                      |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Total shipments including interplant transfers |                 |                               |                 |
|--------------|--|--|-----------------|-------------------------------|-----------------|
|              |  | 1963   |                 | 1958 <sup>4</sup>             |                 |
|              |  | Quantity (1,000 dozen pieces)                  | Value (\$1,000) | Quantity (1,000 dozen pieces) | Value (\$1,000) |
| 3269- --     | POTTERY PRODUCTS, N.E.C., TOTAL.....   | (X)  | 81,376          | (X)                           | 74,981          |
|              | Art, decorative and novelty pottery ware (including vases, lamp bases, figures, plaques, book ends, garden pottery, ash trays):    |  |                 |                               |                 |
| 32690 11     | China and porcelain.....   | (X)  | 15,112          | (X)                           | 12,342          |
| 32690 31     | Earthenware and stoneware.....   | (X)  | 21,215          | (X)                           | 18,429          |
| 32690 40     | Stoneware table and kitchen articles, household and commercial (for serving, cooking, preparing, and storing food and drinks)..... | 872  | 3,340           | (NA)                          | 3,126           |
|              | Other pottery products, n.e.c.:  |  |                 |                               |                 |
| 32690 61     | Chemical, technical and industrial pottery ware (including chemical stoneware and porcelain, pyrometric tubes, etc.).....          | (X)  | 18,487          | (X)                           | 9,309           |
| 32690 71     | Red unglazed earthenware (flower pots, etc.).....  | (X)  | 5,840           | (X)                           | 6,708           |
| 32690 81     | All other pottery products (including pyrometric cones, veritas rings, etc.).....  | (X)  | 2,795           | (X)                           | 2,531           |
| 32690 91     | China decorating for the trade.....  | (S)  | 6,511           | (NA)                          | 5,487           |
| 32690 00     | Pottery products, n.e.c., n.s.k.....   | (X)  | 8,066           | (X)                           | 17,049          |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.  
 (S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.  
<sup>1</sup>The source of the quantity data for codes 3261014-3261026 is Current Industrial Reports Series M34E(63)-5, Plumbing Fixtures. No separate quantity data for vitreous and semivitreous sinks, laundry trays, sink and laundry tray combinations, and other plumbing fixtures are available since these items were combined with similar items made of other materials in the M34E report.  
<sup>2</sup>Represents vitreous china only. In addition, shipments valued at \$2,398,000 in 1963 and \$2,236,000 in 1958 were reported for plumbing fixtures made of earthenware, concrete, and composition.  
<sup>3</sup>Includes value of metal fittings when shipped as an integral part of the ceramic product.  
<sup>4</sup>Does not include data for Alaska and Hawaii.

TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year   | Indexes (1954 = 100) |                  |
|--------------|--|----------------------|------------------|
|              |  | Production           | Unit value       |
| 326          | Pottery and related products.....1963..                                | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | .....1958..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 3261         | Vitreous and semivitreous plumbing fixtures and accessories.....1963.. | 140                  | 88               |
|              | .....1958..  | 110                  | 102              |
| 3262         | Vitreous china and porcelain table and kitchen articles.....1963..     | 90                   | 119              |
|              | .....1958..  | 88                   | 123              |
| 3263         | Earthenware (semivitreous) table and kitchen articles.....1963..       | 78                   | 106              |
|              | .....1958..  | 60                   | 127              |
| 3264         | Porcelain, steatite, and other ceramic electrical products.....1963..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | .....1958..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 3269         | Pottery products.....1963..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | .....1958..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |

<sup>1</sup>Not shown because comparable quantity data were not obtained for a significant portion of these products.



**TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963**

(In thousands of dollars)

| Code  | Product class  | 1963    | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958                | 1954    | 1947   |
|-------|--|---------|-------------------|-------------------|-------------------|-------------------|---------------------|---------|--------|
| 32610 | Vitreous and semivitreous plumbing fixtures..                          | 143,762 | 133,847           | 128,139           | 140,951           | 160,101           | 130,517             | 116,560 | 67,165 |
| 32620 | Vitreous china table and kitchen articles....                          | 51,887  | 47,750            | 45,070            | 49,569            | 46,748            | 46,908              | 43,295  | 42,783 |
| 32630 | Fine earthenware (semivitreous) table and kitchen articles.....        | 58,231  | (50,174)          | (49,449)          | (60,206)          | (62,673)          | 53,456              | 71,706  | 68,144 |
| 32640 | Porcelain, steatite and other electrical products <sup>2</sup> .....   | 121,472 | 119,833           | 113,295           | 109,503           | 108,516           | 91,097              | 83,928  | 68,312 |
| 32690 | Pottery products, including china decorating for the trade, n.e.c..... | 81,376  | 77,657            | 73,356            | 76,777            | 78,053            | <sup>3</sup> 74,981 | 61,899  | 53,961 |

n.e.c. Not elsewhere classified.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Includes value of metal fittings when shipped as an integral part.

<sup>3</sup>Does not include data for Alaska and Hawaii.

**TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963**

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area | Value of shipments | Product class and geographic area          | Value of shipments | Product class and geographic area          | Value of shipments |
|-----------------------------------|--------------------|--|--------------------|--|--------------------|
| POTTERY PRODUCTS, N.E.C. (32690)  | 1963 <sup>1</sup>  | POTTERY PRODUCTS, N.E.C. (32690)—Continued | 1963 <sup>1</sup>  | POTTERY PRODUCTS, N.E.C. (32690)—Continued | 1963 <sup>1</sup>  |
| United States, total....          | 81,376             | East North Central.....                    | 29,114             | East South Central.....                    | 5,176              |
| New England.....                  | 1,782              | Ohio.....                                  | 15,369             | Kentucky.....                              | 2,367              |
| Middle Atlantic.....              | 17,132             | Illinois.....                              | 11,216             | Tennessee.....                             | 2,746              |
| New York.....                     | 2,917              | West North Central.....                    | 1,487              | West South Central.....                    | 1,698              |
| New Jersey.....                   | 6,236              | South Atlantic.....                        | 2,536              | Texas.....                                 | 1,227              |
| Pennsylvania.....                 | 7,979              |  |                    | West.....                                  | 22,451             |
|                                   |                    |  |                    | California.....                            | 14,953             |

n.e.c. Not elsewhere classified.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 32690, Michigan and Colorado.

TABLE 7A. Materials by Kind: 1963

| Code   | Material  | 1963     |                             |
|--|---|----------|-----------------------------|
|  |   | Quantity | Delivered cost<br>(\$1,000) |
| INDUSTRY 3261.—VITREOUS<br>PLUMBING FIXTURES     |   |          |                             |
|  | Materials, parts, containers, and supplies, total <sup>1</sup> .....              | (X)      | 240,928                     |
| 325501   | Clay refractories.....  | (S)      | 4,630                       |
| 329701   | Nonclay refractories.....   | (S)      | 1,491                       |
| 265011   | Paperboard boxes and containers, including folding, corrugated, and set-up.....   | (X)      | 5,460                       |
| 970099   | All other materials and components, parts, containers, and supplies consumed..... | (X)      | 229,347                     |
| INDUSTRY 3263.—FINE EARTHENWARE<br>FOOD UTENSILS |   |          |                             |
|  | Materials, parts, containers, and supplies, total <sup>1</sup> .....              | (X)      | 214,584                     |
| 265011   | Paperboard boxes and containers, including folding, corrugated, and set-up.....   | (X)      | 3,005                       |
| 970099   | All other materials and components, parts, containers, and supplies consumed..... | (X)      | 211,143                     |
| 976000   | Materials, parts, containers, and supplies, n.s.k.....                            | (X)      | 436                         |
| INDUSTRY 3264.—PORCELAIN<br>ELECTRICAL SUPPLIES  |   |          |                             |
|  | Materials, parts, containers, and supplies, total <sup>1</sup> .....              | (X)      | 33,845                      |
| 325501   | Clay refractories.....  | (X)      | 3,690                       |
| 329701   | Nonclay refractories.....   | (S)      | 1,780                       |
| 265011   | Paperboard boxes and containers, including folding, corrugated, and set-up.....   | (X)      | 1,496                       |
| 970099   | All other materials and components, parts, containers, and supplies consumed..... | (X)      | 22,289                      |
| 976000   | Materials, parts, containers, and supplies, n.s.k.....                            | (X)      | 24,590                      |
| INDUSTRY 3269.—POTTERY<br>PRODUCTS, N.E.C.       |   |          |                             |
|  | Materials, parts, containers, and supplies, total <sup>1</sup> .....              | (X)      | 24,397                      |
| 325501   | Clay refractories.....  | (S)      | 1,502                       |
| 329701   | Nonclay refractories.....   | (S)      | 1,207                       |
| 265011   | Paperboard boxes and containers, including folding, corrugated, and set-up.....   | (X)      | 2,166                       |
| 970099   | All other materials and components, parts, containers, and supplies consumed..... | (X)      | 10,992                      |
| 976000   | Materials, parts, containers, and supplies, n.s.k.....                            | (X)      | 8,530                       |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Net applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.  
(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>Costs are not available in comparable detail for 1958.

<sup>2</sup>Includes cost of contract work to avoid disclosing figures of individual companies.

<sup>3</sup>Represents (a) total cost of materials for small establishments reporting on "short form" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for these establishments which failed to report costs of individual materials on "standard forms."



**TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962**

| Item  | Vitreous plumbing fixtures (SIC 3261) | Vitreous china food utensils (SIC 3262) | Fine earthenware food utensils (SIC 3263) | Porcelain electrical supplies (SIC 3264) | Pottery products, n.e.c. (SIC 3269) |
|---|---------------------------------------|---|---|--|-------------------------------------|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 4,496                                 | 1,611                                   | 2,101                                     | 2,997                                    | 2,613                               |
| Total cost of purchased fuels.....do....  | 3,219                                 | 1,208                                   | 1,546                                     | 1,895                                    | 1,911                               |
| Bituminous coal, lignite, and anthracite:   |                                       |   |   |  |                                     |
| Quantity.....1,000 short tons..   | 45                                    | (S)                                     | (S)                                       | 36                                       | -                                   |
| Cost.....\$1,000..  | 382                                   | (S)                                     | (S)                                       | 299                                      | -                                   |
| Coke and breeze:  |                                       |   |   |  |                                     |
| Quantity.....1,000 short tons..   | -                                     | -                                       | -   | -  | -                                   |
| Cost.....\$1,000..  | -                                     | -                                       | -   | -  | -                                   |
| Fuel oil (distillate and residual):   |                                       |   |   |  |                                     |
| Quantity.....1,000 barrels of 42 gallons..  | 147                                   | (S)                                     | (S)                                       | 83                                       | (S)                                 |
| Cost.....\$1,000..  | 476                                   | (S)                                     | (S)                                       | 297                                      | (S)                                 |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |                                       |   |   |  |                                     |
| Quantity.....million cu.ft..  | 4,285                                 | 1,729                                   | 2,260                                     | 2,060                                    | 2,262                               |
| Cost.....\$1,000..  | 2,088                                 | 1,060                                   | 1,275                                     | 1,246                                    | 1,403                               |
| Other fuels.....do....  | 273                                   | (S)                                     | (S)                                       | 53                                       | 219                                 |
| Electric energy:  |                                       |   |   |  |                                     |
| Purchased:  |                                       |   |   |  |                                     |
| Quantity.....million kw.-hrs..  | 108                                   | 30                                      | 41  | 94                                       | 43                                  |
| Cost.....\$1,000..  | 1,277                                 | 403                                     | 555                                       | 1,102                                    | 702                                 |
| Generated less sold.....million kw.-hrs..   | (S)                                   | (S)                                     | -   | 6  | -                                   |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 46                                    | 14                                      | 14  | 51                                       | 23                                  |
| Prime movers, total.....do....  | 8                                     | 2                                       | (Z)                                       | 4  | 3                                   |
| Driving generators.....do....   | 2                                     | 2                                       | (Z)                                       | 1  | 1                                   |
| Not driving generators.....do....   | 6                                     | -                                       | (Z)                                       | 3  | 2                                   |
| Electric motors, total.....do....   | 38                                    | 14                                      | 14  | 50                                       | 20                                  |
| Driven by purchased energy.....do....   | 38                                    | 11                                      | 14  | 46                                       | 20                                  |
| Driven by energy generated at establishment.....do....  | (Z)                                   | 2                                       | -   | 4  | -                                   |
| Aggregate horsepower per 100 production workers.....  | 626                                   | 254                                     | 235                                       | 635                                      | 275                                 |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3269-                          | POTTERY PRODUCTS, N.E.C.                               |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....                                   | 458                     | 9,085          | 37,508            | 7,539              | 14,920            | 27,805          | 62,107   | 34,145                      | 95,541                       | 3,064                               |
|                                | Establishments with--<br>90% or more specialization..  | 435                     | 6,791          | 24,791            | 5,960              | 11,437            | 19,785          | 41,608   | 19,408                      | 60,524                       | 2,086                               |

n.e.c. Not elsewhere classified.





## CONCRETE, PLASTER, AND CUT STONE PRODUCTS

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3271--Concrete Brick and Block
- 3272--Concrete Products, Except Block and Brick
- 3273--Ready Mixed Concrete
- 3274--Lime
- 3275--Gypsum Products
- 3281--Cut Stone and Stone Products

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3271--CONCRETE BRICK AND BLOCK

This industry comprises establishments primarily engaged in manufacturing concrete building blocks and brick from a combination of cement and aggregate. Contractors engaged in concrete construction work are classified in the construction industries, and building materials dealers primarily engaged in mixing and delivering ready mixed concrete, in industry 3273. For a detailed list of products of industry 3271, refer to table 6A, product codes 3271011 to 3271000.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Concrete Block and Brick Industry totaled \$505 million. This amount included shipments of concrete block and brick (primary products) valued at \$395 million, shipments of other products (secondary products) valued at \$36 million, and miscellaneous receipts, at \$74 million.

This industry's shipments of concrete block and brick represented 92 percent of its total product shipments. Secondary products shipped by this industry in 1963 consisted mainly of precast concrete products, \$13 million, and ready mixed concrete, \$11 million.

Shipments of concrete block and brick by this industry represented 84 percent of all shipments of these products (\$472 million) by all industries. Other industries shipping

concrete block and brick (primary products) consisted mainly of industry 3273, Ready Mixed Concrete, \$53 million, and industry 3272, Concrete Products, \$22 million.

The production index for the primary products of the industry increased to 121 in 1963 from the 1958 level of 101. The unit value index for 1963 was 111. Both indexes were computed on a basis of 1954 = 100.

#### 3272—CONCRETE PRODUCTS, EXCEPT BLOCK AND BRICK

This industry comprises establishments primarily engaged in manufacturing concrete products, except block and brick, from a combination of cement and aggregate. Contractors engaged in concrete construction work are classified in the construction industries and building materials dealers primarily engaged in mixing and delivering ready mixed concrete in industry 3273. For a detailed list of products of industry 3272, refer to table 6A, product codes 3272107 to 3272000.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Concrete Products Industry totaled \$926 million. This amount included shipments of concrete products (primary products) valued at \$807 million, shipments of other products (secondary products) valued at \$48 million, and miscellaneous receipts, at \$71 million.

This industry's shipments of concrete products represented 94 percent of its total product shipments. Secondary products shipped by this industry consisted mainly of concrete brick and block, \$22 million, and ready mixed concrete, \$10 million.

Shipments of concrete products by this industry represented 94 percent of all shipments of these products (\$862 million) by all industries. Other industries shipping concrete products (primary products) consisted mainly of industry 3271, Concrete Block and Brick, \$20 million, and industry 3273, Ready Mixed Concrete, \$24 million.

#### 3273—READY MIXED CONCRETE

This industry comprises establishments primarily engaged in manufacturing Portland cement concrete, manufactured and delivered to a purchaser in a plastic and unhardened state. This industry includes production and sale of central mixed concrete, shrink mixed concrete and transit mixed concrete.

The Ready Mixed Concrete Industry was included for the first time in the census of manufactures for 1958. No comparable figures are available for years prior to 1958. For detailed data on products of industry 3273, refer to table 6A, product code 3273011.

Value of shipments and other receipts of the Ready Mixed Concrete Industry totaled \$2,293 million. This amount included shipments of ready mixed concrete (primary products) valued at \$1,924 million, shipments of other products (secondary products) valued at \$173 million, and miscellaneous receipts, at \$195 million.

This industry's shipments of ready mixed concrete represented 92 percent of its total product shipments. Secondary products shipped by this industry consisted mainly of common sand and gravel, \$53 million, and concrete block and brick, \$53 million.

Shipments of ready mixed concrete by this industry represented 98 percent of all shipments of these products (\$1,971 million) by all industries. Other industries shipping ready mixed concrete consisted mainly of industry 3271, Concrete Block and Brick, \$11 million, and industry 3272, Concrete Products, \$10 million.



The production index for the primary products of the industry increased to 182 in 1963 from the 1958 level of 144. The unit value index for 1963 was 119 compared to 112 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3274--LIME

This industry comprises establishments primarily engaged in manufacturing quicklime, hydrated lime, and dead burned dolomite from limestone, dolomite shells, or other substances. For a detailed list of products of industry 3274, refer to table 6A, products codes 3274011 to 3274000.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Lime Industry totaled \$164 million. This amount included shipments of lime (primary products) valued at \$129 million, shipments of other products (secondary products) valued at \$28 million, and miscellaneous receipts at \$8 million.

This industry's shipments of lime represented 82 percent of its total product shipments. The industry specialization ratio in 1958 was 83 percent. Secondary products shipped by this industry in 1963 consisted mainly of crushed and broken limestone, \$17 million.

Shipments of lime by this industry represented 94 percent of all shipments of these products (\$137 million) by all industries. In 1958, the coverage ratio was 95 percent.

The production index for the primary products of the industry increased to 123 in 1963 from the 1958 level of 111. The unit value index for 1963 was 119 compared to 108 in 1958. Both indexes were computed on a basis of 1954 = 100.

In its annual report, Minerals Yearbook, the U.S. Department of the Interior, Bureau of Mines, publishes detailed figures on the products listed in table 6A of this report. The variations between Bureau of Mines summary totals and the data appearing in this report are due to (1) inclusion of cost of containers and interplant transfers in Census Bureau figures and (2) differences in the reports submitted to the two agencies by individual companies.

#### 3275--GYPSUM PRODUCTS

This industry comprises establishments primarily engaged in manufacturing plaster, plasterboard, and other products composed wholly or chiefly of gypsum. For a detailed list of products of industry 3275, refer to table 6A, product codes 3275111 to 3275000.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Gypsum Products Industry totaled \$425 million. This amount included shipments of gypsum products (primary products) valued at \$396 million, shipments of other products (secondary products) valued at \$13 million, and miscellaneous receipts at \$17 million.

This industry's shipments of gypsum products represented 97 percent of its total product shipments. The industry specialization ratio in 1958 was 95 percent.

Shipments of gypsum products by this industry represented 98 percent of all shipments of these products (\$405 million) by all industries. In 1958, the coverage ratio was also 98 percent.

The U.S. Department of the Interior, Bureau of Mines, in its annual Minerals Yearbook publishes more detailed data on the production, shipment, and consumption of gypsum and gypsum products. The variation between the two sets of data is due primarily to (1) inclusion of cost of containers and interplant transfers in Census Bureau figures and (2) differences in the reports from individual companies submitted to the two agencies.

#### 3281--CUT STONE AND STONE PRODUCTS

This industry comprises establishments primarily engaged in cutting, shaping, and finishing marble, granite, slate, and other stone for building and miscellaneous uses. Establishments primarily engaged in buying or selling partly finished monuments and tombstones, but performing no work on the stones other than lettering, finishing, or shaping to custom order, are classified in trade industries. The cutting of grindstones, pulpstones, and whetstones at the quarry is classified in mining industries. For a detailed list of products of industry 3281, refer to table 6A, product codes 3281111 to 3281000.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Cut Stone and Stone Products Industry totaled \$217 million. This amount included shipments of cut stone and stone products (primary products) valued at \$190 million, shipments of other products (secondary products) valued at \$12 million, and miscellaneous receipts (mainly resales), at \$15 million.

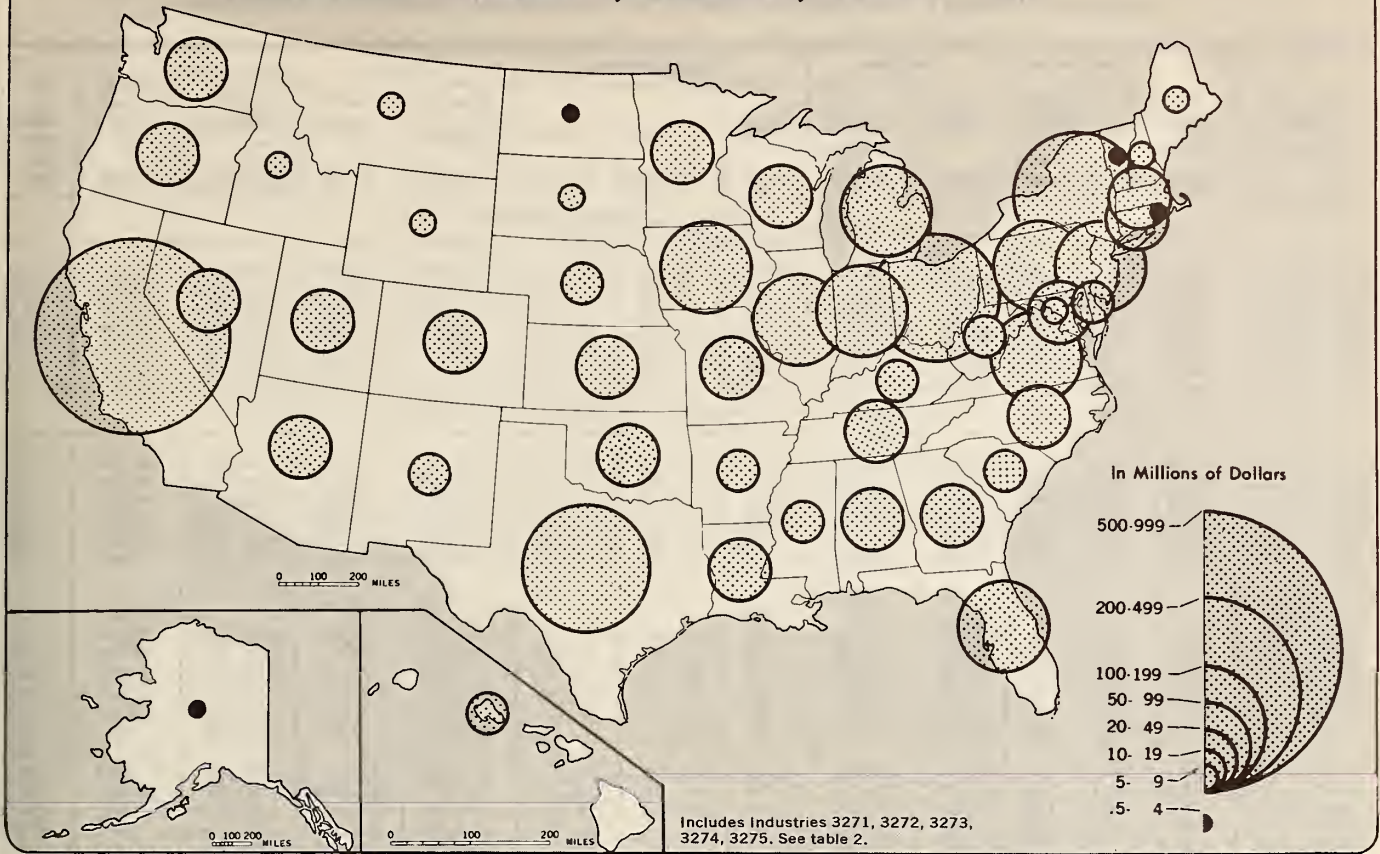
This industry's shipments of cut stone and stone products represented 94 percent of its total product shipments. The industry specialization ratio in 1958 was 95 percent. Secondary products shipped by this industry in 1963 consisted mainly of other rough dimension stone, \$3 million, and rough dimension limestone, \$2 million.

Shipments of cut stone and stone products by this industry represented 99 percent of all shipments of these products (\$191 million) by all industries. In 1958 the coverage ratio was 97 percent.



# CONCRETE AND PLASTER PRODUCTS: SIC 327

Value Added by Manufacture by State: 1963



# CUT STONE AND STONE PRODUCTS: SIC 328

Value Added by Manufacture by State: 1963

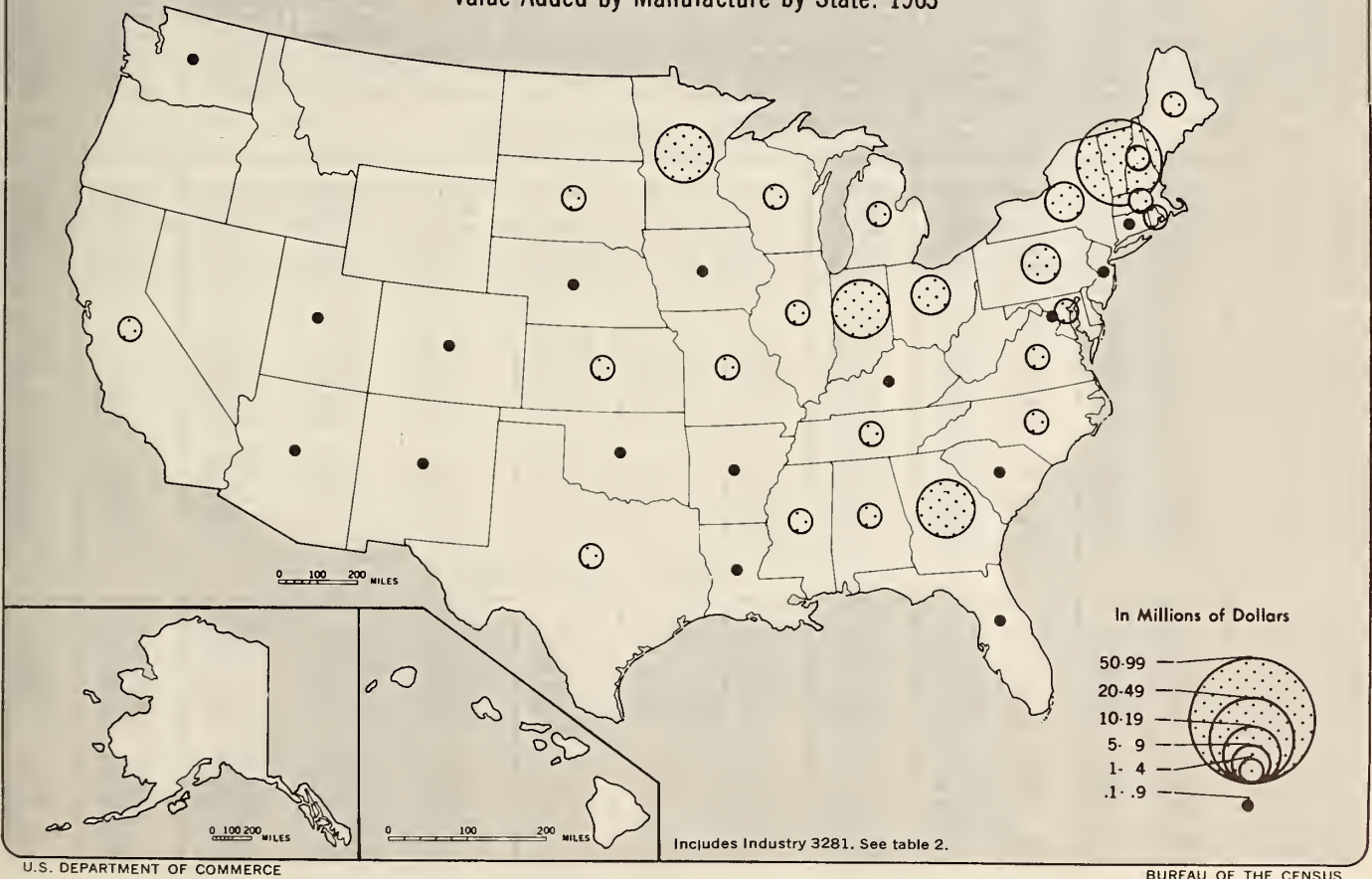


TABLE 1. General Statistics: 1963 and Earlier Years

| Year                                    | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Speci-<br>alization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|--|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |  |  |
| INDUSTRY 3271.—CONCRETE BLOCK AND BRICK |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963.....                               | 1,786                      | 1,841             | 367  | 23,759            | 119,543              | 16,702             | 36,081               | 72,748             | 245,525  | 262,765                           | 505,194                            | 31,143  | 92   | 84                                       |
| 1962 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 22,282            | 110,662              | 16,234             | 37,437               | 67,431             | 215,265  | 243,604                           | 459,135                            | 20,512  | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 23,201            | 110,571              | 16,957             | 37,749               | 67,047             | 214,388  | 247,721                           | 460,687                            | 21,171  | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 23,906            | 111,787              | 17,574             | 38,120               | 68,138             | 212,391  | 246,843                           | 457,423                            | 24,757  | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 23,517            | 106,124              | 17,381             | 37,386               | 66,368             | 221,416  | 240,204                           | 458,782                            | 22,921  | (NA)   | (NA)                                     |
| 1958 <sup>2</sup> .....                 | 1,763                      | 1,796             | 336  | 22,766            | 98,103               | 16,404             | 32,933               | 61,292             | 190,355  | 224,333                           | 413,670                            | 22,790  | 90   | 83                                       |
| INDUSTRY 3272.—OTHER CONCRETE PRODUCTS  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963.....                               | 3,130                      | 3,451             | 716  | 52,297            | 266,706              | 41,093             | 87,256               | 190,945            | 539,967  | 387,389                           | 925,677                            | 43,550  | 94   | 94                                       |
| 1962 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 49,322            | 241,822              | 39,331             | 85,582               | 173,417            | 499,465  | 373,454                           | 871,625                            | 36,824  | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 47,939            | 222,905              | 38,069             | 83,145               | 156,310            | 470,871  | 354,891                           | 822,442                            | (36,258)  | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 48,637            | 222,384              | 39,023             | (85,637)             | 157,486            | 460,181  | 366,627                           | 822,538                            | 32,308  | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 47,163            | 211,791              | 38,021             | 79,284               | 150,895            | 438,281  | 358,595                           | 795,168                            | 38,884  | (NA)   | (NA)                                     |
| 1958 <sup>2</sup> .....                 | 3,190                      | 3,461             | 619  | 46,283            | 200,231              | 36,267             | 73,567               | 141,575            | 391,366  | 332,224                           | 720,111                            | 44,310  | 94   | 94                                       |
| Sum of above<br>industries:             |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1958 <sup>3</sup> (old).....            | 4,947                      | 5,251             | 952  | 68,948            | 297,986              | 52,587             | 106,869              | 202,611            | 580,733  | 555,858                           | 1,132,213                          | 70,072  | (NA)   | (NA)                                     |
| 1957 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 69,866            | 271,692              | 53,667             | 111,183              | 184,923            | 660,042  | 503,591                           | 1,071,914                          | 48,389  | (NA)   | (NA)                                     |
| 1956 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 69,986            | 266,468              | 54,248             | 114,030              | 183,035            | 674,878  | 427,210                           | 1,071,511                          | 51,772  | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 66,270            | 238,286              | 51,680             | 106,210              | 163,387            | 507,748  | 392,214                           | 867,371                            | 47,155  | (NA)   | (NA)                                     |
| 1954.....                               | 4,879                      | 5,090             | 774  | 60,410            | 216,954              | 46,659             | 96,707               | 146,075            | 418,569  | 399,643                           | 813,230                            | 40,548  | 99   | 99                                       |
| 1953 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 59,200            | 208,016              | 47,725             | 99,961               | 150,446            | 398,552  | 309,833                           | 708,385                            | (NA)  | (NA)   | (NA)                                     |
| 1952 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 66,444            | 222,674              | 53,526             | 116,729              | 169,591            | 432,615  | 358,681                           | 791,296                            | (NA)  | (NA)   | (NA)                                     |
| 1951 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 65,107            | 210,116              | 51,676             | 115,299              | 155,122            | 413,074  | 321,429                           | 734,503                            | (NA)  | (NA)   | (NA)                                     |
| 1950 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 60,886            | 175,879              | 48,658             | 104,064              | 130,125            | 336,064  | 270,611                           | 606,677                            | (NA)  | (NA)   | (NA)                                     |
| 1949 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 53,787            | 136,723              | 44,293             | 94,764               | 102,734            | 245,290  | 219,324                           | 464,614                            | (NA)  | (NA)   | (NA)                                     |
| 1947.....                               | (NA)                       | 6,158             | 513  | 46,821            | 106,484              | 41,537             | 89,031               | 88,471             | 202,789  | 126,945                           | 329,734                            | 35,692  | 99   | 99                                       |
| 1939.....                               | (NA)                       | 1,892             | (NA)   | (NA)              | (NA)                 | 15,455             | (NA)                 | 16,324             | 55,372   | 48,188                            | 103,560                            | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3273.—READY MIXED CONCRETE     |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963.....                               | 3,999                      | 4,621             | 1,021  | 71,523            | 410,539              | 46,110             | 96,228               | 244,955            | 981,997  | 1,308,030                         | 2,292,504                          | 106,010   | 92   | 98                                       |
| 1962 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | (66,725)          | (381,693)            | (48,045)           | (99,223)             | (245,317)          | 786,540  | 1,160,341                         | 1,953,719                          | 91,486  | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | (65,339)          | (360,754)            | (45,836)           | (96,252)             | (228,460)          | 751,644  | 1,137,181                         | 1,889,266                          | 75,910  | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | (64,829)          | (344,471)            | (46,751)           | (96,864)             | (214,293)          | 770,850  | 1,101,071                         | 1,869,059                          | 70,315  | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | (67,648)          | (345,075)            | (47,956)           | (96,174)             | (215,091)          | 770,193  | 1,134,484                         | 1,903,000                          | 83,129  | (NA)   | (NA)                                     |
| 1958 <sup>4</sup> .....                 | 3,130                      | 3,657             | 949  | 62,116            | 303,111              | 44,203             | 88,351               | 201,971            | 679,385  | 1,008,814                         | 1,687,151                          | 71,603  | 92   | 97                                       |
| INDUSTRY 3274.—LIME                     |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963.....                               | 81                         | 125               | 68   | 6,778             | 38,903               | 5,384              | 11,366               | 28,519             | 95,135   | 69,011                            | 164,366                            | 14,730  | 82   | 94                                       |
| 1962 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 6,922             | 38,624               | 5,656              | 11,432               | 29,219             | 96,795   | 60,282                            | 155,901                            | (11,964)  | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 7,200             | 38,253               | 5,956              | 11,767               | 28,715             | 99,689   | 58,284                            | 156,970                            | 7,019   | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 7,566             | 39,032               | 6,153              | 12,398               | 29,095             | 97,827   | 60,113                            | 156,729                            | (12,052)  | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 7,362             | 36,298               | 6,234              | 13,083               | 28,126             | 91,702   | 65,587                            | 157,666                            | (12,663)  | (NA)   | (NA)                                     |
| 1958.....                               | 95                         | 137               | 76   | 7,185             | 32,754               | 6,098              | 12,509               | 25,521             | 73,597   | 57,514                            | 130,948                            | 6,362   | 83   | 95                                       |
| 1957 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 8,309             | 38,552               | 7,053              | 15,431               | 31,034             | 85,512   | 73,859                            | 158,115                            | (S)   | 89   | 98                                       |
| 1956 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 8,344             | 36,950               | 7,139              | 15,701               | 29,850             | 82,011   | 68,631                            | 150,169                            | (S)   | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 8,261             | 33,514               | 7,084              | 15,380               | 27,153             | 78,644   | 58,500                            | 135,189                            | (S)   | (NA)   | (NA)                                     |
| 1954.....                               | 113                        | 145               | 81   | 7,989             | 30,645               | 6,835              | 14,456               | 24,454             | 57,986   | 54,868                            | 112,854                            | 4,835   | 84   | 97                                       |
| 1953 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 7,935             | 30,788               | 6,773              | 14,744               | 24,886             | 63,416   | 54,187                            | 117,603                            | (NA)  | (NA)   | (NA)                                     |
| 1952 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 8,045             | 26,591               | 6,903              | 14,791               | 21,151             | 54,943   | 49,682                            | 104,625                            | (NA)  | (NA)   | (NA)                                     |
| 1951 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 7,933             | 26,302               | 6,773              | 15,539               | 21,186             | 55,863   | 49,383                            | 105,246                            | (NA)  | (NA)   | (NA)                                     |
| 1950 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 7,316             | 23,011               | 6,335              | 14,023               | 18,607             | 48,370   | 42,753                            | 91,105                             | (NA)  | (NA)   | (NA)                                     |
| 1949 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 7,514             | 21,451               | 6,336              | 13,777               | 17,129             | 40,705   | 42,365                            | 83,070                             | (NA)  | (NA)   | (NA)                                     |
| 1947.....                               | (NA)                       | 172               | 94   | 7,009             | 18,767               | 6,129              | 14,200               | 15,516             | 39,253   | 33,589                            | 72,842                             | 10,745  | 93   | 97                                       |
| 1939.....                               | (NA)                       | 316               | (NA)   | (NA)              | (NA)                 | 6,708              | (NA)                 | 6,688              | 18,574   | 24,901                            | 43,475                             | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3275.—GYPSUM PRODUCTS          |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963.....                               | 60                         | 122               | 72   | 11,491            | 70,335               | 9,216              | 20,766               | 54,455             | 259,659  | 164,445                           | 425,108                            | 15,201  | 97   | 98                                       |
| 1962 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 11,883            | 68,127               | 9,520              | 20,675               | 51,940             | 242,248  | 164,963                           | 406,356                            | 32,200  | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 11,465            | 63,578               | 9,187              | 19,875               | 48,289             | 224,654  | 154,180                           | 375,167                            | 25,184  | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 12,229            | 64,562               | 9,774              | 21,029               | 48,996             | 228,505  | 157,303                           | 382,087                            | 25,214  | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 12,301            | 65,890               | 10,089             | 22,606               | 52,085             | 241,017  | 170,986                           | 410,569                            | 21,977  | (NA)   | (NA)                                     |
| 1958.....                               | 74                         | 126               | 63   | 11,502            | 57,978               | 9,447              | 20,606               | 45,412             | 218,042  | 146,609                           | 364,947                            | 12,095  | 95   | 98                                       |
| 1957 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 11,181            | 54,251               | 9,243              | 20,617               | 43,064             | 181,900  | 126,962                           | 305,244                            | 12,181  | 99   | 98                                       |
| 1956 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 12,388            | 57,823               | 10,419             | 23,334               | 46,360             | 192,324  | 138,875                           | 324,983                            | 38,966  | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 12,060            | 56,555               | 10,252             | 24,304               | 46,520             | 193,971  | 139,354                           | 329,869                            | 38,698  | (NA)   | (NA)                                     |
| 1954.....                               | 48                         | 90                | 56   | 10,966            | 48,639               | 9,278              | 21,927               | 39,715             | 165,271  | 130,326                           | 295,564                            | 10,227  | 95   | 98                                       |
| 1953 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 9,901             | 43,174               | 8,068              | 19,472               | 33,453             | 138,311  | 114,991                           | 253,302                            | (NA)  | (NA)   | (NA)                                     |
| 1952 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 8,586             | 35,811               | 7,160              | 18,123               | 29,401             | 119,883  | 103,650                           | 223,533                            | (NA)  | (NA)   | (NA)                                     |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3275.—GYPSUM PRODUCTS—Continued    |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1951 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 9,646             | 37,133               | 8,332              | 19,235               | 29,578             | 120,944  | 113,022                           | 233,966                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 8,979             | 33,378               | 7,979              | 19,630               | 28,684             | 124,070  | 79,514                            | 203,584                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 8,720             | 27,341               | 7,438              | 16,788               | 21,469             | 92,203   | 74,573                            | 166,776                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                   | (NA)                       | 73                | 50   | 7,472             | 21,384               | 6,543              | 15,552               | 17,911             | 67,879   | 59,664                            | 127,543                            | 24,386  | 97  | 98                                       |
| 1939.....                                   | (NA)                       | 68                | (NA)   | 5,863             | 8,541                | 4,936              | (NA)                 | 6,666              | 29,548   | 16,694                            | 46,242                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                   | (NA)                       | 79                | (NA)   | 5,859             | 8,016                | 5,207              | (NA)                 | 6,591              | 25,936   | 16,681                            | 42,617                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                   | (NA)                       | 72                | (NA)   | 3,894             | 4,513                | 3,382              | (NA)                 | 3,444              | 17,367   | 8,921                             | 26,288                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3281.—CUT STONE AND STONE PRODUCTS |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 857                        | 893               | 211  | 18,340            | 85,745               | 15,259             | 30,896               | 66,657             | 131,465  | 86,633                            | 217,176                            | 6,693   | 94  | 99                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | (21,296)          | (93,668)             | (17,678)           | (36,500)             | (75,484)           | (150,327)  | (84,314)                          | (232,114)                          | (4,912)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | (21,860)          | (93,559)             | (18,127)           | (37,048)             | (75,115)           | (149,303)  | (83,794)                          | (228,973)                          | (5,458)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 19,456            | 82,460               | 16,067             | 31,837               | 64,784             | 134,328  | 82,196                            | 215,790                            | (3,379)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 19,679            | 81,425               | 16,423             | 32,951               | 61,679             | 131,647  | 79,781                            | 211,506                            | (5,439)   | (NA)  | (NA)                                     |
| 1958.....                                   | 959                        | 1,001             | 243  | 20,348            | 83,038               | 16,995             | 33,056               | 63,818             | 129,038  | 77,072                            | 206,264                            | 8,405   | 95  | 97                                       |
| 1957 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 21,329            | 83,311               | 18,324             | 35,115               | 63,899             | 140,166  | 76,947                            | 215,419                            | (S)   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 22,082            | 84,759               | 19,206             | 37,672               | 66,046             | 141,219  | 76,102                            | 212,691                            | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 22,295            | 82,235               | 19,530             | 37,752               | 64,481             | 137,788  | 70,532                            | 206,158                            | (S)   | (NA)  | (NA)                                     |
| 1954 <sup>5</sup> .....                     | 961                        | 977               | 239  | 21,576            | 78,240               | 18,410             | 36,721               | 60,650             | 121,465  | 70,144                            | 191,494                            | 4,296   | 93  | 99                                       |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1954 excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1954 excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>A revision in the definition of this industry was introduced in the 1957 standard industrial classification so that data for the industry prior to 1958 are not directly comparable. Industry 3271, Concrete Block and Brick, and industry 3272, Other Concrete Products, comprised one industry prior to 1958.

<sup>3</sup>Industries 3271 and 3272 were a single industry in 1957 and earlier years. They are shown combined for 1958 so that historical data may be presented. Data for Alaska and Hawaii are not included.

<sup>4</sup>The Ready Mixed Concrete Industry was included for the first time in the 1958 Census of Manufactures. No comparable figures are available for earlier years.

<sup>5</sup>Data for earlier years not comparable because dressing plants operated in conjunction with quarries were not included.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>            | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3271.—CONCRETE BLOCK AND BRICK |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                              | 1,841          | 367                                | 23,759         | 119,543           | 16,702             | 36,081            | 72,748          | 245,525                              | 262,765           | 505,194            | 31,143                    | 22,766           | 190,355                              |
| New England.....                        | 92             | 14                                 | 1,179          | 7,405             | 825                | 1,859             | 4,356           | 13,387                               | 10,930            | 24,221             | 1,832                     | 1,058            | 9,516                                |
| Massachusetts....                       | 39             | 4                                  | 429            | 2,586             | 308                | 691               | 1,662           | 5,625                                | 4,480             | 10,067             | 1,088                     | 492              | 4,914                                |
| Middle Atlantic....                     | 306            | 71                                 | 4,522          | 24,377            | 3,234              | 7,060             | 15,638          | 46,559                               | 58,391            | 104,480            | 7,701                     | 4,471            | 39,342                               |
| New York.....                           | 90             | 24                                 | 1,466          | 9,688             | 976                | 2,204             | 5,747           | 17,533                               | 19,205            | 36,461             | 3,913                     | 1,522            | 14,599                               |
| New Jersey.....                         | 68             | 17                                 | 1,068          | 5,649             | 776                | 1,701             | 3,732           | 12,562                               | 15,981            | 28,404             | 1,476                     | 1,045            | 10,184                               |
| Pennsylvania....                        | 148            | 30                                 | 1,988          | 9,040             | 1,482              | 3,155             | 6,159           | 16,464                               | 23,205            | 39,615             | 2,312                     | 1,904            | 14,559                               |
| East North Central.                     | 455            | 67                                 | 5,137          | 28,313            | 3,554              | 7,474             | 16,691          | 58,539                               | 62,986            | 120,747            | 7,332                     | 5,286            | 46,012                               |
| Ohio.....                               | 109            | 18                                 | 1,463          | 7,793             | 1,008              | 2,069             | 4,535           | 15,414                               | 17,859            | 33,292             | 2,830                     | 1,575            | 13,164                               |
| Indiana.....                            | 67             | 8                                  | 796            | 4,323             | 520                | 1,104             | 2,278           | 9,531                                | 9,724             | 19,099             | 948                       | 714              | 5,068                                |
| Illinois.....                           | 78             | 11                                 | 802            | 4,499             | 580                | 1,172             | 2,887           | 9,080                                | 8,109             | 16,979             | 1,009                     | 780              | 7,500                                |
| Michigan.....                           | 126            | 19                                 | 1,392          | 7,735             | 965                | 2,091             | 4,502           | 15,931                               | 18,767            | 34,326             | 1,449                     | 1,358            | 11,714                               |
| Wisconsin.....                          | 75             | 11                                 | 684            | 3,963             | 481                | 1,038             | 2,489           | 8,583                                | 8,527             | 17,051             | 1,096                     | 859              | 8,566                                |
| West North Central.                     | 191            | 26                                 | 1,865          | 9,717             | 1,279              | 2,836             | 5,760           | 18,850                               | 19,167            | 37,762             | 2,025                     | 1,876            | 16,410                               |
| Minnesota.....                          | 66             | 7                                  | 521            | 3,046             | 373                | 830               | 1,914           | 5,566                                | 5,140             | 10,681             | 643                       | 526              | 4,593                                |
| Iowa.....                               | 26             | 6                                  | 332            | 1,774             | 225                | 502               | 1,038           | 4,043                                | 3,512             | 7,494              | 199                       | 404              | 3,164                                |
| Missouri.....                           | 42             | 5                                  | 360            | 1,673             | 269                | 531               | 1,102           | 3,131                                | 4,314             | 7,381              | 368                       | 413              | 3,370                                |
| South Dakota....                        | 12             | 3                                  | 134            | 657               | 91                 | 212               | 322             | 1,193                                | 872               | 2,034              | 163                       | 100              | 964                                  |
| Nebraska.....                           | 13             | 3                                  | 257            | 1,442             | 152                | 388               | 721             | 2,484                                | 2,302             | 4,712              | 423                       | 187              | 1,929                                |
| Kansas.....                             | 22             | 1                                  | 168            | 726               | 101                | 208               | 378             | 1,532                                | 1,753             | 3,293              | 102                       | 168              | 1,292                                |
| South Atlantic....                      | 302            | 95                                 | 4,792          | 19,703            | 3,382              | 7,515             | 11,586          | 42,834                               | 50,320            | 93,082             | 5,582                     | 5,023            | 37,142                               |
| Delaware.....                           | 7              | 3                                  | 130            | 502               | 69                 | 131               | 203             | 935                                  | 1,065             | 1,994              | 94                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Virginia.....                           | 42             | 18                                 | 761            | 3,172             | 560                | 1,232             | 1,867           | 7,276                                | 7,455             | 14,855             | 592                       | 674              | 4,255                                |
| West Virginia....                       | 27             | 2                                  | 286            | 1,092             | 212                | 464               | 710             | 1,823                                | 2,643             | 4,397              | 229                       | 338              | 1,838                                |
| North Carolina..                        | 58             | 19                                 | 907            | 3,330             | 680                | 1,469             | 2,100           | 7,527                                | 9,730             | 17,225             | 797                       | 856              | 5,105                                |
| South Carolina..                        | 25             | 9                                  | 415            | 1,519             | 297                | 661               | 861             | 2,740                                | 3,119             | 5,848              | 453                       | 250              | 1,248                                |
| Georgia.....                            | 43             | 14                                 | 725            | 2,760             | 515                | 1,138             | 1,708           | 6,240                                | 8,078             | 14,284             | 818                       | 516              | 3,528                                |
| Florida.....                            | 67             | 15                                 | 853            | 3,588             | 540                | 1,251             | 1,911           | 7,865                                | 8,261             | 16,104             | 611                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| East South Central.                     | 149            | 26                                 | 1,925          | 7,080             | 1,418              | 3,007             | 4,320           | 15,148                               | 16,296            | 31,175             | 1,694                     | 1,366            | 8,971                                |
| Kentucky.....                           | 47             | 6                                  | 516            | 1,895             | 387                | 818               | 1,158           | 3,927                                | 4,614             | 8,465              | 427                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Tennessee.....                          | 57             | 11                                 | 831            | 3,062             | 580                | 1,232             | 1,695           | 7,039                                | 6,771             | 13,674             | 820                       | 566              | 3,566                                |
| Alabama.....                            | 29             | 8                                  | 427            | 1,699             | 340                | 732               | 1,184           | 3,288                                | 3,747             | 6,966              | 294                       | 375              | 2,618                                |
| Mississippi.....                        | 16             | 1                                  | 151            | 424               | 111                | 225               | 283             | 894                                  | 1,164             | 2,070              | 153                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West South Central.                     | 110            | 20                                 | 1,261          | 5,122             | 921                | 2,099             | 3,327           | 12,178                               | 12,792            | 24,846             | 1,100                     | 1,203            | 9,126                                |
| Louisiana.....                          | 13             | 2                                  | 148            | 611               | 97                 | 222               | 321             | 1,485                                | 1,761             | 3,250              | 77                        | 183              | 1,448                                |
| Texas.....                              | 57             | 14                                 | 753            | 3,120             | 525                | 1,190             | 1,882           | 7,255                                | 6,883             | 13,977             | 524                       | 745              | 5,350                                |
| Mountain.....                           | 92             | 19                                 | 1,374          | 6,958             | 926                | 1,859             | 4,407           | 16,063                               | 12,642            | 28,096             | 1,750                     | 1,193            | 10,841                               |
| New Mexico.....                         | 15             | 4                                  | 260            | 1,156             | 181                | 379               | 716             | 1,968                                | 2,592             | 4,456              | 248                       | 259              | 2,025                                |
| Arizona.....                            | 16             | 3                                  | 286            | 1,630             | 187                | 371               | 1,047           | 6,091                                | 2,832             | 8,659              | 776                       | 240              | 2,857                                |
| Utah.....                               | 8              | 2                                  | 178            | 761               | 107                | 237               | 420             | 1,216                                | 988               | 2,110              | 13                        | 126              | 667                                  |
| Nevada.....                             | 7              | 3                                  | 164            | 1,052             | 131                | 255               | 832             | 2,246                                | 1,774             | 3,946              | 136                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pacific.....                            | 144            | 29                                 | 1,704          | 10,868            | 1,163              | 2,372             | 6,663           | 21,967                               | 19,241            | 40,794             | 2,127                     | 1,290            | 12,995                               |
| California.....                         | 101            | 20                                 | 1,191          | 7,722             | 817                | 1,676             | 4,760           | 16,607                               | 13,189            | 29,455             | 1,678                     | 958              | 10,302                               |
| INDUSTRY 3272.—OTHER CONCRETE PRODUCTS  |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                              | 3,451          | 716                                | 52,297         | 266,706           | 41,093             | 87,256            | 190,945         | 539,967                              | 387,389           | 925,677            | 43,550                    | 46,283           | 391,366                              |
| New England.....                        | 161            | 25                                 | 2,139          | 11,713            | 1,650              | 3,643             | 8,327           | 24,130                               | 15,649            | 39,378             | 2,314                     | 1,627            | 14,697                               |
| Maine.....                              | 9              | 1                                  | 101            | 424               | 83                 | 175               | 304             | 1,030                                | 588               | 1,487              | 140                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| New Hampshire....                       | 19             | 2                                  | 162            | 758               | 105                | 232               | 453             | 1,343                                | 1,012             | 2,302              | 154                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Massachusetts....                       | 68             | 13                                 | 1,090          | 6,266             | 859                | 1,932             | 4,583           | 13,055                               | 8,473             | 21,164             | 919                       | 690              | 6,025                                |
| Rhode Island.....                       | 13             | 3                                  | 145            | 762               | 114                | 262               | 620             | 1,496                                | 932               | 2,470              | 96                        | 115              | 1,149                                |
| Connecticut.....                        | 47             | 6                                  | 619            | 3,404             | 471                | 1,004             | 2,292           | 7,007                                | 4,526             | 11,611             | 991                       | 520              | 4,362                                |
| Middle Atlantic....                     | 446            | 104                                | 6,586          | 36,791            | 5,090              | 10,811            | 25,852          | 71,094                               | 45,341            | 116,351            | 4,862                     | 6,769            | 59,521                               |
| New York.....                           | 174            | 41                                 | 2,168          | 13,323            | 1,688              | 3,611             | 9,761           | 26,173                               | 15,388            | 42,082             | 1,620                     | 2,404            | 20,197                               |
| New Jersey.....                         | 76             | 29                                 | 2,023          | 11,953            | 1,491              | 3,229             | 7,675           | 24,607                               | 15,255            | 39,053             | 1,521                     | 2,024            | 20,083                               |
| Pennsylvania....                        | 196            | 34                                 | 2,395          | 11,515            | 1,911              | 3,971             | 8,416           | 20,314                               | 14,698            | 35,216             | 1,721                     | 2,341            | 19,241                               |
| East North Central.                     | 805            | 129                                | 9,707          | 56,303            | 7,589              | 16,221            | 40,083          | 116,419                              | 75,268            | 192,094            | 8,184                     | 9,396            | 91,081                               |
| Ohio.....                               | 202            | 34                                 | 2,764          | 15,825            | 2,094              | 4,451             | 10,574          | 31,845                               | 17,987            | 49,509             | 2,123                     | 2,821            | 25,035                               |
| Indiana.....                            | 151            | 15                                 | 1,199          | 5,844             | 957                | 1,963             | 4,178           | 11,101                               | 8,601             | 20,052             | 1,149                     | 1,585            | 12,495                               |
| Illinois.....                           | 160            | 36                                 | 2,539          | 15,597            | 1,985              | 4,264             | 11,304          | 31,006                               | 20,378            | 51,189             | 1,706                     | 2,344            | 25,388                               |
| Michigan.....                           | 184            | 24                                 | 1,923          | 10,960            | 1,518              | 3,191             | 8,031           | 28,064                               | 17,436            | 46,231             | 2,138                     | 1,781            | 18,904                               |
| Wisconsin.....                          | 108            | 20                                 | 1,282          | 8,077             | 1,035              | 2,352             | 5,996           | 14,403                               | 10,866            | 25,113             | 1,068                     | 865              | 9,259                                |
| West North Central.                     | 352            | 57                                 | 4,464          | 21,985            | 3,533              | 7,667             | 15,964          | 43,811                               | 30,847            | 74,676             | 3,539                     | 4,181            | 35,045                               |
| Minnesota.....                          | 102            | 19                                 | 1,402          | 7,495             | 1,109              | 2,428             | 5,116           | 15,080                               | 10,381            | 25,331             | 1,202                     | 1,428            | 13,529                               |
| Iowa.....                               | 89             | 13                                 | 970            | 5,076             | 760                | 1,726             | 3,470           | 10,115                               | 7,177             | 17,166             | 812                       | 763              | 6,374                                |
| Missouri.....                           | 86             | 13                                 | 795            | 3,739             | 614                | 1,325             | 2,795           | 7,276                                | 4,359             | 11,844             | 558                       | 899              | 6,652                                |
| North Dakota....                        | 11             | 2                                  | 135            | 695               | 114                | 216               | 493             | 1,182                                | 1,250             | 2,433              | 50                        | 154              | 1,225                                |
| Nebraska.....                           | 19             | 3                                  | 526            | 1,810             | 465                | 942               | 1,554           | 3,317                                | 2,607             | 6,097              | 448                       | 398              | 1,956                                |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                     | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3272.—OTHER CONCRETE PRODUCTS—Continued |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| South Atlantic.....                              | 626            | 153                                | 11,084         | 46,298            | 8,848              | 18,840            | 32,784          | 98,537                               | 81,845            | 181,043            | 9,036                     | 9,573            | 67,330                               |
| Maryland.....                                    | 55             | 18                                 | 1,325          | 6,716             | 1,087              | 2,311             | 4,954           | 16,621                               | 11,670            | 28,470             | 1,370                     | 933              | 9,532                                |
| Virginia.....                                    | 70             | 23                                 | 2,087          | 9,458             | 1,738              | 3,840             | 7,006           | 20,021                               | 18,296            | 38,133             | 1,738                     | 1,288            | 10,390                               |
| West Virginia....                                | 13             | 5                                  | 221            | 959               | 180                | 361               | 700             | 1,811                                | 1,317             | 3,531              | (D)                       | 274              | 1,949                                |
| North Carolina...                                | 76             | 24                                 | 1,416          | 5,651             | 1,128              | 2,403             | 3,658           | 9,984                                | 9,010             | 18,762             | 1,576                     | 1,034            | 6,611                                |
| South Carolina...                                | 44             | 10                                 | 609            | 2,302             | 498                | 1,040             | 1,692           | 5,951                                | 5,033             | 10,928             | 345                       | 626              | 5,254                                |
| Georgia.....                                     | 95             | 17                                 | 1,317          | 4,975             | 1,025              | 2,151             | 3,350           | 11,649                               | 8,858             | 20,486             | 1,402                     | 1,106            | 7,843                                |
| Florida.....                                     | 259            | 52                                 | 3,905          | 15,407            | 3,038              | 6,422             | 10,859          | 30,703                               | 26,582            | 57,672             | 2,213                     | 4,167            | 24,934                               |
| East South Central.                              | 208            | 48                                 | 3,020          | 11,361            | 2,447              | 4,964             | 7,794           | 27,313                               | 20,903            | 48,220             | 1,850                     | 2,801            | 23,084                               |
| Kentucky.....                                    | 44             | 5                                  | 417            | 1,686             | 337                | 659               | 1,239           | 3,610                                | 2,920             | 6,634              | 265                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Tennessee.....                                   | 58             | 16                                 | 1,137          | 4,630             | 903                | 1,852             | 2,902           | 9,818                                | 8,458             | 18,554             | 772                       | 1,043            | 8,162                                |
| Alabama.....                                     | 79             | 13                                 | 920            | 3,127             | 733                | 1,478             | 2,142           | 7,104                                | 5,248             | 12,220             | 523                       | 1,015            | 7,696                                |
| Mississippi.....                                 | 27             | 14                                 | 546            | 1,918             | 474                | 975               | 1,511           | 6,781                                | 4,277             | 10,812             | 290                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West South Central.                              | 306            | 81                                 | 5,833          | 24,406            | 4,580              | 10,043            | 17,251          | 51,748                               | 42,885            | 94,473             | 4,853                     | 4,388            | 32,638                               |
| Arkansas.....                                    | 22             | 6                                  | 293            | 1,007             | 263                | 567               | 850             | 2,000                                | 1,993             | 3,968              | 265                       | 223              | 1,587                                |
| Louisiana.....                                   | 67             | 9                                  | 963            | 4,219             | 824                | 1,885             | 3,379           | 9,461                                | 7,716             | 17,134             | 1,061                     | 872              | 6,608                                |
| Oklahoma.....                                    | 31             | 6                                  | 434            | 2,150             | 327                | 748               | 1,440           | 4,481                                | 3,005             | 7,557              | 1,054                     | 312              | 2,484                                |
| Texas.....                                       | 186            | 60                                 | 4,143          | 17,030            | 3,166              | 6,843             | 11,582          | 35,806                               | 30,171            | 65,814             | 2,473                     | 2,981            | 21,959                               |
| Mountain.....                                    | 141            | 34                                 | 2,392          | 13,745            | 1,942              | 4,025             | 10,146          | 25,326                               | 18,508            | 42,777             | 1,992                     | 1,721            | 13,343                               |
| Montana.....                                     | 11             | 3                                  | 174            | 936               | 142                | 245               | 706             | 1,839                                | 1,206             | 3,191              | 104                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Idaho.....                                       | 9              | 4                                  | 143            | 859               | 112                | 252               | 561             | 1,497                                | 1,407             | 2,727              | 89                        | 250              | 2,093                                |
| Colorado.....                                    | 45             | 8                                  | 688            | 3,816             | 542                | 1,133             | 2,761           | 4,398                                | 4,398             | 11,546             | 740                       | 512              | 2,029                                |
| Arizona.....                                     | 31             | 6                                  | 517            | 3,046             | 449                | 901               | 2,465           | 5,309                                | 4,491             | 8,908              | 381                       | 294              | 2,513                                |
| Utah.....  | 20             | 7                                  | 544            | 3,191             | 452                | 962               | 2,323           | 5,184                                | 3,622             | 9,009              | 371                       | 468              | 4,123                                |
| Pacific.....                                     | 406            | 85                                 | 7,072          | 44,104            | 5,414              | 11,042            | 32,744          | 81,589                               | 56,143            | 136,665            | 6,920                     | 5,827            | 54,627                               |
| Washington.....                                  | 83             | 15                                 | 1,360          | 8,485             | 1,097              | 2,172             | 6,565           | 14,385                               | 10,780            | 24,459             | 1,877                     | 1,011            | 8,399                                |
| Oregon.....                                      | 46             | 5                                  | 567            | 3,296             | 430                | 877               | 2,358           | 7,592                                | 4,431             | 12,209             | 473                       | 509              | 5,780                                |
| California.....                                  | 270            | 61                                 | 4,946          | 31,080            | 3,732              | 7,671             | 22,938          | 57,613                               | 39,078            | 96,164             | 4,337                     | 4,206            | 39,460                               |
| INDUSTRY 3273.—READY MIXED CONCRETE              |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                       | 4,621          | 1,021                              | 71,523         | 410,539           | 46,110             | 96,228            | 244,955         | 981,997                              | 1,308,030         | 2,292,504          | 106,010                   | 62,116           | 679,385                              |
| New England.....                                 | 154            | 46                                 | 2,723          | 17,734            | 1,815              | 3,792             | 10,435          | 47,018                               | 47,058            | 94,167             | 4,874                     | 2,371            | 31,931                               |
| Maine.....                                       | 20             | 9                                  | 398            | 1,816             | 282                | 621               | 1,136           | 3,754                                | 3,457             | 7,220              | 450                       | 254              | 1,874                                |
| New Hampshire....                                | 13             | 1                                  | 152            | 812               | 82                 | 165               | 426             | 2,310                                | 2,542             | 4,841              | 414                       | 107              | 1,020                                |
| Vermont.....                                     | 6              | 3                                  | 148            | 909               | 113                | 275               | 594             | 1,848                                | 1,424             | 3,272              | 420                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Massachusetts....                                | 57             | 17                                 | 1,065          | 7,593             | 660                | 1,421             | 4,288           | 20,339                               | 20,847            | 41,289             | 1,871                     | 1,014            | 17,203                               |
| Rhode Island.....                                | 10             | 3                                  | 130            | 687               | 73                 | 143               | 377             | 1,504                                | 2,256             | 3,773              | 152                       | 156              | 1,722                                |
| Connecticut.....                                 | 48             | 13                                 | 830            | 5,917             | 605                | 1,167             | 3,614           | 17,263                               | 16,532            | 33,772             | 1,567                     | 807              | 9,682                                |
| Middle Atlantic....                              | 505            | 119                                | 8,739          | 58,491            | 5,581              | 11,522            | 36,268          | 132,719                              | 161,830           | 294,477            | 16,270                    | 8,265            | 97,950                               |
| New York.....                                    | 214            | 43                                 | 3,543          | 26,781            | 2,128              | 4,061             | 16,091          | 54,274                               | 70,591            | 125,070            | 6,712                     | 3,128            | 37,933                               |
| New Jersey.....                                  | 90             | 28                                 | 2,146          | 15,025            | 1,325              | 3,126             | 9,079           | 35,465                               | 42,843            | 78,097             | 2,869                     | 1,942            | 23,977                               |
| Pennsylvania.....                                | 201            | 48                                 | 3,050          | 16,685            | 2,128              | 4,335             | 11,098          | 42,980                               | 48,396            | 91,310             | 6,689                     | 3,195            | 36,040                               |
| East North Central.                              | 1,016          | 178                                | 12,612         | 82,045            | 7,727              | 16,145            | 45,795          | 191,514                              | 266,147           | 460,428            | 18,388                    | 12,190           | 145,322                              |
| Ohio.....  | 247            | 49                                 | 3,499          | 22,872            | 2,016              | 4,138             | 11,846          | 53,073                               | 74,218            | 127,274            | 4,771                     | 3,567            | 43,149                               |
| Indiana.....                                     | 148            | 27                                 | 1,987          | 12,375            | 1,177              | 2,465             | 6,288           | 26,548                               | 37,279            | 63,782             | 2,963                     | 1,826            | 18,235                               |
| Illinois.....                                    | 268            | 40                                 | 3,003          | 19,995            | 1,948              | 4,282             | 12,245          | 48,571                               | 70,914            | 119,580            | 3,744                     | 2,953            | 41,277                               |
| Michigan.....                                    | 220            | 36                                 | 2,545          | 16,867            | 1,616              | 3,319             | 10,180          | 41,733                               | 51,593            | 96,098             | 4,295                     | 2,507            | 27,877                               |
| Wisconsin.....                                   | 133            | 26                                 | 1,578          | 9,936             | 970                | 1,941             | 5,236           | 21,589                               | 32,143            | 53,694             | 2,615                     | 1,337            | 14,784                               |
| West North Central.                              | 595            | 76                                 | 6,140          | 34,245            | 4,311              | 8,972             | 22,316          | 82,071                               | 115,031           | 197,066            | 8,263                     | 5,867            | 69,188                               |
| Iowa.....  | 149            | 11                                 | 1,078          | 5,964             | 766                | 1,607             | 4,048           | 15,225                               | 22,204            | 37,464             | 1,554                     | 994              | 11,540                               |
| Missouri.....                                    | 126            | 24                                 | 1,880          | 10,863            | 1,408              | 2,861             | 7,787           | 23,866                               | 34,095            | 57,962             | 2,761                     | 2,154            | 25,264                               |
| North Dakota.....                                | 16             | 1                                  | 131            | 702               | 77                 | 152               | 370             | 1,667                                | 2,672             | 4,341              | 189                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South Dakota.....                                | 34             | 4                                  | 268            | 1,246             | 211                | 394               | 864             | 3,524                                | 5,341             | 8,825              | 535                       | 152              | 1,532                                |
| Kansas.....                                      | 87             | 13                                 | 913            | 4,927             | 554                | 1,182             | 2,814           | 10,806                               | 15,362            | 26,142             | 1,018                     | 848              | 10,824                               |
| South Atlantic....                               | 571            | 201                                | 11,806         | 54,027            | 7,815              | 16,750            | 32,522          | 138,203                              | 187,638           | 325,701            | 16,512                    | 9,737            | 88,512                               |
| Delaware.....                                    | 12             | 4                                  | 284            | 1,426             | 245                | 491               | 1,146           | 3,688                                | 4,465             | 8,175              | 471                       | 297              | 3,152                                |
| Maryland.....                                    | 53             | 17                                 | 920            | 5,093             | 503                | 1,065             | 2,287           | 14,151                               | 18,315            | 32,584             | 1,388                     | 791              | 6,302                                |
| District of Columbia.....                        | 4              | 4                                  | 414            | 2,887             | 318                | 664               | 1,874           | 6,375                                | 9,314             | 15,690             | 1,140                     | 366              | 2,754                                |
| Virginia.....                                    | 88             | 27                                 | 1,688          | 8,035             | 1,381              | 2,958             | 6,048           | 23,065                               | 29,111            | 52,212             | 3,177                     | 1,267            | 14,938                               |
| West Virginia....                                | 26             | 8                                  | 477            | 2,319             | 327                | 668               | 1,510           | 4,975                                | 6,932             | 11,895             | 597                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| North Carolina...                                | 92             | 25                                 | 1,454          | 6,025             | 947                | 2,020             | 3,509           | 14,725                               | 21,127            | 35,853             | 2,038                     | 1,174            | 9,133                                |
| South Carolina...                                | 49             | 10                                 | 684            | 2,488             | 504                | 1,081             | 1,709           | 5,932                                | 9,326             | 15,234             | 1,299                     | 501              | 4,612                                |
| Georgia.....                                     | 85             | 34                                 | 1,919          | 7,384             | 1,382              | 2,802             | 4,849           | 16,805                               | 26,417            | 42,817             | 2,250                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Florida.....                                     | 163            | 72                                 | 3,966          | 18,370            | 2,208              | 5,001             | 9,590           | 48,487                               | 62,631            | 111,241            | 4,152                     | 3,696            | 35,227                               |
| East South Central.                              | 306            | 53                                 | 4,586          | 19,928            | 2,945              | 6,202             | 11,584          | 51,622                               | 68,675            | 119,723            | 6,214                     | 3,397            | 30,188                               |
| Kentucky.....                                    | 83             | 10                                 | 980            | 4,920             | 555                | 1,135             | 2,458           | 11,852                               | 16,840            | 28,730             | 1,314                     | 836              | 6,450                                |
| Tennessee.....                                   | 87             | 18                                 | 1,532          | 6,553             | 998                | 2,197             | 4,020           | 18,088                               | 24,552            | 42,124             | 1,972                     | 940              | 10,654                               |
| Alabama.....                                     | 76             | 18                                 | 1,304          | 5,431             | 861                | 1,759             | 3,270           | 14,336                               | 16,472            | 30,732             | 2,019                     | 872              | 8,088                                |
| Mississippi.....                                 | 60             | 7                                  | 770            | 3,024             | 531                | 1,111             | 1,836           | 7,346                                | 10,811            | 18,137             | 909                       | 749              | 4,996                                |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                  | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3273.—READY MIXED CONCRETE—Continued |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| West South Central.....                       | 515            | 109                                | 8,566          | 39,300            | 5,921              | 13,375            | 25,198          | 100,932                              | 161,214           | 261,952            | 12,081                    | 7,074            | 71,093                               |
| Arkansas.....                                 | 60             | 8                                  | 612            | 2,388             | 452                | 938               | 1,696           | 7,041                                | 8,484             | 15,528             | 650                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Louisiana.....                                | 74             | 21                                 | 1,352          | 5,837             | 915                | 1,850             | 3,440           | 13,975                               | 25,011            | 38,758             | 1,623                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Oklahoma.....                                 | 97             | 10                                 | 1,176          | 5,780             | 760                | 1,684             | 3,724           | 14,883                               | 21,209            | 36,073             | 1,312                     | 978              | 9,649                                |
| Texas.....                                    | 284            | 70                                 | 5,426          | 25,295            | 3,794              | 8,903             | 16,338          | 65,033                               | 106,510           | 171,593            | 8,496                     | 3,967            | 42,109                               |
| Mountain.....                                 | 306            | 66                                 | 4,938          | 27,759            | 3,259              | 6,309             | 17,135          | 62,909                               | 74,500            | 137,529            | 7,850                     | 3,321            | 35,976                               |
| Montana.....                                  | 34             | 2                                  | 245            | 1,198             | 168                | 295               | 800             | 2,599                                | 2,805             | 5,311              | 255                       | 162              | 1,404                                |
| Idaho.....                                    | 38             | 4                                  | 409            | 2,170             | 311                | 622               | 1,604           | 4,061                                | 5,540             | 9,506              | 449                       | 270              | 2,576                                |
| Wyoming.....                                  | 25             | 3                                  | 247            | 1,377             | 194                | 383               | 1,002           | 2,597                                | 5,202             | 5,208              | 208                       | 171              | 1,645                                |
| Colorado.....                                 | 68             | 12                                 | 957            | 5,811             | 567                | 1,194             | 3,090           | 13,751                               | 19,878            | 33,583             | 1,299                     | 626              | 7,996                                |
| New Mexico.....                               | 34             | 6                                  | 443            | 2,251             | 297                | 600               | 1,330           | 5,625                                | 9,965             | 11,619             | 799                       | 498              | 4,256                                |
| Arizona.....                                  | 48             | 15                                 | 1,454          | 7,756             | 1,001              | 1,844             | 5,002           | 16,104                               | 15,139            | 31,522             | 2,618                     | 843              | 10,188                               |
| Utah.....                                     | 39             | 14                                 | 677            | 3,497             | 390                | 762               | 1,979           | 8,152                                | 10,891            | 19,046             | 1,027                     | 576              | 6,068                                |
| Nevada.....                                   | 20             | 10                                 | 506            | 3,699             | 331                | 609               | 2,328           | 9,696                                | 11,685            | 21,422             | 1,195                     | 175              | 1,843                                |
| Pacific.....                                  | 652            | 173                                | 11,413         | 77,010            | 6,736              | 13,161            | 43,702          | 175,009                              | 225,937           | 401,461            | 15,558                    | 9,894            | 109,225                              |
| Washington.....                               | 95             | 30                                 | 1,920          | 12,872            | 1,332              | 2,550             | 8,890           | 24,685                               | 25,954            | 50,784             | 2,241                     | 1,664            | 18,171                               |
| Oregon.....                                   | 82             | 12                                 | 1,187          | 7,217             | 896                | 1,753             | 5,298           | 16,274                               | 15,370            | 31,732             | 1,475                     | 1,019            | 10,220                               |
| California.....                               | 461            | 126                                | 7,837          | 53,770            | 4,172              | 8,267             | 27,611          | 124,251                              | 175,930           | 300,409            | 11,364                    | 6,985            | 77,511                               |
| Alaska.....                                   | 10             | 2                                  | 118            | 1,041             | 80                 | 167               | 640             | 2,419                                | 2,471             | 4,868              | 255                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Hawaii.....                                   | 4              | 3                                  | 351            | 2,110             | 256                | 424               | 1,263           | 7,380                                | 6,212             | 13,668             | 223                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| INDUSTRY 3274.—LIME                           |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 125            | 68                                 | 6,778          | 38,903            | 5,384              | 11,366            | 28,519          | 95,135                               | 69,011            | 164,366            | 14,730                    | 7,185            | 73,597                               |
| Northeast.....                                | 28             | 11                                 | 1,623          | 10,147            | 1,260              | 2,649             | 7,080           | 18,669                               | 15,245            | 33,955             | 1,810                     | 1,484            | 13,595                               |
| East North Central.....                       | 27             | 17                                 | 1,856          | 11,486            | 1,312              | 2,820             | 7,634           | 32,302                               | 25,296            | 57,610             | 4,804                     | 2,214            | 27,317                               |
| Ohio.....                                     | 14             | 9                                  | 1,479          | 9,232             | 990                | 2,095             | 5,642           | 24,153                               | 16,507            | 40,658             | 4,190                     | 1,787            | 21,523                               |
| West North Central.....                       | 9              | 5                                  | 952            | 5,215             | 814                | 1,630             | 4,102           | 12,675                               | 8,041             | 20,772             | 967                       | 1,234            | 12,656                               |
| South.....                                    | 37             | 25                                 | 1,712          | 8,124             | 1,453              | 3,123             | 6,480           | 20,033                               | 14,003            | 34,055             | 2,627                     | 1,643            | 13,843                               |
| Texas.....                                    | 7              | 5                                  | 441            | 1,895             | 375                | 842               | 1,473           | 4,416                                | 4,052             | 8,453              | 878                       | 435              | 3,906                                |
| Mountain.....                                 | 13             | 5                                  | 335            | 2,062             | 286                | 602               | 1,711           | 7,429                                | 3,352             | 10,798             | 270                       | 290              | 2,818                                |
| Utah.....                                     | 3              | 2                                  | 113            | 707               | 98                 | 191               | 593             | 1,861                                | 952               | 2,810              | 48                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pacific.....                                  | 11             | 5                                  | 300            | 1,869             | 259                | 542               | 1,512           | 4,027                                | 3,074             | 7,176              | 4,252                     | 320              | 3,368                                |
| INDUSTRY 3275.—GYPSUM PRODUCTS                |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 122            | 72                                 | 11,491         | 70,335            | 9,216              | 20,766            | 54,455          | 259,659                              | 164,445           | 425,108            | 15,201                    | 11,502           | 218,042                              |
| Northeast.....                                | 25             | 12                                 | 2,337          | 14,976            | 1,865              | 4,219             | 11,512          | 46,903                               | 31,906            | 78,607             | 3,331                     | 2,844            | 46,053                               |
| East North Central.....                       | 17             | 12                                 | 1,721          | 10,261            | 1,381              | 2,970             | 7,795           | 41,771                               | 24,379            | 66,808             | 915                       | 2,126            | 38,634                               |
| Ohio.....                                     | 5              | 3                                  | 458            | 2,774             | 378                | 827               | 2,174           | 10,174                               | 5,463             | 15,935             | 125                       | 652              | 8,996                                |
| West North Central.....                       | 10             | 7                                  | 1,352          | 7,802             | 1,109              | 2,470             | 6,181           | 33,010                               | 15,617            | 48,724             | 1,654                     | 1,322            | 28,289                               |
| South.....                                    | 37             | 22                                 | 3,462          | 19,776            | 2,741              | 6,222             | 15,068          | 79,485                               | 49,929            | 129,743            | 5,107                     | 3,039            | 66,393                               |
| Texas.....                                    | 12             | 7                                  | 1,099          | 6,256             | 860                | 1,970             | 4,801           | 26,420                               | 15,696            | 42,184             | 1,166                     | 1,149            | 27,190                               |
| Mountain.....                                 | 13             | 10                                 | 1,230          | 8,176             | 1,012              | 2,391             | 6,664           | 24,994                               | 18,563            | 43,683             | 1,735                     | 974              | 17,136                               |
| Pacific.....                                  | 20             | 9                                  | 1,389          | 9,344             | 1,108              | 2,494             | 7,235           | 33,496                               | 24,051            | 57,543             | 2,459                     | 1,197            | 21,537                               |
| INDUSTRY 3281.—CUT STONE AND STONE PRODUCTS   |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 893            | 211                                | 18,340         | 85,745            | 15,259             | 30,896            | 66,657          | 131,456                              | 86,633            | 217,176            | 6,693                     | 20,348           | 129,038                              |
| New England.....                              | 153            | 43                                 | 3,930          | 19,732            | 3,330              | 6,917             | 15,908          | 31,521                               | 21,031            | 52,112             | 1,574                     | 4,725            | 29,224                               |
| Maine.....                                    | 10             | 4                                  | 236            | 1,028             | 217                | 421               | 941             | 1,019                                | 423               | 1,441              | 22                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| New Hampshire.....                            | 5              | 3                                  | 225            | 1,231             | 195                | 417               | 995             | 1,773                                | 2,115             | 3,887              | 313                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Vermont.....                                  | 100            | 29                                 | 2,830          | 13,746            | 2,437              | 5,119             | 11,489          | 22,669                               | 14,899            | 37,161             | 1,106                     | 3,540            | 21,334                               |
| Massachusetts.....                            | 23             | 5                                  | 490            | 2,933             | 366                | 754               | 1,973           | 4,353                                | 2,073             | 6,358              | 107                       | 704              | 5,051                                |
| Middle Atlantic.....                          | 163            | 25                                 | 1,839          | 8,990             | 1,536              | 3,011             | 7,132           | 13,693                               | 11,690            | 25,234             | 633                       | 2,107            | 15,872                               |
| New York.....                                 | 83             | 12                                 | 858            | 4,542             | 682                | 1,278             | 3,447           | 7,563                                | 7,168             | 14,591             | 304                       | 856              | 7,936                                |
| New Jersey.....                               | 14             | 2                                  | 103            | 540               | 79                 | 148               | 404             | 654                                  | 733               | 1,380              | 22                        | 161              | 1,390                                |
| Pennsylvania.....                             | 66             | 11                                 | 878            | 3,908             | 775                | 1,585             | 3,281           | 5,476                                | 3,789             | 9,263              | 307                       | 1,090            | 6,546                                |
| East North Central.....                       | 178            | 45                                 | 3,832          | 19,432            | 3,241              | 6,473             | 15,401          | 29,109                               | 14,877            | 43,955             | 1,184                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Indiana.....                                  | 45             | 21                                 | 1,989          | 9,465             | 1,759              | 3,469             | 7,965           | 13,985                               | 6,168             | 20,141             | 648                       | 2,361            | 14,251                               |
| Illinois.....                                 | 39             | 9                                  | 448            | 2,782             | 326                | 679               | 1,878           | 3,946                                | 2,729             | 6,638              | 116                       | 634              | 5,020                                |
| Wisconsin.....                                | 34             | 7                                  | 426            | 2,467             | 359                | 744               | 1,981           | 3,899                                | 2,090             | 5,964              | 141                       | 575              | 3,611                                |
| West North Central.....                       | 78             | 27                                 | 2,878          | 14,371            | 2,211              | 4,861             | 9,564           | 20,346                               | 16,149            | 36,595             | 659                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Minnesota.....                                | 31             | 18                                 | 1,810          | 9,400             | 1,365              | 3,017             | 6,206           | 12,939                               | 10,687            | 23,577             | 264                       | 1,780            | 12,868                               |
| Missouri.....                                 | 18             | 3                                  | 594            | 2,595             | 492                | 1,088             | 1,888           | 3,877                                | 3,369             | 7,409              | 195                       | 580              | 3,774                                |
| Kansas.....                                   | 13             | 2                                  | 203            | 831               | 167                | 345               | 590             | 1,304                                | 1,091             | 2,397              | 117                       | 275              | 1,783                                |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                          | 1963           |                                    |                |                   |                    |                   |                 |  |                             |                              | 1958                                |                        |  |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|------------------------|--|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |                        |  |
| INDUSTRY 3281.—CUT STONE AND STONE PRODUCTS—Continued |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| South.....  | 227            | 59                                 | 5,062          | 19,285            | 4,309              | 8,403             | 15,650          | 30,945   | 19,014                      | 49,481                       | 2,306                               | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| Maryland.....   | 8              | 3                                  | 144            | 778               | 125                | 244               | 655             | 1,215  | 744                         | 1,979                        | 186                                 | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| Virginia.....   | 11             | 4                                  | 243            | 863               | 197                | 402               | 644             | 1,482  | 855                         | 2,388                        | 144                                 | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| North Carolina....                                    | 18             | 6                                  | 499            | 1,789             | 432                | 753               | 1,408           | 2,570  | 1,773                       | 4,306                        | 149                                 | 641                    | 3,235  |
| Georgia.....  | 72             | 24                                 | 2,065          | 7,811             | 1,802              | 3,515             | 6,555           | 13,231   | 7,444                       | 20,450                       | 808                                 | 2,149                  | 12,019   |
| Tennessee.....  | 23             | 7                                  | 854            | 3,076             | 732                | 1,417             | 2,450           | 3,367  | 3,053                       | 6,337                        | 208                                 | 845                    | 4,233  |
| Alabama.....  | 13             | 3                                  | 293            | 1,184             | 250                | 535               | 1,033           | 1,849  | 667                         | 2,511                        | (D)                                 | 339                    | 2,397  |
| Texas.....  | 35             | 7                                  | 490            | 2,151             | 360                | 738               | 1,578           | 3,594  | 2,665                       | 6,220                        | 131                                 | 442                    | 2,348  |
| West.....   | 94             | 12                                 | 799            | 3,935             | 632                | 1,231             | 3,002           | 5,851  | 3,872                       | 9,799                        | 337                                 | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| California.....                                       | 48             | 10                                 | 587            | 3,010             | 463                | 914               | 2,240           | 4,470  | 3,216                       | 7,775                        | 237                                 | 386                    | 3,288  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State. SIC 3271, Concrete Block and Brick: New England—Maine, 6 (20-99); New Hampshire, 8 (20-99); Vermont, 6 (20-99); Rhode Island, 8 (20-99); Connecticut, 25 (250-499); West North Central—North Dakota, 10 (20-99); South Atlantic—Maryland, 30 (500-999); District of Columbia, 3 (100-249); West South Central—Arkansas, 22 (184); Oklahoma, 18 (176); Mountain—Montana, 6 (20-99); Idaho, 4 (20-99); Wyoming, 9 (20-99); Colorado, 27 (250-499); Pacific—Washington, 17 (100-249); Oregon, 19 (147); Alaska, 5 (20-99); Hawaii, 2 (20-99).

SIC 3272, Other Concrete Products: New England—Vermont, 5 (20-99); West North Central—South Dakota, 13 (100-249); Kansas, 32 (250-499); South Atlantic—Delaware, 13 (100-249); District of Columbia, 1 (20-99); Mountain—Wyoming, 7 (20-99); New Mexico, 12 (210); Nevada, 6 (20-99); Pacific—Alaska, 1 (1-19); Hawaii, 6 (100-249);

SIC 3273, Ready Mixed Concrete: West North Central—Minnesota, 115 (1,000-2,499); Nebraska, 68 (500-999);

SIC 3274, Lime: New England—Vermont, 1 (1-19); Massachusetts, 3 (201); Connecticut, 1 (20-99); Middle Atlantic—New York, 2 (1-19); New Jersey, 1 (1-19); Pennsylvania, 20 (1,350); East North Central—Indiana, 1 (1-19); Illinois, 5 (240); Michigan, 2 (20-99); Wisconsin, 5 (103); West North Central—Minnesota, 1 (20-99); Iowa, 1 (20-99); Missouri, 6 (250-499); South Dakota, 1 (1-19); South Atlantic—Maryland, 2 (20-99); Virginia, 8 (250-499); West Virginia, 4 (20-99); Florida, 3 (20-99); East South Central—Tennessee, 2 (20-99); Alabama, 6 (250-499); West South Central—Arkansas, 1 (20-99); Louisiana, 3 (20-99); Oklahoma, 1 (20-99); Mountain—Montana, 2 (20-99); Colorado, 1 (1-19); New Mexico, 1 (1-19); Arizona, 3 (20-99); Nevada, 3 (20-99); Pacific—Washington, 1 (20-99); Oregon, 4 (20-99); California, 5 (100-249); Hawaii, 1 (1-19).

SIC 3275, Gypsum Products: New England—New Hampshire, 1 (100-249); Massachusetts, 3 (148); Connecticut, 1 (100-249); Middle Atlantic—New York, 11 (1,000-2,499); New Jersey, 6 (100-249); Pennsylvania, 3 (222); East North Central—Indiana, 3 (500-999); Illinois, 3 (140); Michigan, 6 (500-999); West North Central—Iowa, 5 (1,000-2,499); Missouri, 2 (1-19); Nebraska, 1 (1-19); Kansas, 2 (250-499); South Atlantic—Delaware, 1 (100-249); Maryland, 2 (250-499); Virginia, 2 (250-499); Georgia, 2 (250-499); Florida, 9 (381); East South Central—Tennessee, 2 (1-19); West South Central—Arkansas, 2 (20-99); Louisiana, 3 (250-499); Oklahoma, 2 (250-499); Mountain—Montana, 1 (20-99); Wyoming, 1 (20-99); Colorado, 1 (20-99); New Mexico, 2 (100-249); Arizona, 4 (120); Utah, 2 (100-249); Nevada, 2 (250-499); Pacific—Washington, 1 (100-249); Oregon, 1 (1-19); California, 18 (1,000-2,499).

SIC 3281, Cut Stone and Stone Products: New England—Rhode Island, 5 (106); Connecticut, 10 (20-99); East North Central—Ohio, 37 (807); Michigan, 23 (162); West North Central—Iowa, 7 (20-99); South Dakota, 2 (100-249); Nebraska, 7 (20-99); South Atlantic—District of Columbia, 1 (20-99); West Virginia, 2 (1-19); South Carolina, 7 (20-99); Florida, 11 (20-99); East South Central—Kentucky, 6 (20-99); Mississippi, 4 (100-249); West South Central—Arkansas, 8 (20-99); Louisiana, 1 (1,19); Oklahoma, 7 (20-99); Mountain—Montana, 1 (1-19); Idaho, 2 (1-19); Colorado, 8 (20-99); New Mexico, 3 (20-99); Arizona, 9 (20-99); Utah, 6 (20-99); Nevada, 2 (1-19); Pacific—Washington, 10 (20-99); Oregon, 4 (1-19); Hawaii, 1 (1-19).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.

TABLE 3. Detailed Statistics: 1963

| Item   | All establishments                               |   | Ready mixed concrete (SIC 3273) |   |  | Lime (SIC 3274) |   |  |
|--|--|---|---------------------------------|---|--|-----------------|---|--|
|  | Concrete block and brick (SIC 3271) <sup>1</sup> | Other concrete products (SIC 3272) <sup>1</sup> | Total                           | Subindustry   |  | Total           | Subindustry   |  |
|  |  |   |                                 | Establishments with mining or quarrying activity <sup>2</sup> | Establishments without mining or quarrying activity <sup>2</sup> |                 | Establishments with mining or quarrying activity <sup>2</sup> | Establishments without mining or quarrying activity <sup>2</sup> |
| Primary product specialization ratio <sup>3</sup> .....        | .92  | .94   | .92                             | (NA)  | (NA)   | .82             | (NA)  | (NA)   |
| Coverage ratio <sup>4</sup> .....                              | .84  | .94   | .98                             | (NA)  | (NA)   | .94             | (NA)  | (NA)   |
| Establishments, total.....number..                             | 1,841  | 3,451   | 4,621                           | 238   | 4,383  | 125             | 58  | 67   |
| With 1 to 19 employees.....do....                              | 1,474  | 2,735   | 3,600                           | 102   | 3,498  | 57              | 10  | 47   |
| With 20 to 99 employees.....do....                             | 362  | 650   | 947                             | 112   | 835  | 47              | 29  | 18   |
| With 100 employees or more.....do....                          | 5  | 66  | 74                              | 24  | 50   | 21              | 19  | 2  |
| Proprietors and working partners.....do....                    | 1,140  | 2,205   | 1,992                           | (NA)  | (NA)   | 29              | (NA)  | (NA)   |
| All employees (average for the year).....do....                | 23,759   | 52,297  | 71,523                          | 9,569   | 61,954   | 6,778           | 5,543   | 1,235  |
| Payroll (all employees), total for year.....\$1,000..          | 119,543  | 266,706   | 410,539                         | 62,389  | 348,150  | 38,903          | 31,778  | 7,125  |
| Production workers:  |  |   |                                 |   |  |                 |   |  |
| Average for the year.....number..                              | 16,702   | 41,093  | 46,110                          | 5,928   | 40,182   | 5,384           | 4,378   | 1,006  |
| March.....do....   | 14,443   | 36,874  | 40,500                          | 5,265   | 35,235   | 5,354           | 4,341   | 1,013  |
| May.....do....   | 17,437   | 41,313  | 47,340                          | 6,061   | 41,279   | 5,465           | 4,447   | 1,018  |
| August.....do....  | 18,190   | 44,271  | 49,834                          | 6,332   | 43,502   | 5,443           | 4,441   | 1,002  |
| November.....do....  | 16,841   | 42,024  | 46,847                          | 6,053   | 40,794   | 5,270           | 4,281   | 989  |
| Man-hours.....1,000..  | 36,081   | 87,256  | 96,228                          | 12,454  | 83,774   | 11,366          | 9,238   | 2,128  |
| January-March.....do....                                       | 7,218  | 18,444  | 19,829                          | 2,611   | 17,218   | 2,748           | 2,214   | 534  |
| April-June.....do....  | 9,526  | 22,542  | 25,149                          | 3,255   | 21,894   | 2,841           | 2,309   | 532  |
| July-September.....do....                                      | 10,238   | 23,934  | 26,849                          | 3,450   | 23,399   | 2,892           | 2,355   | 537  |
| October-December.....do....                                    | 9,099  | 22,336  | 24,401                          | 3,138   | 21,263   | 2,885           | 2,360   | 525  |
| Wages.....\$1,000..  | 72,748   | 190,945   | 244,955                         | 36,398  | 208,557  | 28,519          | 22,914  | 5,605  |
| Cost of materials, etc., total.....do....                      | 262,765  | 387,389   | 1,308,030                       | 120,085   | 1,187,945  | 69,011          | 48,099  | 20,912   |
| Materials, parts, containers, and supplies consumed.....do.... | 197,172  | 337,280   | 1,155,520                       | 106,130   | 1,049,390  | 37,149          | 25,233  | 11,916   |
| Cost of resales.....do....                                     | 53,301   | 28,326  | 105,311                         | 6,447   | 98,864   | 5,497           | 3,837   | 1,660  |
| Fuels consumed.....do....                                      | 7,048  | 9,350   | 29,456                          | 4,571   | 24,885   | 20,999          | 14,779  | 6,220  |
| Electric energy:   |  |   |                                 |   |  |                 |   |  |
| Purchased:   |  |   |                                 |   |  |                 |   |  |
| Quantity.....million kw.-hrs..                                 | 199  | 265   | 506                             | 112   | 395  | 402             | 320   | 82   |
| Cost.....\$1,000..   | 4,017  | 4,877   | 10,239                          | 2,100   | 8,139  | 4,693           | 3,745   | 948  |
| Generated less sold.....million kw.-hrs..                      | (2)  | (2)   | 1                               | (D)   | (2)  | (D)             | -   | (D)  |
| Contract work.....\$1,000..                                    | 1,227  | 7,556   | 7,504                           | 837   | 6,667  | 673             | 505   | 168  |
| Value of shipments (including resales), total.....do....       | 505,194  | 925,677   | 2,292,504                       | 250,775   | 2,041,729  | 164,366         | 121,708   | 42,658   |
| Value of resales.....do....                                    | 70,218   | 37,412  | 147,832                         | 7,136   | 140,696  | 7,268           | 5,114   | 2,154  |
| Value added by manufacture, adjusted.....do....                | 245,525  | 539,967   | 981,997                         | 131,006   | 850,991  | 95,135          | 73,604  | 21,531   |
| Manufacturers' inventories:                                    |  |   |                                 |   |  |                 |   |  |
| Beginning of year, total.....do....                            | 54,511   | 123,918   | 65,134                          | 10,347  | 54,787   | 14,204          | 10,834  | 3,370  |
| Finished products.....do....                                   | 46,102   | 79,374  | 28,980                          | 5,711   | 23,269   | 3,982           | 3,126   | 856  |
| Work-in-process.....do....                                     | 890  | 13,612  | 1,428                           | 439   | 989  | 719             | 669   | 50   |
| Materials, supplies, fuel, etc.....do....                      | 7,519  | 30,932  | 34,726                          | 4,197   | 30,529   | 9,503           | 7,039   | 2,464  |
| End of year, total.....do....                                  | 57,990   | 126,083   | 64,453                          | 11,146  | 53,307   | 13,979          | 11,135  | 2,844  |
| Finished products.....do....                                   | 49,217   | 78,510  | 28,535                          | 6,112   | 22,423   | 3,841           | 3,177   | 664  |
| Work-in-process.....do....                                     | 872  | 16,154  | 1,463                           | 354   | 1,109  | 640             | 613   | 27   |
| Materials, supplies, fuel, etc.....do....                      | 7,901  | 31,419  | 34,455                          | 4,680   | 29,775   | 9,498           | 7,345   | 2,153  |
| Expenditures for plant and equipment, total.....do....         | 33,493   | 48,173  | 117,355                         | 15,783  | 101,572  | 15,082          | 9,292   | 5,790  |
| New, total.....do....  | 31,143   | 43,550  | 106,010                         | 13,485  | 92,525   | 14,730          | 9,025   | 5,705  |
| New structures and additions to plant.....do....               | 6,132  | 11,918  | 27,759                          | 2,373   | 25,386   | 2,108           | 1,364   | 744  |
| New machinery and equipment.....do....                         | 25,011   | 31,632  | 78,251                          | 11,112  | 67,139   | 12,622          | 7,661   | 4,961  |
| Used plant and equipment.....do....                            | 2,350  | 4,627   | 11,345                          | 2,298   | 9,047  | 352             | 267   | 85   |
| Selected operating ratios:                                     |  |   |                                 |   |  |                 |   |  |
| Payroll/Total employment.....                                  | 5,031  | 5,100   | 5,740                           | 6,511   | 5,619  | 5,740           | 5,733   | 5,769  |
| Production workers/Total employment.....                       | .70  | .79   | .64                             | .62   | .65  | .79             | .79   | .81  |
| Man-hours/Production workers.....                              | 2,160  | 2,123   | 2,070                           | 2,101   | 2,085  | 2,111           | 2,110   | 2,115  |
| Production worker wages/Man-hours.....                         | 2.02   | 2.19  | 2.55                            | 2.92  | 2.49   | 2.51            | 2.48  | 2.63   |
| Cost of materials and payrolls/Total value of shipments.....   | .76  | .71   | .75                             | .73   | .75  | .66             | .66   | .66  |
| Cost of materials/Total value of shipments.....                | .52  | .42   | .57                             | .48   | .58  | .42             | .40   | .49  |
| Adjusted value added/Total employment.....                     | 10,359   | 10,325  | 13,730                          | 13,690  | 13,736   | 14,036          | 13,279  | 17,434   |
| Salaries and wages/Adjusted value added.....                   | .49  | .49   | .47                             | .48   | .41  | .41             | .43   | .33  |

See footnotes at end of table.



TABLE 3. Detailed Statistics: 1963—Continued

| Item   | Gypsum products (SIC 3275) |   |  | Cut stone and stone products (SIC 3281) |  |                      |                          |   |
|--|----------------------------|---|--|---|--|----------------------|--------------------------|---|
|  | Total                      | Subindustry   |  | Total                                   | Establishments dressing stone and quarrying- |                      |                          | Establishments dressing stone only <sup>5</sup> |
|  |                            | Establishments with mining or quarrying activity <sup>2</sup> | Establishments without mining or quarrying activity <sup>2</sup> |   | Limestone <sup>5</sup>                       | Granite <sup>5</sup> | Other stone <sup>5</sup> |   |
| Primary product specialization ratio <sup>3</sup> .....        | .97                        | (NA)  | (NA)   | .94                                     | (NA)   | (NA)                 | (NA)                     | (NA)  |
| Coverage ratio <sup>4</sup> .....                              | .98                        | (NA)  | (NA)   | .99                                     | (NA)   | (NA)                 | (NA)                     | (NA)  |
| Establishments, total.....number..                             | 122                        | 34  | 88   | 893                                     | 24   | 46                   | 48                       | 775   |
| With 1 to 19 employees.....do....                              | 50                         | -   | 50   | 682                                     | 7  | 16                   | 16                       | 643   |
| With 20 to 99 employees.....do....                             | 18                         | 6   | 12   | 175                                     | 10   | 23                   | 20                       | 122   |
| With 100 employees or more.....do....                          | 54                         | 28  | 26   | 36                                      | 7  | 7                    | 12                       | 10  |
| Proprietors and working partners.....do....                    | 36                         | (NA)  | (NA)   | 558                                     | (NA)   | (NA)                 | (NA)                     | (NA)  |
| All employees (average for the year).....do....                | 11,491                     | 6,134   | 5,357  | 18,340                                  | 1,751  | 2,414                | 4,176                    | 9,999   |
| Payroll (all employees), total for year.....\$1,000..          | 70,335                     | 36,457  | 33,878   | 85,745                                  | 8,686  | 11,350               | 17,226                   | 48,483  |
| Production workers:  |                            |   |  |   |  |                      |                          |   |
| Average for the year.....number..                              | 9,216                      | 5,014   | 4,202  | 15,259                                  | 1,501  | 2,032                | 3,732                    | 7,994   |
| March.....do....   | 8,868                      | 4,795   | 4,073  | 14,363                                  | 1,212  | 1,966                | 3,524                    | 7,661   |
| May.....do....   | 9,405                      | 5,183   | 4,222  | 15,522                                  | 1,689  | 2,063                | 3,688                    | 8,082   |
| August.....do....  | 9,385                      | 5,166   | 4,219  | 15,866                                  | 1,695  | 2,076                | 3,897                    | 8,198   |
| November.....do....  | 9,181                      | 4,902   | 4,279  | 15,274                                  | 1,410  | 2,013                | 3,816                    | 8,035   |
| Man-hours.....1,000..  | 20,766                     | 11,206  | 9,560  | 30,896                                  | 3,058  | 4,040                | 7,701                    | 16,097  |
| January-March.....do....                                       | 4,818                      | 2,581   | 2,237  | 6,933                                   | 564  | 943                  | 1,755                    | 3,671   |
| April-June.....do....  | 5,230                      | 2,852   | 2,378  | 8,102                                   | 886  | 1,047                | 1,963                    | 4,206   |
| July-September.....do....                                      | 5,556                      | 3,050   | 2,506  | 8,048                                   | 884  | 1,032                | 2,029                    | 4,103   |
| October-December.....do....                                    | 5,162                      | 2,723   | 2,439  | 7,813                                   | 724  | 1,018                | 1,954                    | 4,117   |
| Wages.....\$1,000..  | 54,455                     | 28,923  | 25,532   | 66,657                                  | 7,313  | 8,679                | 14,797                   | 35,868  |
| Cost of materials, etc., total.....do....                      | 164,445                    | 72,569  | 91,876   | 86,633                                  | 4,482  | 9,396                | 11,392                   | 61,363  |
| Materials, parts, containers, and supplies consumed.....do.... | 133,830                    | 58,562  | 75,268   | 70,599                                  | 3,379  | 7,482                | 9,289                    | 50,449  |
| Cost of resales.....do....                                     | 11,863                     | (D)   | (D)  | 6,860                                   | 360  | 876                  | 1,000                    | 4,624   |
| Fuels consumed.....do....                                      | 11,660                     | 5,704   | 5,956  | 1,698                                   | (D)  | 297                  | (D)                      | 837   |
| Electric energy:   |                            |   |  |   |  |                      |                          |   |
| Purchased:   |                            |   |  |   |  |                      |                          |   |
| Quantity.....million kw.-hrs..                                 | 601                        | 306   | 295  | 227                                     | 29   | 28                   | 47                       | 124   |
| Cost.....\$1,000..   | 6,981                      | 3,443   | 3,538  | 3,409                                   | 371  | 459                  | 741                      | 1,838   |
| Generated less sold.....million kw.-hrs..                      |                            |   |  |   |  |                      |                          |   |
| Contract work.....\$1,000..                                    | 111                        | (D)   | (D)  | 4,067                                   | (D)  | 282                  | (D)                      | 3,615   |
| Value of shipments (including resales), total.....do....       | 425,108                    | 206,012   | 219,096  | 217,176                                 | 17,250                                       | 27,295               | 34,047                   | 138,584   |
| Value of resales.....do....                                    | 16,788                     | (D)   | (D)  | 9,423                                   | 469  | 1,078                | 1,125                    | 6,751   |
| Value added by manufacture, adjusted.....do....                | 259,659                    | 133,612   | 126,047  | 131,465                                 | 12,762                                       | 17,996               | 22,865                   | 77,842  |
| Manufacturers' inventories:                                    |                            |   |  |   |  |                      |                          |   |
| Beginning of year, total.....do....                            | 31,035                     | 13,404  | 17,631   | 29,779                                  | 4,414  | 3,312                | 6,805                    | 15,248  |
| Finished products.....do....                                   | 11,604                     | 4,430   | 7,174  | 11,861                                  | 3,051  | 1,236                | 2,231                    | 5,343   |
| Work-in-process.....do....                                     | 2,894                      | 1,818   | 1,076  | 8,010                                   | 707  | 1,053                | 2,217                    | 4,033   |
| Materials, supplies, fuel, etc.....do....                      | 16,537                     | 7,156   | 9,381  | 9,908                                   | 656  | 1,023                | 2,357                    | 5,872   |
| End of year, total.....do....                                  | 36,456                     | 14,758  | 21,698   | 31,199                                  | 4,412  | 3,384                | 7,141                    | 16,262  |
| Finished products.....do....                                   | 9,717                      | 3,945   | 5,772  | 11,761                                  | 2,918  | 1,063                | 2,147                    | 5,633   |
| Work-in-process.....do....                                     | 3,777                      | 2,472   | 1,305  | 9,032                                   | 834  | 1,323                | 2,511                    | 4,364   |
| Materials, supplies, fuel, etc.....do....                      | 22,962                     | 8,341   | 14,621   | 10,406                                  | 660  | 998                  | 2,483                    | 6,265   |
| Expenditures for plant and equipment, total.....do....         | 15,263                     | (D)   | (D)  | 7,676                                   | (D)  | (D)                  | (D)                      | 3,958   |
| New, total.....do....  | 15,201                     | 7,275   | 7,926  | 6,693                                   | 713  | 744                  | 1,682                    | 3,554   |
| New structures and additions to plant.....do....               | 4,162                      | 1,964   | 2,198  | 1,378                                   | (D)  | (D)                  | (D)                      | 1,001   |
| New machinery and equipment.....do....                         | 11,039                     | 5,311   | 5,728  | 5,315                                   | (D)  | (D)                  | (D)                      | 2,553   |
| Used plant and equipment.....do....                            | 62                         | (D)   | (D)  | 983                                     | (D)  | (D)                  | 309                      | 404   |
| Selected operating ratios:                                     |                            |   |  |   |  |                      |                          |   |
| Payroll/Total employment.....                                  | 6,121                      | 5,943   | 6,324  | 4,675                                   | 4,961  | 4,702                | 4,125                    | 4,849   |
| Production workers/Total employment.....                       | .80                        | .82   | .78  | .83                                     | .86  | .84                  | .89                      | .80   |
| Man-hours/Production workers.....                              | 2,253                      | 2,253   | 2,275  | 2,025                                   | 2,037  | 1,988                | 2,064                    | 2,014   |
| Production worker wages/Man-hours.....                         | 2.62                       | 2.58  | 2.67   | 2.16                                    | 2.39   | 2.15                 | 1.92                     | 2.23  |
| Cost of materials and payrolls/Total value of shipments....    | .55                        | .53   | .57  | .79                                     | .76  | .76                  | .84                      | .79   |
| Cost of materials/Total value of shipments.....                | .39                        | .35   | .42  | .40                                     | .26  | .34                  | .33                      | .44   |
| Adjusted value added/Total employment.....                     | 22,597                     | 21,782  | 23,529   | 7,168                                   | 7,288  | 7,454                | 5,475                    | 7,785   |
| Salaries and wages/Adjusted value added.....                   | .27                        | .27   | .27  | .65                                     | .68  | .63                  | .75                      | .62   |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500,000 kw.-hrs.

<sup>1</sup>Less than 20 establishments (not including establishments reporting on "short forms") reported the operation of a mine or quarry in conjunction with manufacturing activity.

<sup>2</sup>Separate detailed data are not available for "small" establishments that operated mines or quarries in conjunction with manufacturing operations but reported on "short forms." These establishments are included with "Establishments without mining or quarrying activity."

<sup>3</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>4</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

<sup>5</sup>Separate detailed data are not available for approximately 80 "small" establishments that operated quarries in conjunction with dressing plants and reported on "short forms." Data for these establishments are included with "Establishments dressing stone only." The total value of shipments of these "small" establishments is less than \$7 million.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of- |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3271.—CONCRETE BLOCK AND BRICK     |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 1,841                 | 632                                | 372              | 470                | 302                | 60                 | 5                    | -                    | -                    | -                        | -                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 23,759                | 1,297                              | 2,524            | 6,528              | 8,792              | 3,987              | 627                  | -                    | -                    | -                        | -                        |
| Payroll.....\$1,000..                       | 119,543               | 4,637                              | 10,701           | 31,607             | 46,386             | 22,182             | 4,030                | -                    | -                    | -                        | -                        |
| Value added, adjusted.....do....            | 245,525               | 9,866                              | 23,589           | 70,294             | 92,591             | 42,015             | 7,170                | -                    | -                    | -                        | -                        |
| Value of shipments.....do....               | 505,194               | 22,264                             | 50,706           | 143,733            | 192,435            | 83,600             | 12,456               | -                    | -                    | -                        | -                        |
| Capital expenditures, new...do....          | 31,143                | <u>12,614</u>                      | 3,531            | 8,561              | 9,034              | 6,613              | 790                  | -                    | -                    | -                        | -                        |
| INDUSTRY 3272.—OTHER CONCRETE PRODUCTS      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 3,451                 | 1,553                              | 643              | 539                | 475                | 175                | 58                   | 7                    | 1                    | -                        | -                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 52,297                | 3,116                              | 4,284            | 7,424              | 14,645             | 11,702             | 8,356                | <u>2,770</u>         | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                       | 266,706               | 11,293                             | 18,322           | 36,413             | 73,960             | 64,694             | 43,419               | <u>18,605</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....            | 539,967               | 26,947                             | 36,133           | 73,102             | 150,255            | 127,825            | 97,725               | <u>27,980</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....               | 925,677               | 45,633                             | 60,630           | 120,813            | 255,259            | 223,494            | 167,621              | <u>52,227</u>        | (D)                  | -                        | -                        |
| Capital expenditures, new...do....          | 43,550                | <u>24,239</u>                      | 4,443            | 5,881              | 11,684             | 9,579              | 6,065                | <u>1,659</u>         | (D)                  | -                        | -                        |
| INDUSTRY 3273.—READY MIXED CONCRETE         |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 4,621                 | 1,407                              | 1,067            | 1,126              | 784                | 163                | 68                   | 5                    | 1                    | -                        | -                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 71,523                | 3,241                              | 7,252            | 15,449             | 23,178             | 10,662             | 9,659                | <u>2,082</u>         | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                       | 410,539               | 17,445                             | 36,025           | 84,505             | 134,691            | 61,977             | 61,906               | <u>13,990</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....            | 981,997               | 59,074                             | 101,359          | 213,926            | 318,758            | 134,621            | 131,204              | <u>23,055</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....               | 2,292,504             | 149,243                            | 245,176          | 505,426            | 730,039            | 308,157            | 305,805              | <u>48,658</u>        | (D)                  | -                        | -                        |
| Capital expenditures, new...do....          | 106,010               | <u>36,657</u>                      | 11,381           | 21,175             | 31,750             | 13,315             | 18,341               | <u>3,391</u>         | (D)                  | -                        | -                        |
| INDUSTRY 3274.—LIME                         |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 125                   | 26                                 | 14               | 17                 | 25                 | 22                 | 16                   | 4                    | 1                    | -                        | -                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 6,778                 | 40                                 | 93               | 252                | 746                | 1,537              | 2,133                | <u>1,977</u>         | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                       | 38,903                | 211                                | 439              | 1,376              | 4,347              | 8,354              | 12,114               | <u>12,062</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....            | 95,135                | 933                                | 1,114            | 3,413              | 12,114             | 20,913             | 29,882               | <u>26,766</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....               | 164,366               | <u>1,269</u>                       | 1,592            | 5,913              | 24,232             | 37,939             | 47,935               | <u>45,486</u>        | (D)                  | -                        | -                        |
| Capital expenditures, new...do....          | 14,730                | <u>43,936</u>                      | (D)              | (D)                | 890                | 2,885              | 2,759                | <u>4,260</u>         | (D)                  | -                        | -                        |
| INDUSTRY 3275.—GYPSUM PRODUCTS              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 122                   | 39                                 | 9                | 2                  | 4                  | 14                 | 46                   | 8                    | -                    | -                        | -                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 11,491                | 48                                 | 99               | (D)                | 129                | 1,100              | 7,542                | 2,573                | -                    | -                        | -                        |
| Payroll.....\$1,000..                       | 70,335                | 234                                | <u>471</u>       | (D)                | 634                | 6,708              | 46,526               | 15,762               | -                    | -                        | -                        |
| Value added, adjusted.....do....            | 259,659               | 632                                | <u>1,786</u>     | (D)                | 2,004              | 23,520             | 179,319              | 52,398               | -                    | -                        | -                        |
| Value of shipments.....do....               | 425,108               | 1,084                              | <u>3,093</u>     | (D)                | 4,050              | 41,484             | 293,454              | 81,943               | -                    | -                        | -                        |
| Capital expenditures, new...do....          | 15,201                | <u>13,106</u>                      | (D)              | (D)                | (D)                | 2,374              | 6,360                | 3,361                | -                    | -                        | -                        |
| INDUSTRY 3281.—CUT STONE AND STONE PRODUCTS |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 893                   | 365                                | 165              | 152                | 137                | 38                 | 28                   | 6                    | 2                    | -                        | -                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 18,340                | 680                                | 1,122            | 2,026              | 4,358              | 2,518              | 3,820                | <u>3,816</u>         | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                       | 85,745                | 2,973                              | 4,637            | 9,094              | 21,812             | 12,623             | 16,516               | <u>18,090</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....            | 131,465               | 5,517                              | 8,559            | 15,925             | 33,155             | 16,541             | 28,269               | <u>23,499</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....               | 217,176               | 9,645                              | 14,722           | 27,976             | 57,857             | 27,852             | 41,958               | <u>37,166</u>        | (D)                  | -                        | -                        |
| Capital expenditures, new...do....          | 6,693                 | <u>3,686</u>                       | 576              | 702                | 1,148              | 685                | 1,813                | <u>1,083</u>         | (D)                  | -                        | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

<sup>1</sup>Includes capital expenditures between \$1 million and \$2 million for plants under construction but not in operation.

<sup>2</sup>Includes capital expenditures between \$500 thousand and \$1 million for plants under construction but not in operation.

<sup>3</sup>Includes capital expenditures for plants under construction but not in operation which constitute a small proportion of the total for the size class.

<sup>4</sup>Includes capital expenditures over \$3 million for plants under construction but not in operation.



**TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958**

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments         |                       |                          |                               |
|-----------|---|--------------------|------------------|--------------------|------------------------|--------------------------------------|--|-----------------------|--------------------------|-------------------------------|
|           |   | Total <sup>1</sup> | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries <sup>1</sup> | Made in this industry | Made in other industries | Coverage ratio                |
|           |   | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                                  | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |   | A                  | B                | C                  | D                      | E                                    | F  | G                     | H                        | I                             |
| 3271      | Concrete block and brick.....1963..     | 505,194            | 395,492          | 35,754             | 73,948                 | 92                                   | 472,419                                    | 395,492               | 76,927                   | 84                            |
|           | 1958..                                  | 413,670            | 314,695          | 34,645             | 64,330                 | 90                                   | 379,068                                    | 314,695               | 64,375                   | 83                            |
| 3272      | Other concrete products.....1963..      | 925,677            | 806,609          | 47,771             | 71,297                 | 94                                   | 861,878                                    | 806,609               | 55,269                   | 94                            |
|           | 1958..                                  | 718,543            | 622,162          | 38,868             | 57,513                 | 94                                   | 661,142                                    | 622,162               | 38,980                   | 94                            |
| 3273      | Ready mixed concrete.....1963..         | 2,292,504          | 1,923,644        | 173,392            | 195,468                | 92                                   | 1,970,701                                  | 1,923,644             | 47,057                   | 98                            |
|           | 1958..                                  | 1,681,926          | 1,423,544        | 119,517            | 138,865                | 92                                   | 1,463,569                                  | 1,423,544             | 40,025                   | 97                            |
| 3274      | Lime <sup>2</sup> .....1963..           | 164,366            | 128,557          | 27,954             | 7,855                  | 82                                   | 136,875                                    | 128,557               | 8,318                    | 94                            |
|           | 1958..                                  | 130,948            | 103,663          | 21,516             | 5,769                  | 83                                   | 108,976                                    | 103,663               | 5,313                    | 95                            |
| 3275      | Gypsum products.....1963..              | 425,108            | 395,611          | 12,554             | 16,943                 | 97                                   | 405,101                                    | 395,611               | 9,490                    | 98                            |
|           | 1958..                                  | 364,947            | 336,009          | 16,495             | 12,443                 | 95                                   | 344,244                                    | 336,009               | 8,235                    | 98                            |
| 3281      | Cut stone and stone products.....1963.. | 217,176            | 189,655          | 12,696             | 14,825                 | 94                                   | 190,948                                    | 189,655               | 1,293                    | 99                            |
|           | 1958..                                  | 206,264            | 185,187          | 8,779              | 12,298                 | 95                                   | 191,054                                    | 185,187               | 5,867                    | 97                            |

NOTE: See Introduction for an explanation of terms used.

<sup>1</sup>1958 totals shown here may differ from comparable totals in other tables because of the exclusion of 1958 data for Alaska and Hawaii from this table.

<sup>2</sup>The cost of shipping containers is included in the value of primary products for 1963. In 1958, \$3,337 thousand of shipping containers were reported separately and included in miscellaneous receipts.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c)

miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code | Class of products and miscellaneous receipts          | All industries | Concrete block and brick (SIC 3271) | Other concrete products (SIC 3272) | Ready mixed concrete (SIC 3273) | Lime (SIC 3274)    | Gypsum products (SIC 3275) | Cut stone and stone products (SIC 3281) | Crushed and broken limestone (SIC 1422) | Construction sand and gravel (SIC 1442) | Other industries    |
|------------------|---|----------------|-------------------------------------|------------------------------------|---------------------------------|--------------------|----------------------------|---|---|---|---------------------|
|                  | Total shipments and receipts of the industry.....     | (X)            | 505,194                             | 925,677                            | 2,292,504                       | 164,366            | 425,108                    | 217,176                                 | (X)                                     | (X)                                     | (X)                 |
| 327-328-         | Concrete, gypsum, stone, and plaster products.....    | (X)            | 426,177                             | (D)                                | 2,001,957                       | 129,001            | 395,611                    | (D)                                     | (X)                                     | (X)                                     | (X)                 |
| 32710            | Concrete brick and block.....                         | 472,419        | 395,492                             | 21,931                             | 53,051                          | -                  | -                          | -                                       | (D)                                     | (D)                                     | 1,436               |
| 32721            | Concrete pipe.....                                    | 369,259        | 3,669                               | 358,051                            | 5,196                           | -                  | -                          | (Z)                                     | -                                       | -                                       | 2,314               |
| 32722            | Precast concrete products.....                        | 297,300        | 13,411                              | 267,972                            | 9,985                           | (D)                | -                          | (D)                                     | (D)                                     | -                                       | 4,243               |
| 32723            | Prestressed concrete products.....                    | 140,939        | 2,881                               | 126,593                            | 8,339                           | -                  | -                          | (D)                                     | -                                       | -                                       | (D)                 |
| 32720            | Concrete products, n.s.k.....                         | 54,380         | 202                                 | 53,993                             | (Z)                             | -                  | -                          | -                                       | -                                       | -                                       | 120                 |
| 32730            | Ready mixed concrete.....                             | 1,970,701      | 10,522                              | 10,394                             | 1,923,644                       | -                  | -                          | -                                       | 4,313                                   | 8,733                                   | <sup>2</sup> 13,095 |
| 32740            | Lime.....   | 136,875        | -                                   | -                                  | -                               | 128,557            | -                          | -                                       | (D)                                     | -                                       | (D)                 |
| 32750            | Gypsum products.....                                  | 405,101        | -                                   | (D)                                | 1,657                           | (D)                | 395,611                    | -                                       | -                                       | -                                       | 7,519               |
| 32811            | Cut granite and granite products.....                 | 87,822         | -                                   | (D)                                | -                               | -                  | -                          | (D)                                     | -                                       | -                                       | (D)                 |
| 32812            | Cut limestone and limestone products..                | 29,084         | -                                   | -                                  | -                               | -                  | -                          | (D)                                     | (D)                                     | -                                       | (D)                 |
| 32813            | Cut marble and other cut stone products               | 63,606         | -                                   | -                                  | (Z)                             | -                  | -                          | 62,623                                  | (D)                                     | (D)                                     | (D)                 |
| 32810            | Cut stone and stone products, n.s.k....               | 10,436         | -                                   | -                                  | -                               | -                  | -                          | (D)                                     | -                                       | -                                       | (D)                 |
|                  | Other products.....                                   | (X)            | 5,069                               | (D)                                | 95,079                          | 27,510             | 12,554                     | (D)                                     | (X)                                     | (X)                                     | (X)                 |
| 14222            | Crushed and broken limestone.....                     | (X)            | (D)                                 | -                                  | 6,948                           | 17,138             | -                          | (D)                                     | (X)                                     | (X)                                     | (X)                 |
| 14292            | Other crushed and broken slate, marble, etc.....      | (X)            | -                                   | -                                  | 11,692                          | (D)                | -                          | 1,947                                   | (X)                                     | (X)                                     | (X)                 |
| 14420            | Common sand and gravel.....                           | (X)            | 1,743                               | 1,885                              | 52,736                          | -                  | -                          | (D)                                     | (X)                                     | (X)                                     | (X)                 |
| 29510            | Paving mixtures and blocks.....                       | (X)            | (D)                                 | 2,872                              | 14,740                          | -                  | (D)                        | -                                       | (X)                                     | (X)                                     | (X)                 |
| 32950            | Minerals and earths, ground or otherwise treated..... | (X)            | (D)                                 | (D)                                | 4,104                           | (D)                | (D)                        | (D)                                     | (X)                                     | (X)                                     | (X)                 |
|                  | Other secondary products.....                         | (X)            | 1,925                               | 9,729                              | 4,859                           | <sup>3</sup> 9,492 | 46,662                     | <sup>5</sup> 9,032                      | (X)                                     | (X)                                     | (X)                 |
|                  | Miscellaneous receipts.....                           | (X)            | 73,948                              | 71,297                             | 195,468                         | 7,855              | 16,943                     | 14,825                                  | (X)                                     | (X)                                     | (X)                 |
|                  | Resales.....  | (X)            | 70,218                              | 37,412                             | 147,832                         | 7,268              | 16,788                     | 9,423                                   | (X)                                     | (X)                                     | (X)                 |
|                  | Other miscellaneous receipts.....                     | (X)            | 3,730                               | 33,885                             | 47,636                          | 587                | 155                        | 5,402                                   | (X)                                     | (X)                                     | (X)                 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$100 thousand.

n.s.k. Not specified by kind.

<sup>1</sup>Includes \$1 million shipped by industry 3259, Structural Clay Products, N.E.C.

<sup>2</sup>Includes \$7 million shipped by industry 2951, Paving Mixtures and Blocks; \$3 million shipped by industry 1429, Crushed and Broken Stone, N.E.C. In addition industry 1423, Crushed and Broken Granite, had shipments which totaled \$2 million or more. The exact figure is withheld to avoid disclosing individual company figures.

<sup>3</sup>Includes shipments of \$2 million or more of product class 32970, Nonclay refractories. The exact amount is withheld to avoid disclosing figures for individual companies.

<sup>4</sup>Includes shipments of \$2 million or more of product class 14922, Crushed, ground, screened or dried gypsum. The exact amount is withheld to avoid disclosing figures of individual companies.

<sup>5</sup>Includes \$3 million for industry 1419, Dimension Stone, N.E.C.; \$2 million for industry 1412, Dimension Limestone, and \$2 million for industry 1429, Crushed and Broken Stone, N.E.C.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Unit of measure                        | Total shipments including interplant transfers |                 |                  |                  |
|--------------|---|--|--|-----------------|------------------|------------------|
|              |   |  | 1963   |                 | 1958             |                  |
|              |   |  | Quantity                                       | Value (\$1,000) | Quantity         | Value (\$1,000)  |
| 3271- --     | CONCRETE BLOCK AND BRICK, TOTAL.....  |  | (X)  | 472,419         | (X)              | 379,068          |
|              | Block:  |  |  |                 |                  |                  |
| 32710 11     | Lightweight aggregate (cinder, expanded slag, pumice, expanded clays, shales, slates, etc.).....  | 1,000 blocks (8"x8"x16" equivalent)... |  |                 |                  |                  |
| 32710 15     | Heavyweight aggregate.....  | ..do.....                              | 1,216,458                                      | 261,509         | 1,011,157        | 207,380          |
|              |   |  | 845,930  | 167,024         | 751,096          | 141,720          |
| 32710 51     | Brick.....  | 1,000 bricks..                         | 424,112  | 13,434          | 357,253          | 11,425           |
| 32710 00     | Concrete block and brick, n.s.k.....  |  | (X)  | 30,452          | (X)              | 18,543           |
| 3272- --     | CONCRETE PRODUCTS, EXCEPT BLOCK AND BRICK, TOTAL.....   |  | (X)  | 861,878         | (X)              | 662,142          |
| 32721 --     | Concrete pipe, total <sup>1</sup> .....   |  | (X)  | 369,259         | (X)              | 294,786          |
| 32721 07     | Prestressed pipe.....   | 1,000 lin. ft.                         | 4,062  | 60,362          | ( <sup>1</sup> ) | ( <sup>1</sup> ) |
|              | Concrete pipe (except prestressed), reinforced and non-reinforced:  |  |  |                 |                  |                  |
|              | Culvert pipe:   |  |  |                 |                  |                  |
| 32721 13     | Reinforced.....   | ..do.....                              | 22,648   | 98,520          | (NA)}            | 103,050          |
| 32721 15     | Nonreinforced.....  | ..do.....                              | 7,960  | 12,346          | (NA)}            |                  |
|              | Sewer pipe:   |  |  |                 |                  |                  |
|              | Reinforced:   |  |  |                 |                  |                  |
| 32721 22     | 24 inches or more.....  | ..do.....                              | 6,991  | 62,654          | (NA)}            | 72,344           |
| 32721 23     | Less than 24 inches.....  | ..do.....                              | 9,242  | 28,900          | (NA)}            |                  |
|              | Nonreinforced:  |  |  |                 |                  |                  |
| 32721 26     | 15 inches or more.....  | ..do.....                              | 4,271  | 7,040           | (NA)}            | 23,532           |
| 32721 27     | Less than 15 inches.....  | ..do.....                              | 23,716   | 17,597          | (NA)}            |                  |
|              | Pressure pipe:  |  |  |                 |                  |                  |
| 32721 33     | 24 inches or more.....  | ..do.....                              | 1,068  | 15,483          | (NA)}            | 64,929           |
| 32721 35     | Less than 24 inches.....  | ..do.....                              | (S)  | 4,635           | (NA)}            |                  |
| 32721 41     | Irrigation pipe.....  | 1,000 lin. ft.                         | 11,109   | 10,306          | (NA)             | 9,981            |
| 32721 98     | Other concrete pipe (such as drain tile and conduits).....  | ..do.....                              | 50,485   | 17,419          | (NA)             | 16,799           |
| 32721 00     | Concrete pipe, n.s.k.....   |  | (X)  | 33,997          | (NA)             | 4,151            |
| 32722 --     | Precast concrete products, total <sup>2</sup> .....   |  | (X)  | 297,300         | (NA)             | (NA)             |
|              | Roof and floor units:   |  |  |                 |                  |                  |
| 32722 13     | Slabs and tile.....   | 1,000 tons....                         | 569  | 30,616          | (NA)             | (NA)             |
| 32722 17     | Joists and beams.....   | ..do.....                              | 113  | 8,122           | (NA)             | (NA)             |
| 32722 23     | Architectural wall panels.....  | ..do.....                              | 303  | 42,549          | (NA)             | (NA)             |
| 32722 25     | Piling, posts and poles.....  | ..do.....                              | 73   | 2,906           | (NA)             | (NA)             |
| 32722 27     | Cast stone (products for architectural purposes (except architectural wall panels) such as window sills, ashlar, coping, lintels and other trim).....   |  | (X)  | 23,117          | (NA)             | (NA)             |
| 32722 29     | Other precast concrete construction or building products (including prefabricated housing components, reinforced columns, etc.).....  |  | (X)  | 32,931          | (NA)             | (NA)             |
| 32722 33     | Burial vaults.....  | Number.....                            | 704,299  | 50,679          | 681,437          | 41,168           |
| 32722 35     | Burial boxes.....   | ..do.....                              | 167,734  | 6,724           | 135,933          | 3,797            |
| 32722 41     | Silo staves.....  |  | (S)  | 15,883          | (NA)             | 6,173            |
| 32722 61     | Septic tanks.....   | Number.....                            | 335,218  | 28,272          | (NA)             | (NA)             |
| 32722 71     | Dry-mixed concrete materials (including prepackaged sand, gravel and cement, mortar and cement premixes).....   | Short tons....                         | 524,463  | 13,011          | (NA)             | (NA)             |
| 32722 98     | Other precast concrete products, except construction or building products (including garden furniture, storage tanks, laundry trays, grave stones, catch basin covers, shower receptors, etc.)..... |  | (X)  | 17,312          | (X)              | (NA)             |
| 32722 00     | Precast concrete products, n.s.k.....   |  | (X)  | 25,178          | (X)              | (NA)             |
| 32723 --     | Prestressed concrete products, except prestressed pipe, total <sup>2</sup> ....   |  | (X)  | 140,939         | (NA)             | (NA)             |
| 32723 11     | Single tees, double tees and channels.....  | 1,000 tons....                         | 1,001  | 43,510          | (NA)             | (NA)             |
| 32723 21     | Joists, beams, girders, and piling (bearing and sheet).....   | ..do.....                              | 1,096  | 45,681          | (NA)             | (NA)             |
| 32723 31     | Slabs, tile and panels.....   | ..do.....                              | 632  | 24,316          | (NA)             | (NA)             |
| 32723 98     | Other prestressed concrete products (such as arches, columns, etc.).....  | ..do.....                              | 207  | 11,192          | (NA)             | (NA)             |
| 32723 00     | Prestressed concrete products, n.s.k.....   |  | (X)  | 16,240          | (NA)             | (NA)             |
| 32720 00     | Concrete products, not n.s.k.....   |  | (X)  | 54,380          | (X)              | 80,260           |
| 3273- --     | READY MIXED CONCRETE, TOTAL.....  |  | (X)  | 1,970,701       | (X)              | 1,468,569        |
| 32730 11     | Ready mixed concrete:   |  |  |                 |                  |                  |
|              | Quantity reported.....  | Cubic yards...                         | 128,650,569                                    | 1,774,782       | 72,933,700       | 944,492          |
|              | Quantity not reported.....  |  | (X)  | 195,919         | (X)              | 524,077          |

See footnotes at end of table.





**TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958**

| Product code | Product and year                         | Indexes (1954 = 100) |                  |
|--------------|--|----------------------|------------------|
|              |  | Production           | Unit value       |
| 327          | Concrete and plaster products.....1963.. | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | 1958..                                   | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 3271         | Concrete block and brick.....1963..      | 121                  | 111              |
|              | 1958..                                   | 101                  | 109              |
| 3273         | Ready mixed concrete.....1963..          | 182                  | 119              |
|              | 1958..                                   | 144                  | 112              |
| 3274         | Lime.....1963..                          | 123                  | 119              |
|              | 1958..                                   | 111                  | 108              |
| 3281         | Cut stone and stone products.....1963..  | ( <sup>2</sup> )     | ( <sup>2</sup> ) |
|              | 1958..                                   | ( <sup>2</sup> )     | ( <sup>2</sup> ) |

<sup>1</sup>Not shown pending further review of data for industry 3275, Gypsum Products.  
<sup>2</sup>Not shown pending further review of data for this industry.

**TABLE 6C. Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963**

| Code  | Product class   | 1963                   | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958                   | 1954             | 1947                |
|-------|---|------------------------|-------------------|-------------------|-------------------|-------------------|------------------------|------------------|---------------------|
| 32710 | Concrete block and brick:                                     |                        |                   |                   |                   |                   |                        |                  |                     |
|       | Quantity.....1,000 blocks..                                   | <sup>2</sup> 2,658,545 | 2,235,535         | 2,353,967         | 2,197,541         | 2,271,340         | <sup>3</sup> 2,228,582 | 2,161,887        | 1,329,554           |
|       | Value.....\$1,000..   | 472,419                | 441,630           | 451,141           | 431,634           | 433,826           | 379,068                | 341,882          | 180,280             |
| 3272- | Other concrete products, except block and brick.....\$1,000.. | 861,878                | 784,620           | 743,959           | 742,184           | 704,107           | 662,142                | 335,541          | 149,450             |
| 32721 | Concrete pipe.....do..  | 369,259                | 336,391           | 317,984           | 321,890           | 314,984           | 294,786                | 184,316          | 82,446              |
| 32722 | Precast concrete products <sup>4</sup> .....do..              | 297,300                |                   |                   |                   |                   |                        |                  |                     |
| 32723 | Prestressed concrete products.....do..                        | 140,939                | 387,897           | 365,035           | 336,046           | 305,873           | 287,096                | 151,225          | 67,004              |
| 32720 | Concrete products, n.s.k.....do..                             | 54,380                 |                   |                   |                   |                   |                        |                  |                     |
| 32730 | Ready mixed concrete:   |                        |                   |                   |                   |                   |                        |                  |                     |
|       | Quantity.....1,000 cu.yds..                                   | <sup>5</sup> 142,867   | 140,406           | 133,055           | 117,252           | 123,465           | <sup>6</sup> 113,017   | ( <sup>7</sup> ) | ( <sup>7</sup> )    |
|       | Value.....\$1,000..   | 1,970,701              | 1,755,825         | 1,702,894         | 1,645,844         | 1,666,775         | 1,468,569              | ( <sup>7</sup> ) | ( <sup>7</sup> )    |
| 32740 | Lime.....\$1,000..  | 136,875                | 126,790           | 126,449           | 124,447           | 124,284           | 108,976                | 90,164           | 65,207              |
| 3275- | Gypsum products.....\$1,000..                                 | 405,101                | 384,093           | 352,799           | 358,798           | 384,916           | 344,244                | 273,458          | 125,910             |
| 32751 | Gypsum building materials.....do..                            | 405,101                | 344,543           | 316,182           | 323,690           | 355,891           | 333,039                | 265,899          | 120,917             |
| 32752 | Other gypsum products.....do..                                |                        | (S)               | (S)               | (S)               | (S)               | 6,604                  | 5,750            | 3,710               |
| 32750 | Gypsum products, n.s.k.....do..                               |                        | (S)               | (S)               | (S)               | (S)               | 4,917                  | 4,601            | 1,809               |
| 3281- | Cut stone and stone products.....\$1,000..                    | 190,948                | (210,828)         | (210,285)         | 188,706           | 201,012           | 191,054                | 166,768          | <sup>8</sup> 67,205 |
| 32811 | Cut granite.....do..  | 87,822                 | (97,256)          | (98,011)          | 95,011            | 93,602            | 87,906                 | 67,510           | <sup>8</sup> 40,453 |
| 32812 | Cut limestone.....do..  | 29,084                 | (41,108)          | (36,216)          | 32,749            | 36,462            | 35,073                 | 40,017           | <sup>8</sup> 10,084 |
| 32813 | Cut marble and other cut stone products.....do..              | 63,606                 | (46,686)          | (50,488)          | 50,198            | 52,006            | 55,727                 | 48,774           | <sup>8</sup> 16,668 |
| 32810 | Cut stone and stone products, n.s.k....do..                   | 10,436                 | (S)               | (S)               | (S)               | (S)               | 12,348                 | 10,467           | (X)                 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

n.s.k. Not specified by kind.

<sup>1</sup>See footnote 1, table 1.

<sup>2</sup>Includes estimate for shipments of \$30,452 thousand of concrete block and brick not specified by kind.

<sup>3</sup>Includes estimate for shipments of \$18,453 thousand of concrete block and brick not specified by kind.

<sup>4</sup>See footnote 2, table 6A.

<sup>5</sup>Includes estimate for shipments of \$195,919 thousand of ready mixed concrete for which quantity was not reported.

<sup>6</sup>Includes estimate for shipments of \$519,077 thousand of ready mixed concrete for which quantity was not reported.

<sup>7</sup>See footnote 5, table 1.

<sup>8</sup>The 1947 data represent only the products of dressing plants not operated in conjunction with quarries.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area | Value of shipments |         | Product class and geographic area           | Value of shipments | Product class and geographic area               | Value of shipments |                   |
|-----------------------------------|--------------------|---------|---|--------------------|---|--------------------|-------------------|
|                                   | 1963 <sup>1</sup>  | 1958    |   |                    |   | 1963 <sup>1</sup>  | 1963 <sup>1</sup> |
| CONCRETE PIPE (32721)             |                    |         | PRECAST CONCRETE PRODUCTS (32722)—Continued |                    | PRESTRESSED CONCRETE PRODUCTS (32723)—Continued |                    |                   |
| United States, total....          | 369,259            | 294,786 | East North Central.....                     | 70,519             | South Atlantic.....                             |                    | 36,904            |
| New England.....                  | 12,265             | 12,024  | Ohio.....                                   | 16,345             | Virginia.....                                   |                    | 9,428             |
| Massachusetts.....                | 4,594              | 5,134   | Indiana.....                                | 11,279             | North Carolina.....                             |                    | 3,931             |
| Connecticut.....                  | 5,387              | 3,885   | Illinois.....                               | 18,891             | South Carolina.....                             |                    | 2,880             |
| Middle Atlantic.....              | 30,656             | 34,785  | Michigan.....                               | 12,212             | Florida.....                                    |                    | 18,370            |
| New York.....                     | 10,812             | 11,368  | Wisconsin.....                              | 11,792             | East South Central.....                         |                    | 6,937             |
| New Jersey.....                   | 12,069             | 13,242  | West North Central.....                     | 27,637             | Tennessee.....                                  |                    | 4,000             |
| Pennsylvania.....                 | 7,775              | 10,175  | Minnesota.....                              | 10,422             | Alabama.....                                    |                    | 1,043             |
| East North Central.....           | 80,660             | 63,280  | Iowa.....                                   | 5,818              | West South Central.....                         |                    | 15,323            |
| Ohio.....                         | 24,407             | 19,898  | Missouri.....                               | 5,803              | Texas.....                                      |                    | 8,798             |
| Indiana.....                      | 6,804              | 5,805   | Nebraska.....                               | 2,425              | Mountain.....                                   |                    | 9,287             |
| Illinois.....                     | 20,489             | 17,479  | Kansas.....                                 | 2,279              | Arizona.....                                    |                    | 2,614             |
| Michigan.....                     | 22,929             | 15,991  | South Atlantic.....                         | 58,484             | Pacific.....                                    |                    | 20,644            |
| Wisconsin.....                    | 6,031              | 4,107   | Maryland.....                               | 10,223             | Washington.....                                 |                    | 5,026             |
| West North Central.....           | 29,912             | 23,740  | Virginia.....                               | 11,699             | Oregon.....                                     |                    | 2,217             |
| Minnesota.....                    | 10,230             | 7,736   | West Virginia.....                          | 1,228              | California.....                                 |                    | 10,820            |
| Iowa.....                         | 5,233              | 3,513   | North Carolina.....                         | 6,330              | Hawaii.....                                     |                    | 2,581             |
| Missouri.....                     | 4,722              | 2,874   | South Carolina.....                         | 1,372              | CUT GRANITE AND GRANITE PRODUCTS (32811)        |                    |                   |
| Kansas.....                       | 4,638              | 4,674   | Georgia.....                                | 7,426              | United States, total...                         | 87,822             | 87,906            |
| South Atlantic.....               | 61,077             | 43,574  | Florida.....                                | 18,818             | New England.....                                | 31,227             | 33,739            |
| Maryland.....                     | 17,058             | 10,147  | East South Central.....                     | 14,037             | Maine.....                                      | 1,137              | (Z)               |
| Virginia.....                     | 9,099              | 6,402   | Kentucky.....                               | 2,633              | Vermont.....                                    | 20,871             | 24,737            |
| North Carolina.....               | 6,322              | 5,251   | Tennessee.....                              | 5,207              | Massachusetts.....                              | 4,746              | 5,552             |
| South Carolina.....               | 6,973              | 6,515   | Alabama.....                                | 4,459              | Middle Atlantic.....                            | 6,292              | 5,499             |
| Georgia.....                      | 8,609              | 5,397   | Mississippi.....                            | 1,738              | New York.....                                   | 3,961              | 3,351             |
| Florida.....                      | 10,618             | 7,382   | West South Central.....                     | 20,907             | East North Central.....                         | 2,453              | 5,413             |
| East South Central.....           | 20,480             | 18,312  | Arkansas.....                               | 1,143              | Wisconsin.....                                  | 1,004              | 1,536             |
| Kentucky.....                     | 2,259              | 2,890   | Louisiana.....                              | 2,571              | West North Central.....                         | 23,138             | 18,935            |
| Tennessee.....                    | 6,163              | 5,071   | Oklahoma.....                               | 2,066              | Minnesota.....                                  | 19,846             | 15,003            |
| Alabama.....                      | 3,936              | 6,183   | Texas.....                                  | 15,127             | Kansas.....                                     | 1,077              | 1,929             |
| Mississippi.....                  | 8,122              | 4,168   | Mountain.....                               | 9,721              | South Atlantic.....                             | 16,539             | 15,778            |
| West South Central.....           | 47,999             | 33,057  | Colorado.....                               | 3,211              | North Carolina.....                             | 2,466              | 2,540             |
| Arkansas.....                     | 2,691              | 1,481   | Arizona.....                                | 1,907              | Georgia.....                                    | 13,162             | 11,312            |
| Louisiana.....                    | 7,891              | 5,787   | Pacific.....                                | 25,824             | East South Central.....                         | 1,319              | 1,580             |
| Oklahoma.....                     | 3,351              | 2,451   | Washington.....                             | 4,806              | West South Central.....                         | 3,290              | 3,109             |
| Texas.....                        | 34,066             | 23,338  | Oregon.....                                 | 1,361              | Texas.....                                      | 3,081              | 2,406             |
| Mountain.....                     | 18,490             | 11,639  | California.....                             | 19,089             | West.....                                       | 3,564              | (2)               |
| Idaho.....                        | 1,499              | 1,943   | PRESTRESSED CONCRETE PRODUCTS (32723)       |                    | California.....                                 | 3,043              | 2,868             |
| Colorado.....                     | 4,181              | 1,948   | United States, total...                     | 140,939            | CUT LIMESTONE AND LIMESTONE PRODUCTS (32812)    |                    |                   |
| Utah.....                         | 2,581              | 2,503   | New England.....                            | 5,981              | United States, total...                         |                    | 29,084            |
| Pacific.....                      | 67,720             | 54,375  | Massachusetts.....                          | 4,584              | Middle Atlantic.....                            |                    | 1,039             |
| Washington.....                   | 9,708              | 6,219   | Middle Atlantic.....                        | 13,402             | East North Central.....                         |                    | 20,849            |
| Oregon.....                       | 6,103              | 5,218   | New York.....                               | 2,740              | Indiana.....                                    |                    | 14,669            |
| California.....                   | 50,030             | 42,938  | New Jersey.....                             | 4,730              | Illinois.....                                   |                    | 2,709             |
| PRECAST CONCRETE PRODUCTS (32722) |                    |         | Pennsylvania.....                           | 5,932              | Wisconsin.....                                  |                    | 2,203             |
| United States, total....          |                    | 297,300 | East North Central.....                     | 24,453             | West North Central.....                         |                    | 2,564             |
| New England.....                  |                    | 14,472  | Ohio.....                                   | 6,908              | Minnesota.....                                  |                    | 1,680             |
| Massachusetts.....                |                    | 6,765   | Indiana.....                                | 1,261              |   |                    |                   |
| Rhode Island.....                 |                    | 1,259   | Illinois.....                               | 5,591              |   |                    |                   |
| Connecticut.....                  |                    | 4,891   | Michigan.....                               | 4,972              |   |                    |                   |
| Middle Atlantic.....              |                    | 55,699  | Wisconsin.....                              | 5,721              |   |                    |                   |
| New York.....                     |                    | 22,906  | West North Central.....                     | 8,008              |   |                    |                   |
| New Jersey.....                   |                    | 16,658  | Minnesota.....                              | 1,713              |   |                    |                   |
| Pennsylvania.....                 |                    | 16,135  | Iowa.....                                   | 2,835              |   |                    |                   |

See footnotes at end of table.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area                      | Value of shipments |        | Product class and geographic area                         | Value of shipments |        | Product class and geographic area                         | Value of shipments |                  |
|--|--------------------|--------|---|--------------------|--------|---|--------------------|------------------|
|  | 1963 <sup>1</sup>  | 1958   |   | 1963 <sup>1</sup>  | 1958   |   | 1963 <sup>1</sup>  | 1958             |
| CUT LIMESTONE AND LIMESTONE PRODUCTS (32812)—Continued | 1963 <sup>1</sup>  |        | CUT MARBLE AND OTHER CUT STONE PRODUCTS (32813)—Continued | 1963 <sup>1</sup>  | 1958   | CUT MARBLE AND OTHER CUT STONE PRODUCTS (32813)—Continued | 1963 <sup>1</sup>  | 1958             |
| South Atlantic.....                                    | 1,169              |        | Middle Atlantic.....                                      | 13,303             | 11,499 | South Atlantic.....                                       | 7,855              | 7,188            |
| East South Central.....                                | 1,364              |        | New York.....   | 7,032              | 6,211  | Virginia.....   | 1,633              | 1,015            |
| West South Central.....                                | 1,044              |        | Pennsylvania.....   | 5,704              | 5,029  | East South Central.....                                   | 7,140              | 7,177            |
| All other divisions.....                               | 1,055              |        | East North Central.....                                   | 10,366             | 14,068 | Tennessee.....  | 4,860              | 5,654            |
| CUT MARBLE AND OTHER CUT STONE PRODUCTS (32813)        | 1963 <sup>1</sup>  | 1958   | Ohio.....   | 5,032              | 5,881  | West South Central.....                                   | 1,397              | (Z)              |
| United States, total....                               | 63,606             | 55,727 | Indiana.....  | 1,679              | 1,450  | West.....   | 3,339              | ( <sup>2</sup> ) |
| New England.....                                       | 13,382             | 7,348  | Illinois.....   | 2,080              | 4,072  | California.....   | 2,625              | 1,837            |
| Vermont.....   | 11,147             | 6,720  | West North Central.....                                   | 6,824              | 5,355  |   |                    |                  |
| Massachusetts.....                                     | 1,043              | -      |   |                    |        |   |                    |                  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 32721, North Dakota, South Dakota, Nebraska, West Virginia, Wyoming, New Mexico, Arizona, Nevada and Hawaii; 32722, Utah; 32723, Nebraska, Louisiana, Montana, Colorado and Utah; 32811, New Hampshire, Rhode Island, Pennsylvania and South Dakota; 32813, Missouri, Georgia and Alabama.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

TABLE 6E. Concrete Block—Quantity and Value of Shipments, by Geographic Areas: 1963

| Geographic area           | Lightweight aggregate<br>(Product code 3271011)          |                    | Heavyweight aggregate<br>(Product code 3271015)          |                    |
|---------------------------|--|--------------------|--|--------------------|
|                           | Quantity<br>(1,000 block<br>8" x 8" x 16"<br>equivalent) | Value<br>(\$1,000) | Quantity<br>(1,000 block<br>8" x 8" x 16"<br>equivalent) | Value<br>(\$1,000) |
| UNITED STATES, TOTAL..... | 1,216,458  | 261,509            | 845,930  | 167,024            |
| New England.....          | 43,675   | 10,666             | 42,061   | 8,790              |
| Maine.....                | (Z)  | (Z)                | (Z)  | (Z)                |
| New Hampshire.....        | (Z)  | (Z)                | (Z)  | (Z)                |
| Vermont.....              | (Z)  | (Z)                | (Z)  | (Z)                |
| Massachusetts.....        | 18,386   | 4,441              | 16,758   | 3,433              |
| Rhode Island.....         | (Z)  | (Z)                | (Z)  | (Z)                |
| Connecticut.....          | 18,763   | 4,690              | 12,700   | 2,701              |
| Middle Atlantic.....      | 257,775  | 51,851             | 143,042  | 28,130             |
| New York.....             | 72,523   | 17,542             | 53,271   | 11,407             |
| New Jersey.....           | 85,055   | 17,166             | 14,439   | 2,561              |
| Pennsylvania.....         | 100,197  | 17,143             | 75,332   | 14,162             |
| East North Central.....   | 227,530  | 50,117             | 199,311  | 40,121             |
| Ohio.....                 | 74,630   | 15,629             | 56,740   | 10,383             |
| Indiana.....              | 24,691   | 5,061              | 33,103   | 7,271              |
| Illinois.....             | 49,706   | 10,775             | 26,770   | 5,556              |
| Michigan.....             | 54,368   | 13,273             | 45,016   | 9,138              |
| Wisconsin.....            | 24,135   | 5,379              | 37,682   | 7,773              |
| West North Central.....   | 57,577   | 13,586             | 101,136  | 20,797             |
| Minnesota.....            | 13,174   | 3,212              | 41,005   | 8,466              |
| Iowa.....                 | 9,165  | 2,327              | 18,497   | 3,870              |
| Missouri.....             | 15,514   | 3,365              | 13,592   | 2,565              |
| North Dakota.....         | 5,572  | 1,285              | (Z)  | (Z)                |
| South Dakota.....         | (Z)  | (Z)                | (X)  | (Z)                |
| Nebraska.....             | (Z)  | (Z)                | 18,045   | 3,728              |
| Kansas.....               | 7,222  | 1,702              | (Z)  | (Z)                |
| South Atlantic.....       | 256,040  | 54,009             | 211,885  | 40,064             |
| Delaware.....             | 7,517  | 1,557              | (Z)  | (Z)                |
| Maryland.....             | 42,830   | 9,169              | 13,963   | 2,585              |
| District of Columbia..... | 14,997   | 3,021              | (Z)  | (Z)                |
| Virginia.....             | 61,021   | 13,400             | (D)  | (D)                |
| West Virginia.....        | 9,660  | 2,068              | 8,449  | 1,874              |
| North Carolina.....       | 53,336   | 11,295             | 13,644   | 2,631              |
| South Carolina.....       | 12,479   | 2,608              | 15,496   | 2,900              |
| Georgia.....              | 36,127   | 7,530              | 27,571   | 5,206              |
| Florida.....              | 18,073   | 3,361              | 122,154  | 22,603             |
| East South Central.....   | 89,319   | 17,288             | 64,669   | 12,043             |
| Kentucky.....             | 13,974   | 2,958              | 19,985   | 3,817              |
| Tennessee.....            | 27,358   | 5,700              | 37,509   | 6,910              |
| Alabama.....              | 39,128   | 6,718              | 6,389  | 1,169              |
| Mississippi.....          | 8,859  | 1,912              | (Z)  | (Z)                |
| West South Central.....   | 74,689   | 18,225             | 19,579   | 3,829              |
| Arkansas.....             | 7,439  | 1,552              | 8,034  | 1,518              |
| Louisiana.....            | 10,408   | 2,802              | (Z)  | (Z)                |
| Oklahoma.....             | 14,132   | 3,132              | 7,284  | 1,445              |
| Texas.....                | 42,710   | 10,739             | (Z)  | (Z)                |
| Mountain.....             | 119,518  | 22,909             | 8,416  | 1,701              |
| Montana.....              | (Z)  | (Z)                | (Z)  | (Z)                |
| Idaho.....                | 5,565  | 1,402              | (Z)  | (Z)                |
| Wyoming.....              | (Z)  | (Z)                | (Z)  | (Z)                |
| Colorado.....             | 19,707   | 4,587              | (Z)  | (Z)                |
| New Mexico.....           | 13,481   | 3,033              | (Z)  | (Z)                |
| Arizona.....              | (D)  | (D)                | (Z)  | (Z)                |
| Utah.....                 | 10,413   | 2,576              | (Z)  | (Z)                |
| Nevada.....               | 17,085   | 3,960              | (Z)  | (Z)                |
| Pacific.....              | 90,335   | 22,858             | 55,831   | 11,549             |
| Washington.....           | 10,503   | 2,665              | 8,376  | 2,048              |
| Oregon.....               | 10,555   | 2,526              | (Z)  | (Z)                |
| California.....           | 59,894   | 15,064             | 41,350   | 8,172              |
| Alaska.....               | (D)  | (D)                | (D)  | (D)                |
| Hawaii.....               | (D)  | (D)                | (D)  | (D)                |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code                                    | Material  | Unit of measure  | 1963        |                          |
|---|---|------------------|-------------|--------------------------|
|   |   |                  | Quantity    | Delivered cost (\$1,000) |
| INDUSTRY 3271.—CONCRETE BLOCK AND BRICK |   |                  |             |                          |
|   | Materials, parts, containers, and supplies, total <sup>1</sup> .....              |                  | (X)         | 197,172                  |
| 324101                                  | Portland cement:  |                  |             |                          |
|   | Quantity reported.....  | 376 lb. barrels. | 12,335,969  | 49,179                   |
| 324101                                  | Quantity not reported.....  |                  | (X)         | 6,227                    |
| 144201                                  | Common sand and gravel:   |                  |             |                          |
|   | Quantity reported.....  | Short tons.....  | 14,834,579  | 23,027                   |
| 144201                                  | Quantity not reported.....  |                  | (X)         | 5,095                    |
| 331091                                  | Steel:  |                  |             |                          |
|   | Wire stand and bars or rods, high strength, stress relieved.....                  | do.....          | 2,151       | 530                      |
| 331092                                  | Welded wire concrete reinforcing mesh.....  | do.....          | 4,479       | 600                      |
| 331009                                  | Concrete reinforcing bars.....  | do.....          | (S)         | 1,224                    |
| 970099                                  | All other materials and components, parts, containers, and supplies.....          |                  | (X)         | 49,354                   |
| 973000                                  | Materials, components, parts, containers, and supplies, n.s.k.....                |                  | (X)         | <sup>2</sup> 61,936      |
| INDUSTRY 3272.—OTHER CONCRETE PRODUCTS  |   |                  |             |                          |
|   | Materials, parts, containers, and supplies, total <sup>1</sup> .....              |                  | (X)         | 337,262                  |
| 324101                                  | Portland cement.....  | 376 lb. barrels. | 17,124,178  | 68,131                   |
| 144201                                  | Common sand and gravel.....   | Short tons.....  | 15,745,240  | 30,554                   |
| 331091                                  | Steel:  |                  |             |                          |
|   | Wire stand and bars or rods, high strength, stress relieved.....                  | do.....          | 124,581     | 23,947                   |
| 331092                                  | Welded wire concrete reinforcing mesh.....  | do.....          | 182,501     | 32,746                   |
| 331009                                  | Concrete reinforcing bars.....  | do.....          | 117,925     | 16,516                   |
| 970099                                  | All other materials and components, parts, containers, and supplies consumed..... |                  | (X)         | 93,688                   |
| 973000                                  | Materials, containers, and supplies, n.s.k.....                                   |                  | (X)         | <sup>2</sup> 71,680      |
| INDUSTRY 3273.—READY MIXED CONCRETE     |   |                  |             |                          |
|   | Materials, parts, containers, and supplies, total <sup>1</sup> .....              |                  | (X)         | 1,155,520                |
| 324101                                  | Portland cement.....  | 376 lb. barrels. | 132,719,252 | 502,161                  |
| 144201                                  | Common sand and gravel, including crushed or broken stone.....                    | Short tons.....  | 166,261,660 | 283,837                  |
| 970099                                  | All other materials and components, parts, containers, and supplies consumed..... |                  | (X)         | 104,337                  |
| 973000                                  | Materials and components, parts, containers, and supplies consumed, n.s.k.....    |                  | (X)         | <sup>2</sup> 265,185     |
| 1963 delivered cost (\$1,000)           |   |                  |             |                          |
| INDUSTRY 3274.—LIME                     |   |                  |             |                          |
|   | Materials, parts, containers, and supplies, total <sup>1</sup> .....              |                  |             | 37,149                   |
| 264338                                  | Paper shipping sacks and multiwall bags.....                                      |                  |             | 4,254                    |
| 970099                                  | All other materials and components, parts, containers, and supplies consumed..... |                  |             | 26,003                   |
| 973000                                  | Materials, parts, containers, and supplies, n.s.k.....                            |                  |             | <sup>2</sup> 6,892       |
| 1963                                    |   |                  |             |                          |
|   |   |                  | Quantity    | Delivered cost (\$1,000) |
| INDUSTRY 3275.—GYPSUM PRODUCTS          |   |                  |             |                          |
|   | Materials, parts, containers, and supplies, total <sup>1</sup> .....              |                  | (X)         | 133,830                  |
| 264338                                  | Paper shipping sacks and multiwall bags.....                                      |                  | (X)         | 4,920                    |
| 970099                                  | All other materials and components, parts, containers, and supplies consumed..... |                  | (X)         | 125,188                  |
| 973000                                  | Materials, parts, containers, n.s.k.....  |                  | (X)         | 3,722                    |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | 1963                     |                                |   | 1958                     |                                |   |
|---|---|--------------------------|--------------------------------|---|--------------------------|--------------------------------|---|
|   |   | Quantity<br>(short tons) | Delivered<br>cost<br>(\$1,000) | Stone consumed<br>from quarries<br>operated at<br>the same<br>location as the<br>dressing plant<br>(short tons) | Quantity<br>(short tons) | Delivered<br>cost<br>(\$1,000) | Stone consumed<br>from quarries<br>operated at<br>the same<br>location as the<br>dressing plant<br>(short tons) |
| INDUSTRY 3281.—CUT STONE AND STONE PRODUCTS |   |                          |                                |   |                          |                                |   |
|   | Materials, parts, containers, and supplies, total....   | (X)                      | 70,559                         | 3,024,551   | (X)                      | 63,794                         | 2,290,224   |
|   | Stone for preparation:  |                          |                                |   |                          |                                |   |
| 141101                                      | Rough blocks used to produce dressed stone.....   | 1,107,238                | 24,937                         | 1,700,795   | 1,217,639                | 25,599                         | 1,583,418   |
| 142101                                      | Broken stone received for crushing, screening, or<br>washing.....   | (S)                      | 196                            | 1,323,756   | 55,463                   | 231                            | 706,806   |
| 970099                                      | All other materials, including supplies such as explo-<br>sives, steel mill shapes and forms, timber and lumber<br>purchased, forging and castings, drill bits, other tools<br>and parts, lubricants and water purchased..... | (X)                      | 31,285                         | -   | -                        | 37,964                         | -   |
| 973000                                      | Materials, n.s.k.....   | (X)                      | <sup>2</sup> 14,141            | -   | -                        | (X)                            | -   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards.

n.s.k. Not specified by kind.

<sup>1</sup>Comparable detailed data not available for 1958.

<sup>2</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Concrete block and brick (SIC 3271) | Other concrete products (SIC 3272) | Ready mixed concrete (SIC 3273) | Lime (SIC 3274) | Gypsum products (SIC 3275) | Cut stone and stone products (SIC 3281) |
|---|-------------------------------------|------------------------------------|---------------------------------|-----------------|----------------------------|---|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 14,425                              | 14,082                             | 38,467                          | 21,306          | 17,972                     | 4,999                                   |
| Total cost of purchased fuels.....do....  | 9,453                               | 8,804                              | 28,436                          | 17,296          | 11,265                     | 1,708                                   |
| Bituminous coal, lignite, and anthracite:   |                                     |                                    |                                 |                 |                            |   |
| Quantity.....1,000 short tons..   | (S)                                 | 52                                 | (S)                             | (S)             | 117                        | 18                                      |
| Cost.....\$1,000..  | (S)                                 | 333                                | (S)                             | (S)             | 948                        | 183                                     |
| Coke and breeze:  |                                     |                                    |                                 |                 |                            |   |
| Quantity.....1,000 short tons..   | -                                   | -                                  | -                               | (S)             | -                          | (S)                                     |
| Cost.....\$1,000..  | -                                   | -                                  | -                               | (S)             | -                          | (S)                                     |
| Fuel oil (distillate and residual):   |                                     |                                    |                                 |                 |                            |   |
| Quantity.....1,000 barrels of 42 gallons..  | 756                                 | 443                                | 1,113                           | 318             | 1,203                      | 177                                     |
| Cost.....\$1,000..  | 2,853                               | 2,022                              | 5,669                           | 950             | 3,543                      | 884                                     |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |                                     |                                    |                                 |                 |                            |   |
| Quantity.....million cu.ft..  | 5,646                               | 4,744                              | 5,300                           | 15,154          | 17,984                     | 132                                     |
| Cost.....\$1,000..  | 2,633                               | 2,480                              | 2,571                           | 5,074           | 6,678                      | 112                                     |
| Other fuels.....do....  | 3,420                               | 3,969                              | 19,914                          | 237             | 96                         | 502                                     |
| Electric energy:  |                                     |                                    |                                 |                 |                            |   |
| Purchased:  |                                     |                                    |                                 |                 |                            |   |
| Quantity.....million kw.-hrs..  | 268                                 | 243                                | 626                             | 355             | 570                        | 195                                     |
| Cost.....\$1,000..  | 4,972                               | 5,278                              | 10,031                          | 4,010           | 6,707                      | 3,291                                   |
| Generated less sold.....million kw.-hrs..   | -                                   | (S)                                | (S)                             | -               | (S)                        | 42                                      |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 319                                 | 410                                | 776                             | 243             | 414                        | 276                                     |
| Prime movers, total.....do....  | 104                                 | 156                                | 249                             | 35              | 93                         | 58                                      |
| Driving generators.....do....   | 21                                  | 14                                 | 11                              | 1               | 3                          | 16                                      |
| Not driving generators.....do....   | 83                                  | 142                                | 238                             | 34              | 90                         | 42                                      |
| Electric motors, total.....do....   | 216                                 | 255                                | 528                             | 208             | 322                        | 229                                     |
| Driven by purchased energy.....do....   | 215                                 | 255                                | 528                             | 208             | 321                        | 218                                     |
| Driven by energy generated at establishment.....do....  | (Z)                                 | 1                                  | (Z)                             | -               | (Z)                        | 11                                      |
| Aggregate horsepower per 100 production workers.....  | 1,973                               | 1,042                              | 1,615                           | 4,296           | 4,349                      | 1,494                                   |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization                         | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3272-                          | OTHER CONCRETE PRODUCTS, EXCEPT BLOCK AND BRICK                                |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 3,451                   | 52,297         | 266,706           | 41,093             | 87,256            | 190,945         | 539,967  | 387,389                     | 925,677                      | 43,550                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 3,230                   | 44,781         | 225,671           | 35,446             | 75,268            | 163,807         | 459,049  | 321,983                     | 778,651                      | 37,399                              |
|                                | 75-89% specialization.....   | 76                      | 2,587          | 14,885            | 2,033              | 4,281             | 10,455          | 27,225   | 19,577                      | 46,520                       | 1,507                               |
| 32721                          | Concrete pipe (primary product class of estab.).....                           | 691                     | 19,957         | 106,694           | 15,659             | 32,970            | 76,543          | 237,442  | 183,731                     | 419,112                      | 17,815                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 500                     | 13,893         | 74,975            | 10,823             | 22,889            | 53,598          | 174,984  | 129,174                     | 301,448                      | 12,622                              |
|                                | 75-89% specialization.....   | 79                      | 2,226          | 11,962            | 1,870              | 3,817             | 9,465           | 24,959   | 19,034                      | 44,281                       | 2,271                               |
| 32722                          | Precast concrete products (primary product class of estab.).....               | 1,782                   | 19,732         | 99,247            | 15,297             | 32,458            | 69,608          | 183,961  | 109,540                     | 293,184                      | 13,275                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 1,522                   | 15,926         | 80,908            | 12,262             | 26,010            | 56,451          | 149,263  | 85,496                      | 234,493                      | 11,008                              |
|                                | 75-89% specialization.....   | 106                     | 1,346          | 6,542             | 1,075              | 2,285             | 4,767           | 12,509   | 8,779                       | 21,242                       | 897                                 |
| 32723                          | Prestressed concrete products (primary product class of estab.)                | 177                     | 8,306          | 44,794            | 6,672              | 14,577            | 32,453          | 85,410   | 69,093                      | 155,321                      | 7,521                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 115                     | 4,006          | 21,370            | 3,338              | 7,370             | 16,445          | 41,224   | 30,069                      | 71,624                       | 3,198                               |
|                                | 75-89% specialization.....   | 20                      | 1,537          | 8,667             | 1,226              | 2,679             | 5,718           | 13,416   | 15,678                      | 28,652                       | 2,402                               |
| 3274-                          | LIME   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 125                     | 6,778          | 38,903            | 5,384              | 11,366            | 28,519          | 95,135   | 69,011                      | 164,366                      | 14,730                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 91                      | 2,968          | 16,643            | 2,481              | 5,170             | 13,042          | 40,838   | 33,144                      | 74,004                       | 3,325                               |
|                                | 75-89% specialization.....   | 14                      | 1,702          | 9,689             | 1,415              | 2,975             | 7,411           | 25,593   | 13,860                      | 39,514                       | 2,475                               |
| 3281-                          | CUT STONE AND STONE PRODUCTS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 893                     | 18,340         | 85,745            | 15,259             | 30,896            | 66,657          | 131,465  | 86,633                      | 217,176                      | 6,693                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 806                     | 13,501         | 64,643            | 11,035             | 22,320            | 48,974          | 100,788  | 72,054                      | 172,178                      | 4,918                               |
|                                | 75-89% specialization.....   | 33                      | 2,887          | 11,923            | 2,531              | 5,185             | 10,174          | 18,187   | 8,540                       | 26,513                       | 955                                 |
| 32811                          | Cut granite and granite products (primary product class of estab.)             | 287                     | 7,163          | 34,376            | 5,837              | 11,722            | 25,831          | 55,107   | 40,142                      | 94,739                       | 2,225                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 251                     | 6,087          | 30,131            | 4,923              | 10,063            | 22,643          | 47,332   | 33,957                      | 80,869                       | 1,930                               |
|                                | 75-89% specialization.....   | 14                      | 592            | 2,243             | 518                | 928               | 1,785           | 3,475  | 1,948                       | 5,408                        | 176                                 |
| 32812                          | Cut limestone and limestone products (primary product class of estab.).....    | 129                     | 3,115          | 15,492            | 2,629              | 5,257             | 12,709          | 23,114   | 12,508                      | 35,525                       | 1,095                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 99                      | 1,730          | 8,543             | 1,472              | 2,926             | 6,931           | 12,812   | 7,997                       | 20,645                       | 460                                 |
|                                | 75-89% specialization.....   | 11                      | 355            | 1,455             | 257                | 523               | 1,218           | 2,534  | 1,006                       | 3,540                        | 205                                 |
| 32813                          | Cut marble and other cut stone products (primary product class of estab.)..... | 267                     | 7,057          | 32,012            | 5,997              | 12,332            | 25,045          | 46,083   | 29,061                      | 74,880                       | 2,702                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 209                     | 3,727          | 17,265            | 3,135              | 6,359             | 13,245          | 24,862   | 17,937                      | 42,828                       | 1,716                               |
|                                | 75-89% specialization.....   | 29                      | 1,499          | 6,778             | 1,232              | 2,547             | 5,075           | 10,046   | 5,545                       | 15,704                       | 333                                 |



TABLE 9A. Selected Statistics for Establishments With Mining Activities: 1963

| Item  | Ready mixed concrete (SIC 3273) | Lime (SIC 3274) | Gypsum products (SIC 3275) |
|---|---------------------------------|-----------------|----------------------------|
| Establishments <sup>1</sup> .....number..                             | 238                             | 58              | 34                         |
| Production workers wages.....\$1,000..                                | 11,200                          | 6,433           | 3,604                      |
| Man-hours of production workers.....do....                            | 4,195                           | 2,606           | 1,430                      |
| Cost of supplies, fuels, electric energy and contract work.....do.... | 15,879                          | 5,832           | 2,785                      |

<sup>1</sup>See footnotes 1 and 2, table 3.

TABLE 9B. Cut Stone and Stone Products—Establishments and Man-Hours for Quarrying and Dressing Stone Operations at the Same Location: 1963

| Item  | Total  | Cut limestone | Cut granite | Cut marble and other cut stone |
|---|--------|---------------|-------------|--------------------------------|
| Establishments <sup>1</sup> .....number..                                 | 118    | 24            | 46          | 48                             |
| Man-hours worked by production and development workers, total.....1,000.. | 14,799 | 3,058         | 4,040       | 7,701                          |
| At mines and quarries, total.....do....                                   | 5,002  | 1,061         | 1,260       | 2,681                          |
| Underground.....do....  | 690    | (X)           | (X)         | 690                            |
| Open quarry.....do....  | 3,620  | 942           | 923         | 1,755                          |
| Surface (including mineshops and yards).....do....                        | 692    | 119           | 337         | 236                            |
| At crushing plant.....do....  | 166    | 61            | 14          | 91                             |
| At mill (including auxiliary).....do....                                  | 8,369  | 1,552         | 2,047       | 4,770                          |
| Not specified.....do....  | 1,262  | 384           | 719         | 159                            |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>See footnote 3, table 3.

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## ABRASIVE, ASBESTOS, AND MISCELLANEOUS NONMETALLIC MINERAL PRODUCTS

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3291—Abrasive Products
- 3292—Asbestos Products
- 3293—Steam and Other Packing, and Pipe and Boiler Covering
- 3295—Minerals and Earths, Ground or Otherwise Treated
- 3296—Mineral Wool
- 3297—Nonclay Refractories
- 3299—Nonmetallic Mineral Products, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3291—ABRASIVE PRODUCTS

This industry comprises establishments primarily engaged in manufacturing abrasive grinding wheels of natural or synthetic materials, and other abrasive products. The cutting of grindstones, pulpstones, and whetstones at the quarry is classified in mining industries. For a detailed list of products of industry 3291, refer to table 6A, product codes 3291117 to 3291498.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Abrasive Products Industry totaled \$704 million. This amount included shipments of abrasive products (primary products) valued at \$541 million.

This industry's shipments of abrasive products represented over 70 percent of its total product shipments. The industry specialization ratio in 1958 was 83 percent. The exact percentage for 1963 is withheld to avoid disclosing figures for individual companies.

Shipments of abrasive products by this industry represented 95 percent of all shipments of these products (\$572 million) by all industries. In 1958, the coverage ratio was 96

percent. Other industries shipping abrasive products included industry 3541, Metal-Cutting Machine Tools, and industry 3545, Machine Tool Accessories.

#### 3292—ASBESTOS PRODUCTS

This industry comprises establishments primarily engaged in manufacturing asbestos textiles, asbestos friction materials, vinyl asbestos floor tile, and other commodities composed wholly or chiefly of asbestos, except asbestos paper (industry 2661), steam and other packing, pipe and boiler covering, and gaskets (industry 3293). For a detailed list of products of industry 3292, refer to table 6A, product codes 3292211 to 3292798.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Asbestos Products Industry totaled \$509 million. This amount included shipments of asbestos products (primary products) valued at \$459 million, shipments of other products (secondary products) valued at \$24 million, and miscellaneous receipts at \$26 million.

This industry's shipments of asbestos products represented 95 percent of its total product shipments. The industry specialization ratio in 1958 was 89 percent. Secondary products shipped by this industry in 1963 consisted mainly of packing (except leather, rubber, and metal) and asbestos insulations and gaskets, all types.

Shipments of asbestos products by this industry represented 91 percent of all shipments of these products (\$506 million) by all industries. In 1958 the coverage ratio was 92 percent. Other industries shipping asbestos products included industry 2952, Asphalt Felts and Coatings, and industry 3293, Gaskets and Insulations.

The production index for the primary products of the industry increased to 136 in 1963 from the 1958 level of 112. The unit value index for 1963 was 112, the same level as in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3293—STEAM AND OTHER PACKING, AND PIPE AND BOILER COVERING

This industry comprises establishments primarily engaged in manufacturing gaskets (all types); packing for steam, water, and other pipe joints, and for engines, air compressors, etc.; and asbestos insulating materials. Establishments primarily engaged in manufacturing leather packing are classified in industry 3121, rubber packing in industry 3069, and metal packing in industry 3599. Establishments primarily engaged in manufacturing mineral wool and insulation products, therefore, are classified in industry 3296. For a detailed list of products of industry 3293, refer to table 6A, product codes 3293211 to 3293351.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Gaskets and Insulations Industry totaled \$279 million. This amount included shipments of gaskets and insulations (primary products) valued at \$206 million, shipments of other products (secondary products) valued at \$48 million, and miscellaneous receipts at \$26 million.

This industry's shipments of gaskets and insulations represented 81 percent of its total product shipments. The industry specialization ratio in 1958 was 87 percent. Secondary products shipped by this industry in 1963 consisted mainly of mechanical rubber goods (\$12 million), and carburetors, pistons, and other machine shop products.



Shipments of gaskets and insulations by this industry represented 78 percent of all shipments of these products (\$262 million) by all industries. In 1958 the coverage ratio was 69 percent. Other industries shipping gaskets and insulations consisted mainly of industry 3069, Rubber Products, N.E.C., and industry 3292, Asbestos Products.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product class of industry 3293, e.g., 32933 Packing, except leather, rubber, and metal and asbestos insulation, 67 percent.

#### 3295—MINERALS AND EARTHS, GROUND OR OTHERWISE TREATED

This industry comprises establishments operating without a mine and primarily engaged in crushing, grinding, pulverizing, or otherwise preparing clay, ceramic, and refractory minerals (of the type in minerals Group 145); barite (mined by industry 1472); miscellaneous nonmetallic minerals, except fuels (talc, gypsum, graphite, and other minerals of the type classified in minerals Group 149); or in crushing slag or preparing roofing granules. However, establishments preparing such nonmetallic minerals or roofing granules in conjunction with a mine at the site are classified in the mineral industries. The crushing and grinding of stone; the preparation of sand and gravel (minerals Group 144) and of chemical and fertilizer minerals, except barite (minerals Group 147, except industry 1472) are classified in the mineral industries whether or not the establishment includes a mine. The beneficiation or preparation of metallic ores and the cleaning and grading of coal at the mine or at separately operated preparation plants are classified in the mineral industries. For a detailed list of products of industry 3295, refer to table 6A, product codes 3295011 to 3295098.

The code number for this industry in the Standard Industrial Classification Manual is unchanged, but the content of the industry has been slightly changed from the classification system used in 1958. The composition of the industry as now constituted, compared with that under the classification system followed in the 1958 census, is due principally to (1) the reclassification of exfoliated vermiculate from industry 3296 to industry 3295 (1958 data have been revised to reflect this change) and (2) the inclusion of roofing granules produced in conjunction with mining operations in the mineral industries for 1963. In prior years these roofing granule plants were included in industry 3295. Data for prior years have not been revised to avoid disclosing figures for individual companies.

Value of shipments and other receipts of the Minerals, Ground or Treated, Industry totaled \$204 million. This amount included shipments of minerals and earths, ground or otherwise treated (primary products), valued at \$175 million, shipments of other products (secondary products) valued at \$11 million, and miscellaneous receipts at \$18 million.

This industry's shipments of minerals and earths, ground or otherwise treated, represented 94 percent of its total product shipments. The industry specialization ratio in 1958 was 96 percent.

Shipments of minerals and earths, ground or otherwise treated, by this industry represented 86 percent of all shipments of these products (\$203 million) by all industries. In 1958 the coverage ratio was 85 percent. Other industries shipping minerals and earths, ground or otherwise treated, are industry 3275, Gypsum Products, \$6 million; and industry 3273, Ready-Mixed Concrete, \$4 million.

#### 3296—MINERAL WOOL

This industry comprises establishments primarily engaged in manufacturing mineral wool and mineral wool insulation products made of such silicious materials as rock, slag, and glass, or combinations thereof. Establishments primarily engaged in manufacturing asbestos insulation products are classified in industries 3292 and 3293;

textile type glass fibers in industry 3229 and exfoliated vermiculite products in industry 3295. For a detailed list of products of industry 3296, refer to table 6A, product codes 3296111 to 3296298.

The code number for this industry in the Standard Industrial Classification Manual is unchanged, but the content of the industry has been slightly changed from the classification system used in 1958. The composition of the industry as now constituted, compared with that under the classification system followed in the 1958 census, is due principally to the reclassification of exfoliated vermiculite from industry 3296 to industry 3295. The 1958 data have been revised to reflect this change.

Value of shipments and other receipts of the Mineral Wool Industry totaled \$392 million. This amount included shipments of mineral wool (primary products) valued at \$342 million, shipments of other products (secondary products) valued at \$37 million, and miscellaneous receipts, at \$13 million.

This industry's shipments of mineral wool represented 90 percent of its total product shipments. The industry specialization ratio in 1958 was 95 percent. Secondary products shipped by this industry in 1963 consisted mainly of industrial plastics products and general industrial machinery.

Shipments of mineral wool by this industry represented 96 percent of all shipments of these products (\$356 million) by all industries. In 1958 the coverage ratio was 95 percent. Other industries shipping mineral wool include industry 2661, Building Paper and Board Mills; and industry 3293, Gaskets and Insulations.

The production index for the primary products of the industry increased to 283 in 1963 from the 1958 level of 168. The unit value index for 1963 was 76 compared to 86 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3297—NONCLAY REFRACTORIES

This industry comprises establishments primarily engaged in manufacturing refractories and crucibles made of materials other than clay. This industry also includes establishments primarily engaged in manufacturing all graphite refractories, whether of carbon bond or ceramic bond. Establishments primarily engaged in manufacturing clay refractories are classified in industry 3255. For a detailed list of products of industry 3297, refer to table 6A, product codes 3297012 to 3297098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Nonclay Refractories Industry totaled \$250 million. This amount included shipments of nonclay refractories (primary products) valued at \$226 million, shipments of other products (secondary products) valued at \$15 million, and miscellaneous receipts, at \$9 million.

This industry's shipments of nonclay refractories represented 94 percent of its total product shipments. The industry specialization ratio in 1958 was 95 percent. Secondary products shipped by this industry in 1963 consisted mainly of clay refractories (\$8 million), and minerals and earths, ground or treated (43 million).

Shipments of nonclay refractories by this industry represented 88 percent of all shipments of these products (\$257 million) by all industries. In 1958 the coverage ratio was 89 percent. Other industries shipping nonclay refractories include industry 3255, Clay Refractories, \$9 million; and industry 3291, Abrasive Products. Quarterly information on the shipments of refractories by type is collected on Form M32C and published



in Current Industrial Reports Series M32C. Manufacturers were required to report total value of refractories shipped only in the 1963 Census of Manufactures. The detailed product information published in table 6A was obtained from Current Industrial Reports Series M32C(64)-5, Refractories. The total value as reported in the census of manufactures is also shown in table 6A.

The production index for the primary products of the industry increased to 154 in 1963 from the 1958 level of 120. The unit value index for 1963 was 130 compared to 122 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3299—NONMETALLIC MINERALS, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in the factory production of statuary and art goods made of plaster of paris and papier-mache; in manufacturing sand lime products, sheet mica products, and other nonmetallic mineral products, n.e.c. For a detailed list of products of industry 3299, refer to table 6A, product codes 3299053 to 3299098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Nonmetallic Products, N.E.C., Industry totaled \$96 million. This amount included shipments of nonmetallic mineral products, n.e.c., (primary products) valued at \$80 million, shipments of other products (secondary products) valued at \$13 million, and miscellaneous receipts, at \$4 million.

This industry's shipments of nonmetallic products, n.e.c., represented 86 percent of its total product shipments. The industry specialization ratio in 1958 was 85 percent. Secondary products shipped by this industry in 1963 consisted mainly of industrial product finishes, except lacquers and mineral wool for industrial and equipment insulation.

Shipments of nonmetallic products, n.e.c., by this industry represent 96 percent of all shipments of these products (\$83 million) by all industries. In 1958 the coverage ratio was 85 percent.

NONMETALLIC MINERAL PRODUCTS: SIC 329  
 Value Added by Manufacture by State: 1963

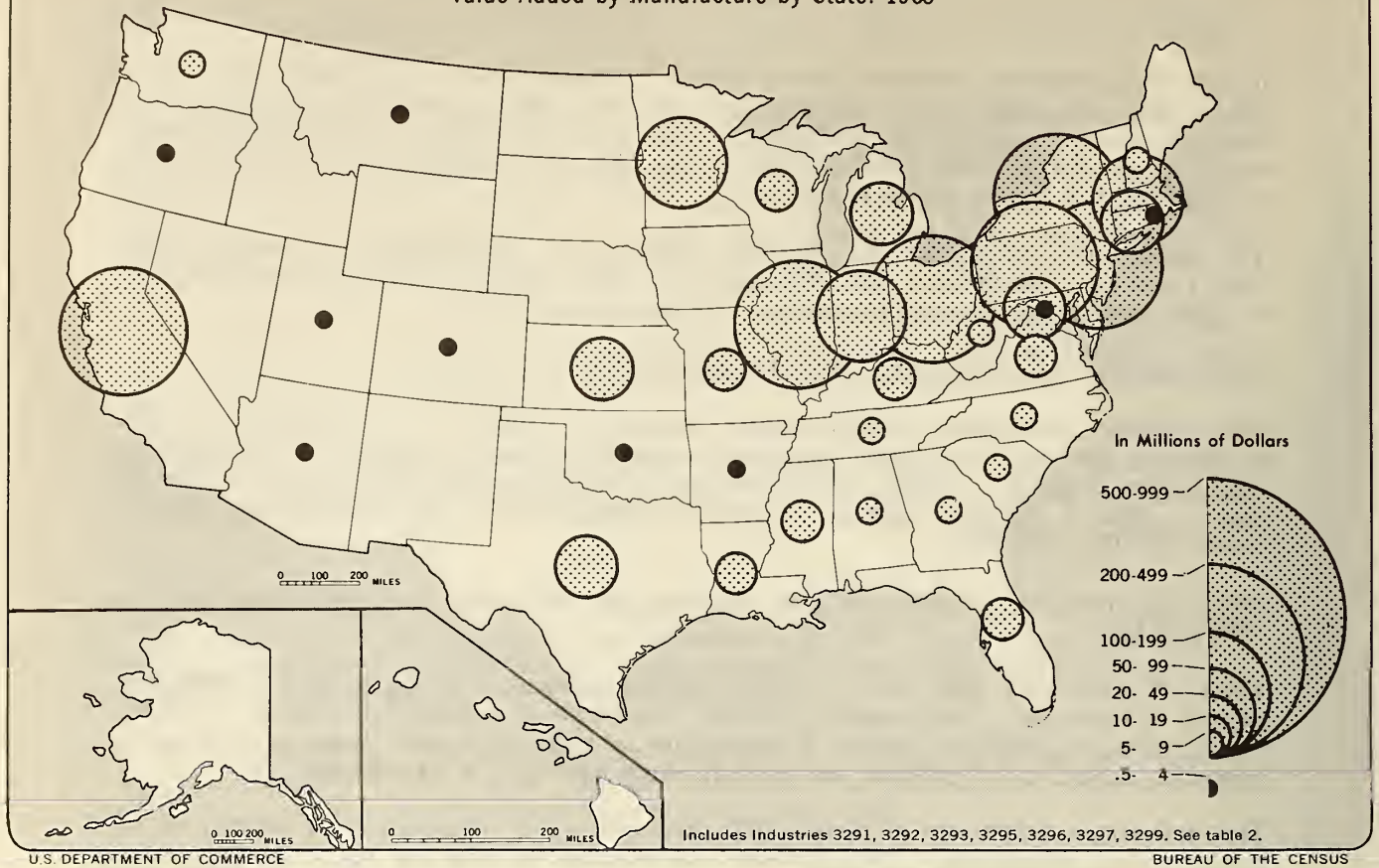




TABLE 1. General Statistics: 1963 and Earlier Years

| Year                                   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expendi-<br>tures,<br>new<br>(\$1,000) | Speci-<br>alization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|--|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |  |  |
| INDUSTRY 3291.—ABRASIVE PRODUCTS       |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963                                   | 340                        | 378               | 149  | 28,170            | 186,971              | 18,583             | 36,695               | 107,628            | 416,415  | 287,458                           | 704,212                            | 15,506  | 170  | 95                                       |
| 1962 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 28,498            | 187,925              | 18,074             | 35,159               | 100,869            | 398,328  | 266,613                           | 659,527                            | 12,148  | (NA)   | (NA)                                     |
| 1961 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 27,135            | 169,240              | 16,925             | 33,224               | 88,993             | 357,377  | 238,209                           | 594,925                            | 14,113  | (NA)   | (NA)                                     |
| 1960 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 27,955            | 172,741              | 18,265             | 34,729               | 91,693             | 354,447  | 253,442                           | 605,924                            | 16,368  | (NA)   | (NA)                                     |
| 1959 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 27,354            | 165,564              | 18,416             | 35,928               | 94,061             | 351,632  | 253,912                           | 599,472                            | 20,164  | (NA)   | (NA)                                     |
| 1958                                   | 317                        | 354               | 130  | 23,955            | 127,912              | 15,971             | 30,891               | 75,499             | 277,706  | 211,163                           | 490,752                            | 21,098  | 83   | 96                                       |
| 1957 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 24,377            | 130,214              | 16,672             | 33,107               | 78,554             | 276,761  | 173,450                           | 438,067                            | (S)   | 95   | 89                                       |
| 1956 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 24,835            | 129,891              | 17,104             | 34,743               | 79,544             | 261,932  | 181,761                           | 438,094                            | 13,489  | (NA)   | (NA)                                     |
| 1955 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 24,607            | 122,114              | 17,437             | 35,743               | 79,456             | 263,146  | 176,358                           | 426,494                            | 8,989   | (NA)   | (NA)                                     |
| 1954                                   | 290                        | 312               | 132  | 22,345            | 101,218              | 15,756             | 30,417               | 62,040             | 198,983  | 153,649                           | 349,184                            | 9,857   | 94   | 87                                       |
| 1953 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 24,754            | 113,543              | 18,512             | 37,381               | 75,149             | 231,231  | 174,133                           | 405,364                            | (NA)  | (NA)   | (NA)                                     |
| 1952 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 23,333            | 99,578               | 16,589             | 32,749               | 61,027             | 195,860  | 130,752                           | 326,432                            | (NA)  | (NA)   | (NA)                                     |
| 1951 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 23,695            | 99,309               | 17,761             | 36,516               | 66,158             | 208,167  | 152,395                           | 360,382                            | (NA)  | (NA)   | (NA)                                     |
| 1950 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 19,572            | 77,306               | 14,966             | 30,836               | 51,320             | 170,684  | 116,860                           | 287,364                            | (NA)  | (NA)   | (NA)                                     |
| 1949 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 17,193            | 60,359               | 12,720             | 23,328               | 37,975             | 123,422  | 79,744                            | 202,807                            | (NA)  | (NA)   | (NA)                                     |
| 1947                                   | 236                        | 254               | (NA)   | 21,042            | 67,114               | 16,068             | 31,642               | 45,674             | 127,954  | 98,109                            | 225,399                            | (NA)  | 94   | 86                                       |
| 1939                                   | (NA)                       | 124               | (NA)   | 11,321            | 20,491               | 7,734              | (NA)                 | 10,683             | 44,765   | 26,506                            | 71,271                             | (NA)  | (NA)   | (NA)                                     |
| 1937                                   | (NA)                       | 103               | (NA)   | 11,376            | 18,771               | 9,670              | (NA)                 | 14,250             | 48,615   | 29,339                            | 77,954                             | (NA)  | (NA)   | (NA)                                     |
| 1935                                   | (NA)                       | 94                | (NA)   | 8,693             | 12,806               | 6,776              | (NA)                 | 8,351              | 33,133   | 20,734                            | 53,867                             | (NA)  | (NA)   | (NA)                                     |
| 1933                                   | (NA)                       | 77                | (NA)   | 5,867             | 6,653                | 4,890              | (NA)                 | 4,981              | 18,810   | 11,349                            | 30,159                             | (NA)  | (NA)   | (NA)                                     |
| 1931                                   | (NA)                       | 73                | (NA)   | (NA)              | (NA)                 | 4,614              | (NA)                 | 5,540              | 19,920   | 11,727                            | 31,647                             | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3292.—ASBESTOS PRODUCTS       |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963                                   | 73                         | 124               | 84   | 19,516            | 118,024              | 15,738             | 32,884               | 89,766             | 269,067  | 240,725                           | 509,236                            | 12,381  | 95   | 91                                       |
| 1962 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 21,845            | 125,947              | 17,716             | 36,643               | 96,108             | 268,174  | 251,367                           | 512,903                            | 13,911  | (NA)   | (NA)                                     |
| 1961 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 21,724            | 118,594              | 17,550             | 35,867               | 90,116             | 269,346  | 238,826                           | 502,883                            | 9,137   | (NA)   | (NA)                                     |
| 1960 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 22,409            | 119,154              | 18,255             | 37,382               | 92,054             | 279,116  | 243,722                           | 514,993                            | 18,456  | (NA)   | (NA)                                     |
| 1959 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 22,773            | 119,406              | 18,583             | 39,142               | 92,802             | 279,632  | 250,505                           | 522,515                            | 11,103  | (NA)   | (NA)                                     |
| 1958                                   | 69                         | 109               | 80   | 21,292            | 106,411              | 17,024             | 35,046               | 80,440             | 235,487  | 216,612                           | 453,488                            | 12,837  | 83   | 96                                       |
| 1957 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 22,876            | 111,056              | 18,277             | 38,167               | 84,896             | 241,547  | 197,982                           | 425,866                            | 31,376  | 86   | 93                                       |
| 1956 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 22,831            | 107,586              | 18,234             | 39,195               | 83,603             | 234,313  | 198,556                           | 424,549                            | (S)   | (NA)   | (NA)                                     |
| 1955 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 23,694            | 104,934              | 19,075             | 40,359               | 81,858             | 227,517  | 186,379                           | 405,120                            | 13,967  | (NA)   | (NA)                                     |
| 1954                                   | 74                         | 110               | 84   | 21,977            | 92,413               | 17,760             | 35,985               | 70,319             | 186,927  | 176,791                           | 361,131                            | 14,935  | 87   | 93                                       |
| 1953 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 22,239            | 91,532               | 17,983             | 38,846               | 71,110             | 183,205  | 177,225                           | 360,430                            | (NA)  | (NA)   | (NA)                                     |
| 1952 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 21,156            | 82,142               | 17,193             | 37,089               | 63,859             | 163,477  | 157,839                           | 316,227                            | (NA)  | (NA)   | (NA)                                     |
| 1951 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 20,936            | 77,836               | 17,206             | 37,268               | 61,206             | 169,569  | 150,125                           | 314,605                            | (NA)  | (NA)   | (NA)                                     |
| 1950 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 18,988            | 64,341               | 15,630             | 34,014               | 50,603             | 163,627  | 112,134                           | 250,672                            | (NA)  | (NA)   | (NA)                                     |
| 1949 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 17,363            | 54,087               | 14,232             | 28,812               | 41,015             | 105,590  | 95,120                            | 195,621                            | (NA)  | (NA)   | (NA)                                     |
| 1947                                   | 85                         | 112               | (NA)   | 21,595            | 60,529               | 18,255             | 37,486               | 47,761             | 113,305  | 98,407                            | 206,167                            | (NA)  | 87   | 90                                       |
| 1939                                   | (NA)                       | 85                | (NA)   | (NA)              | 10,415               | (NA)               | 12,148               | (NA)               | 38,522   | 25,354                            | 63,876                             | (NA)  | (NA)   | (NA)                                     |
| 1937                                   | (NA)                       | 73                | (NA)   | 14,442            | 17,113               | 13,023             | (NA)                 | 14,157             | 34,300   | 29,494                            | 63,794                             | (NA)  | (NA)   | (NA)                                     |
| 1933                                   | (NA)                       | 58                | (NA)   | 6,982             | 6,701                | 6,084              | (NA)                 | 5,075              | 14,466   | 10,789                            | 25,255                             | (NA)  | (NA)   | (NA)                                     |
| 1929                                   | (NA)                       | 67                | (NA)   | 9,228             | 13,896               | 8,092              | (NA)                 | 10,777             | 30,756   | 25,408                            | 56,164                             | (NA)  | (NA)   | (NA)                                     |
| 1921                                   | (NA)                       | 40                | (NA)   | 2,418             | 2,827                | 2,026              | (NA)                 | 1,948              | 6,954  | 6,076                             | 13,030                             | (NA)  | (NA)   | (NA)                                     |
| 1919                                   | (NA)                       | 46                | (NA)   | 4,184             | 5,332                | 3,654              | (NA)                 | 3,732              | 11,030   | 12,948                            | 23,978                             | (NA)  | (NA)   | (NA)                                     |
| 1914                                   | (NA)                       | 32                | (NA)   | 1,121             | 703                  | 962                | (NA)                 | 484                | 1,454  | 1,360                             | 2,814                              | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3293.—GASKETS AND INSULATIONS |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963                                   | 282                        | 295               | 111  | 16,825            | 94,441               | 12,684             | 25,906               | 62,301             | 160,734  | 116,978                           | 279,226                            | 8,865   | 81   | 78                                       |
| 1962 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 14,689            | 79,916               | 10,984             | 23,067               | 49,526             | 132,186  | 108,914                           | 238,466                            | 8,225   | (NA)   | (NA)                                     |
| 1961 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 13,722            | 73,105               | 9,903              | 21,107               | 43,585             | 121,164  | 101,908                           | 222,708                            | (5,597)   | (NA)   | (NA)                                     |
| 1960 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 13,807            | 70,739               | 9,955              | 20,987               | 42,538             | 114,318  | 95,501                            | 210,435                            | (8,402)   | (NA)   | (NA)                                     |
| 1959 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 14,377            | 73,179               | 10,749             | 21,820               | 48,410             | 122,575  | 98,921                            | 219,452                            | (9,393)   | (NA)   | (NA)                                     |
| 1958                                   | 271                        | 282               | 99   | 13,494            | 65,078               | 9,925              | 19,502               | 41,518             | 105,211  | 82,976                            | 188,684                            | 5,699   | 87   | 69                                       |
| 1957 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 12,898            | 61,204               | 9,827              | 19,482               | 38,200             | 91,781   | 70,378                            | 163,752                            | 4,863   | (NA)   | (NA)                                     |
| 1956 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 13,252            | 61,192               | 10,186             | 20,842               | 39,546             | 91,609   | 74,799                            | 163,204                            | 6,313   | (NA)   | (NA)                                     |
| 1955 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 13,788            | 59,303               | 10,767             | 22,320               | 40,519             | 92,854   | 79,902                            | 167,793                            | 5,066   | (NA)   | (NA)                                     |
| 1954                                   | (NA)                       | 237               | 87   | 12,807            | 55,115               | 10,128             | 20,340               | 37,241             | 87,253   | 76,615                            | 166,073                            | 4,954   | 86   | 70                                       |
| 1953 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 15,758            | 63,443               | 13,233             | 26,299               | 48,451             | 102,063  | 80,732                            | 182,795                            | (NA)  | (NA)   | (NA)                                     |
| 1952 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 16,632            | 70,305               | 13,701             | 28,705               | 52,416             | 112,518  | 88,169                            | 200,713                            | (NA)  | (NA)   | (NA)                                     |
| 1951 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 18,575            | 72,295               | 15,771             | 33,991               | 55,059             | 119,909  | 104,902                           | 224,837                            | (NA)  | (NA)   | (NA)                                     |
| 1950 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 15,581            | 52,838               | 12,811             | 27,088               | 38,709             | 87,365   | 79,586                            | 166,977                            | (NA)  | (NA)   | (NA)                                     |
| 1949 <sup>2</sup>                      | (NA)                       | (NA)              | (NA)   | 14,112            | 45,573               | 11,224             | 22,940               | 32,281             | 76,922   | 66,888                            | 137,836                            | (NA)  | (NA)   | (NA)                                     |
| 1947                                   | (NA)                       | 193               | 74   | 13,178            | 36,667               | 10,923             | 21,780               | 27,476             | 66,568   | 53,503                            | 120,093                            | 3,966   | 83   | 75                                       |
| 1939                                   | (NA)                       | 134               | (NA)   | 7,531             | 11,169               | 5,907              | (NA)                 | 7,190              | 19,562   | 17,608                            | 37,170                             | (NA)  | (NA)   | (NA)                                     |
| 1937                                   | (NA)                       | 125               | (NA)   | 7,038             | 9,537                | 5,934              | (NA)                 | 6,930              | 17,506   | 15,048                            | 32,554                             | (NA)  | (NA)   | (NA)                                     |
| 1935                                   | (NA)                       | 124               | (NA)   | 5,755             | 7,062                | 4,774              | (NA)                 | 4,742              | 12,490   | 11,768                            | 24,258                             | (NA)  | (NA)   | (NA)                                     |
| 1933                                   | (NA)                       | 118               | (NA)   | (NA)              | (NA)                 | 4,285              | (NA)                 | 3,785              | 10,662   | 8,728                             | 19,390                             | (NA)  | (NA)   | (NA)                                     |

See footnotes at end of table.

TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spec-<br>ializa-<br>tion<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3293.—GASKETS AND INSULATIONS—Continued |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1931.....  | (NA)                       | 131               | (NA)   | (NA)              | (NA)                 | 4,120              | (NA)                 | 4,545              | 12,394   | 10,253                            | 22,647                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....  | (NA)                       | 163               | (NA)   | 7,799             | 12,714               | 6,477              | (NA)                 | 8,746              | 22,454   | 20,602                            | 43,056                             | (NA)  | (NA)  | (NA)                                     |
| 1927.....  | (NA)                       | 159               | (NA)   | 7,479             | 12,142               | 5,946              | (NA)                 | 7,905              | 23,251   | 19,794                            | 43,045                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....  | (NA)                       | 172               | (NA)   | 7,680             | 12,066               | 6,086              | (NA)                 | 8,072              | 23,499   | 20,372                            | 43,871                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....  | (NA)                       | 142               | (NA)   | 6,322             | 9,311                | 5,064              | (NA)                 | 6,432              | 17,142   | 15,849                            | 32,991                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....  | (NA)                       | 157               | (NA)   | 6,074             | 8,447                | 4,877              | (NA)                 | 5,329              | 13,128   | 15,984                            | 29,112                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....  | (NA)                       | 169               | (NA)   | 7,689             | 10,366               | 6,147              | (NA)                 | 7,103              | 17,800   | 22,725                            | 40,525                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....  | (NA)                       | 149               | (NA)   | 5,260             | 4,000                | 4,213              | (NA)                 | 2,525              | 6,037  | 8,176                             | 14,213                             | (NA)  | (NA)  | (NA)                                     |
| 1909.....  | (NA)                       | 153               | (NA)   | 4,886             | 3,168                | 3,648              | (NA)                 | 1,811              | 5,510  | 6,650                             | 12,160                             | (NA)  | (NA)  | (NA)                                     |
| 1904.....  | (NA)                       | 106               | (NA)   | 3,184             | 1,868                | 2,734              | (NA)                 | 1,273              | 5,056  | 3,896                             | 8,952                              | (NA)  | (NA)  | (NA)                                     |
| 1899.....  | (NA)                       | 97                | (NA)   | 1,437             | 851                  | 1,147              | (NA)                 | 525                | 1,948  | 1,546                             | 3,494                              | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3295.—MINERALS, GROUND OR TREATED       |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963 <sup>3 4</sup> .....                        | 313                        | 415               | 97   | 7,330             | 41,567               | 5,688              | 11,749               | 29,643             | 102,079  | 101,881                           | 204,393                            | 11,873  | 94  | 86                                       |
| 1962 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | (8,570)           | (48,954)             | (6,535)            | (13,955)             | (35,161)           | (128,286)  | (102,569)                         | (226,267)                          | (21,118)  | (NA)  | (NA)                                     |
| 1961 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | (8,674)           | (47,742)             | (6,552)            | (14,248)             | (34,256)           | (126,688)  | (104,751)                         | (232,709)                          | (35,515)  | (NA)  | (NA)                                     |
| 1960 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | (9,276)           | (50,328)             | (7,190)            | (15,160)             | (36,372)           | (137,322)  | (102,036)                         | (236,520)                          | (14,612)  | (NA)  | (NA)                                     |
| 1959 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | (8,910)           | (47,805)             | (6,990)            | (14,454)             | (34,721)           | (136,744)  | (107,588)                         | (244,565)                          | (26,581)  | (NA)  | (NA)                                     |
| 1958 <sup>4 5</sup> .....                        | 300                        | 424               | 111  | 8,302             | 42,277               | 6,496              | 13,512               | 30,504             | 115,538  | 101,530                           | 219,086                            | 9,486   | 96  | 85                                       |
| 1958 (old) <sup>4 5</sup> .....                  | (NA)                       | 386               | 100  | 7,557             | 38,288               | 5,988              | 12,487               | 28,180             | 104,688  | 88,635                            | 195,032                            | 6,400   | 95  | 84                                       |
| 1957 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 8,905             | 44,965               | 7,415              | 15,734               | 34,708             | 123,642  | 87,870                            | 207,183                            | (S)   | 95  | 90                                       |
| 1956 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 8,594             | 41,953               | 7,183              | 15,369               | 32,252             | 116,072  | 79,604                            | 194,871                            | 23,224  | (NA)  | (NA)                                     |
| 1955 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 8,447             | 38,280               | 6,998              | 15,025               | 28,376             | 105,327  | 65,816                            | 170,739                            | (S)   | (NA)  | (NA)                                     |
| 1954.....  | 284                        | 353               | 108  | 7,699             | 32,404               | 6,401              | 13,784               | 24,312             | 90,752   | 63,477                            | 154,014                            | 10,226  | 98  | 87                                       |
| 1953 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 9,963             | 39,315               | 8,424              | 18,156               | 30,458             | 96,961   | 62,361                            | 159,322                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 10,291            | 33,136               | 7,884              | 18,133               | 23,070             | 79,405   | 59,732                            | 139,137                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....  | (NA)                       | 217               | (NA)   | 8,873             | 24,126               | 7,417              | (NA)                 | 18,356             | 55,556   | 34,643                            | 90,199                             | 8,780   | 94  | 88                                       |
| 1939.....  | (NA)                       | 229               | (NA)   | (NA)              | (NA)                 | 5,229              | (NA)                 | 5,347              | 23,445   | 14,496                            | 37,941                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3296.—MINERAL WOOL                      |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963 <sup>4</sup> .....                          | 89                         | 123               | 67   | 14,733            | 92,347               | 11,647             | 24,781               | 69,089             | 206,846  | 186,772                           | 391,873                            | 37,956  | 90  | 96                                       |
| 1962 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | (14,783)          | (93,342)             | (11,869)           | (24,762)             | (66,728)           | (212,901)  | (188,379)                         | (398,466)                          | (15,129)  | (NA)  | (NA)                                     |
| 1961 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | (13,460)          | (78,191)             | (10,807)           | (22,970)             | (57,835)           | (186,152)  | (163,602)                         | (347,363)                          | (13,560)  | (NA)  | (NA)                                     |
| 1960 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | (12,849)          | (70,514)             | (10,288)           | (20,583)             | (51,636)           | (165,179)  | (144,160)                         | (307,105)                          | (15,254)  | (NA)  | (NA)                                     |
| 1959 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | (13,358)          | (71,625)             | (10,444)           | (22,491)             | (52,599)           | (166,595)  | (144,856)                         | (309,009)                          | (13,834)  | (NA)  | (NA)                                     |
| 1958 <sup>4 5</sup> .....                        | 74                         | 102               | 62   | 11,893            | 59,109               | 9,026              | 18,705               | 42,742             | 133,453  | 107,543                           | 240,922                            | 10,405  | 95  | 95                                       |
| 1958 (old) <sup>4 5</sup> .....                  | (NA)                       | 95                | 61   | 11,831            | 58,839               | 8,970              | 18,599               | 42,526             | 132,533  | 106,299                           | 238,764                            | 10,383  | 94  | 95                                       |
| 1957 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 12,016            | 58,486               | 9,403              | 18,899               | 42,800             | 113,855  | 93,569                            | 206,900                            | 13,323  | 95  | 96                                       |
| 1956 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 11,645            | 56,680               | 9,113              | 18,734               | 41,503             | 109,527  | 90,661                            | 197,606                            | 25,884  | (NA)  | (NA)                                     |
| 1955 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 12,300            | 53,787               | 9,411              | 19,573               | 39,861             | 117,434  | 85,057                            | 200,754                            | 9,404   | (NA)  | (NA)                                     |
| 1954.....  | 66                         | 85                | 56   | 10,244            | 44,049               | 7,555              | 15,931               | 31,191             | 91,681   | 71,816                            | 162,682                            | 6,068   | 95  | 93                                       |
| 1953 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 10,506            | 43,110               | 8,661              | 18,354               | 34,075             | 83,035   | 66,252                            | 149,287                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 10,340            | 37,201               | 8,491              | 18,236               | 28,702             | 71,572   | 63,386                            | 134,958                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 10,374            | 34,787               | 8,583              | 18,924               | 26,597             | 70,862   | 59,516                            | 130,378                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 9,244             | 28,731               | 7,544              | 15,630               | 21,873             | 67,955   | 44,594                            | 112,549                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 8,294             | 24,872               | 6,573              | 13,547               | 17,841             | 49,414   | 40,856                            | 90,270                             | (NA)  | (NA)  | (NA)                                     |
| 1947.....  | 73                         | 91                | 66   | 8,874             | 22,924               | 7,363              | 15,519               | 18,134             | 36,840   | 36,291                            | 73,131                             | 13,191  | (D)   | (D)                                      |
| 1939.....  | (NA)                       | 49                | (NA)   | (NA)              | (NA)                 | 1,848              | (NA)                 | 1,796              | 4,536  | 3,377                             | 7,913                              | (NA)  | (NA)  | (NA)                                     |
| 1937.....  | (NA)                       | 32                | (NA)   | (NA)              | (NA)                 | 1,701              | (NA)                 | 1,835              | 4,330  | 3,129                             | 7,459                              | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3297.—NONCLAY REFRACTORIES              |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 51                         | 93                | 68   | 8,572             | 53,367               | 6,810              | 13,485               | 38,673             | 129,139  | 123,124                           | 250,195                            | 9,346   | 94  | 88                                       |
| 1962 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | (7,634)           | (44,943)             | (5,978)            | (11,517)             | (32,044)           | (102,910)  | (94,816)                          | (197,694)                          | (6,272)   | (NA)  | (NA)                                     |
| 1961 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | (8,065)           | (46,187)             | (6,325)            | (11,868)             | (33,053)           | (106,264)  | (92,271)                          | (199,817)                          | (9,349)   | (NA)  | (NA)                                     |
| 1960 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | (9,380)           | (51,096)             | (7,558)            | (14,072)             | (37,658)           | (118,634)  | (97,597)                          | (213,396)                          | (7,068)   | (NA)  | (NA)                                     |
| 1959 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | (9,388)           | (51,643)             | (7,619)            | (14,530)             | (39,028)           | (121,401)  | (94,960)                          | (209,580)                          | (10,010)  | (NA)  | (NA)                                     |
| 1958 <sup>4 5</sup> .....                        | 50                         | 84                | 66   | 8,013             | 41,167               | 6,325              | 11,657               | 30,352             | 102,362  | 73,770                            | 177,643                            | 14,933  | 95  | 89                                       |
| 1958 (old) <sup>4 5</sup> .....                  | (NA)                       | 89                | 71   | 8,459             | 43,855               | 6,660              | 12,309               | 32,179             | 111,408  | 81,655                            | 194,953                            | 17,371  | 94  | 90                                       |
| 1957 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 10,714            | 52,014               | 8,997              | 16,743               | 41,176             | 128,490  | 88,676                            | 212,324                            | 19,751  | 93  | 86                                       |
| 1956 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 10,770            | 50,868               | 9,129              | 17,470               | 40,001             | 126,876  | 87,520                            | 210,692                            | 16,366  | (NA)  | (NA)                                     |
| 1955 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 9,542             | 43,063               | 8,128              | 15,891               | 34,038             | 109,168  | 74,759                            | 180,862                            | 4,200   | (NA)  | (NA)                                     |
| 1954.....  | 49                         | 77                | 59   | 8,559             | 34,260               | 7,150              | 12,890               | 26,124             | 77,443   | 78,717                            | 132,130                            | 3,739   | 96  | 90                                       |
| 1953 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 11,953            | 49,159               | 10,269             | 19,840               | 39,825             | 108,696  | 77,538                            | 186,234                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 11,498            | 43,068               | 10,048             | 18,701               | 34,787             | 84,861   | 70,256                            | 155,130                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 11,696            | 44,404               | 10,295             | 20,944               | 36,927             | 85,553   | 80,795                            | 176,363                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 9,818             | 32,129               | 8,653              | 16,275               | 26,478             | 67,759   | 55,611                            | 122,930                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>2 4</sup> .....                        | (NA)                       | (NA)              | (NA)   | 9,553             | 27,341               | 8,506              | 14,297               | 22,243             | 53,907   | 40,179                            | 93,753                             | (NA)  | (NA)  | (NA)                                     |
| 1947.....  | 42                         | 63                | 50   | 10,273            | 27,783               | 8,951              | 17,626               | 22,963             | 58,022   | 35,774                            | 90,337                             | 5,772   | 94  | 91                                       |
| 1939.....  | (NA)                       | 41                | (NA)   | (NA)              | (NA)                 | 4,542              | (NA)                 | 4,936              | 13,464   | 9,760                             | 23,224                             | (NA)  | (NA)  | (NA)                                     |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Com-<br>panies<br><br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br><br>(\$1,000) | Cost of<br>materials<br><br>(\$1,000) | Value of<br>shipments<br><br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br><br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|--------------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|---------------------------------------|--|---|---|--|
|   |                                | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                       |  |   |   |  |
| INDUSTRY 3299.—NONMETALLIC PRODUCTS, N.E.C. |                                |                   |  |                   |                      |                    |                      |                    |  |                                       |  |   |   |  |
| 1963.....                                   | 313                            | 320               | 56   | 5,471             | 27,094               | 4,361              | 8,266                | 18,231             | 53,289   | 43,408                                | 96,188                                 | 2,187   | 86  | 96                                       |
| 1962 <sup>2</sup> .....                     | (NA)                           | (NA)              | (NA)   | (2,031)           | (5,623)              | (1,773)            | (2,369)              | (3,743)            | (18,737)   | (23,792)                              | (43,091)                               | (1,322)   | (NA)  | (NA)                                     |
| 1961 <sup>2</sup> .....                     | (NA)                           | (NA)              | (NA)   | (1,870)           | (5,769)              | (1,557)            | (2,980)              | (4,321)            | (19,800)   | (26,898)                              | (48,261)                               | (1,480)   | (NA)  | (NA)                                     |
| 1960 <sup>2</sup> .....                     | (NA)                           | (NA)              | (NA)   | (2,250)           | (11,518)             | (1,701)            | (5,676)              | (5,628)            | (23,366)   | (29,106)                              | (52,571)                               | (1,421)   | (NA)  | (NA)                                     |
| 1959 <sup>2</sup> .....                     | (NA)                           | (NA)              | (NA)   | (7,210)           | (25,117)             | (6,077)            | (13,802)             | (18,999)           | (42,325)   | (37,028)                              | (79,863)                               | (1,071)   | (NA)  | (NA)                                     |
| 1958 <sup>4</sup> .....                     | 252                            | 254               | 51   | 4,316             | 16,982               | 3,406              | 6,535                | 11,586             | 31,973   | 26,865                                | 58,947                                 | 1,194   | 85  | 85                                       |
| 1958 (old) <sup>4</sup> .....               | (NA)                           | 148               | 39   | 3,503             | 14,839               | 2,610              | 5,056                | 9,168              | 29,578   | 30,351                                | 60,020                                 | 1,034   | 82  | 84                                       |
| 1957 <sup>2</sup> .....                     | (NA)                           | (NA)              | (NA)   | 4,391             | 17,746               | 3,364              | 6,767                | 11,648             | 29,944   | (NA)                                  | 53,758                                 | (S)   | (NA)  | (NA)                                     |
| 1956 <sup>2</sup> .....                     | (NA)                           | (NA)              | (NA)   | 4,723             | 19,504               | 3,703              | 7,483                | 13,182             | 35,295   | 26,469                                | 61,073                                 | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>2</sup> .....                     | (NA)                           | (NA)              | (NA)   | 4,683             | 17,827               | 3,750              | 7,450                | 12,085             | 30,203   | 25,962                                | 55,665                                 | (S)   | (NA)  | (NA)                                     |
| 1954 <sup>2</sup> .....                     | 96                             | 121               | 38   | 4,483             | 15,835               | 3,605              | 7,126                | 10,943             | 30,261   | 26,054                                | 56,604                                 | 1,574   | 84  | 94                                       |
| 1953 <sup>1</sup> .....                     | (NA)                           | (NA)              | (NA)   | 4,292             | 13,771               | 3,590              | 7,272                | 10,601             | 29,344   | 20,548                                | 49,892                                 | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                   | (NA)                           | 99                | (NA)   | 2,579             | 6,459                | 2,184              | (NA)                 | 4,744              | 13,855   | 12,087                                | 25,942                                 | (NA)  | (NA)  | (NA)                                     |
| 1939.....                                   | (NA)                           | (NA)              | (NA)   | (NA)              | (NA)                 | 1,563              | (NA)                 | 1,467              | 5,002  | 3,345                                 | 8,347                                  | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: **All employees:** For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** For 1947 and prior years figures represent an average of 12 monthly figures. **Value added:** Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. **Cost of materials:** Cost of materials prior to 1954 excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. **Value of shipments:** Value of shipments for years prior to 1954 excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>This is a minimum percentage; the exact percentage is withheld to avoid disclosing figures of individual companies.

<sup>2</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>3</sup>Plants producing roofing granules and plants producing dead-burned magnesia or magnesite in conjunction with mining operations are classified in the mineral industries for 1963. In prior years these plants were included in industry 3295, Minerals, Ground or Treated. Prior years' data have not been revised to avoid disclosing figures of individual companies.

<sup>4</sup>Establishments primarily engaged in producing exfoliated vermiculate were reclassified from industry 3296, Mineral Wool, to industry 3295, Minerals, Ground or Treated, in 1963. For 1958 the data have been revised to reflect this change; however, data for the years 1959-1962 have not. The value of shipments of these plants was approximately \$11 million in 1958.

<sup>5</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that data for the industry prior to 1958 are not directly comparable. Details of this revision are described in the 1958 Census of Manufactures Volume II, Industry Statistics.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>           | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3291.—ABRASIVE PRODUCTS       |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                             | 378            | 149                                | 28,170         | 186,971           | 18,583             | 36,695            | 107,628         | 416,415                              | 287,458           | 704,212            | 15,506                    | 23,955           | 277,706                              |
| New England.....                       | 47             | 24                                 | 6,041          | 41,406            | 3,956              | 7,636             | 23,163          | 83,822                               | 55,759            | 140,624            | 3,350                     | 6,519            | 61,193                               |
| Massachusetts....                      | 26             | 15                                 | 5,267          | 37,338            | 3,407              | 6,549             | 20,657          | 74,800                               | 48,100            | 123,963            | 3,128                     | 5,655            | 53,212                               |
| Connecticut.....                       | 16             | 6                                  | 531            | 2,932             | 362                | 719               | 1,728           | 6,894                                | 6,132             | 12,943             | 137                       | 529              | 5,737                                |
| Middle Atlantic....                    | 110            | 49                                 | 10,423         | 68,958            | 7,130              | 14,288            | 42,609          | 132,917                              | 105,447           | 238,556            | 5,535                     | 9,353            | 98,215                               |
| New York.....                          | 51             | 23                                 | 8,045          | 53,933            | 5,483              | 11,003            | 33,291          | 107,364                              | 85,243            | 193,353            | 4,548                     | 7,219            | 78,811                               |
| New Jersey.....                        | 26             | 9                                  | 727            | 4,640             | 512                | 1,031             | 2,840           | 6,981                                | 5,986             | 12,920             | 224                       | 591              | 4,789                                |
| Pennsylvania....                       | 33             | 17                                 | 1,651          | 10,385            | 1,135              | 2,254             | 6,478           | 18,572                               | 14,218            | 32,283             | 763                       | 1,543            | 14,615                               |
| North Central.....                     | 168            | 62                                 | 10,620         | 70,513            | 6,698              | 13,168            | 37,960          | 185,231                              | 112,658           | 296,794            | 5,789                     | 7,219            | 110,012                              |
| Indiana.....                           | 8              | 2                                  | 119            | 502               | 97                 | 169               | 355             | 1,277                                | 1,000             | 2,280              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Illinois.....                          | 53             | 22                                 | 1,914          | 11,292            | 1,431              | 2,892             | 7,543           | 38,769                               | 22,998            | 61,499             | 1,639                     | 1,355            | 25,174                               |
| Michigan.....                          | 51             | 18                                 | 1,679          | 10,114            | 1,182              | 2,299             | 6,043           | 21,359                               | 17,403            | 38,745             | 1,000                     | 1,488            | 15,671                               |
| South.....                             | 21             | 5                                  | 403            | 1,839             | 329                | 662               | 1,228           | 3,613                                | 5,054             | 8,762              | 113                       | 158              | 1,028                                |
| West.....                              | 32             | 9                                  | 683            | 4,255             | 470                | 941               | 2,668           | 10,832                               | 8,540             | 19,476             | 719                       | 706              | 7,258                                |
| INDUSTRY 3292.—ASBESTOS PRODUCTS       |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                             | 124            | 84                                 | 19,516         | 118,024           | 15,738             | 32,884            | 89,766          | 269,067                              | 240,725           | 509,236            | 12,381                    | 21,292           | 235,487                              |
| New England.....                       | 14             | 9                                  | 2,203          | 13,567            | 1,743              | 3,586             | 10,425          | 24,548                               | 18,469            | 43,233             | 516                       | 2,119            | 19,455                               |
| Massachusetts....                      | 7              | 3                                  | 248            | 1,253             | 202                | 428               | 894             | 2,757                                | 2,249             | 5,051              | 18                        | 217              | 2,524                                |
| Middle Atlantic....                    | 31             | 21                                 | 6,492          | 40,543            | 5,207              | 10,753            | 30,126          | 83,224                               | 72,238            | 155,430            | 3,699                     | 8,474            | 82,550                               |
| New York.....                          | 6              | 4                                  | 1,593          | 9,896             | 1,289              | 2,610             | 7,003           | 16,169                               | 19,782            | 35,750             | 922                       | 1,528            | 12,303                               |
| New Jersey.....                        | 16             | 11                                 | 2,810          | 17,570            | 2,306              | 4,861             | 14,071          | 41,462                               | 37,543            | 78,908             | 1,576                     | 4,635            | 46,843                               |
| Pennsylvania....                       | 9              | 6                                  | 2,089          | 13,077            | 1,612              | 3,282             | 9,052           | 25,593                               | 14,913            | 40,772             | 1,201                     | 2,311            | 23,404                               |
| East North Central.                    | 26             | 17                                 | 3,981          | 24,468            | 3,175              | 6,793             | 19,064          | 58,675                               | 59,905            | 117,746            | 2,428                     | 4,335            | 56,721                               |
| Indiana.....                           | 6              | 5                                  | 981            | 5,037             | 748                | 1,445             | 3,553           | 8,677                                | 6,949             | 16,559             | 211                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Illinois.....                          | 14             | 9                                  | 2,541          | 16,891            | 2,041              | 4,517             | 13,384          | 43,930                               | 46,963            | 89,911             | 1,274                     | 3,027            | 41,325                               |
| West North Central.                    | 6              | 4                                  | 452            | 2,805             | 375                | 760               | 2,219           | 7,374                                | 5,785             | 13,411             | 232                       | 729              | 8,019                                |
| South.....                             | 29             | 20                                 | 4,450          | 22,869            | 3,731              | 7,664             | 17,733          | 53,944                               | 45,713            | 99,332             | 3,039                     | 3,738            | 37,796                               |
| Louisiana.....                         | 6              | 6                                  | 953            | 5,553             | 792                | 1,646             | 4,381           | 12,447                               | 11,230            | 23,207             | 643                       | 1,048            | 11,092                               |
| Texas.....                             | 8              | 5                                  | 1,043          | 5,974             | 845                | 1,883             | 4,470           | 18,125                               | 18,099            | 35,977             | 1,282                     | 582              | 8,282                                |
| West.....                              | 18             | 13                                 | 1,938          | 13,773            | 1,507              | 3,328             | 10,199          | 41,302                               | 38,615            | 80,084             | 2,467                     | 1,897            | 30,946                               |
| California.....                        | 18             | 13                                 | 1,938          | 13,773            | 1,507              | 3,328             | 10,199          | 41,302                               | 38,615            | 80,084             | 2,467                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| INDUSTRY 3293.—GASKETS AND INSULATIONS |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                             | 295            | 111                                | 16,825         | 94,441            | 12,684             | 25,906            | 62,301          | 160,734                              | 116,978           | 279,226            | 8,865                     | 13,494           | 105,211                              |
| New England.....                       | 17             | 9                                  | 930            | 5,356             | 639                | 1,273             | 2,903           | 9,214                                | 6,082             | 15,144             | 236                       | 911              | 6,687                                |
| Massachusetts....                      | 13             | 5                                  | 461            | 2,930             | 298                | 585               | 1,383           | 5,022                                | 4,219             | 9,087              | (D)                       | 423              | 3,277                                |
| Connecticut.....                       | 4              | 4                                  | 469            | 2,426             | 341                | 688               | 1,520           | 4,192                                | 1,863             | 6,057              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Middle Atlantic....                    | 77             | 28                                 | 4,299          | 26,542            | 3,269              | 6,704             | 18,739          | 45,480                               | 29,900            | 76,426             | 1,690                     | 3,188            | 24,905                               |
| New York.....                          | 34             | 8                                  | 491            | 2,662             | 341                | 723               | 1,424           | 4,300                                | 5,911             | 10,293             | 145                       | 479              | 3,368                                |
| New Jersey.....                        | 24             | 12                                 | 2,328          | 15,138            | 1,804              | 3,736             | 11,256          | 27,108                               | 13,920            | 41,601             | 483                       | 522              | 5,317                                |
| Pennsylvania....                       | 19             | 8                                  | 1,480          | 8,742             | 1,124              | 2,245             | 6,059           | 14,072                               | 10,069            | 24,532             | 1,062                     | 2,187            | 16,220                               |
| East North Central.                    | 106            | 46                                 | 8,682          | 47,920            | 6,604              | 13,377            | 31,499          | 80,955                               | 59,347            | 140,650            | 5,343                     | 7,619            | 58,281                               |
| Ohio.....                              | 25             | 12                                 | 1,044          | 5,346             | 808                | 1,640             | 3,542           | 8,993                                | 7,133             | 16,140             | 300                       | 790              | 5,402                                |
| Indiana.....                           | 10             | 3                                  | 1,147          | 5,443             | 1,019              | 2,100             | 4,424           | 10,544                               | 6,574             | 17,134             | 1,112                     | 749              | 5,362                                |
| Illinois.....                          | 43             | 21                                 | 5,364          | 30,663            | 3,854              | 7,827             | 18,911          | 49,710                               | 35,634            | 85,579             | 3,480                     | 4,768            | 37,167                               |
| Michigan.....                          | 21             | 8                                  | 957            | 5,562             | 789                | 1,584             | 4,084           | 10,240                               | 8,658             | 18,983             | 357                       | 1,124            | 8,864                                |
| Wisconsin.....                         | 7              | 2                                  | 170            | 906               | 134                | 226               | 538             | 1,468                                | 1,348             | 2,814              | 94                        | 188              | 1,486                                |
| West North Central.                    | 17             | 2                                  | 256            | 1,163             | 210                | 421               | 823             | 2,034                                | 2,424             | 4,408              | 62                        | 77               | 703                                  |
| Minnesota.....                         | 6              | 1                                  | 127            | 548               | 111                | 214               | 429             | 1,032                                | 844               | 1,850              | 26                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South.....                             | 33             | 13                                 | 1,527          | 6,887             | 1,242              | 2,618             | 4,731           | 11,582                               | 11,710            | 23,425             | 1,057                     | 864              | 5,605                                |
| Texas.....                             | 13             | 7                                  | 535            | 2,796             | 407                | 908               | 1,691           | 5,017                                | 3,409             | 8,347              | (D)                       | 448              | 3,290                                |
| Mountain.....                          | 3              | -                                  | 6              | 28                | 4                  | 8                 | 20              | 45                                   | 116               | 164                | 5                         | 835              | 9,030                                |
| Pacific.....                           | 42             | 13                                 | 1,125          | 6,545             | 716                | 1,505             | 3,586           | 11,424                               | 7,399             | 19,009             | 472                       | 835              | 9,030                                |
| California.....                        | 36             | 13                                 | 1,114          | 6,489             | 707                | 1,486             | 3,540           | 11,323                               | 7,306             | 18,801             | 467                       | 782              | 8,601                                |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                            | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3295.—MINERALS, GROUND OR TREATED <sup>3</sup> |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....  | 415            | 97                                 | 7,330          | 41,567            | 5,688              | 11,749            | 29,643          | 102,079                              | 101,881           | 204,393            | 11,873                    | 8,302            | 115,538                              |
| New England.....  | 10             | 1                                  | 121            | 718               | 90                 | 177               | 363             | 1,249                                | 1,076             | 2,357              | 81                        | (D)              | (D)                                  |
| Middle Atlantic....                                     | 91             | 23                                 | 1,742          | 10,632            | 1,335              | 2,811             | 7,589           | 21,942                               | 25,233            | 47,037             | 2,750                     | (D)              | (D)                                  |
| New York.....   | 17             | 4                                  | 305            | 1,694             | 239                | 498               | 1,321           | 3,137                                | 2,674             | 5,866              | 270                       | (D)              | (D)                                  |
| New Jersey.....   | 23             | 5                                  | 479            | 3,115             | 327                | 686               | 1,933           | 7,149                                | 9,049             | 16,101             | 918                       | (D)              | (D)                                  |
| Pennsylvania....  | 51             | 14                                 | 958            | 5,823             | 769                | 1,627             | 4,335           | 11,657                               | 13,510            | 25,070             | 1,562                     | (D)              | (D)                                  |
| East North Central.                                     | 73             | 26                                 | 1,558          | 9,880             | 1,178              | 2,382             | 6,498           | 22,706                               | 22,917            | 45,752             | 1,808                     | (D)              | (D)                                  |
| Ohio.....   | 27             | 10                                 | 463            | 2,820             | 386                | 816               | 2,276           | 6,848                                | 2,772             | 9,723              | 660                       | 495              | 6,459                                |
| Indiana.....  | 7              | 2                                  | 149            | 1,126             | 115                | 241               | 777             | 2,024                                | 1,398             | 3,436              | (D)                       | 310              | 4,412                                |
| Illinois.....   | 21             | 9                                  | 563            | 3,450             | 408                | 783               | 2,125           | 7,057                                | 7,357             | 14,421             | 329                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Michigan.....   | 11             | 3                                  | 219            | 1,356             | 171                | 353               | 869             | 4,507                                | 9,044             | 13,559             | 371                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Wisconsin.....  | 7              | 2                                  | 164            | 1,128             | 98                 | 189               | 451             | 2,270                                | 2,346             | 4,613              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West North Central.                                     | 19             | -                                  | 133            | 643               | 101                | 197               | 437             | 2,646                                | 1,658             | 4,295              | 25                        | (D)              | (D)                                  |
| South Atlantic....                                      | 49             | 15                                 | 1,128          | 5,599             | 913                | 1,931             | 4,352           | 13,055                               | 10,776            | 23,870             | 1,194                     | (D)              | (D)                                  |
| Maryland.....   | 6              | 2                                  | 165            | 955               | 122                | 265               | 704             | 2,104                                | 1,214             | 3,321              | 241                       | (D)              | (D)                                  |
| Virginia.....   | 8              | 3                                  | 124            | 554               | 101                | 228               | 450             | 1,131                                | 1,297             | 2,445              | 114                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| North Carolina..  | 11             | 3                                  | 215            | 946               | 166                | 354               | 634             | 2,062                                | 2,025             | 3,986              | 179                       | (D)              | (D)                                  |
| Georgia.....  | 6              | 4                                  | 431            | 2,118             | 375                | 748               | 1,813           | 5,290                                | 3,788             | 9,202              | 379                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| East South Central.                                     | 27             | 9                                  | 581            | 2,486             | 503                | 918               | 1,958           | 8,713                                | 5,100             | 13,776             | 384                       | (D)              | (D)                                  |
| Alabama.....  | 14             | 5                                  | 302            | 1,004             | 268                | 397               | 811             | 4,030                                | 1,505             | 5,569              | 59                        | (D)              | (D)                                  |
| West South Central.                                     | 46             | 11                                 | 753            | 3,707             | 595                | 1,290             | 2,661           | 11,080                               | 15,527            | 27,397             | 2,238                     | (D)              | (D)                                  |
| Texas.....  | 33             | 8                                  | 528            | 2,591             | 424                | 945               | 1,866           | 5,838                                | 7,194             | 13,374             | 2,099                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Mountain.....   | 36             | 3                                  | 332            | 1,802             | 264                | 521               | 1,415           | 4,662                                | 4,224             | 8,751              | 485                       | 559              | 9,989                                |
| Pacific.....  | 64             | 9                                  | 982            | 6,100             | 709                | 1,522             | 4,370           | 16,026                               | 15,370            | 31,158             | 2,908                     | 1,075            | 18,088                               |
| California.....   | 49             | 9                                  | 887            | 5,648             | 643                | 1,392             | 4,070           | 14,936                               | 14,289            | 28,978             | 2,751                     | (D)              | (D)                                  |
| INDUSTRY 3296.—MINERAL WOOL                             |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....  | 123            | 67                                 | 14,733         | 92,347            | 11,647             | 24,781            | 69,089          | 206,846                              | 186,772           | 391,873            | 37,956                    | 11,898           | 133,453                              |
| Middle Atlantic....                                     | 24             | 13                                 | 2,406          | 15,397            | 1,874              | 3,974             | 11,106          | 36,293                               | 31,509            | 67,643             | 5,753                     | (D)              | (D)                                  |
| New York.....   | 8              | 2                                  | 122            | 598               | 96                 | 188               | 457             | 1,016                                | 924               | 1,930              | 33                        | 150              | 997                                  |
| New Jersey.....   | 7              | 6                                  | 1,521          | 10,443            | 1,160              | 2,521             | 7,446           | 23,097                               | 25,538            | 48,503             | 5,277                     | (D)              | (D)                                  |
| Pennsylvania....  | 9              | 5                                  | 763            | 4,356             | 618                | 1,265             | 3,203           | 12,180                               | 5,047             | 17,210             | 443                       | (D)              | (D)                                  |
| North Central.....                                      | 47             | 30                                 | 8,436          | 51,456            | 6,847              | 14,665            | 41,501          | 105,807                              | 106,052           | 209,790            | 12,528                    | 7,767            | 85,494                               |
| Indiana.....  | 13             | 10                                 | 1,757          | 9,946             | 1,461              | 3,086             | 7,813           | 18,530                               | 15,187            | 33,085             | 1,823                     | 1,907            | 19,247                               |
| East South Central.                                     | 10             | 8                                  | 460            | 2,318             | 349                | 743               | 1,439           | 5,336                                | 4,826             | 10,153             | (D)                       | (D)              | (D)                                  |
| Alabama.....  | 3              | 3                                  | 220            | 1,233             | 178                | 407               | 870             | 3,075                                | 1,940             | 5,018              | 95                        | 187              | 1,559                                |
| West South Central.                                     | 9              | 5                                  | 352            | 1,766             | 217                | 432               | 997             | 3,734                                | 3,679             | 7,214              | (D)                       | (D)              | (D)                                  |
| Pacific.....  | 19             | 7                                  | 1,956          | 14,852            | 1,458              | 3,155             | 8,977           | 34,107                               | 29,407            | 63,611             | 4,168                     | 1,217            | 15,643                               |
| All other divisions                                     | 14             | 4                                  | 1,123          | 6,558             | 902                | 1,812             | 5,069           | 21,569                               | 11,299            | 33,462             | 1,048                     | 388              | 3,860                                |
| INDUSTRY 3297.—NONCLAY REFRACTORIES                     |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....  | 93             | 68                                 | 8,572          | 53,367            | 6,810              | 13,485            | 38,673          | 129,139                              | 123,124           | 250,195            | 9,346                     | 8,013            | 102,362                              |
| New England.....  | 5              | 4                                  | 190            | 1,176             | 134                | 279               | 725             | 2,383                                | 1,802             | 4,328              | 94                        | 198              | 1,904                                |
| Middle Atlantic....                                     | 36             | 25                                 | 3,416          | 21,762            | 2,485              | 4,865             | 14,344          | 41,636                               | 37,281            | 79,458             | 2,388                     | 3,598            | 36,325                               |
| New York.....   | 5              | 4                                  | 589            | 4,128             | 363                | 744               | 2,330           | 9,627                                | 6,451             | 16,115             | 777                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| New Jersey.....   | 7              | 4                                  | 782            | 5,224             | 487                | 995               | 2,722           | 8,948                                | 10,389            | 19,321             | 561                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pennsylvania....  | 24             | 17                                 | 2,045          | 12,410            | 1,635              | 3,126             | 9,292           | 23,061                               | 20,441            | 44,022             | 1,050                     | 2,432            | 25,279                               |
| East North Central.                                     | 27             | 21                                 | 2,015          | 11,970            | 1,720              | 3,286             | 9,216           | 37,429                               | 33,947            | 70,588             | 1,646                     | 1,759            | 25,941                               |
| Ohio.....   | 13             | 11                                 | 995            | 6,134             | 838                | 1,632             | 4,499           | 15,452                               | 14,556            | 29,971             | 925                       | 807              | 11,414                               |
| Indiana.....  | 4              | 4                                  | 605            | 3,641             | 531                | 1,021             | 3,031           | 14,359                               | 12,473            | 25,983             | 520                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South.....  | 16             | 12                                 | 2,500          | 15,814            | 2,096              | 4,323             | 12,342          | 39,398                               | 40,176            | 76,915             | 5,021                     | 1,997            | 29,703                               |
| West.....   | 9              | 6                                  | 451            | 2,645             | 375                | 732               | 2,046           | 8,293                                | 9,918             | 18,906             | 197                       | 461              | 8,489                                |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3299.—NONMETALLIC PRODUCTS, N.E.C. |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                  | 320            | 56                                 | 5,471          | 27,094            | 4,361              | 8,266             | 18,231          | 53,289                               | 43,408            | 96,188             | 2,187                     | 4,316            | 31,973                               |
| Middle Atlantic....                         | 91             | 21                                 | 1,884          | 10,480            | 1,404              | 2,633             | 6,528           | 19,813                               | 16,755            | 36,724             | 949                       | 1,528            | 13,583                               |
| New York.....                               | 47             | 9                                  | 1,104          | 6,546             | 788                | 1,473             | 3,863           | 12,579                               | 10,567            | 23,331             | 505                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| New Jersey.....                             | 21             | 5                                  | 356            | 1,985             | 270                | 525               | 1,297           | 4,065                                | 6,987             | 7,987              | 372                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pennsylvania.....                           | 23             | 7                                  | 424            | 1,949             | 346                | 635               | 1,368           | 3,169                                | 3,246             | 6,406              | 72                        | 422              | 3,053                                |
| East North Central.                         | 64             | 13                                 | 1,334          | 6,248             | 1,119              | 2,168             | 4,758           | 13,872                               | 10,581            | 24,293             | 571                       | 788              | 5,697                                |
| Ohio.....                                   | 19             | 5                                  | 541            | 2,221             | 431                | 755               | 1,503           | 5,368                                | 5,214             | 10,506             | 122                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Illinois.....                               | 23             | 5                                  | 576            | 3,078             | 515                | 1,116             | 2,622           | 6,679                                | 4,234             | 10,845             | 420                       | 296              | 2,685                                |
| Michigan.....                               | 11             | 2                                  | 123            | 625               | 104                | 168               | 413             | 1,283                                | 550               | 1,856              | 19                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West North Central.                         | 25             | 1                                  | 132            | 578               | 111                | 203               | 468             | 1,056                                | 544               | 1,571              | 19                        | 211              | 999                                  |
| East South Central.                         | 9              | 1                                  | 104            | 353               | 92                 | 183               | 293             | 576                                  | 434               | 1,056              | 27                        | 102              | 1,057                                |
| West South Central.                         | 16             | 1                                  | 218            | 1,043             | 178                | 359               | 825             | 2,311                                | 2,505             | 4,492              | 170                       | 74               | 502                                  |
| Pacific.....                                | 63             | 6                                  | 452            | 2,973             | 324                | 582               | 1,576           | 6,100                                | 5,848             | 11,920             | 184                       | 220              | 2,318                                |
| California.....                             | 54             | 5                                  | 388            | 2,660             | 269                | 482               | 1,350           | 5,536                                | 5,597             | 11,107             | 179                       | 208              | 2,243                                |
| All other divisions                         | 52             | 13                                 | 1,347          | 5,419             | 1,133              | 2,138             | 3,783           | 9,561                                | 6,741             | 16,132             | 267                       | 1,393            | 7,817                                |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3291, Abrasive Products: New England—New Hampshire, 3 (100-249); Rhode Island, 2 (100-249); East North Central—Ohio, 43 (1,000-2,499); Wisconsin, 8 (250-499); West North Central—Minnesota, 2 (2,500-4,999); Missouri, 2 (20-99); Kansas, 1 (1-19); South Atlantic—North Carolina, 3 (103); Georgia, 5 (20-99); Florida, 2 (1-19); East South Central—Tennessee, 4 (20-99); Alabama, 2 (20-99); Mississippi, 2 (100-249); West South Central—Arkansas, 2 (1-19); Texas, 1 (1-19); Mountain—Idaho, 2 (1-19); New Mexico, 1 (1-19); Pacific—Washington, 2 (100-249); Oregon, 2 (20-99); California, 25 (466).

SIC 3292, Asbestos Products: New England—New Hampshire, 2 (250-499); Connecticut, 5 (1,000-2,499); East North Central—Ohio, 4 (250-499); Michigan, 1 (1-19); Wisconsin, 1 (1-19); West North Central—Missouri, 5 (250-499); Kansas, 1 (1-19); South Atlantic—Virginia, 3 (505); North Carolina, 3 (500-999); South Carolina, 2 (500-999); Georgia, 3 (163); Florida, 1 (1-19); East South Central—Alabama, 1 (20-99); Mississippi, 2 (100-249).

SIC 3293, Gaskets and Insulations: West North Central—Missouri, 7 (20-99); Nebraska, 1 (1-19); Kansas, 3 (20-99); South Atlantic—Maryland, 3 (20-99); Virginia, 1 (250-499); West Virginia, 1 (20-99); North Carolina, 2 (1-19); Georgia, 3 (1-19); Florida, 1 (1-19); East South Central—Tennessee, 3 (250-499); Alabama, 2 (20-99); Mississippi, 1 (1-19); West South Central—Oklahoma, 3 (20-99); Mountain—Colorado, 2 (1-19); New Mexico, 1 (1-19); Pacific—Washington, 5 (1-19); Oregon, 1 (1-19).

SIC 3295, Minerals, Ground or Treated: New England—New Hampshire, 1 (1-19); Massachusetts, 8 (100-249); Connecticut, 1 (1-19); West North Central—Minnesota, 5 (20-99); Missouri, 7 (20-99); North Dakota, 1 (1-19); South Dakota, 2 (1-19); Nebraska, 3 (20-99); Kansas, 1 (1-19); South Atlantic—Delaware, 1 (1-19); West Virginia, 7 (20-99); South Carolina, 3 (20-99); Florida, 7 (20-99); East South Central—Kentucky, 3 (20-99); Tennessee, 9 (20-99); Mississippi, 1 (100-249); West South Central—Arkansas, 3 (20-99); Louisiana, 9 (100-249); Oklahoma, 1 (1-19); Mountain—Montana, 8 (20-99); Idaho, 2 (1-19); Colorado, 8 (20-99); New Mexico, 2 (1-19); Arizona, 8 (20-99); Utah, 7 (141); Nevada, 1 (1-19); Pacific—Washington, 9 (20-99); Oregon, 5 (20-99); Hawaii, 1 (1-19).

SIC 3296, Mineral Wool: New England—Massachusetts, 2 (20-99); Rhode Island, 1 (1-19); East North Central—Ohio, 13 (3,306); Illinois, 6 (113); Michigan, 3 (20-99); Wisconsin, 2 (100-249); West North Central—Minnesota, 3 (130); Missouri, 2 (250-499); South Dakota, 1 (1-19); Kansas, 4 (1,000-2,499); South Atlantic—Virginia, 1 (1-19); West Virginia, 2 (250-499); South Carolina, 1 (1-19); Georgia, 1 (1-19); Florida, 3 (504); East South Central—Kentucky, 2 (20-99); Tennessee, 5 (100-249); West South Central—Arkansas, 1 (20-99); Louisiana, 1 (1-19); Texas, 7 (100-249); Mountain—Colorado, 2 (100-249); Arizona, 1 (1-19); Pacific—Washington, 4 (20-99); California, 14 (1,872); Hawaii, 1 (1-19).

SIC 3297, Nonclay Refractories: New England—Massachusetts, 2 (20-99); Connecticut, 3 (100-249); East North Central—Illinois, 7 (248); Michigan, 3 (167); South Atlantic—Delaware, 1 (1-19); Maryland, 3 (1,000-2,499); West Virginia, 1 (20-99); North Carolina, 2 (20-99); East South Central—Kentucky, 2 (500-999); Tennessee, 2 (100-249); Alabama, 2 (20-99); Mississippi, 1 (250-499); West South Central—Texas, 2 (20-99); Mountain—Montana, 1 (1-19); Colorado, 2 (100-249); Utah, 2 (20-99); Pacific—California, 4 (235).

SIC 3299, Nonmetallic Products, N.E.C.: New England—New Hampshire, 1 (250-499); Massachusetts, 11 (291); East North Central—Indiana, 3 (1-19); Wisconsin, 8 (20-99); West North Central—Minnesota, 5 (20-99); Iowa, 3 (1-19); Missouri, 14 (20-99); South Dakota, 1 (1-19); Nebraska, 1 (1-19); Kansas, 1 (1-19); South Atlantic—Maryland, 2 (1-19); District of Columbia, 2 (20-99); Virginia, 4 (250-499); West Virginia, 2 (1-19); North Carolina, 4 (175); Georgia, 5 (136); Florida, 11 (20-99); East South Central—Kentucky, 4 (20-99); Tennessee, 1 (1-19); Alabama, 1 (1-19); Mississippi, 3 (20-99); West South Central—Arkansas, 1 (100-249); Louisiana, 1 (1-19); Oklahoma, 4 (1-19); Texas, 10 (20-99); Mountain—Wyoming, 1 (1-19); Colorado, 4 (1-19); New Mexico, 1 (1-19); Arizona, 2 (20-99); Utah, 1 (1-19); Nevada, 1 (1-19); Pacific—Washington, 5 (20-99); Oregon, 3 (1-19).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.

<sup>3</sup>See footnotes 3 and 4 on table 1.



TABLE 3. Detailed Statistics: 1963

| Item   | Abrasive products<br>(SIC 3291) | Asbestos products<br>(SIC 3292) | Gaskets and insulations<br>(SIC 3293) | Minerals, ground or treated<br>(SIC 3295) | Mineral wool<br>(SIC 3296) | Nonclay refractories<br>(SIC 3297) | Nonmetallic products, n.e.c.<br>(SIC 3299) |
|--|---------------------------------|---------------------------------|---------------------------------------|---|----------------------------|------------------------------------|--|
| Primary product specialization ratio <sup>1</sup> .....        | .70                             | .95                             | .81                                   | .94                                       | .90                        | .94                                | .86  |
| Coverage ratio <sup>2</sup> .....                              | .95                             | .91                             | .78                                   | .86                                       | .96                        | .88                                | .96  |
| Establishments, total.....number..                             | 378                             | 124                             | 295                                   | 415                                       | 123                        | 93                                 | 320  |
| With 1 to 19 employees.....do....                              | 229                             | 40                              | 184                                   | 318                                       | 56                         | 25                                 | 264  |
| With 20 to 99 employees.....do....                             | 104                             | 23                              | 74                                    | 85  | 36                         | 41                                 | 44   |
| With 100 employees or more.....do....                          | 45                              | 61                              | 37                                    | 12  | 31                         | 27                                 | 12   |
| Proprietors and working partners.....do....                    | 111                             | 14                              | 90                                    | 123                                       | 18                         | 4                                  | 217  |
| All employees (average for the year).....do....                | 28,170                          | 19,516                          | 16,825                                | 7,330                                     | 14,733                     | 8,572                              | 5,471                                      |
| Payroll (all employees), total for year.....\$1,000..          | 186,971                         | 118,024                         | 94,441                                | 41,567                                    | 92,347                     | 53,367                             | 27,094                                     |
| Production workers:  |                                 |                                 |                                       |   |                            |                                    |  |
| Average for the year.....number..                              | 18,583                          | 15,738                          | 12,684                                | 5,688                                     | 11,647                     | 6,810                              | 4,361                                      |
| March.....do....   | 18,463                          | 15,228                          | 12,369                                | 5,739                                     | 11,061                     | 6,830                              | 4,207                                      |
| May.....do....   | 18,447                          | 15,700                          | 12,725                                | 5,969                                     | 11,338                     | 6,973                              | 4,343                                      |
| August.....do....  | 18,707                          | 16,238                          | 12,958                                | 5,557                                     | 11,983                     | 6,889                              | 4,450                                      |
| November.....do....  | 18,755                          | 15,778                          | 12,696                                | 5,501                                     | 12,189                     | 6,555                              | 4,460                                      |
| Man-hours.....1,000..  | 36,695                          | 32,884                          | 25,906                                | 11,749                                    | 24,781                     | 13,485                             | 8,266                                      |
| January-March.....do....                                       | 9,237                           | 7,829                           | 6,520                                 | 2,891                                     | 5,805                      | 3,268                              | 1,965                                      |
| April-June.....do....  | 9,276                           | 8,315                           | 6,375                                 | 3,122                                     | 6,008                      | 3,635                              | 2,110                                      |
| July-September.....do....                                      | 8,887                           | 8,339                           | 6,231                                 | 2,888                                     | 6,605                      | 3,361                              | 2,021                                      |
| October-December.....do....                                    | 9,295                           | 8,401                           | 6,780                                 | 2,848                                     | 6,362                      | 3,221                              | 2,170                                      |
| Wages.....\$1,000..  | 107,628                         | 89,766                          | 62,301                                | 29,643                                    | 69,089                     | 38,673                             | 18,231                                     |
| Cost of materials, etc., total.....do....                      | 287,458                         | 240,725                         | 116,978                               | 101,881                                   | 186,772                    | 123,124                            | 43,408                                     |
| Materials, parts, containers, and supplies consumed.....do.... | 247,394                         | 212,128                         | 97,292                                | 79,504                                    | 157,512                    | 107,668                            | 38,771                                     |
| Cost of resales.....do....                                     | 28,198                          | 19,505                          | 14,750                                | 10,206                                    | 9,851                      | 6,789                              | 2,452                                      |
| Fuels consumed.....do....                                      | 4,598                           | 3,670                           | 2,297                                 | 6,880                                     | 11,167                     | 5,320                              | 1,304                                      |
| Electric energy:   |                                 |                                 |                                       |   |                            |                                    |  |
| Purchased:   |                                 |                                 |                                       |   |                            |                                    |  |
| Quantity.....million kw.-hrs..                                 | 606                             | 425                             | 125                                   | 293                                       | 596                        | 291                                | 53   |
| Cost.....\$1,000..   | 5,557                           | 4,906                           | 1,781                                 | 3,688                                     | 5,405                      | 3,284                              | 770  |
| Generated less sold.....million kw.-hrs..                      | (D)                             | (D)                             | (D)                                   | (D)                                       | (D)                        | -                                  | (D)  |
| Contract work.....\$1,000..                                    | 1,711                           | 516                             | 858                                   | 1,603                                     | 2,837                      | 63                                 | 111  |
| Value of shipments (including resales), total.....do....       | 704,212                         | 509,236                         | 279,226                               | 204,393                                   | 391,873                    | 250,195                            | 96,188                                     |
| Value of resales.....do....                                    | (D)                             | 25,966                          | 24,615                                | 13,955                                    | (D)                        | 7,744                              | 3,189                                      |
| Value added by manufacture, adjusted.....do....                | 416,415                         | 269,067                         | 160,734                               | 102,079                                   | 206,846                    | 129,139                            | 53,289                                     |
| Manufacturers' inventories:                                    |                                 |                                 |                                       |   |                            |                                    |  |
| Beginning of year, total.....do....                            | 115,182                         | 83,202                          | 40,939                                | 23,485                                    | 30,125                     | 67,809                             | 11,098                                     |
| Finished products.....do....                                   | 50,653                          | 49,342                          | 18,925                                | 10,706                                    | 13,721                     | 28,125                             | 3,832                                      |
| Work-in-process.....do....                                     | 24,529                          | 11,746                          | 7,797                                 | 3,391                                     | 2,387                      | 4,515                              | 1,654                                      |
| Materials, supplies, fuel, etc.....do....                      | 40,000                          | 22,114                          | 14,217                                | 9,388                                     | 14,017                     | 35,169                             | 5,612                                      |
| End of year, total.....do....                                  | 115,017                         | 82,827                          | 40,535                                | 23,488                                    | 32,388                     | 71,279                             | 11,296                                     |
| Finished products.....do....                                   | 49,397                          | 49,551                          | 17,329                                | 10,810                                    | 15,898                     | 29,678                             | 3,936                                      |
| Work-in-process.....do....                                     | 25,441                          | 12,093                          | 7,879                                 | 2,854                                     | 1,955                      | 5,030                              | 2,059                                      |
| Materials, supplies, fuel, etc.....do....                      | 40,179                          | 21,183                          | 15,327                                | 9,824                                     | 14,535                     | 36,571                             | 5,301                                      |
| Expenditures for plant and equipment, total.....do....         | 16,368                          | 13,670                          | 9,331                                 | 12,934                                    | 38,179                     | 9,484                              | 4,622                                      |
| New, total.....do....  | 15,506                          | 12,381                          | 8,865                                 | 11,873                                    | 37,956                     | 9,346                              | 2,187                                      |
| New structures and additions to plant.....do....               | 2,562                           | 2,613                           | 2,849                                 | 2,559                                     | 10,225                     | 2,316                              | 599  |
| New machinery and equipment.....do....                         | 12,944                          | 9,768                           | 6,016                                 | 9,314                                     | 27,731                     | 7,030                              | 1,588                                      |
| Used plant and equipment.....do....                            | 862                             | 1,289                           | 466                                   | 1,061                                     | 223                        | 138                                | 2,435                                      |
| Selected operating ratios:                                     |                                 |                                 |                                       |   |                            |                                    |  |
| Payroll/Total employment.....                                  | 6,637                           | 6,048                           | 5,613                                 | 5,671                                     | 6,268                      | 6,226                              | 4,941                                      |
| Production workers/Total employment.....                       | .66                             | .81                             | .75                                   | .78                                       | .79                        | .79                                | .80  |
| Man-hours/Production workers.....                              | 1,975                           | 2,089                           | 2,042                                 | 2,066                                     | 2,128                      | 1,980                              | 1,884                                      |
| Production worker wages/Man-hours.....                         | 2.93                            | 2.73                            | 2.40                                  | 2.52                                      | 2.79                       | 2.87                               | 2.21                                       |
| Cost of materials and payrolls/Total value of shipments.....   | .67                             | .70                             | .76                                   | .70                                       | .71                        | .71                                | .74  |
| Cost of materials/Total value of shipments.....                | .41                             | .47                             | .42                                   | .50                                       | .48                        | .49                                | .45  |
| Adjusted value added/Total employment.....                     | 14,782                          | 13,787                          | 9,553                                 | 13,926                                    | 14,040                     | 15,065                             | 9,582                                      |
| Salaries and wages/Adjusted value added.....                   | .45                             | .44                             | .59                                   | .41                                       | .45                        | .41                                | .52  |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies, (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item                                       | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3291.—ABRASIVE PRODUCTS           |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                | 378                   | 107                                | 62               | 60                 | 72                 | 32                 | 26                   | 11                   | 4                    | 1                        | 3                        |
| All employees:                             |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                          | 28,170                | 182                                | 427              | 852                | 2,122              | 2,148              | 3,866                | 3,789                | 14,784               | (D)                      | (D)                      |
| Payroll.....\$1,000..                      | 186,971               | 982                                | 2,380            | 4,724              | 11,882             | 12,274             | 22,584               | 22,468               | 109,677              | (D)                      | (D)                      |
| Value added, adjusted.....do....           | 416,415               | 2,103                              | 4,734            | 10,583             | 25,244             | 25,329             | 45,321               | 62,339               | 240,762              | (D)                      | (D)                      |
| Value of shipments.....do.....             | 704,212               | 4,549                              | 9,170            | 19,823             | 52,322             | 49,439             | 84,776               | 99,314               | 384,819              | (D)                      | (D)                      |
| Capital expenditures, new...do....         | 15,506                | 313                                | 529              | 611                | 1,189              | 759                | 2,095                | 1,681                | 8,329                | (D)                      | (D)                      |
| INDUSTRY 3292.—ASBESTOS PRODUCTS           |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                | 124                   | 17                                 | 6                | 17                 | 10                 | 13                 | 34                   | 21                   | 4                    | 2                        | -                        |
| All employees:                             |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                          | 19,516                | 31                                 | 42               | 235                | 336                | 978                | 5,279                | 7,340                | 5,275                | (D)                      | -                        |
| Payroll.....\$1,000..                      | 118,024               | 167                                | 231              | 1,172              | 1,834              | 5,009              | 31,485               | 44,691               | 33,435               | (D)                      | -                        |
| Value added, adjusted.....do....           | 269,067               | 181                                | 295              | 2,247              | 3,140              | 10,823             | 79,637               | 106,807              | 65,937               | (D)                      | -                        |
| Value of shipments.....do.....             | 509,236               | 559                                | 652              | 5,372              | 6,159              | 19,573             | 159,589              | 213,401              | 103,931              | (D)                      | -                        |
| Capital expenditures, new...do....         | 12,381                | 19                                 | 24               | 186                | 72                 | 291                | 5,722                | 4,637                | 1,430                | (D)                      | -                        |
| INDUSTRY 3293.—GASKETS AND INSULATIONS     |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                | 295                   | 91                                 | 51               | 42                 | 53                 | 21                 | 22                   | 10                   | 2                    | 3                        | -                        |
| All employees:                             |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                          | 16,825                | 160                                | 353              | 573                | 1,711              | 1,464              | 3,043                | 3,660                | 5,861                | (D)                      | -                        |
| Payroll.....\$1,000..                      | 94,441                | 931                                | 1,742            | 3,154              | 9,534              | 7,460              | 16,894               | 19,909               | 34,817               | (D)                      | -                        |
| Value added, adjusted.....do....           | 160,734               | 1,863                              | 3,321            | 5,020              | 16,628             | 14,172             | 32,101               | 35,668               | 51,961               | (D)                      | -                        |
| Value of shipments.....do.....             | 279,226               | 3,665                              | 7,194            | 10,449             | 33,709             | 27,044             | 54,954               | 58,353               | 83,858               | (D)                      | -                        |
| Capital expenditures, new...do....         | 8,865                 | 529                                | 151              | 194                | 242                | (D)                | 1,100                | 2,518                | 3,431                | (D)                      | -                        |
| INDUSTRY 3295.—MINERALS, GROUND OR TREATED |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                | 415                   | 127                                | 89               | 102                | 63                 | 22                 | 11                   | 1                    | -                    | -                        | -                        |
| All employees:                             |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                          | 7,330                 | 235                                | 633              | 1,411              | 1,895              | 1,478              | 1,678                | (D)                  | -                    | -                        | -                        |
| Payroll.....\$1,000..                      | 41,567                | 1,202                              | 3,016            | 7,621              | 10,682             | 8,892              | 10,154               | (D)                  | -                    | -                        | -                        |
| Value added, adjusted.....do....           | 102,079               | 3,674                              | 7,427            | 17,678             | 26,101             | 19,740             | 27,459               | (D)                  | -                    | -                        | -                        |
| Value of shipments.....do.....             | 204,393               | 6,940                              | 15,822           | 37,248             | 48,317             | 38,548             | 57,518               | (D)                  | -                    | -                        | -                        |
| Capital expenditures, new...do....         | 11,873                | 2,791                              | 704              | 1,542              | 2,475              | 1,294              | 4,067                | (D)                  | -                    | -                        | -                        |
| INDUSTRY 3296.—MINERAL WOOL                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                | 123                   | 30                                 | 9                | 17                 | 14                 | 22                 | 16                   | 8                    | 5                    | 2                        | -                        |
| All employees:                             |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                          | 14,733                | 33                                 | 60               | 228                | 413                | 1,584              | 2,726                | 2,713                | 6,976                | (D)                      | -                        |
| Payroll.....\$1,000..                      | 92,347                | 216                                | 292              | 1,226              | 1,870              | 8,664              | 16,280               | 15,366               | 48,433               | (D)                      | -                        |
| Value added, adjusted.....do....           | 206,846               | 399                                | 609              | 2,317              | 6,049              | 19,465             | 40,726               | 41,791               | 95,490               | (D)                      | -                        |
| Value of shipments.....do.....             | 391,873               | 1,220                              | 1,560            | 5,694              | 11,906             | 36,708             | 65,813               | 66,945               | 202,027              | (D)                      | -                        |
| Capital expenditures, new...do....         | 37,956                | 3,500                              | (D)              | (D)                | (D)                | 15,654             | 3,801                | 2,969                | 12,032               | (D)                      | -                        |
| INDUSTRY 3297.—NONCLAY REFRACTORIES        |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                | 93                    | 10                                 | 6                | 9                  | 20                 | 21                 | 18                   | 7                    | 2                    | -                        | -                        |
| All employees:                             |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                          | 8,572                 | 10                                 | 41               | 126                | 636                | 1,429              | 2,856                | 3,474                | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                      | 53,367                | 64                                 | 257              | 700                | 3,702              | 8,559              | 17,656               | 22,429               | (D)                  | -                        | -                        |
| Value added, adjusted.....do....           | 129,139               | 192                                | 622              | 1,685              | 8,862              | 22,380             | 45,074               | 50,324               | (D)                  | -                        | -                        |
| Value of shipments.....do.....             | 250,195               | 423                                | 1,119            | 3,312              | 17,496             | 43,388             | 83,990               | 100,467              | (D)                  | -                        | -                        |
| Capital expenditures, new...do....         | 9,346                 | 101                                | (D)              | 32                 | 382                | 1,661              | 4,367                | 2,803                | (D)                  | -                        | -                        |



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963—Continued

| Item  | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3299.—NONMETALLIC PRODUCTS, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 320                   | 152                                | 60               | 52                 | 32                 | 12                 | 8                    | 4                    | -                    | -                        | -                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 5,471                 | 203                                | 401              | 649                | 994                | 821                | 1,125                | 1,278                | -                    | -                        | -                        |
| Payroll.....\$1,000..                       | 27,094                | 893                                | 1,700            | 2,980              | 5,161              | 3,708              | 4,947                | 7,705                | -                    | -                        | -                        |
| Value added, adjusted.....do....            | 53,289                | 1,868                              | 3,225            | 6,325              | 10,068             | 6,761              | 8,865                | 16,172               | -                    | -                        | -                        |
| Value of shipments.....do....               | 96,188                | 3,158                              | 5,675            | 10,812             | 17,213             | 12,604             | 17,331               | 29,395               | -                    | -                        | -                        |
| Capital expenditures, new...do....          | 2,187                 | 63                                 | 90               | 243                | 245                | 214                | 408                  | 924                  | -                    | -                        | -                        |

- Represents zero.  
 (D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left. n.e.c. Not elsewhere classified.  
<sup>1</sup>Includes capital expenditures between \$200 thousand and \$500 thousand for plants under construction but not in operation.  
<sup>2</sup>Includes capital expenditures between \$1 million and \$2 million for plants under construction but not in operation.  
<sup>3</sup>Includes capital expenditures between \$2 million and \$5 million for plants under construction but not in operation.  
<sup>4</sup>Includes capital expenditures between \$50 million and \$100 million for plants under construction but not in operation.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                             | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B-C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |  | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3291      | Abrasive products.....1963..                         | 704,212            | 541,261          | (D)                | (D)                    | 170                                  | 572,246                            | 541,261               | 30,985                   | 95                            |
|           | 1958..   | 490,752            | 383,648          | 79,789             | 27,315                 | 83                                   | 399,802                            | 383,648               | 16,154                   | 96                            |
| 3292      | Asbestos products.....1963..                         | 509,236            | 458,514          | 24,370             | 26,352                 | 95                                   | 506,119                            | 458,514               | 47,605                   | 91                            |
|           | 1958..   | 453,488            | 385,425          | 46,058             | 22,005                 | 89                                   | 419,667                            | 385,425               | 34,242                   | 92                            |
| 3293      | Gaskets and insulations.....1963..                   | 279,226            | 205,635          | 48,015             | 25,576                 | 81                                   | 262,195                            | 205,635               | 56,560                   | 78                            |
|           | 1958..   | 188,684            | 147,950          | 22,822             | 17,912                 | 87                                   | 214,136                            | 147,950               | 66,186                   | 69                            |
| 3295      | Minerals, ground or treated <sup>2</sup> .....1963.. | 204,393            | 175,399          | 10,850             | 18,144                 | 94                                   | 203,061                            | 175,399               | 27,662                   | 86                            |
|           | 1958..   | 219,086            | 185,734          | 7,626              | 25,726                 | 96                                   | 218,053                            | 185,734               | 32,319                   | 85                            |
| 3296      | Mineral wool <sup>3</sup> .....1963..                | 391,873            | 342,420          | 36,564             | 12,889                 | 90                                   | 355,989                            | 342,420               | 13,569                   | 96                            |
|           | 1958..   | 240,922            | 225,322          | 11,963             | 3,637                  | 95                                   | 236,436                            | 225,322               | 11,114                   | 95                            |
| 3297      | Nonclay refractories.....1963..                      | 250,195            | 225,524          | 15,349             | 9,322                  | 94                                   | 256,832                            | 225,524               | 31,308                   | 88                            |
|           | 1958..   | 177,643            | 165,528          | 7,983              | 4,132                  | 95                                   | 185,241                            | 165,528               | 19,713                   | 89                            |
| 3299      | Nonmetallic products, n.e.c.....1963..               | 96,188             | 79,677           | 12,946             | 3,565                  | 86                                   | 83,008                             | 79,677                | 3,331                    | 96                            |
|           | 1958..   | 58,947             | 45,815           | 8,332              | 4,800                  | 85                                   | 53,717                             | 45,815                | 7,902                    | 85                            |

Note: See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>This is a minimum percentage. The exact percentage is withheld to avoid disclosing figures for individual companies.

<sup>2</sup>See footnotes 3 and 4, table 1.

<sup>3</sup>See footnote 4, table 1.





TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code | Class of products and miscellaneous receipts  | All industries | Minerals, ground or treated (SIC 3295) | Other industries | Prod. class code | Class of products and miscellaneous receipts   | All industries | Mineral wool (SIC 3296)         | Other industries |
|------------------|---|----------------|--|------------------|------------------|--|----------------|---------------------------------|------------------|
|                  | MINERALS, GROUND OR TREATED INDUSTRY  |                |  |                  |                  | MINERAL WOOL INDUSTRY--Continued   |                |                                 |                  |
|                  | Total shipments and receipts of the industry.....   | (X)            | 204,393                                | (X)              |                  | Listing of other industries with over \$2 million shipments of each primary product class: |                |                                 |                  |
| 32950            | Minerals and earths, ground or otherwise treated.....                                     | 203,061        | 175,399                                | 27,662           | 32962            | 2661 Building paper and board mills.....   | (X)            | (X)                             | (over 2)         |
|                  | Secondary products.....   | (X)            | 10,850                                 | (X)              |                  | 3255 Clay refractories.....  | (X)            | (X)                             | (over 2)         |
|                  | Miscellaneous receipts.....   | (X)            | 18,144                                 | (X)              |                  | 3293 Gaskets and insulations.....  | (X)            | (X)                             | (over 2)         |
|                  | Resales.....  | (X)            | 13,955                                 | (X)              |                  | 3299 Nonmetallic minerals,n.e.c..  | (X)            | (X)                             | (over 2)         |
|                  | Contract work.....  | (X)            | 3,415                                  | (X)              |                  |  | All industries | Nonclay refractories (SIC 3297) | Other industries |
|                  | Other miscellaneous receipts.....   | (X)            | 774                                    | (X)              |                  |  |                |                                 |                  |
|                  | Listing of other industries with over \$2 million shipments of the primary product class: |                |  |                  |                  | NONCLAY REFRACTORIES INDUSTRY  |                |                                 |                  |
| 32950            | 3255 Clay refractories.....   | (X)            | (X)                                    | 2,333            | 32970            | Total shipments and receipts of the industry.....  | (X)            | 250,195                         | (X)              |
|                  | 3273 Ready mixed concrete.....  | (X)            | (X)                                    | 4,104            |                  | Nonclay refractories, except dead-burned magnesia.....                                     | 256,832        | 225,524                         | 31,308           |
|                  | 3275 Gypsum products.....   | (X)            | (X)                                    | 5,717            |                  | Secondary products.....  | (X)            | 15,349                          | (X)              |
|                  | 3297 Nonclay refractories.....  | (X)            | (X)                                    | 2,603            |                  | Clay refractories.....   | (X)            | 7,873                           | (X)              |
|                  |   | All industries | Mineral wool (SIC 3296)                | Other industries | 32550            | Minerals and earths, ground or otherwise treated.....                                      | (X)            | 2,603                           | (X)              |
|                  |   |                |  |                  | 32950            | Miscellaneous receipts.....  | (X)            | 9,322                           | (X)              |
|                  | MINERAL WOOL INDUSTRY   |                |  |                  |                  | Resales.....   | (X)            | 7,744                           | (X)              |
|                  | Total shipments and receipts of the industry.....   | (X)            | 391,873                                | (X)              |                  | Other miscellaneous receipts.....  | (X)            | 1,578                           | (X)              |
|                  | Primary products.....   | 355,989        | 342,420                                | 13,569           | 32970            | Listing of other industries with over \$2 million shipments of the primary product class:  |                |                                 |                  |
| 32961            | Mineral wool for structural insulation.....   | 107,678        | 106,578                                | 1,100            |                  | 3255 Clay refractories.....  | (X)            | (X)                             | 8,553            |
| 32962            | Mineral wool for industrial insulation.....   | 240,798        | 228,329                                | 12,469           |                  | 3274 Lime.....   | (X)            | (X)                             | (5-10)           |
| 32960            | Mineral wool, n.s.k.....  | 7,513          | 7,513                                  | -                |                  | 3291 Abrasive products.....  | (X)            | (X)                             | (5-10)           |
|                  | Secondary products.....   | (X)            | 36,564                                 | (X)              |                  | 3624 Carbon and graphite products  | (X)            | (X)                             | (over 2)         |
| 22930            | Paddings, upholstery filling, batting and wadding, excluding foam rubber and vinyl.....   | (X)            | (over 2)                               | (X)              | 32990            | Other nonmetallic mineral products, n.e.c.....   | 83,008         | 79,677                          | 3,331            |
| 30795            | Industrial plastics products.....   | (X)            | (10-20)                                | (X)              |                  | Secondary products.....  | (X)            | 12,946                          | (X)              |
| 32293            | Glass fiber.....  | (X)            | 4,102                                  | (X)              | 28516            | Industrial product finishes, except lacquers.....  | (X)            | (over 2)                        | (X)              |
| 32294            | Other pressed and blown glassware   | (X)            | (over 2)                               | (X)              | 30793            | Laminated sheets, rods, and tubes  | (X)            | (over 2)                        | (X)              |
| 35690            | General industrial machinery, n.e.c.....  | (X)            | (5-10)                                 | (X)              | 32962            | Mineral wool for industrial and equipment insulation.....                                  | (X)            | (over 2)                        | (X)              |
|                  | Miscellaneous receipts.....   | (X)            | 12,889                                 | (X)              |                  | Miscellaneous receipts.....  | (X)            | 3,565                           | (X)              |
|                  | Resales.....  | (X)            | 12,551                                 | (X)              |                  | Resales.....   | (X)            | 3,189                           | (X)              |
|                  | Other miscellaneous receipts.....   | (X)            | 338                                    | (X)              |                  | Other miscellaneous receipts.....  | (X)            | 376                             | (X)              |
|                  |   |                |  |                  |                  | NONMETALLIC PRODUCTS, N.E.C., INDUSTRY   |                |                                 |                  |
|                  |   |                |  |                  |                  | Total shipments and receipts of the industry.....  | (X)            | 96,188                          | (X)              |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product  | Unit of measure | 1963                                   |  |                 | 1958                                   |  |                 |
|--------------|--|-----------------|--|--|-----------------|--|--|-----------------|
|              |  |                 | Production for all purposes (quantity) | Total shipments including interplant transfers |                 | Production for all purposes (quantity) | Total shipments including interplant transfers |                 |
|              |  |                 |  | Quantity                                       | Value (\$1,000) |  | Quantity                                       | Value (\$1,000) |
| 3291- --     | ABRASIVE PRODUCTS, TOTAL.....  |                 | (X)                                    | (X)  | 1572,246        | (X)                                    | (X)  | 1399,802        |
| 32911 --     | Nonmetallic artificial (synthetic) sized grains, powders, and flour abrasives, total.....  |                 | (X)                                    | (X)  | 174,322         | (X)                                    | (X)  | 138,822         |
|              | Sized grains, powders, and flour:  |                 |  |  |                 |  |  |                 |
| 32911 17     | Silicon carbide.....   | Short tons..    | 99,058                                 | 92,240   | 23,420          | (NA)                                   | 54,040   | 15,457          |
| 32911 19     | Aluminum oxide.....  | ..do.....       | 148,550                                | 132,469  | 37,599          | (NA)                                   | 71,723   | 22,837          |
| 32911 29     | Other artificial sized grains, powders, and flour (including combinations of silicon carbide and aluminum oxide, boron carbide, synthetic diamond, etc.).....  | ..do.....       | (X)                                    | (X)  | 112,948         | (X)                                    | 3,463  | 1528            |
| 32911 00     | Nonmetallic artificial sized grains, powders, and flour abrasives, n.s.k.....  |                 | (X)                                    | (X)  | 355             | (X)                                    | (X)  | (X)             |
| 32912 --     | Nonmetallic (including diamond) bonded abrasive products and abrasive compounds, total.....  |                 | (X)                                    | (X)  | 247,275         | (X)                                    | (X)  | 164,406         |
|              | Artificial and natural bonded abrasives, including grinding wheels, sticks, stones, hones, balls, tumbling media, brick (excluding refractory bricks, floor and stair brick, and similar by-products): |                 |  |  |                 |  |  |                 |
|              | Silicon carbide:   |                 |  |  |                 |  |  |                 |
| 32912 32     | Vitrified bond.....  |                 | (X)                                    | (X)  | 24,282          | (X)                                    | (X)  | (NA)            |
| 32912 34     | Resinoid and shellac bond.....   |                 | (X)                                    | (X)  | 19,837          | (X)                                    | (X)  | (NA)            |
| 32912 36     | Rubber bond.....   |                 | (X)                                    | (X)  | 3,050           | (X)                                    | (X)  | (NA)            |
|              | Aluminum oxide:  |                 |  |  |                 |  |  |                 |
| 32912 41     | Vitrified bond.....  |                 | (X)                                    | (X)  | 60,823          | (X)                                    | (X)  | (NA)            |
| 32912 42     | Resinoid and shellac bond.....   |                 | (X)                                    | (X)  | 54,041          | (X)                                    | (X)  | (NA)            |
| 32912 43     | Rubber bond.....   |                 | (X)                                    | (X)  | 9,727           | (X)                                    | (X)  | (NA)            |
| 32912 61     | Diamond wheels.....  | Carat.....      | (X)                                    | 7,423,109                                      | 41,171          | (X)                                    | (X)  | 23,792          |
| 32912 69     | Other bonded abrasives.....  |                 | (X)                                    | (X)  | 8,427           | (X)                                    | (X)  | (NA)            |
| 32912 45     | Nonmetallic natural sized grains, powders, and flour.....  |                 | (NA)                                   | (NA)   | 4,405           | (NA)                                   | (NA)   | (NA)            |
| 32912 72     | Crude lump forms.....  |                 | (NA)                                   | (NA)   |                 | (NA)                                   | (NA)   | (NA)            |
| 32912 79     | Other artificial and natural nonmetallic abrasives and abrasive products, except coated abrasives (including grinding, lapping, buffing compounds, etc.).....  |                 | (X)                                    | (X)  | 16,080          | (X)                                    | (X)  | (NA)            |
| 32912 00     | Nonmetallic bonded abrasive products and abrasive compounds, n.s.k.....  |                 | (X)                                    | (X)  | 5,432           | (X)                                    | (X)  | (X)             |
| 32913 --     | Nonmetallic coated abrasive products and buffing wheels, polishing wheels, and laps, total.....  |                 | (X)                                    | (X)  | 176,273         | (X)                                    | (X)  | 127,387         |
|              | Coated or impregnated with any natural or artificial abrasive material:  |                 |  |  |                 |  |  |                 |
|              | Cloth:   |                 |  |  |                 |  |  |                 |
| 32913 21     | Glue bond.....   | Reams.....      | (X)                                    | 435,002  | 34,986          | (X)                                    | 589,481  | 51,033          |
| 32913 23     | Resin and waterproof bond.....   | ..do.....       | (X)                                    | 380,604  | 50,968          |  |  |                 |
|              | Paper:   |                 |  |  |                 |  |  |                 |
| 32913 25     | Glue bond.....   | ..do.....       | (X)                                    | 1,232,832                                      | 29,347          | (X)                                    | 1,351,222                                      | 39,050          |
| 32913 27     | Resin and waterproof bond.....   | ..do.....       | (X)                                    | 540,527  | 19,335          |  |  |                 |
|              | Other (including paper-cloth combinations, vulcanized fiber-cloth combinations, vulcanized fibers, etc.):  |                 |  |  |                 |  |  |                 |
| 32913 35     | Glue bond.....   | ..do.....       | (X)                                    | 19,303   | 2,217           | (X)                                    | (X)  | 16,808          |
| 32913 37     | Resin and waterproof bond.....   | ..do.....       | (X)                                    | 129,069  | 16,033          |  |  |                 |
| 32913 71     | Buffing and polishing wheels and laps made of cloth, leather, felt, and other materials (containing no abrasive grains, powders, or flour).....  |                 | (X)                                    | (X)  | 21,380          | (X)                                    | (X)  | 20,496          |
| 32913 00     | Nonmetallic coated abrasive products and buffing wheels, polishing wheels and laps, n.s.k.....   |                 | (X)                                    | (X)  | 2,007           | (X)                                    | (X)  | (X)             |
| 32914 --     | Metal abrasives, including scouring pads, total.....   |                 | (X)                                    | (X)  | 63,242          | (X)                                    | (X)  | 54,697          |
| 32914 11     | Steel and iron grit, shot, and sand.....   | Short tons..    | (X)                                    | 126,562  | 17,208          | (X)                                    | 112,948  | 16,383          |
| 32914 31     | Steel wool.....  | ..do.....       | (X)                                    | 8,380  | 6,971           | (X)                                    | 7,361  | 5,997           |

See footnotes at end of table.





TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | 1963<br>total shipments including<br>interplant transfers |                    | 1958  |   |                    |
|--------------|---|-----------------|---|--------------------|---|---|--------------------|
|              |   |                 | Quantity  | Value<br>(\$1,000) | Production<br>for all<br>purposes<br>(quantity) | Total shipments including<br>interplant transfers |                    |
|              |   |                 |   |                    |   | Quantity  | Value<br>(\$1,000) |
| 3293- --     | STEAM AND OTHER PACKING AND PIPE AND BOILER<br>COVERING--Continued  |                 |   |                    |   |   |                    |
| 32932        | Gaskets, all types--Continued   |                 |   |                    |   |   |                    |
|              | Gaskets (for sealing nonmoving parts):--Continued   |                 |   |                    |   |   |                    |
| 32932 21     | Cork.....   |                 | (X)   | 16,391             | (X)   | (X)   | 11,631             |
| 32932 31     | Rubber (except asbestos-rubber).....  |                 | (X)   | 68,632             | (X)   | (X)   | 46,091             |
| 32932 43     | Paper and felt base.....  |                 | (X)   | 14,390             | (X)   | (X)   | 8,884              |
| 32932 51     | Metal.....  |                 | (X)   | 27,901             | (X)   | (X)   | 22,445             |
| 32932 98     | Other gaskets, including leather.....   |                 | (X)   | 25,376             | (X)   | (X)   | 11,814             |
| 32932 00     | Gaskets, all types, n.s.k.....  |                 | (X)   | 9,282              | (X)   | (X)   | 16,468             |
| 32933 --     | Packing (except leather, rubber, and metal) and<br>asbestos insulations, total.....   |                 | (X)   | 51,178             | (X)   | (X)   | 62,398             |
| 32933 11     | Asbestos compressed sheet:  |                 |   |                    |   |   |                    |
|              | Quantity reported.....  | 1,000 lbs....   | 11,282  | 3,125              | 7,941   | 7,962   | 2,908              |
|              | Quantity not reported.....  |                 | (X)   | (X)                | (X)   | (X)   | 459                |
| 32933 13     | Packing (for sealing moving parts):   |                 |   |                    |   |   |                    |
|              | Asbestos, asbestos-metallic and asbestos-rubber   | 1,000 lbs....   | 10,895  | 17,412             | 9,646   | 9,071   | 13,207             |
| 32933 19     | Other packing.....  |                 | (X)   | 5,593              | (NA)  | (NA)  | 7,749              |
|              | Insulation materials containing asbestos:   |                 |   |                    |   |   |                    |
|              | Pipe insulation:  |                 |   |                    |   |   |                    |
| 32933 31     | Cellular and laminated.....   | 1,000 lin.ft.   | (S)   | 2,678              | (X)   | (X)   | 5,303              |
| 32933 33     | 85 percent magnesia.....  | ...do.....      | 3,430   | 1,381              | (X)   | (X)   | 7,630              |
| 32933 37     | Diatomaceous silica, calcium silicate,<br>expanded silica, and asbestos fiber.....  | ...do.....      | 10,571  | 6,682              | (X)   | (X)   | 7,080              |
| 32933 39     | Other pipe insulation.....  | ...do.....      | (S)   | 2,186              |   |   |                    |
| 32933 45     | Block insulation (including sheet and lagging):   |                 |   |                    |   |   |                    |
|              | Diatomaceous silica, calcium silicate,<br>expanded silica and asbestos fiber.....   | 1,000 bd.ft..   | 11,937  | 2,954              | 21,264  | 21,207  | 5,209              |
| 32933 49     | Other block insulation including cellular and<br>laminated.....   | ...do.....      | 9,520   | 2,338              |   |   |                    |
| 32933 43     | 85 percent magnesia.....  | ...do.....      |   |                    |   | 15,160  | 15,175             |
| 32933 51     | All other asbestos insulation.....  |                 | (X)   | 3,876              | (X)   | (X)   | 4,917              |
| 32933 00     | Packing and asbestos insulation, n.s.k.....   |                 | (X)   | 2,953              | (X)   | (X)   | 3,499              |
| 32930 00     | Steam and other packing and pipe and boiler<br>coverings, n.s.k.....  |                 | (X)   | 11,288             | (X)   | (X)   | 8,467              |
|              |   |                 | Total shipments including interplant transfers            |                    |   |   |                    |
|              |   |                 | 1963  |                    | 1958  |   |                    |
|              |   |                 | Quantity  | Value<br>(\$1,000) | Quantity  | Value<br>(\$1,000)                                |                    |
| 3295- --     | MINERALS AND EARTHS, GROUND OR OTHERWISE<br>TREATED, TOTAL.....   |                 | (X)   | 203,061            | (X)   | 218,053   |                    |
| 32950 11     | Lightweight aggregate (such as diatomaceous earth,<br>expanded clay, expanded slag, cinders, perlite,<br>haydite, pumice, but excluding vermiculite): |                 |   |                    |   |   |                    |
|              | Quantity reported.....  | Short tons...   | 5,758,913   | 18,359             | (X)   | 21,899  |                    |
|              | Quantity not reported.....  |                 | (X)   | 3,682              |   |   |                    |
| 32950 13     | Exfoliated vermiculite: <sup>2</sup>  |                 |   |                    |   |   |                    |
|              | Aggregate.....  | 1,000 cu.ft..   | 19,325  | 5,200              | (NA)  | 10,624  |                    |
| 32950 15     | Other (such as loose fill insulation, acoustical)   | ...do.....      | 26,387  | 8,477              |   |   |                    |
| 32950 21     | Dead-burned magnesia or magnesite.....  |                 | (X)   | 327,913            | (X)   | 318,706   |                    |
| 32950 31     | Crushed slag:   |                 |   |                    |   |   |                    |
|              | Quantity reported.....  | Short tons...   | 15,912,379  | 27,987             | 16,226,882                                      | 27,973  |                    |
|              | Quantity not reported.....  |                 | (X)   | 4,319              |   |   |                    |
| 32950 61     | Crushed and ground uncalcined gypsum (including<br>gypsite and anhydrite).....  | Short tons...   | 915,080   | 6,515              | 1,871,621                                       | 9,138   |                    |
| 32950 81     | Natural graphite, ground, refined, or blended.....  | ...do.....      | 32,599  | 6,219              |   |   |                    |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure | Total shipments including interplant transfers |                  |          |                  |         |
|--------------|--|-----------------|--|------------------|----------|------------------|---------|
|              |  |                 | 1963   |                  | 1958     |                  |         |
|              |  |                 | Quantity                                       | Value (\$1,000)  | Quantity | Value (\$1,000)  |         |
| 3295--       | MINERALS AND EARTHS, GROUND OR OTHERWISE TREATED--Continued  |                 |  |                  |          |                  |         |
| 32950 84     | Ground crude fire clay, high alumina clay, silica fire clay.....   | Short tons..... | (X)  | 4,356            | }        | (NA)             | 104,457 |
| 32950 87     | Ground barite.....   | Short tons..... | 547,167  | 14,800           |          |                  |         |
| 32950 85     | Other beneficiated clays and shales.....   |                 |  |                  |          |                  |         |
| 32950 98     | Other minerals and earths, ground or otherwise treated (including feldspar, talc, soapstone, pulverized limestone mica, pyrophyllite and silica).....              |                 | (S)  | 59,704           |          |                  |         |
| 32950 83     | Roofing granules <sup>3</sup> .....  |                 |  |                  |          |                  |         |
| 32950 00     | Minerals and earths, ground or otherwise treated, n.s.k.....   |                 | (X)  | 15,530           | (X)      | 15,588           |         |
| 3296--       | MINERAL WOOL, TOTAL.....   |                 | (X)  | 355,989          | (X)      | 2236,436         |         |
| 32961--      | Mineral wool for structural insulation from rock, slag, or glass (for insulating homes, commercial and industrial buildings for human comfort), total.....         |                 | (X)  | 107,678          | (X)      | 271,839          |         |
| 32961 11     | Loose wool (shipped as such) and granulated wool.....  | Short tons..... | 241,309  | 19,061           | 289,541  | 14,854           |         |
|              | Building batts, blankets, and rolls:   |                 |  |                  |          |                  |         |
| 32961 23     | 4.5 inches and more.....   | 1,000 sq. ft..  | 127,698  | 6,108            | }        | 642,474          | 24,740  |
| 32961 27     | 3 to 4.4 inches thick.....   | ..do.....       | 1,028,429                                      | 41,708           |          |                  |         |
| 32961 33     | 2 to 2.9 inches thick.....   | ..do.....       | 581,824  | 21,824           |          |                  |         |
| 32961 37     | Less than 2 inches thick.....  | ..do.....       | 311,601  | 11,693           |          |                  |         |
| 32961 98     | Other mineral wool for structural insulation.....  |                 | (X)  | 5,831            | (X)      | ( <sup>4</sup> ) |         |
| 32961 00     | Mineral wool for structural insulation, n.s.k.....   |                 | (X)  | 1,453            | (X)      | 1,052            |         |
| 32962--      | Mineral wool for industrial and equipment insulation from rock, slag, or glass, total.....   |                 | (X)  | 240,798          | (X)      | 2141,966         |         |
|              | Blankets (flexible):   |                 |  |                  |          |                  |         |
|              | Industrial insulation:   |                 |  |                  |          |                  |         |
| 32962 33     | Plain.....   | 1,000 bd. ft..  | (S)  | 38,500           | 387,148  | 17,585           |         |
| 32962 35     | Faced, coated, and metal-meshed.....   | ..do.....       |  |                  | 194,937  | 14,007           |         |
| 32962 37     | Equipment insulation.....  | ..do.....       | (S)  | 55,448           | 433,520  | 21,261           |         |
| 32962 51     | Blocks and boards.....   | ..do.....       | 583,304  | 43,670           | 248,202  | 30,251           |         |
| 32962 61     | Pipe insulation.....   | 1,000 lin. ft.. | 94,176   | 29,728           | 76,805   | 22,960           |         |
| 32962 71     | Acoustical pads and boards.....  | 1,000 sq. ft..  | 355,719  | 53,476           | 145,892  | 30,631           |         |
| 32962 98     | Other mineral wool for industrial and equipment insulation such as loose wool (shipped as such) granulated wool, felts, insulating and finishing cements, etc..... |                 | (X)  | 7,689            | (X)      | 5,271            |         |
| 32962 00     | Mineral wool for industrial and equipment insulation, n.s.k.....   |                 | (X)  | 12,287           | (X)      | ( <sup>4</sup> ) |         |
| 32960 98     | Other mineral wool insulating products, n.e.c.....   |                 | (X)  | ( <sup>5</sup> ) | (X)      | 16,940           |         |
| 32960 00     | Mineral wool, n.s.k.....   |                 | (X)  | 7,513            | (X)      | 5,691            |         |
| 3297--       | NONCLAY REFRACTORIES, TOTAL AS REPORTED IN THE 1963 CENSUS OF MANUFACTURES.....  |                 | (X)  | 256,832          | (X)      | 185,241          |         |
| 3297--       | NONCLAY REFRACTORIES, TOTAL AS REPORTED ON CENSUS QUARTERLY FORM MB2C.....   |                 | (X)  | 251,809          | (X)      | 186,905          |         |
| 32970 12     | Silica brick and shapes.....   | 1,000 9"equiv.  | 119,290  | 22,499           | 202,685  | 42,190           |         |
| 32970 15     | Magnesite and magnesite-chrome (magnesite predominating) brick and shapes (excluding molten cast) <sup>6 7</sup> .....   | ..do.....       | 79,456   | 69,952           | 39,673   | 30,692           |         |
| 32970 21     | Chrome and chrome-magnesite (chrome predominating) brick and shapes (excluding molten cast) <sup>6 7</sup> .....   | ..do.....       | 35,292   | 27,906           | 42,582   | 30,296           |         |
| 32970 52     | Mullite brick and shapes made predominantly of kyanite, sillimanite, andalusite on synthetic mullite (excluding molten cast) <sup>6 7</sup> .....                  | ..do.....       | 5,929  | 7,058            | 4,047    | 4,764            |         |
| 32970 53     | Extra high alumina brick and shapes made predominantly of fused bauxite, fused or dense-sintered alumina (excluding molten cast) <sup>6 7 8</sup> .....            | ..do.....       | 3,173  | 5,661            | 2,001    | 4,099            |         |
| 32970 54     | Silicon carbide brick and shapes made substantially of silicon carbide.....  | ..do.....       | 2,954  | 9,552            | 3,802    | 8,285            |         |
| 32970 55     | Zircon and zirconia brick and shapes made predominantly of either of these materials.....  | ..do.....       | 953  | 3,867            | 547      | 2,010            |         |
| 32970 56     | Forsterite, pyrophyllite, molten cast, and other nonclay brick and shapes <sup>7</sup> .....   |                 | (NA)   | 30,314           | (X)      | 14,586           |         |
| 32970 63     | Nonclay refractory bonding mortars, air-setting (wet and dry types).....   | Short tons..... | 204,089  | 17,897           | 97,800   | 9,615            |         |
| 32970 65     | Nonclay refractory bonding, except air-setting types.....  | ..do.....       | 19,910   | 1,758            | 19,261   | 1,521            |         |
| 32970 91     | Nonclay refractory castables (hydraulic setting).....  | ..do.....       | 13,255   | 2,060            | 5,947    | 730              |         |
| 32970 71     | Nonclay plastic refractories and ramming mixes (wet and dry types).....  | ..do.....       | 182,695  | 21,979           | 188,137  | 20,578           |         |
| 32970 33     | Graphite crucibles, retorts, stopper heads, and other shaped refractories containing natural graphite.....   | ..do.....       | 13,024   | 10,077           | }        | 13,537           | 8,119   |
| 32970 35     | Carbon refractories; brick, blocks, and shapes, excluding those containing natural graphite.....   | ..do.....       |  |                  |          |                  |         |
| 32970 92     | Nonclay gunning mixes.....   | ..do.....       | 233,140  | 21,229           |          |                  |         |
| 32970 98     | Other nonclay refractory materials, sold in lump or ground form <sup>9</sup> .....   | ..do.....       |  |                  | 147,200  | 9,420            |         |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Value of shipments including interplant transfers (\$1,000) |        |
|--------------|---|---|--------|
|              |   | 1963  | 1958   |
| 3299- --     | NONMETALLIC MINERAL PRODUCTS, N.E.C.....  | 83,008  | 53,717 |
| 32990 53     | Built-up sheet mica products.....   | 14,061  | 22,459 |
| 32990 55     | Other sheet mica products.....  | 14,046  |        |
| 32990 61     | Sand-lime brick, block, and tile.....   | 4,864   | 9,496  |
| 32990 81     | Statuary and arts goods (factory production).....   | 13,879  | 10,987 |
| 32990 98     | Other nonmetallic mineral products, n.e.c., including stucco, sapphire boule, magnesite floor composition, etc..... | 30,252  | 6,927  |
| 32990 00     | Nonmetallic mineral products, n.e.c., n.s.k.....  | 5,906   | 3,848  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

(S) Does not meet publication standards.

<sup>1</sup>Not directly comparable. In 1958 synthetic diamonds were classified in industry 3913, Lapidary Work. The amount is withheld to avoid disclosing figures for individual companies.

<sup>2</sup>See footnote 4, table 1.

<sup>3</sup>See footnote 3, table 1.

<sup>4</sup>Included in figure for code 3296098 for 1958.

<sup>5</sup>Included in figures for codes 3296128 and 3296298 for 1963.

<sup>6</sup>Molten cast brick and shapes are included with "Forsterite, pyrophyllite, molten cast and other nonclay brick and shapes."

<sup>7</sup>Molten cast refractories are made by fusing refractory oxides as in an electric furnace and pouring the molten material into molds to form finished shapes.

<sup>8</sup>Fused as applied to bauxite and alumina means complete melting, as in an electric furnace; the product is crushed and graded for use in the refractory. Dense-sintered alumina refers to heat treatment (short of melting) to render it relatively volume-stable for use in a refractory.

<sup>9</sup>Represents shipments for direct use as finished refractory products by establishments classified in "manufacturing" industries, and excludes shipments to refractory producers for processing in the manufacture of brick and other refractories.

TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year                        | Indexes (1954 = 100) |                  | Product code | Product and year                       | Indexes (1954 = 100) |                  |
|--------------|---|----------------------|------------------|--------------|--|----------------------|------------------|
|              |   | Production           | Unit value       |              |  | Production           | Unit value       |
| 329--        | Nonmetallic mineral products.....1963.. | ( <sup>1</sup> )     | ( <sup>1</sup> ) | 3293-        | Gaskets and insulations.....1963..     | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | 1958..                                  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |              | 1958..                                 | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 3291-        | Abrasive products.....1963..            | ( <sup>1</sup> )     | ( <sup>1</sup> ) | 32933        | Packing, except leather, rubber,       |                      |                  |
|              | 1958..                                  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |              | and metal and asbestos insula-         |                      |                  |
| 32911        | Nonmetallic artificial (synthetic)      |                      |                  |              | tions.....1963..                       | 78                   | 111              |
|              | sized grains, powders, and flour        |                      |                  |              | 1958..                                 | 93                   | 108              |
|              | abrasives.....1963..                    | ( <sup>1</sup> )     | 111              | 3295-        | Minerals, ground or treated.....1963.. | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | 1958..                                  | ( <sup>1</sup> )     | 125              |              | 1958..                                 | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 32913        | Nonmetallic coated abrasive             |                      |                  | 3296-        | Mineral wool.....1963..                | 283                  | 76               |
|              | products and buffing wheels,            |                      |                  |              | 1958..                                 | 168                  | 86               |
|              | polishing wheels, and laps.....1963..   | 131                  | 120              | 32961        | Mineral wool for structural insula-    |                      |                  |
|              | 1958..                                  | 104                  | 109              |              | tion from rock, slag or glass (for     |                      |                  |
| 3292-        | Asbestos products.....1963..            | 136                  | 112              |              | insulating homes, commercial and       |                      |                  |
|              | 1958..                                  | 112                  | 112              |              | industrial buildings for human         |                      |                  |
| 32922        | Asbestos friction materials.....1963..  | 148                  | 107              |              | comfort).....1963..                    | 145                  | 110              |
|              | 1958..                                  | 113                  | 108              |              | 1958..                                 | 137                  | 90               |
| 32924        | Asbestos-cement shingles and            |                      |                  | 32962        | Mineral wool for industrial and        |                      |                  |
|              | clapboard.....1963..                    | 49                   | 129              |              | equipment insulation from rock,        |                      |                  |
|              | 1958..                                  | 70                   | 127              |              | slag or glass.....1963..               | 422                  | 60               |
| 32925        | Asphalt floor tile.....1963..           | 101                  | 118              |              | 1958..                                 | 189                  | 83               |
|              | 1958..                                  | 148                  | 104              | 3297-        | Nonclay refractories.....1963..        | 154                  | 130              |
| 32926        | Vinyl asbestos floor tile.....1963..    | 281                  | 111              |              | 1958..                                 | 120                  | 122              |
|              | 1958..                                  | 152                  | 104              | 3299-        | Nonmetallic minerals.....1963..        | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 32927        | Asbestos textiles and other asbestos    |                      |                  |              | 1958..                                 | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | and asbestos-cement products.....1963.. | 143                  | 102              |              | 1958..                                 | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | 1958..                                  | 105                  | 114              |              |  |                      |                  |

<sup>1</sup>Not shown because comparable quantity data were not obtained for a significant portion of these products.



TABLE 6C. Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963

| Code  | Product class   | 1963                 | 1962 <sup>1</sup>      | 1961 <sup>1</sup>      | 1960 <sup>1</sup>      | 1959 <sup>1</sup>      | 1958                 | 1954                 | 1947                 |
|-------|---|----------------------|------------------------|------------------------|------------------------|------------------------|----------------------|----------------------|----------------------|
| 3291- | Abrasive products.....\$1,000..   | 572,246              | 555,624                | 492,881                | 511,609                | 510,419                | 399,802              | 355,849              | 244,713              |
| 32911 | Nonmetallic artificial sized grains, powders, and flour abrasives.....do....  | <sup>2</sup> 74,322  | 61,821                 | 52,590                 | 50,736                 | 53,387                 | 38,822               | 32,652               | 19,357               |
| 32912 | Nonmetallic bonded abrasive products, inc. diamond abrasives.....do....       | 247,275              | 244,598                | 210,757                | 220,260                | 228,234                | 164,406              | 158,067              | 108,359              |
| 32913 | Nonmetallic coated abrasive products.....do....                               | 176,273              | 179,054                | 160,287                | 158,795                | 151,649                | 127,387              | 111,893              | 88,719               |
| 32914 | Metal abrasives.....do....  | 63,242               | 54,410                 | 53,904                 | 61,580                 | 58,660                 | 54,697               | 45,923               | 28,278               |
| 32910 | Abrasive product, n.s.k.....do....  | 11,134               | (S)                    | (S)                    | (S)                    | (S)                    | 14,490               | 7,314                | (X)                  |
| 3292- | Asbestos products.....do....  | 506,119              | 475,487                | 463,644                | 473,666                | 488,020                | 419,667              | 323,093              | 198,603              |
| 32922 | Asbestos friction material.....do....   | 117,653              | 112,118                | 101,906                | 104,340                | 111,713                | 89,844               | 73,852               | 58,606               |
| 32924 | Asbestos—cement shingles and clapboard:<br>Quantity.....1,000 squares..       | 3,064                | 3,059                  | 3,150                  | 3,756                  | 4,302                  | 4,372                | 6,116                | 5,770                |
|       | Value.....\$1,000..   | 34,703               | 36,509                 | 38,433                 | 45,453                 | 49,909                 | 49,152               | 53,263               | 37,528               |
| 32925 | Asphalt floor tiles:<br>Quantity.....1,000 sq. yds..                          | 74,331               | 91,658                 | 97,780                 | 99,096                 | 112,165                | 109,494              | 109,679              | 45,924               |
|       | Value.....\$1,000..   | 59,245               | 65,007                 | 70,299                 | 71,705                 | 78,606                 | 77,348               | 90,672               | 41,972               |
| 32926 | Vinyl asbestos floor tile:<br>Quantity.....1,000 sq. yds..                    | 106,653              | 93,732                 | 82,806                 | 82,184                 | 76,449                 | 57,662               | (NA)                 | (NA)                 |
|       | Value.....\$1,000..   | 131,145              | 110,651                | 102,582                | 99,784                 | 91,600                 | 66,591               | (NA)                 | (NA)                 |
| 32927 | Asbestos textiles and other asbestos and asbestos cement products.....do....  | 162,231              | 143,350                | 145,302                | 146,645                | 150,989                | 131,782              | 104,205              | 60,497               |
| 32920 | Asbestos products, n.s.k.....do....   | 1,142                | (S)                    | (S)                    | (S)                    | (S)                    | 4,950                | 1,101                | (X)                  |
| 3293- | Gaskets and insulations.....do....  | 262,195              | 253,303                | 247,347                | 245,110                | 246,045                | 214,136              | 184,112              | 128,440              |
| 32932 | Gaskets, all types.....do....   | 199,729              | 191,285                | 186,723                | 177,570                | 180,632                | 143,271              | 112,781              | 78,330               |
| 32933 | Packing, except leather, rubber and metal, and asbestos insulation.....do.... | 51,178               | 51,352                 | 50,920                 | 57,453                 | 55,486                 | 62,398               | 63,395               | 50,110               |
| 32930 | Gaskets and insulations, n.s.k.....do....                                     | 11,288               | (S)                    | (S)                    | (S)                    | (S)                    | 8,467                | 7,936                | -                    |
| 32950 | Minerals and earths, ground, or otherwise treated.....do....                  | <sup>3</sup> 203,061 | <sup>4</sup> (217,395) | <sup>4</sup> (233,304) | <sup>4</sup> (237,548) | <sup>4</sup> (251,591) | <sup>4</sup> 218,053 | <sup>4</sup> 181,966 | <sup>4</sup> 111,281 |
| 3296- | Mineral wool.....do....   | 355,989              | <sup>4</sup> (370,450) | <sup>4</sup> (339,949) | <sup>4</sup> (301,078) | <sup>4</sup> (296,714) | <sup>4</sup> 236,436 | <sup>4</sup> 160,383 | <sup>4</sup> 79,094  |
| 32961 | Mineral wool for structural insulation.....do....                             | 107,678              | <sup>4</sup> (121,146) | <sup>4</sup> (105,264) | <sup>4</sup> (91,698)  | <sup>4</sup> (98,059)  | <sup>4</sup> 71,839  | <sup>4</sup> 59,437  | <sup>4</sup> 44,264  |
| 32962 | Mineral wool for industrial and equipment insulation.....do....               | 240,798              | <sup>4</sup> (236,718) | <sup>4</sup> (224,435) | <sup>4</sup> (202,459) | <sup>4</sup> (195,132) | <sup>4</sup> 141,966 | <sup>4</sup> 93,760  | <sup>4</sup> 31,811  |
| 32960 | Mineral wool, n.s.k.....do....  | 7,513                | (S)                    | (S)                    | (S)                    | (S)                    | 22,631               | 7,186                | 3,019                |
| 32970 | Nonclay refractories, except dead-burned magnesia.....do....                  | 256,832              | <sup>5</sup> 221,408   | <sup>5</sup> 226,118   | <sup>5</sup> 226,283   | <sup>5</sup> 219,140   | 185,241              | 127,621              | 84,181               |
| 32990 | Other nonmetallic mineral products, n.e.c.....do....                          | 83,008               | (65,827)               | (66,154)               | (75,273)               | (78,973)               | (53,717)             | 48,056               | 32,254               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. (S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>See footnote 2, table 1.  
<sup>2</sup>See footnote 1, table 6A.  
<sup>3</sup>See footnote 3, table 1.  
<sup>4</sup>Figures for 1959-1962 do not reflect the reclassification of exfoliated vermiculate from industry 3296, Mineral Wool to industry 3295, Minerals, Ground or Treated. Figures for 1947, 1954, and 1958 have been revised.  
<sup>5</sup>Source: Current Industrial Reports, Series M32C(64)-5, Refractories.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area   | Value of shipments |                  | Product class and geographic area   | Value of shipments |                  | Product class and geographic area   | Value of shipments |                  |
|---|--------------------|------------------|---|--------------------|------------------|---|--------------------|------------------|
|   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |
| NONMETALLIC ARTIFICIAL SIZED GRAINS, POWDERS, AND FLOUR ABRASIVES (32911) | 1963 <sup>1</sup>  |                  | ASBESTOS FRICTION MATERIALS (32922)                                       | 1963 <sup>1</sup>  | 1958             | PACKING, EXCEPT LEATHER; RUBBER AND METAL, AND ASBESTOS INSULATIONS (32933) | 1963 <sup>1</sup>  | 1958             |
| United States, total...   | 74,322             |                  | United States, total...   | 117,653            | 89,844           | United States, total...   | 51,178             | 62,398           |
| Northeast.....  | 57,307             |                  | Northeast.....  | 71,630             | 53,895           | Northeast.....  | 2,520              | 3,892            |
| New York.....   | 38,577             |                  | New Jersey.....   | 18,043             | 16,262           | Middle Atlantic.....  | 28,780             | 34,093           |
| North Central, South, and West.....                                       | 17,015             |                  | East North Central.....   | 31,046             | 25,467           | New York.....   | 7,273              | 4,694            |
|   |                    |                  | Indiana.....  | 11,007             | 10,850           | New Jersey.....   | 11,300             | 13,917           |
| NONMETALLIC BONDED ABRASIVE PRODUCTS, INCLUDING DIAMOND ABRASIVES (32912) | 1963 <sup>1</sup>  | 1958             | South.....  | 12,849             | ( <sup>2</sup> ) | Pennsylvania.....   | 10,207             | 15,482           |
| United States, total...   | 247,275            | 164,406          | Pacific.....  | 2,128              | 2,596            | North Central.....  | 11,156             | ( <sup>2</sup> ) |
| Northeast.....  | 92,652             | 72,335           | California.....   | 2,128              | 2,596            | Illinois.....   | 8,843              | 13,019           |
| Massachusetts.....  | 81,303             | 65,263           | ASBESTOS TEXTILES AND OTHER ASBESTOS AND ASBESTOS CEMENT PRODUCTS (32927) |                    |                  | South.....  | 4,920              | ( <sup>2</sup> ) |
| Middle Atlantic.....  | 69,687             | 44,430           | United States, total...   | 162,231            | 131,782          | West.....   | 3,802              | ( <sup>2</sup> ) |
| New York.....   | 37,087             | 24,148           | Northeast.....  | 48,614             | 46,842           | MINERAL WOOL FOR STRUCTURAL INSULATION <sup>3</sup> (32961)                 |                    |                  |
| New Jersey.....   | 9,322              | 5,695            | East North Central.....   | 25,118             | ( <sup>2</sup> ) | United States, total...   | 107,678            | 71,839           |
| Pennsylvania.....   | 23,278             | 14,587           | West North Central.....   | 7,773              | 7,566            | Northeast.....  | 24,757             | (D)              |
| East North Central.....   | 70,847             | 39,278           | South and West.....   | 80,726             | ( <sup>2</sup> ) | New Jersey.....   | 24,019             | (Z)              |
| Ohio.....   | 23,321             | 10,935           | GASKETS, ALL TYPES (32932)  |                    |                  | East North Central.....   | 30,265             | (D)              |
| Illinois.....   | 22,394             | 9,274            | United States, total...   | 199,729            | 143,271          | Ohio.....   | 22,212             | ( <sup>2</sup> ) |
| Michigan.....   | 23,015             | 15,754           | Northeast.....  | 13,881             | 12,041           | West North Central.....   | 15,615             | (D)              |
| West North Central.....   | 1,857              | ( <sup>2</sup> ) | Massachusetts.....  | 8,213              | 7,541            | South.....  | 18,608             | (D)              |
| South.....  | 2,826              | ( <sup>2</sup> ) | Middle Atlantic.....  | 36,479             | 28,981           | Alabama.....  | 4,821              | (D)              |
| West.....   | 9,406              | ( <sup>2</sup> ) | New York.....   | 10,436             | 8,802            | Texas.....  | 6,290              | ( <sup>2</sup> ) |
| NONMETALLIC COATED ABRASIVE PRODUCTS (32913)                              |                    |                  | New Jersey.....   | 16,021             | 10,850           | West.....   | 18,433             | 9,203            |
| United States, total...   | 176,273            | 127,387          | Pennsylvania.....   | 10,022             | 9,329            | MINERAL WOOL FOR INDUSTRIAL AND EQUIPMENT INSULATION <sup>3</sup> (32962)   |                    |                  |
| Northeast.....  | 10,802             | 12,924           | East North Central.....   | 104,763            | 80,643           | United States, total...   | 240,798            | 141,966          |
| Middle Atlantic.....  | 69,451             | 53,805           | Ohio.....   | 14,745             | 11,602           | Northeast.....  | 39,712             | ( <sup>2</sup> ) |
| All other divisions.....  | 96,020             | ( <sup>2</sup> ) | Indiana.....  | 14,120             | 8,077            | New Jersey.....   | 20,753             | 6,019            |
| Ohio.....   | 6,130              | 5,370            | Illinois.....   | 55,583             | 41,755           | Pennsylvania.....   | 17,461             | 15,360           |
| Michigan.....   | 8,162              | 5,155            | Michigan.....   | 17,348             | 17,553           | East North Central.....   | 101,460            | 74,394           |
| METAL ABRASIVES (32914)   |                    |                  | Wisconsin.....  | 2,967              | 1,656            | Indiana.....  | 23,886             | (D)              |
| United States, total...   | 63,242             | 54,697           | West North Central.....   | 4,443              | 1,610            | Illinois.....   | 3,883              | ( <sup>2</sup> ) |
| Northeast.....  | 22,288             | ( <sup>2</sup> ) | Minnesota.....  | 1,745              | ( <sup>2</sup> ) | West North Central.....   | 48,579             | (D)              |
| New York.....   | 16,805             | ( <sup>2</sup> ) | Missouri.....   | 1,284              | ( <sup>2</sup> ) | South.....  | 19,927             | ( <sup>2</sup> ) |
| Pennsylvania.....   | 4,418              | ( <sup>2</sup> ) | South.....  | 24,813             | ( <sup>2</sup> ) | West.....   | 31,120             | (D)              |
| East North Central.....   | 40,954             | 34,435           | Texas.....  | 6,379              | ( <sup>2</sup> ) |   |                    |                  |
| Ohio.....   | 9,418              | 9,554            | West.....   | 15,350             | ( <sup>2</sup> ) |   |                    |                  |
| Michigan.....   | 3,570              | ( <sup>2</sup> ) | California.....   | 14,739             | ( <sup>2</sup> ) |   |                    |                  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Shipments of less than \$1 million reported.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 32911, Massachusetts, Pennsylvania, Indiana, Michigan, and Washington; 32912, New Hampshire, Rhode Island, Connecticut, Indiana, Missouri, Alabama, Washington, and California; 32913, Massachusetts, Connecticut, New York, Pennsylvania, Illinois, Wisconsin, Minnesota, North Carolina, Mississippi, and California; 32914, Indiana, and Illinois; 32922, Massachusetts, Connecticut, New York, Pennsylvania, Ohio, Illinois, Virginia, South Carolina, and Texas; 32927, New Hampshire, Massachusetts, New York, New Jersey, Pennsylvania, Ohio, Indiana, Illinois, Missouri, North Carolina, South Carolina, Georgia, Louisiana, Texas, and California; 32932, Connecticut, Virginia, North Carolina, Tennessee, and Alabama; 32933, Massachusetts, Connecticut, Ohio, South Carolina, and California; 32961, Indiana, Minnesota, Kansas, West Virginia, Tennessee, Colorado, Washington, and California; 32962, Ohio, Michigan, Wisconsin, Missouri, Kansas, West Virginia, Georgia, Florida, and California.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>See footnote 4, table 1.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code                                   | Material  | Unit of measure                  | 1963     |                          | 1958     |                          |
|--|---|----------------------------------|----------|--------------------------|----------|--------------------------|
|  |   |                                  | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3292.—ASBESTOS PRODUCTS       |   |                                  |          |                          |          |                          |
|  | Materials and components, parts, containers, and supplies, total                  | .....                            | (X)      | 212,128                  | (X)      | 192,802                  |
| 149901                                 | Asbestos, crude (including fiber).....  | Short tons.....                  | 453,199  | 48,294                   | 533,621  | 67,103                   |
| 265011                                 | Paper and paperboard containers, including folding, corrugated and set up.....    | .....                            | (X)      | 4,769                    | (X)      | 5,929                    |
| 324101                                 | Portland cement.....  | 1,000 bbls. (376 lb. bbls.)..... | 2,370    | 8,795                    | } (X)    | 116,139                  |
| 209010                                 | Vegetable oils, including crude and processed.....                                | 1,000 lbs.....                   | 34,233   | 6,032                    |          |                          |
| 282137                                 | Vinyl and vinyl copolymer resins, all forms.....                                  | .....do.....                     | 201,598  | 30,956                   |          |                          |
| 281012                                 | Pigment, organic, and inorganic.....  | .....do.....                     | 59,391   | 14,916                   |          |                          |
| 970099                                 | All other materials and components, parts, containers, and supplies consumed..... | .....                            | (X)      | 93,959                   |          |                          |
| 973000                                 | Materials, components, parts, containers, and supplies, n.s.k.....                | .....                            | (X)      | 4,407                    | (X)      | 3,631                    |
| INDUSTRY 3293.—GASKETS AND INSULATIONS |   |                                  |          |                          |          |                          |
|  | Materials and components, parts, containers, and supplies, total.                 | .....                            | (X)      | 97,292                   | (X)      | 67,482                   |
| 149901                                 | Asbestos, crude (including fiber).....  | Short tons.....                  | 31,376   | 4,964                    | 22,753   | 3,543                    |
| 265011                                 | Paper and paperboard containers, including folding, corrugated and set up.....    | .....                            | -        | 4,668                    | -        | 3,286                    |
| 266122                                 | Paper felts.....  | 1,000 lbs.....                   | (S)      | 1,007                    | } (X)    | 60,653                   |
| 970099                                 | All other material and components, parts, containers, and supplies consumed.....  | .....                            | -        | 72,801                   |          |                          |
| 973000                                 | Materials, and components, parts, containers, and supplies, n.s.k. <sup>1</sup> . | .....                            | (X)      | 13,852                   | (X)      | (X)                      |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

<sup>1</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on standard forms.

TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Abrasive products<br>(SIC 3291) | Asbestos products<br>(SIC 3292) | Gaskets and insulations<br>(SIC 3293) | Minerals, ground or treated<br>(SIC 3295) | Mineral wool<br>(SIC 3296) | Nonclay refractories<br>(SIC 3297) | Nonmetallic products, n.e.c.<br>(SIC 3299) |
|---|---------------------------------|---------------------------------|---------------------------------------|---|----------------------------|------------------------------------|--|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 9,590                           | 8,765                           | 4,001                                 | 15,902                                    | 16,660                     | 6,800                              | 1,194                                      |
| Total cost of purchased fuels.....do....  | 4,366                           | 3,799                           | 2,231                                 | 10,051                                    | 11,708                     | 4,443                              | 736  |
| Bituminous coal, lignite, and anthracite:   |                                 |                                 |                                       |   |                            |                                    |  |
| Quantity.....1,000 short tons..   | 108                             | (S)                             | 32                                    | (S)                                       | (S)                        | (S)                                | (S)  |
| Cost.....\$1,000..  | 1,108                           | (S)                             | 288                                   | (S)                                       | (S)                        | (S)                                | (S)  |
| Coke and breeze:  |                                 |                                 |                                       |   |                            |                                    |  |
| Quantity.....1,000 short tons..   | -                               | (S)                             | -                                     | -   | (S)                        | -                                  | -  |
| Cost.....\$1,000..  | -                               | (S)                             | -                                     | -   | (S)                        | -                                  | -  |
| Fuel oil (distillate and residual):   |                                 |                                 |                                       |   |                            |                                    |  |
| Quantity.....1,000 barrels of 42 gallons..  | 288                             | (S)                             | 407                                   | 1,070                                     | 288                        | 297                                | (S)  |
| Cost.....\$1,000..  | 1,131                           | (S)                             | 1,245                                 | 3,805                                     | 946                        | 1,081                              | (S)  |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |                                 |                                 |                                       |   |                            |                                    |  |
| Quantity.....million cu.ft..  | 4,476                           | 2,960                           | 652                                   | 8,880                                     | 19,593                     | 6,076                              | 234  |
| Cost.....\$1,000..  | 1,792                           | 1,427                           | 441                                   | 3,577                                     | 7,604                      | 3,070                              | 122  |
| Other fuels.....do....  | 335                             | 271                             | 257                                   | 1,592                                     | 210                        | (S)                                | 241  |
| Electric energy:  |                                 |                                 |                                       |   |                            |                                    |  |
| Purchased:  |                                 |                                 |                                       |   |                            |                                    |  |
| Quantity.....million kw.-hrs..  | 684                             | 438                             | 111                                   | 375                                       | 516                        | 207                                | 27   |
| Cost.....\$1,000..  | 5,224                           | 4,966                           | 1,770                                 | 5,851                                     | 4,952                      | 2,357                              | 458  |
| Generated less sold.....million kw.-hrs..   | 34                              | 30                              | 17                                    | -   | (S)                        | -                                  | -  |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 160                             | 263                             | 93                                    | 534                                       | 121                        | 133                                | -  |
| Prime movers, total.....do....  | 17                              | 30                              | 23                                    | 252                                       | 11                         | 23                                 | -  |
| Driving generators.....do....   | 13                              | 13                              | 21                                    | 26  | 2                          | (Z)                                | -  |
| Not driving generators.....do....   | 4                               | 17                              | 2                                     | 225                                       | 9                          | 23                                 | -  |
| Electric motors, total.....do....   | 158                             | 245                             | 77                                    | 282                                       | 110                        | 110                                | -  |
| Driven by purchased energy.....do....   | 143                             | 232                             | 70                                    | 282                                       | 110                        | 110                                | -  |
| Driven by energy generated at establishment.....do....  | 15                              | 12                              | 7                                     | -   | (Z)                        | -                                  | -  |
| Aggregate horsepower per 100 production workers.....  | 885                             | 1,485                           | 847                                   | 8,171                                     | 1,019                      | 2,309                              | -  |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.



**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3291-                          | ABRASIVE PRODUCTS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 378                     | 28,170         | 186,971           | 18,583             | 36,695            | 107,628         | 416,415  | 287,458                     | 704,212                      | 15,506                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 353                     | 15,506         | 96,627            | 11,203             | 22,160            | 60,706          | 190,889  | 155,299                     | 347,229                      | 8,081                               |
|                                | 75-89% specialization.....   | 8                       | 4,448          | 32,171            | 2,865              | 5,441             | 18,408          | 82,049   | 53,794                      | 136,156                      | 2,441                               |
| 32911                          | Nonmetallic artificial sized grains, powders and flour abrasives (primary product class of estab.).....    | 15                      | 1,318          | 9,248             | 972                | 1,976             | 6,311           | 27,616   | 29,736                      | 57,634                       | 800                                 |
| 32912                          | Nonmetallic bonded abrasive products, inc. diamond abrasives (primary product class of estab.)             | 185                     | 13,449         | 89,794            | 9,190              | 17,957            | 54,233          | 170,349  | 115,018                     | 285,708                      | 8,023                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 160                     | 8,346          | 55,295            | 5,968              | 11,762            | 35,256          | 97,864   | 64,484                      | 163,316                      | 4,597                               |
|                                | 75-89% specialization.....   | 8                       | 297            | 1,868             | 176                | 352               | 889             | 3,656  | 5,475                       | 9,045                        | (D)                                 |
| 32913                          | Nonmetallic coated abrasive products (primary product class of estab.).....                                | 52                      | 10,696         | 71,803            | 6,289              | 12,422            | 35,946          | 169,671  | 110,595                     | 280,476                      | 5,068                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 38                      | 2,938          | 16,867            | 2,035              | 3,981             | 9,615           | 34,999   | 36,021                      | 71,299                       | 967                                 |
| 32914                          | Metal abrasives (primary product class of estab.).....   | 35                      | 2,157          | 13,297            | 1,741              | 3,562             | 9,357           | 42,753   | 26,747                      | 69,032                       | 987                                 |
| 3292-                          | ASBESTOS PRODUCTS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 124                     | 19,516         | 118,024           | 15,738             | 32,884            | 89,766          | 269,067  | 240,725                     | 509,236                      | 12,381                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 113                     | 14,620         | 87,628            | 11,913             | 25,010            | 67,479          | 212,549  | 205,067                     | 416,640                      | 10,848                              |
| 32922                          | Asbestos friction materials (primary product class of estab.)  | 28                      | 7,210          | 42,651            | 5,638              | 11,555            | 31,354          | 83,729   | 52,067                      | 137,272                      | 2,061                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 22                      | 3,517          | 19,424            | 2,790              | 5,657             | 14,394          | 38,838   | 23,807                      | 63,338                       | 1,001                               |
| 32924                          | Asbestos—cement shingles and clapboard (primary product class of estab.).....                              | 14                      | 1,276          | 7,466             | 1,037              | 2,087             | 5,742           | 17,051   | 15,392                      | 32,578                       | 1,175                               |
| 32926                          | Vinyl asbestos floor tile (primary product class of estab.).....   | 20                      | 4,812          | 31,194            | 3,903              | 8,545             | 23,755          | 79,312   | 111,598                     | 187,603                      | 4,908                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 75% and over.....  | 6                       | 1,490          | 9,953             | 1,223              | 2,725             | 7,784           | 33,291   | 32,041                      | 64,443                       | 1,545                               |
| 32927                          | Asbestos textiles and other asbestos and asbestos cement products (primary product class of estab.)        | 48                      | 6,155          | 36,428            | 5,104              | 10,587            | 28,668          | 88,425   | 61,122                      | 150,691                      | 4,115                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 39                      | 4,531          | 27,015            | 3,782              | 7,900             | 21,684          | 73,094   | 51,575                      | 125,751                      | 3,379                               |
| 3293-                          | GASKETS AND INSULATIONS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 295                     | 16,825         | 94,441            | 12,684             | 25,906            | 62,301          | 160,734  | 116,978                     | 279,226                      | 8,865                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 250                     | 7,564          | 41,896            | 5,665              | 11,616            | 26,446          | 76,596   | 60,836                      | 137,480                      | 3,081                               |
|                                | 75-89% specialization.....   | 17                      | 3,618          | 20,086            | 2,657              | 5,310             | 13,269          | 31,252   | 24,411                      | 56,323                       | 2,323                               |
| 32932                          | Gaskets, all types (primary product class of estab.).....  | 182                     | 13,875         | 76,056            | 10,565             | 21,469            | 50,726          | 125,671  | 89,594                      | 216,346                      | 7,312                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 139                     | 5,745          | 31,028            | 4,326              | 8,807             | 19,997          | 57,040   | 44,821                      | 101,547                      | 2,496                               |
|                                | 75-89% specialization.....   | 13                      | 3,341          | 18,097            | 2,494              | 4,978             | 12,184          | 28,236   | 22,080                      | 50,872                       | 2,077                               |
| 32933                          | Packing, except leather, rubber and metal, and asbestos insulations (primary product class of estab.)..... | 43                      | 2,301          | 14,299            | 1,677              | 3,506             | 9,355           | 27,385   | 21,466                      | 49,091                       | 894                                 |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 24                      | 516            | 3,330             | 381                | 798               | 2,059           | 5,978  | 5,513                       | 11,658                       | (D)                                 |
|                                | 75-89% specialization.....   | 4                       | 447            | 2,652             | 325                | 666               | 1,759           | 4,481  | 4,139                       | 8,710                        | (D)                                 |

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization                                      | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3296-                          | MINERAL WOOL  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 123                     | 14,733         | 92,347            | 11,647             | 24,781            | 69,089          | 206,846  | 186,772                     | 391,873                      | 37,956                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 109                     | 12,447         | 76,208            | 9,791              | 20,887            | 58,612          | 177,752  | 157,271                     | 332,546                      | 33,205                              |
|                                | 75-89% specialization.....  | 4                       | 142            | 959               | 104                | 242               | 591             | 2,233  | 2,516                       | 4,818                        | 239                                 |
| 32961                          | Mineral wool for structural insulation (primary product class of estab.).....               | 37                      | 3,973          | 23,989            | 3,049              | 6,434             | 17,076          | 53,964   | 50,767                      | 104,918                      | 17,839                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 24                      | 1,317          | 6,870             | 985                | 1,985             | 4,504           | 15,404   | 14,002                      | 29,229                       | 14,816                              |
|                                | 75-89% specialization.....  | 6                       | 668            | 4,098             | 481                | 1,048             | 2,716           | 8,493  | 8,499                       | 17,153                       | 1,186                               |
| 32962                          | Mineral wool for industrial and equipment insulation (primary product class of estab.)..... | 44                      | 10,484         | 66,897            | 8,393              | 17,939            | 51,056          | 149,674  | 131,227                     | 278,866                      | 16,872                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 30                      | 3,120          | 17,108            | 2,503              | 5,479             | 13,031          | 50,571   | 26,744                      | 76,821                       | 3,083                               |
|                                | 75-89% specialization.....  | 7                       | 3,765          | 24,607            | 3,036              | 6,509             | 19,930          | 49,573   | 50,693                      | 99,024                       | 6,793                               |
| 3299-                          | NONMETALLIC MINERALS, N.E.C.  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 320                     | 5,471          | 27,094            | 4,361              | 8,266             | 18,231          | 53,289   | 43,408                      | 96,188                       | 2,187                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 301                     | 4,359          | 19,900            | 3,575              | 6,671             | 14,199          | 37,602   | 30,136                      | 67,175                       | 1,322                               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified



## Primary Metal Industries

- 33A Blast furnaces, steel works, and rolling and finishing mills
- 33B Iron and steel foundries
- 33C Smelting and refining of nonferrous metals alloys
- 33D Nonferrous metal mill and foundry products
- 33E Forgings and misc. primary metal industries

This major group includes establishments engaged in the smelting and refining of ferrous and nonferrous metals from ore, pig, or scrap; in the rolling, drawing, and alloying of ferrous and nonferrous metals; in the manufacture of castings, forgings, and other basic products of ferrous and nonferrous metals; and in the manufacture of nails, spikes, and insulated wire and cable. This major group also includes the production of coke.

# PRIMARY METAL INDUSTRIES: MAJOR GROUP 33

Value Added by Manufacture by State: 1963

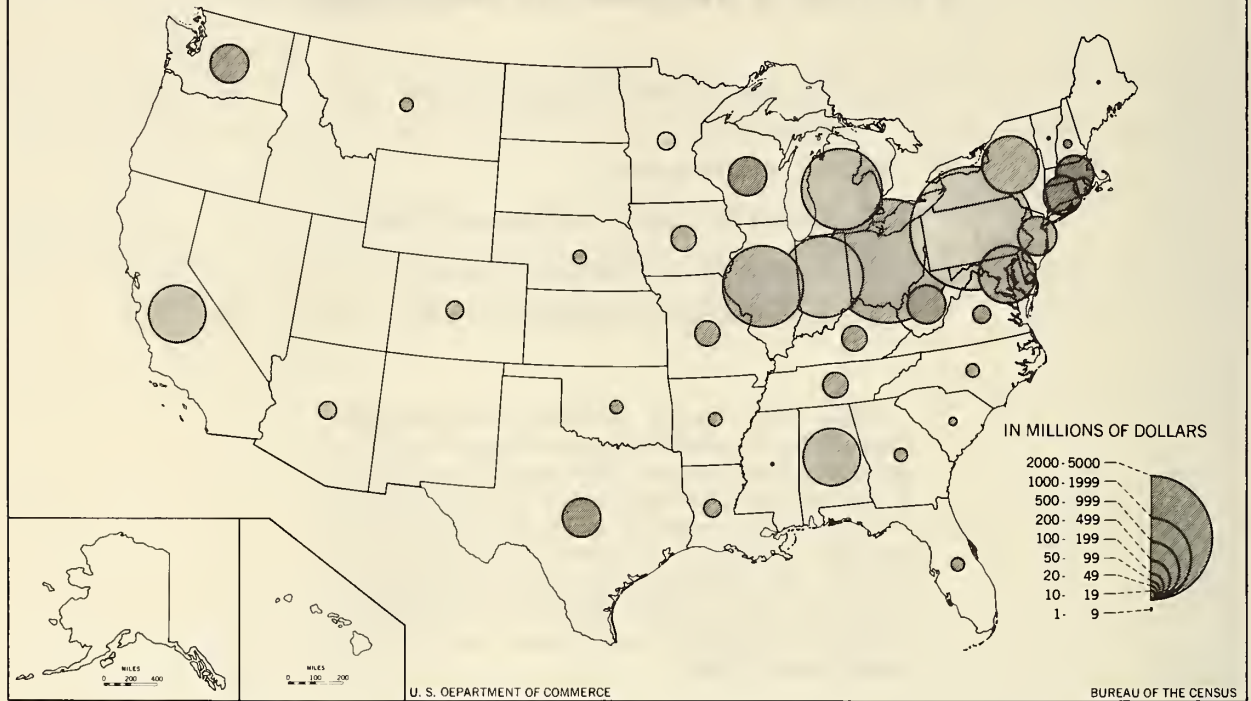




TABLE 1. General Statistics: 1963 and Earlier Years

| Year and item  | Establishments |                                    | All employees <sup>1</sup> |                   | Production workers |                   |                 | Value added by manufacture, adjusted <sup>2</sup> | Cost of materials <sup>3</sup> | Value of shipments <sup>3</sup> | Capital expenditures, new <sup>4</sup> |
|--|----------------|------------------------------------|----------------------------|-------------------|--------------------|-------------------|-----------------|---|--------------------------------|---------------------------------|--|
|  | Total (number) | With 20 employees or more (number) | Total (number)             | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |   |                                |                                 |  |
| <b>ALL MANUFACTURING ESTABLISHMENTS, TOTAL:</b>          |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 . . . . .   | 6 739          | 3 733                              | 1 166 953                  | 8 148 976         | 922 160            | 1 838 970         | 5 933 628       | 15 261 089  | 20 474 219                     | 35 621 458                      | 1 446 303                              |
| 1958 . . . . .   | 6 661          | 3 545                              | 1 129 512                  | 6 600 300         | 882 946            | 1 670 004         | 4 695 806       | 11 542 204  | (NA)                           | 27 323 600                      | 1 543 695                              |
| 1954 . . . . .   | (NA)           | (NA)                               | 1 187 126                  | 5 508 991         | 966 478            | 1 865 662         | 4 104 712       | 9 771 558   | (NA)                           | (NA)                            | 910 396                                |
| <b>ADMINISTRATIVE AND AUXILIARY UNITS:</b>               |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 <sup>5</sup> . . . . .                              | 226            | 150                                | 40 417                     | 414 847           | (X)                | (X)               | (X)             | (X)   | (X)                            | (X)                             | (X)                                    |
| 1958 <sup>5</sup> . . . . .                              | 214            | 133                                | 37 585                     | 319 831           | (X)                | (X)               | (X)             | (X)   | (X)                            | (X)                             | (X)                                    |
| 1954 <sup>5</sup> . . . . .                              | (NA)           | (NA)                               | 34 907                     | 248 890           | (X)                | (X)               | (X)             | (X)   | (X)                            | (X)                             | (X)                                    |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>           |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 . . . . .   | 6 513          | 3 583                              | 1 126 536                  | 7 734 129         | 922 160            | 1 838 970         | 5 933 628       | 15 261 089  | 20 474 219                     | 35 621 458                      | 1 446 303                              |
| 1958 . . . . .   | 6 447          | 3 412                              | 1 091 927                  | 6 280 469         | 882 946            | 1 670 004         | 4 695 806       | 11 542 204  | (NA)                           | 27 323 600                      | 1 543 695                              |
| 1954 <sup>6</sup> . . . . .                              | (NA)           | (NA)                               | 1 152 219                  | 5 260 101         | 966 478            | 1 865 662         | 4 104 712       | 9 771 558   | (NA)                           | (NA)                            | 910 396                                |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS (ORIGINAL)</b> |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 . . . . .   | 5 838          | (NA)                               | 1 119 716                  | 5 111 522         | 938 511            | 1 812 027         | 3 985 548       | 9 390 435   | (NA)                           | (NA)                            | 831 095                                |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>           |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1962 <sup>7</sup> . . . . .                              | (NA)           | (NA)                               | 1 128 124                  | 7 482 272         | 917 141            | 1 795 457         | 5 657 904       | 13 677 928  | 19 744 374                     | 33 644 892                      | 1 158 704                              |
| 1961 <sup>7</sup> . . . . .                              | (NA)           | (NA)                               | 1 099 811                  | 7 059 506         | 890 879            | 1 723 135         | 5 270 966       | 12 758 492  | 18 724 142                     | 31 521 934                      | 1 222 427                              |
| 1960 <sup>7</sup> . . . . .                              | (NA)           | (NA)                               | 1 174 472                  | 7 214 826         | 956 936            | 1 836 543         | 5 424 259       | 13 283 305  | (NA)                           | (NA)                            | 1 615 431                              |
| 1959 <sup>7</sup> . . . . .                              | (NA)           | (NA)                               | 1 143 649                  | 7 057 356         | 947 001            | 1 830 145         | 5 354 030       | 13 577 550  | (NA)                           | (NA)                            | 1 075 996                              |
| 1957 <sup>6</sup> <sup>7</sup> . . . . .                 | (NA)           | (NA)                               | 1 271 940                  | 7 018 584         | 1 053 293          | 2 057 371         | 5 439 962       | 13 320 274  | (NA)                           | (NA)                            | 2 149 779                              |
| 1956 <sup>6</sup> <sup>7</sup> . . . . .                 | (NA)           | (NA)                               | 1 319 204                  | 6 892 645         | 1 109 459          | 2 195 376         | 5 444 329       | 13 847 991  | (NA)                           | (NA)                            | 1 650 962                              |
| 1955 <sup>6</sup> <sup>7</sup> . . . . .                 | (NA)           | (NA)                               | 1 273 761                  | 6 418 291         | 1 075 733          | 2 192 269         | 5 117 098       | 12 962 929  | (NA)                           | (NA)                            | 977 362                                |
| 1953 <sup>7</sup> . . . . .                              | (NA)           | (NA)                               | 1 287 765                  | 6 001 743         | 1 102 455          | 2 252 974         | 4 867 388       | 11 003 954  | (NA)                           | (NA)                            | 1 211 656                              |
| 1952 <sup>7</sup> . . . . .                              | (NA)           | (NA)                               | 1 240 337                  | 5 214 530         | 1 065 557          | 2 071 441         | 4 204 165       | 9 050 545   | (NA)                           | (NA)                            | (NA)                                   |
| 1951 <sup>7</sup> . . . . .                              | 5 490          | (NA)                               | 1 244 210                  | 5 137 288         | 1 079 120          | 2 255 874         | 4 218 802       | 9 760 640   | (NA)                           | (NA)                            | 1 126 715                              |
| 1950 <sup>7</sup> . . . . .                              | 5 322          | (NA)                               | 1 129 040                  | 4 157 451         | 977 450            | 2 008 705         | 3 400 055       | 7 950 990   | (NA)                           | (NA)                            | 548 253                                |
| 1949 <sup>7</sup> . . . . .                              | (NA)           | (NA)                               | 1 016 289                  | 3 464 563         | 868 079            | 1 701 606         | 2 769 637       | 5 710 240   | (NA)                           | (NA)                            | 567 956                                |
| 1947 <sup>7</sup> . . . . .                              | 5 365          | (NA)                               | 1 158 158                  | 3 601 791         | 1 012 008          | 2 053 663         | 2 982 736       | 5 733 028   | (NA)                           | (NA)                            | 592 177                                |
| 1939 <sup>8</sup> . . . . .                              | 3 512          | (NA)                               | (NA)                       | (NA)              | 672 438            | (NA)              | 978 355         | 2 168 899   | (NA)                           | (NA)                            | (NA)                                   |
| 1937 <sup>8</sup> . . . . .                              | 3 245          | (NA)                               | (NA)                       | (NA)              | 792 096            | (NA)              | 1 204 929       | 2 519 978   | (NA)                           | (NA)                            | (NA)                                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. <sup>1</sup>Revised.

<sup>2</sup>The figures for 1939 through 1963 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>3</sup>For the period 1934 to 1963, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture."

<sup>4</sup>The total value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry classification. For a more complete explanation, see Introduction.

<sup>5</sup>The figures for 1958 to 1963 include expenditures for plants under construction and not yet in operation.

<sup>6</sup>In addition to data for operating establishments, figures for employment and payroll for manufacturing central administrative office and auxiliary units are shown for the

years 1949 to 1953 in the annual survey of manufactures volumes. Data for these units are not available for the years 1955 to 1957 - 1959 to 1962, and prior to 1949.

<sup>6</sup>The 1957 edition of the Standard Industrial Classification classifies beehive coke ovens and byproduct coke ovens in Major Group 33. Such establishments were previously included in Major Group 29, Petroleum and Coal Products. However, this change was reflected in the tabulations for the 1955 to 1957 annual surveys of manufactures. Data for 1954 were retabulated on this basis and are the source of the data labeled "Revised."

<sup>7</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>8</sup>The figures for 1939 to 1958 are not entirely comparable with those for 1937 because the 1937 figures (a) include data for establishments primarily engaged in producing certain nonferrous bearings and aluminum products (ship bunks, ornamental metal work, stampings, novelties, valves and fittings, machined castings and tags), and (b) exclude data for establishments primarily engaged in making electrometallurgical products, nonferrous die castings and forgings, cast aluminum cooking ware, and in the heat treating of steel. Value added by manufacture for 1939 on a basis strictly comparable with 1937 was \$2,131.2 million. Figures have not been compiled for 1935 and prior years because of large elements of noncomparability in the earlier statistics of a number of industries included in the primary metal group.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Code | Industry group and geographic area            | 1963           |                                    |                |                   |                    |                   |                 |  |                                     | 1958                   |  |
|------|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 33   | PRIMARY METAL INDUSTRIES, TOTAL . . .         | 6 513          | 3 583                              | 1 126 536      | 7 734 129         | 922 160            | 1 838 970         | 5 933 628       | 15 261 089                                     | 1446 303                            | 1 091 927              | 11 542 204                                     |
|      | NORTHEAST . . . . .                           | 2 111          | 1 154                              | 374 414        | 2 515 098         | 300 802            | 593 260           | 1 887 698       | 4 629 817                                      | 345 872                             | 391 652                | 3 800 741                                      |
|      | NEW ENGLAND . . . . .                         | 611            | 333                                | 59 562         | 361 704           | 47 650             | 97 317            | 264 534         | 640 880  | 36 020                              | 59 241                 | 524 749  |
|      | MAINE . . . . .                               | 9              | 4                                  | 244            | 1 162             | 181                | 346               | 711             | 1 691  | 228                                 | 1                      | 1 836  |
|      | NEW HAMPSHIRE . . . . .                       | 24             | 14                                 | 1 696          | 8 642             | 1 340              | 2 728             | 5 903           | 16 119   | 502                                 | 1 747                  | 15 762   |
|      | VERMONT . . . . .                             | 10             | 6                                  | 604            | 3 112             | 474                | 925               | 2 037           | 4 499  | 279                                 | 445                    | 3 893  |
|      | MASSACHUSETTS . . . . .                       | 252            | 145                                | 22 057         | 130 789           | 17 555             | 35 630            | 94 313          | 201 819  | 9 945                               | 22 724                 | 184 040  |
|      | RHODE ISLAND . . . . .                        | 85             | 40                                 | 9 096          | 48 632            | 7 594              | 15 146            | 36 568          | 94 983   | 5 282                               | 8 577                  | 74 874   |
|      | CONNECTICUT . . . . .                         | 231            | 124                                | 25 865         | 169 367           | 20 506             | 42 542            | 125 002         | 321 769  | 19 784                              | 25 501                 | 244 344  |
|      | MIDDLE ATLANTIC . . . . .                     | 1 500          | 821                                | 314 852        | 2 153 394         | 253 152            | 495 943           | 1 623 164       | 3 988 937                                      | 309 852                             | 332 411                | 3 275 992                                      |
|      | NEW YORK . . . . .                            | 510            | 251                                | 68 539         | 459 449           | 55 178             | 109 930           | 347 088         | 916 516  | 50 452                              | 68 340                 | 667 696  |
|      | NEW JERSEY . . . . .                          | 366            | 190                                | 35 925         | 230 454           | 27 651             | 56 317            | 164 768         | 408 644  | 27 585                              | 37 206                 | 370 542  |
|      | PENNSYLVANIA . . . . .                        | 624            | 380                                | 210 388        | 1 463 491         | 170 323            | 329 696           | 1 111 308       | 6 643 917                                      | 231 815                             | 226 865                | 2 237 754                                      |
|      | NORTH CENTRAL . . . . .                       | 2 576          | 1 507                              | 486 837        | 3 449 526         | 403 046            | 811 059           | 1 681 678       | 6 275 049                                      | 720 786                             | 446 536                | 4 729 987                                      |
|      | EAST NORTH CENTRAL . . . . .                  | 2 241          | 1 331                              | 457 516        | 3 262 256         | 379 001            | 762 495           | 2 541 234       | 6 283 863                                      | 700 107                             | 419 112                | 4 456 103                                      |
|      | OHIO . . . . .                                | 667            | 394                                | 155 447        | 1 100 486         | 130 507            | 258 635           | 874 310         | 2 197 734                                      | 209 570                             | 148 676                | 1 604 875                                      |
|      | INDIANA . . . . .                             | 245            | 153                                | 93 613         | 681 338           | 76 901             | 155 097           | 531 294         | 1 456 412                                      | 249 402                             | 87 846                 | 1 047 335                                      |
|      | ILLINOIS . . . . .                            | 575            | 340                                | 97 850         | 689 516           | 79 964             | 158 609           | 519 885         | 1 176 747                                      | 94 816                              | 89 432                 | 906 854  |
|      | MICHIGAN . . . . .                            | 556            | 321                                | 81 807         | 604 915           | 68 277             | 143 232           | 473 674         | 1 155 577                                      | 129 952                             | 67 977                 | 683 092  |
|      | WISCONSIN . . . . .                           | 198            | 123                                | 28 799         | 186 001           | 23 352             | 46 922            | 142 071         | 288 579  | 16 367                              | 25 181                 | 213 947  |
|      | WEST NORTH CENTRAL . . . . .                  | 335            | 176                                | 29 321         | 187 270           | 24 045             | 48 564            | 140 444         | 368 868  | 20 679                              | 27 424                 | 273 884  |
|      | MINNESOTA . . . . .                           | 85             | 42                                 | 5 484          | 35 248            | 4 773              | 9 389             | 28 545          | 64 633   | 1 864                               | 5 559                  | 47 311   |
|      | IDWAH . . . . .                               | 71             | 36                                 | 7 177          | 48 376            | 5 772              | 12 291            | 36 173          | 107 979  | 11 663                              | 5 294                  | 62 276   |
|      | MISSOURI . . . . .                            | 122            | 67                                 | 12 798         | 82 204            | 10 337             | 20 443            | 59 700          | 153 109  | 4 678                               | 13 575                 | 131 716  |
|      | NORTH DAKOTA . . . . .                        | 1              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | SDOUTH DAKOTA . . . . .                       | 1              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | NEBRASKA . . . . .                            | 18             | 12                                 | 1 840          | 11 292            | 1 440              | 2 992             | 8 055           | 26 000   | 1 932                               | 1 108                  | 20 383   |
|      | KANSAS . . . . .                              | 37             | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | 1 879                  | 12 160   |
|      | SOUTH . . . . .                               | 871            | 490                                | 178 101        | 1 172 609         | 147 577            | 293 778           | 913 826         | 2 652 056                                      | 295 355                             | 164 410                | 2 015 250                                      |
|      | SDOUTH ATLANTIC . . . . .                     | 360            | 177                                | 75 662         | 515 221           | 61 981             | 122 409           | 398 578         | 1 099 161                                      | 115 630                             | 73 618                 | 882 396  |
|      | DELAWARE . . . . .                            | 9              | 5                                  | 2 282          | 14 532            | 1 887              | 3 490             | 10 645          | 19 371   | 1 259                               | 2 952                  | 21 093   |
|      | MARYLAND . . . . .                            | 50             | 29                                 | 36 035         | 250 293           | 28 788             | 55 555            | 190 129         | 509 289  | 45 959                              | 35 991                 | 430 062  |
|      | VIRGINIA . . . . .                            | 52             | 32                                 | 5 400          | 31 759            | 4 571              | 10 104            | 25 670          | 61 742   | 4 497                               | 4 829                  | 48 972   |
|      | WEST VIRGINIA . . . . .                       | 40             | 28                                 | 21 652         | 166 685           | 18 096             | 35 586            | 132 754         | 389 749  | 37 873                              | 21 662                 | 323 825  |
|      | NORTH CAROLINA . . . . .                      | 59             | 24                                 | 3 360          | 17 345            | 2 805              | 5 810             | 12 868          | 40 993   | 20 617                              | 2 720                  | 23 303   |
|      | SDOUTH CAROLINA . . . . .                     | 15             | 7                                  | 1 096          | 4 951             | 1 029              | 2 016             | 4 377           | 11 174   | 1 162                               | 704                    | 7 463  |
|      | GEORGIA . . . . .                             | 58             | 28                                 | 3 514          | 18 188            | 2 841              | 5 768             | 13 122          | 35 998   | 2 457                               | 3 252                  | 16 191   |
|      | FLORIDA . . . . .                             | 77             | 24                                 | 2 323          | 11 468            | 1 964              | 4 080             | 9 013           | 30 845   | 1 806                               | 1 508                  | 11 487   |
|      | EAST SDOUTH CENTRAL . . . . .                 | 217            | 153                                | 63 786         | 417 022           | 53 690             | 106 390           | 333 327         | 1 003 349                                      | 150 014                             | 57 718                 | 691 008  |
|      | KENTUCKY . . . . .                            | 35             | 25                                 | 9 825          | 68 212            | 8 175              | 16 271            | 53 688          | 148 677  | (0)                                 | 8 087                  | 98 437   |
|      | TENNESSEE . . . . .                           | 78             | 49                                 | 13 298         | 81 054            | 11 507             | 23 630            | 67 146          | 154 018  | (0)                                 | 11 127                 | 120 697  |
|      | ALABAMA . . . . .                             | 91             | 72                                 | 40 078         | 265 025           | 33 536             | 65 523            | 210 521         | 693 292  | 42 978                              | 38 024                 | 469 497  |
|      | MISSISSIPPI . . . . .                         | 13             | 7                                  | 585            | 2 731             | 472                | 966               | 1 972           | 7 362  | 155                                 | 480                    | 2 377  |
|      | WEST SDOUTH CENTRAL . . . . .                 | 294            | 160                                | 38 653         | 240 366           | 31 906             | 64 979            | 181 921         | 549 546  | 29 711                              | 33 074                 | 441 846  |
|      | ARKANSAS . . . . .                            | 28             | 19                                 | 3 121          | 18 543            | 2 602              | 5 382             | 14 364          | 37 291   | 2 599                               | 2 450                  | 36 297   |
|      | LOUISIANA . . . . .                           | 23             | 12                                 | 3 869          | 25 159            | 3 246              | 6 603             | 19 506          | 85 677   | 3 231                               | 3 550                  | 84 460   |
|      | OKLAHOMA . . . . .                            | 47             | 25                                 | 3 795          | 20 563            | 3 305              | 6 349             | 16 218          | 45 796   | 2 992                               | 2 940                  | 23 121   |
|      | TEXAS . . . . .                               | 196            | 104                                | 27 868         | 176 101           | 22 753             | 46 645            | 131 833         | 380 782  | 20 889                              | 24 134                 | 297 968  |
|      | WEST . . . . .                                | 958            | 436                                | 88 191         | 604 087           | 71 406             | 142 422           | 455 223         | 1 342 688                                      | 83 889                              | 89 329                 | 1 094 649                                      |
|      | MDUNTAIN . . . . .                            | 116            | 63                                 | 25 323         | 171 394           | 20 757             | 40 162            | 130 765         | 474 895  | 19 932                              | 28 351                 | 351 264  |
|      | MDONTANA . . . . .                            | 12             | 10                                 | 3 261          | 18 144            | 2 643              | 4 939             | 14 234          | 47 795   | (0)                                 | (0)                    | (0)  |
|      | IDAH . . . . .                                | 5              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | COLDRADD . . . . .                            | 44             | 18                                 | 7 642          | 51 668            | 6 333              | 12 391            | 40 430          | 91 813   | 2 496                               | (0)                    | (0)  |
|      | NEW MEXICD . . . . .                          | 4              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | ARIZONA . . . . .                             | 28             | 13                                 | 4 480          | 29 441            | 3 771              | 7 528             | 22 440          | 73 531   | 4 293                               | 5 137                  | 49 409   |
|      | UTAH . . . . .                                | 19             | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | 140 725  |
|      | NEVADA . . . . .                              | 4              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | 8 439                  | (0)  |
|      | PACIFIC . . . . .                             | 842            | 373                                | 62 868         | 432 693           | 50 649             | 102 260           | 324 458         | 867 793  | 63 957                              | 60 978                 | 743 385  |
|      | WASHINGTON . . . . .                          | 77             | 35                                 | 9 768          | 70 697            | 7 991              | 16 237            | 55 063          | 202 202  | 10 729                              | 10 320                 | 172 040  |
|      | DREGON . . . . .                              | 53             | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | 4 214                  | 65 784   |
|      | CALIFDRNIA . . . . .                          | 710            | 313                                | 48 469         | 330 945           | 38 954             | 78 639            | 245 842         | 603 882  | 50 077                              | 46 444                 | 505 561  |
|      | HAWAII . . . . .                              | 2              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
| 331  | STEEL ROLLING AND FINISHING, TDOTAL . . . . . | 746            | 593                                | 568 849        | 4 167 859         | 466 263            | 901 989           | 3 225 011       | 8 617 266                                      | 974 367                             | 578 185                | 6 862 919                                      |
|      | NDRTHEAST . . . . .                           | 287            | 231                                | 210 096        | 1 498 576         | 169 845            | 326 341           | 1 143 943       | 2 837 166                                      | 237 857                             | 225 725                | 2 362 851                                      |
|      | NEW ENGLAND . . . . .                         | 58             | 50                                 | 11 575         | 77 386            | 9 042              | 17 882            | 56 240          | 141 416  | 7 658                               | 11 237                 | 103 309  |
|      | MASSACHUSETTS . . . . .                       | 30             | 26                                 | 4 642          | 30 876            | 3 696              | 6 975             | 22 964          | 42 451   | 1 740                               | 6 165                  | 53 125   |
|      | CONNECTICUT . . . . .                         | 21             | 18                                 | 4 893          | 33 910            | 3 610              | 7 461             | 23 652          | 72 429   | 4 538                               | 3 129                  | 31 677   |
|      | MIDDLE ATLANTIC . . . . .                     | 229            | 181                                | 198 521        | 1 421 190         | 160 803            | 308 459           | 1 087 703       | 2 695 750                                      | 230 199                             | 214 488                | 2 259 542                                      |
|      | NEW YDRK . . . . .                            | 53             | 37                                 | 31 552         | 227 113           | 25 806             | 50 652            | 176 512         | 462 052  | 27 167                              | 32 060                 | 354 848  |
|      | NEW JERSEY . . . . .                          | 38             | 25                                 | 5 734          | 38 547            | 4 209              | 8 259             | 26 200          | 78 564   | 3 541                               | 6 078                  | 64 297   |
|      | PENNSYLVANIA . . . . .                        | 138            | 119                                | 161 235        | 1 155 530         | 130 788            | 249 548           | 884 991         | 2 155 134                                      | 199 491                             | 176 350                | 1 840 397                                      |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area        | 1963           |                                    |                |                   |                    |                   |                 |  | 1958                                |                        |  |
|------|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 331  | STEEL ROLLING AND FINISHING—CONT.         |                |                                    |                |                   |                    |                   |                 |  |                                     |                        |  |
|      | NORTH CENTRAL . . . . .                   | 249            | 203                                | 236 137        | 1 782 832         | 196 264            | 383 238           | 1 397 295       | 3 785 887                                      | 520 181                             | 229 277                | 2 834 673                                      |
|      | EAST NORTH CENTRAL . . . . .              | 233            | 192                                | 228 033        | 1 723 597         | 189 967            | 371 245           | 1 356 170       | 3 662 581                                      | 515 987                             | 220 097                | 2 726 928                                      |
|      | OHIO . . . . .                            | 84             | 76                                 | 92 152         | 673 356           | 78 583             | 151 046           | 544 848         | 1 441 640                                      | 165 767                             | 93 387                 | 1 111 351                                      |
|      | INDIANA . . . . .                         | 27             | 21                                 | 59 295         | 454 205           | 48 493             | 95 288            | 353 741         | 1 056 396                                      | 204 806                             | 58 388                 | 791 391  |
|      | ILLINOIS . . . . .                        | 73             | 56                                 | 48 244         | 365 334           | 39 539             | 77 527            | 279 274         | 623 058  | 51 018                              | 44 450                 | 512 024  |
|      | MICHIGAN . . . . .                        | 41             | 32                                 | 26 001         | 215 130           | 21 463             | 43 501            | 166 135         | 509 992  | 92 625                              | 21 001                 | 275 712  |
|      | WISCONSIN . . . . .                       | 8              | 7                                  | 2 341          | 15 572            | 1 889              | 3 883             | 12 172          | 31 495   | 1 771                               | 2 871                  | 36 450   |
|      | WEST NORTH CENTRAL . . . . .              | 16             | 11                                 | 8 104          | 59 235            | 6 297              | 11 993            | 41 125          | 123 306  | 4 194                               | 9 180                  | 107 745  |
|      | MISSOURI . . . . .                        | 7              | 4                                  | 4 623          | 36 376            | 3 398              | 6 419             | 23 178          | 75 090   | (0)                                 | 5 291                  | 69 851   |
|      | SOUTH . . . . .                           | 117            | 101                                | 89 880         | 639 975           | 73 732             | 141 910           | 499 522         | 1 503 160                                      | 174 382                             | 88 950                 | 1 181 790                                      |
|      | SOUTH ATLANTIC . . . . .                  | 56             | 46                                 | 48 229         | 347 689           | 39 722             | 76 359            | 274 208         | 745 495  | 56 206                              | 49 946                 | 658 668  |
|      | VIRGINIA . . . . .                        | 13             | 10                                 | 644            | 3 646             | 587                | 1 309             | 3 112           | 7 451  | 588                                 | (0)                    | (0)  |
|      | WEST VIRGINIA . . . . .                   | 12             | 10                                 | 14 771         | 116 584           | 12 725             | 24 980            | 97 845          | 272 193  | 15 340                              | 16 253                 | 242 957  |
|      | FLORIDA . . . . .                         | 8              | 8                                  | 455            | 2 655             | 389                | 844               | 2 120           | 9 247  | 475                                 | (0)                    | (0)  |
|      | EAST SOUTH CENTRAL . . . . .              | 40             | 38                                 | 32 104         | 223 252           | 26 503             | 50 743            | 175 959         | 632 875  | 108 812                             | 29 227                 | 403 341  |
|      | KENTUCKY . . . . .                        | 9              | 9                                  | 7 493          | 53 718            | 6 351              | 12 568            | 43 258          | 113 642  | (0)                                 | 6 273                  | 81 377   |
|      | TENNESSEE . . . . .                       | 12             | 11                                 | 2 618          | 12 528            | 2 254              | 4 592             | 10 114          | 21 434   | 1 388                               | (0)                    | (0)  |
|      | ALABAMA . . . . .                         | 16             | 15                                 | 21 774         | 155 927           | 17 716             | 33 187            | 121 858         | 494 929  | (0)                                 | 20 874                 | 301 657  |
|      | MISSISSIPPI . . . . .                     | 3              | 3                                  | 219            | 1 079             | 182                | 396               | 729             | 2 870  | 42                                  | (0)                    | (0)  |
|      | WEST SOUTH CENTRAL . . . . .              | 21             | 17                                 | 9 547          | 69 034            | 7 507              | 14 808            | 49 355          | 124 790  | 9 364                               | 9 777                  | 119 781  |
|      | TEXAS . . . . .                           | 17             | 13                                 | 8 901          | 64 718            | 6 965              | 13 771            | 46 020          | 116 300  | 8 687                               | (0)                    | (0)  |
|      | WEST . . . . .                            | 93             | 58                                 | 33 062         | 249 049           | 26 659             | 50 903            | 185 831         | 494 292  | 41 422                              | 34 233                 | 483 605  |
|      | WASHINGTON . . . . .                      | 8              | 5                                  | 1 388          | 9 757             | 1 098              | 2 136             | 7 204           | 18 225   | 608                                 | (0)                    | (0)  |
|      | CALIFORNIA . . . . .                      | 69             | 40                                 | 19 459         | 147 256           | 15 779             | 30 104            | 110 127         | 267 447  | 32 961                              | 18 865                 | 263 984  |
| 332  | IRON AND STEEL FOUNDRIES, TOTAL . . . . . | 1 487          | 1 058                              | 199 635        | 1 233 624         | 170 699            | 348 180           | 989 212         | 1 959 949                                      | 108 938                             | 182 033                | 1 322 220                                      |
|      | NORTHEAST . . . . .                       | 384            | 276                                | 41 301         | 246 734           | 35 197             | 70 434            | 196 415         | 383 292  | 17 220                              | 42 409                 | 292 082  |
|      | NEW ENGLAND . . . . .                     | 107            | 73                                 | 6 825          | 37 620            | 5 899              | 13 003            | 30 065          | 58 177   | 2 647                               | 7 073                  | 43 710   |
|      | NEW HAMPSHIRE . . . . .                   | 7              | 5                                  | 571            | 2 904             | 437                | 927               | 1 987           | 5 264  | 79                                  | 448                    | 2 621  |
|      | MASSACHUSETTS . . . . .                   | 51             | 34                                 | 3 089          | 16 944            | 2 788              | 6 575             | 14 272          | 27 067   | (0)                                 | 3 896                  | 25 932   |
|      | CONNECTICUT . . . . .                     | 28             | 22                                 | 2 457          | 14 395            | 2 048              | 4 263             | 11 026          | 21 054   | 1 162                               | 2 098                  | 12 517   |
|      | MIDDLE ATLANTIC . . . . .                 | 277            | 203                                | 34 476         | 209 114           | 29 298             | 57 431            | 166 350         | 325 115  | 14 573                              | 35 336                 | 248 372  |
|      | NEW YORK . . . . .                        | 68             | 48                                 | 7 273          | 44 212            | 6 184              | 12 408            | 35 344          | 74 761   | 2 408                               | 7 256                  | 50 684   |
|      | NEW JERSEY . . . . .                      | 44             | 32                                 | 5 130          | 29 625            | 4 283              | 8 497             | 23 444          | 49 054   | 4 394                               | 6 330                  | 48 317   |
|      | PENNSYLVANIA . . . . .                    | 165            | 123                                | 22 073         | 135 277           | 18 831             | 36 526            | 107 562         | 201 300  | 7 771                               | 21 750                 | 149 371  |
|      | NORTH CENTRAL . . . . .                   | 661            | 500                                | 114 800        | 756 280           | 97 585             | 201 519           | 605 633         | 1 197 652                                      | 73 810                              | 98 015                 | 728 964  |
|      | EAST NORTH CENTRAL . . . . .              | 540            | 424                                | 104 921        | 701 008           | 89 028             | 184 632           | 560 395         | 1 109 023                                      | 70 138                              | 88 855                 | 665 493  |
|      | OHIO . . . . .                            | 158            | 125                                | 29 150         | 194 805           | 24 744             | 51 338            | 155 867         | 326 106  | 20 435                              | 25 637                 | 203 025  |
|      | INDIANA . . . . .                         | 73             | 54                                 | 12 628         | 80 281            | 11 058             | 23 005            | 66 852          | 118 986  | 6 821                               | 11 603                 | 88 219   |
|      | ILLINOIS . . . . .                        | 107            | 85                                 | 18 250         | 116 545           | 15 366             | 29 826            | 89 209          | 185 759  | 12 013                              | 16 357                 | 110 239  |
|      | MICHIGAN . . . . .                        | 120            | 97                                 | 30 384         | 218 978           | 26 128             | 56 644            | 180 077         | 350 656  | 23 981                              | 24 323                 | 188 426  |
|      | WISCONSIN . . . . .                       | 82             | 63                                 | 14 509         | 90 399            | 11 732             | 23 819            | 68 390          | 127 516  | 6 888                               | 10 935                 | 75 584   |
|      | WEST NORTH CENTRAL . . . . .              | 121            | 76                                 | 9 879          | 55 272            | 8 557              | 16 887            | 45 238          | 88 629   | 3 672                               | 9 160                  | 63 471   |
|      | IOWA . . . . .                            | 30             | 21                                 | 2 630          | 14 654            | 2 256              | 4 344             | 12 038          | 22 029   | 1 336                               | 2 007                  | 13 581   |
|      | MISSOURI . . . . .                        | 37             | 26                                 | 4 172          | 23 713            | 3 659              | 7 197             | 19 683          | 37 414   | 1 187                               | 4 117                  | 27 066   |
|      | KANSAS . . . . .                          | 19             | 11                                 | 1 604          | 8 041             | 1 357              | 2 689             | 6 343           | 13 486   | 316                                 | (0)                    | (0)  |
|      | SOUTH . . . . .                           | 265            | 173                                | 31 896         | 160 510           | 28 083             | 56 412            | 131 221         | 255 377  | 13 702                              | 29 866                 | 203 506  |
|      | SOUTH ATLANTIC . . . . .                  | 107            | 59                                 | 8 210          | 41 213            | 7 243              | 15 095            | 34 140          | 73 545   | 4 876                               | 8 092                  | 52 257   |
|      | MARYLAND . . . . .                        | 8              | 7                                  | 756            | 3 858             | 657                | 1 423             | 3 021           | 5 323  | 1 369                               | 771                    | 5 162  |
|      | GEORGIA . . . . .                         | 18             | 9                                  | 723            | 2 866             | 638                | 1 292             | 2 345           | 3 552  | 140                                 | 709                    | 2 520  |
|      | EAST SOUTH CENTRAL . . . . .              | 84             | 69                                 | 15 465         | 80 713            | 13 647             | 27 162            | 66 549          | 118 445  | 5 421                               | 14 800                 | 104 338  |
|      | KENTUCKY . . . . .                        | 8              | 7                                  | 289            | 1 343             | 260                | 491               | 1 095           | 1 538  | 11                                  | (0)                    | (0)  |
|      | TENNESSEE . . . . .                       | 25             | 20                                 | 3 573          | 17 991            | 3 080              | 6 120             | 14 579          | 15 280   | 725                                 | 2 712                  | 16 261   |
|      | ALABAMA . . . . .                         | 47             | 40                                 | 11 459         | 60 759            | 10 189             | 20 317            | 50 356          | 100 592  | 4 652                               | 11 815                 | 86 842   |
|      | MISSISSIPPI . . . . .                     | 4              | 2                                  | 144            | 620               | 118                | 234               | 519             | 1 035  | 33                                  | (0)                    | (0)  |
|      | WEST SOUTH CENTRAL . . . . .              | 74             | 45                                 | 8 221          | 38 584            | 7 193              | 14 155            | 30 532          | 63 387   | 3 405                               | 6 974                  | 46 911   |
|      | ARKANSAS . . . . .                        | 7              | 3                                  | 346            | 1 458             | 318                | 598               | 1 193           | 1 821  | 142                                 | (0)                    | (0)  |
|      | LOUISIANA . . . . .                       | 9              | 5                                  | 877            | 4 678             | 738                | 1 555             | 3 795           | 7 823  | 356                                 | (0)                    | (0)  |
|      | OKLAHOMA . . . . .                        | 14             | 11                                 | 1 035          | 4 694             | 913                | 1 607             | 3 669           | 7 190  | 369                                 | 853                    | 5 024  |
|      | TEXAS . . . . .                           | 44             | 26                                 | 5 963          | 27 754            | 5 224              | 10 395            | 21 875          | 46 553   | 2 538                               | 5 164                  | 35 310   |
|      | WEST . . . . .                            | 178            | 110                                | 11 765         | 70 726            | 9 931              | 20 017            | 56 469          | 122 896  | 4 198                               | 11 743                 | 97 668   |
|      | OREGON . . . . .                          | 19             | 11                                 | 1 635          | 10 196            | 1 376              | 2 715             | 8 463           | 16 286   | 460                                 | 1 496                  | 13 582   |
|      | CALIFORNIA . . . . .                      | 109            | 72                                 | 7 402          | 44 062            | 6 358              | 12 685            | 35 051          | 75 924   | 2 239                               | 6 688                  | 59 924   |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area                        | 1963              |                                       |                   |                      |                    |                      |                    | 1958  |  |                           |   |
|------|---|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|---|--|---------------------------|---|
|      |   | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted<br>(\$1,000) | Capital expenditures, new<br>(\$1,000) | All employees<br>(number) | Value added by manufacture, adjusted<br>(\$1,000) |
|      |   | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |  |                           |   |
| 333  | PRIMARY NONFERROUS METAL, TOTAL . . .                     | 119               | 109                                   | 48 789            | 327 814              | 39 652             | 80 832               | 251 432            | 1 012 581   | 87 439                                 | 47 247                    | 708 523   |
|      | NORTHEAST . . . . .                                       | 24                | 17                                    | 9 567             | 64 517               | 7 272              | 15 339               | 46 202             | 141 984   | 7 319                                  | 8 651                     | 85 979  |
|      | NEW YORK . . . . .  | 7                 | 6                                     | 2 265             | 15 777               | 1 822              | 3 732                | 12 142             | 57 893  | 7 731                                  | 2 235                     | 24 476  |
|      | NORTH CENTRAL . . . . .                                   | 18                | 17                                    | 5 059             | 34 515               | 3 938              | 8 167                | 25 412             | 85 579  | 20 475                                 | 3 690                     | 40 500  |
|      | ILLINOIS . . . . .  | 4                 | 4                                     | 840               | 5 191                | 708                | 1 422                | 4 046              | 10 523  | 743                                    | 1 561                     | 12 160  |
|      | SOUTH . . . . .   | 36                | 35                                    | 18 530            | 125 521              | 15 504             | 31 556               | 99 505             | 393 432   | 43 579                                 | 18 244                    | 342 520   |
|      | SOUTH ATLANTIC . . . . .                                  | 7                 | 7                                     | 3 075             | 20 687               | 2 448              | 4 966                | 15 849             | 63 806  | (0)                                    | 2 726                     | 48 095  |
|      | EAST SOUTH CENTRAL . . . . .                              | 6                 | 6                                     | 2 947             | 20 611               | 2 362              | 4 781                | 15 784             | 62 973  | (0)                                    | 3 221                     | 55 082  |
|      | WEST SOUTH CENTRAL . . . . .                              | 23                | 22                                    | 12 508            | 84 223               | 10 694             | 21 809               | 67 872             | 266 653   | (0)                                    | 12 297                    | 239 343   |
|      | TEXAS . . . . .   | 13                | 13                                    | 6 977             | 46 977               | 5 947              | 12 250               | 38 358             | 148 049   | 5 098                                  | 6 822                     | 125 479   |
|      | WEST . . . . .  | 41                | 40                                    | 15 633            | 103 261              | 12 938             | 25 770               | 80 313             | 391 164   | 16 052                                 | 16 662                    | 239 524   |
|      | MOUNTAIN . . . . .  | 27                | 27                                    | 9 454             | 59 211               | 8 006              | 15 845               | 47 217             | 220 684   | 9 305                                  | 10 777                    | 126 163   |
|      | ARIZONA . . . . .   | 8                 | 8                                     | 2 407             | 16 952               | 2 048              | 4 404                | 13 154             | 56 961  | (0)                                    | (D)                       | (D)   |
|      | PACIFIC . . . . .   | 14                | 13                                    | 6 179             | 44 050               | 4 932              | 9 925                | 33 096             | 170 480   | 6 747                                  | 5 885                     | 113 361   |
|      | WASHINGTON . . . . .                                      | 8                 | 7                                     | 4 234             | 31 142               | 3 528              | 7 081                | 24 568             | 138 061   | 4 510                                  | (D)                       | (D)   |
| 334  | SECONDARY NONFERROUS METALS, TOTAL . . . . . <sup>1</sup> | 459               | 179                                   | 15 445            | 96 302               | 11 336             | 23 779               | 60 510             | 228 190   | 17 891                                 | 14 441                    | 147 262   |
| 335  | NONFERROUS ROLLING AND DRAWING, TOTAL                     | 748               | 539                                   | 167 005           | 1 094 356            | 130 419            | 271 348              | 793 596            | 2 127 688   | 191 376                                | 155 679                   | 1 687 195   |
|      | NORTHEAST . . . . .                                       | 350               | 264                                   | 73 284            | 458 691              | 56 603             | 115 823              | 323 962            | 845 183   | 62 104                                 | 75 119                    | 747 107   |
|      | NEW ENGLAND . . . . .                                     | 143               | 118                                   | 30 759            | 181 980              | 24 593             | 49 732               | 132 673            | 333 952   | 21 299                                 | 30 984                    | 297 281   |
|      | VERMONT . . . . .   | 3                 | 3                                     | 405               | 2 189                | 299                | 596                  | 1 293              | 3 092   | 222                                    | (D)                       | (D)   |
|      | MASSACHUSETTS . . . . .                                   | 47                | 40                                    | 8 162             | 42 710               | 6 424              | 12 527               | 29 140             | 72 035  | 4 726                                  | 6 814                     | 55 894  |
|      | RHODE ISLAND . . . . .                                    | 25                | 20                                    | 6 425             | 32 824               | 5 312              | 10 662               | 24 503             | 60 568  | 3 536                                  | 6 086                     | 53 584  |
|      | CONNECTICUT . . . . .                                     | 62                | 49                                    | 15 250            | 101 307              | 12 199             | 25 257               | 76 188             | 192 859   | 12 409                                 | 16 883                    | 174 505   |
|      | MIDDLE ATLANTIC . . . . .                                 | 207               | 146                                   | 42 525            | 276 711              | 32 010             | 66 091               | 191 289            | 511 231   | 40 805                                 | 44 135                    | 449 826   |
|      | NEW YORK . . . . .  | 85                | 55                                    | 17 046            | 108 554              | 13 043             | 26 083               | 76 248             | 211 215   | 11 190                                 | 15 658                    | 163 553   |
|      | NEW JERSEY . . . . .                                      | 75                | 55                                    | 13 702            | 89 985               | 10 200             | 21 135               | 62 931             | 163 588   | 10 708                                 | 14 614                    | 166 235   |
|      | PENNSYLVANIA . . . . .                                    | 47                | 36                                    | 11 777            | 78 172               | 8 767              | 18 873               | 52 110             | 136 428   | 18 907                                 | 13 863                    | 120 038   |
|      | NORTH CENTRAL . . . . .                                   | 216               | 161                                   | 53 265            | 359 620              | 41 356             | 87 397               | 261 914            | 732 895   | 61 005                                 | 44 129                    | 527 083   |
|      | EAST NORTH CENTRAL . . . . .                              | 197               | 150                                   | 48 115            | 320 042              | 37 424             | 78 314               | 233 366            | 623 915   | 51 229                                 | (D)                       | (D)   |
|      | INDIANA . . . . .   | 33                | 26                                    | 12 676            | 84 869               | 9 968              | 21 518               | 63 559             | 179 955   | 13 365                                 | 11 365                    | 117 465   |
|      | ILLINOIS . . . . .  | 60                | 42                                    | 13 872            | 92 880               | 10 647             | 22 072               | 66 063             | 174 586   | 21 200                                 | 10 626                    | 128 439   |
|      | WISCONSIN . . . . .                                       | 6                 | 5                                     | 1 859             | 12 350               | 1 638              | 3 371                | 10 282             | 28 123  | 1 352                                  | 1 702                     | 23 021  |
|      | WEST NORTH CENTRAL . . . . .                              | 19                | 11                                    | 5 150             | 39 578               | 3 932              | 9 083                | 28 548             | 108 980   | 9 776                                  | (D)                       | (D)   |
|      | SOUTH . . . . .   | 92                | 61                                    | 26 332            | 180 468              | 21 162             | 44 525               | 136 186            | 374 512   | 54 162                                 | 21 412                    | 242 086   |
|      | SOUTH ATLANTIC . . . . .                                  | 51                | 32                                    | 13 834            | 94 273               | 10 683             | 22 130               | 66 136             | 191 761   | 33 091                                 | 11 253                    | 110 789   |
|      | MARYLAND . . . . .  | 6                 | 5                                     | 4 360             | 31 285               | 3 365              | 6 860                | 22 900             | 50 703  | 5 199                                  | (D)                       | (D)   |
|      | NORTH CAROLINA . . . . .                                  | 10                | 7                                     | 1 349             | 7 677                | 1 073              | 2 381                | 5 326              | 25 729  | (0)                                    | (D)                       | (D)   |
|      | GEORGIA . . . . .   | 11                | 7                                     | 1 215             | 5 536                | 937                | 2 091                | 3 688              | 11 529  | 1 411                                  | 600                       | 3 762   |
|      | FLORIDA . . . . .   | 10                | 4                                     | 686               | 3 702                | 582                | 1 368                | 3 003              | 12 603  | 982                                    | 639                       | 6 162   |
|      | EAST SOUTH CENTRAL . . . . .                              | 22                | 16                                    | 10 584            | 75 390               | 8 919              | 18 882               | 61 818             | 156 324   | 19 043                                 | 8 993                     | 117 587   |
|      | WEST SOUTH CENTRAL . . . . .                              | 19                | 13                                    | 1 914             | 10 805               | 1 560              | 3 513                | 8 232              | 26 427  | 2 028                                  | 1 166                     | 13 710  |
|      | TEXAS . . . . .   | 15                | 10                                    | 1 492             | 8 438                | 1 240              | 2 803                | 6 623              | 21 676  | 1 614                                  | (D)                       | (D)   |
|      | WEST . . . . .  | 93                | 56                                    | 14 683            | 99 590               | 11 639             | 24 556               | 74 245             | 185 485   | 14 308                                 | 15 019                    | 170 919   |
|      | PACIFIC . . . . .   | 85                | 52                                    | 12 289            | 84 339               | 9 781              | 21 141               | 63 108             | 153 089   | 12 366                                 | (D)                       | (D)   |
| 336  | NONFERROUS FOUNDRIES, TOTAL . . . . .                     | 1 894             | 679                                   | 69 243            | 412 050              | 58 426             | 119 804              | 317 697            | 656 485   | 30 571                                 | 62 159                    | 470 741   |
|      | NORTHEAST . . . . .                                       | 570               | 188                                   | 20 069            | 117 542              | 16 894             | 34 625               | 90 158             | 184 249   | 6 263                                  | 18 521                    | 133 342   |
|      | NEW ENGLAND . . . . .                                     | 169               | 50                                    | 4 133             | 22 160               | 3 552              | 7 166                | 16 906             | 35 589  | 1 401                                  | (D)                       | (D)   |
|      | MASSACHUSETTS . . . . .                                   | 76                | 22                                    | 1 613             | 8 377                | 1 391              | 2 770                | 6 475              | 13 744  | 573                                    | 1 690                     | 10 793  |
|      | RHODE ISLAND . . . . .                                    | 21                | 4                                     | 240               | 1 071                | 207                | 379                  | 790                | 1 915   | 106                                    | 192                       | 943   |
|      | CONNECTICUT . . . . .                                     | 62                | 21                                    | 1 874             | 10 787               | 1 594              | 3 310                | 8 069              | 16 412  | 652                                    | 1 810                     | 12 663  |
|      | MIDDLE ATLANTIC . . . . .                                 | 401               | 138                                   | 15 936            | 95 382               | 13 342             | 27 459               | 73 252             | 148 660   | 4 862                                  | (D)                       | (D)   |
|      | NEW YORK . . . . .  | 163               | 62                                    | 6 179             | 37 223               | 5 137              | 10 618               | 28 702             | 59 896  | 2 067                                  | 5 407                     | 38 775  |
|      | NEW JERSEY . . . . .                                      | 99                | 34                                    | 3 784             | 23 364               | 3 130              | 6 390                | 17 734             | 33 936  | 1 220                                  | (D)                       | (D)   |
|      | PENNSYLVANIA . . . . .                                    | 139               | 42                                    | 5 973             | 34 795               | 5 075              | 10 451               | 26 816             | 54 828  | 1 575                                  | (D)                       | (D)   |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area   | 1963           |                                    |                |                   |                    |                   |                 | 1958   |                                     |                        |  |
|------|--------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |                                      | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |                                      | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 336  | NONFERROUS FOUNDRIES--CONTINUED      |                |                                    |                |                   |                    |                   |                 |  |                                     |                        |  |
|      | NORTH CENTRAL . . . . .              | 807            | 338                                | 36 600         | 224 396           | 30 998             | 63 571            | 173 355         | 351 164  | 17 533                              | 33 983                 | 264 180  |
|      | EAST NORTH CENTRAL . . . . .         | 689            | 285                                | 32 426         | 202 185           | 27 380             | 56 130            | 155 514         | 313 597  | 15 954                              | 29 837                 | 232 883  |
|      | OHIO . . . . .                       | 207            | 78                                 | 10 614         | 66 572            | 8 838              | 18 295            | 51 265          | 109 398  | 3 761                               | 10 029                 | 76 074   |
|      | INDIANA . . . . .                    | 56             | 28                                 | 3 408          | 23 572            | 2 874              | 6 127             | 18 325          | 33 416   | 3 969                               | 2 329                  | 15 288   |
|      | ILLINOIS . . . . .                   | 193            | 79                                 | 7 554          | 45 290            | 6 460              | 13 145            | 35 140          | 67 698   | 3 387                               | 7 017                  | 52 098   |
|      | MICHIGAN . . . . .                   | 165            | 68                                 | 7 194          | 44 819            | 6 094              | 12 186            | 34 137          | 70 281   | 3 055                               | 7 529                  | 69 051   |
|      | WISCONSIN . . . . .                  | 68             | 32                                 | 3 656          | 21 932            | 3 114              | 6 377             | 16 647          | 32 804   | 1 782                               | 2 933                  | 20 372   |
|      | WEST NORTH CENTRAL . . . . .         | 118            | 53                                 | 4 174          | 22 211            | 3 618              | 7 441             | 17 841          | 37 567   | 1 579                               | 4 146                  | 31 297   |
|      | MINNESOTA . . . . .                  | 31             | 16                                 | 1 219          | 7 244             | 1 081              | 2 308             | 5 967           | 10 026   | 368                                 | 921                    | 5 992  |
|      | MISSOURI . . . . .                   | 46             | 20                                 | 1 785          | 9 368             | 1 538              | 3 099             | 7 566           | 15 914   | 603                                 | 2 562                  | 21 015   |
|      | KANSAS . . . . .                     | 11             | 5                                  | 199            | 907               | 183                | 392               | 767             | 1 642  | 87                                  | (D)                    | (D)  |
|      | SOUTH . . . . .                      | 202            | 54                                 | 5 181          | 27 720            | 4 360              | 8 979             | 21 443          | 47 721   | 4 213                               | 3 007                  | 18 657   |
|      | SOUTH ATLANTIC . . . . .             | 80             | 19                                 | 1 288          | 5 704             | 1 093              | 2 143             | 4 315           | 8 708  | 555                                 | 889                    | 4 948  |
|      | MARYLAND . . . . .                   | 7              | 3                                  | 232            | 1 144             | 181                | 361               | 780             | 1 651  | 71                                  | (D)                    | 786  |
|      | WEST VIRGINIA . . . . .              | 7              | 3                                  | 149            | 837               | 119                | 220               | 542             | 1 653  | 32                                  | (D)                    | (D)  |
|      | NORTH CAROLINA . . . . .             | 11             | 3                                  | 139            | 556               | 124                | 250               | 453             | 654  | 20                                  | (D)                    | (D)  |
|      | SOUTH CAROLINA . . . . .             | 6              | 2                                  | 100            | 385               | 90                 | 191               | 308             | 586  | (D)                                 | (D)                    | (D)  |
|      | GEORGIA . . . . .                    | 15             | 4                                  | 185            | 774               | 162                | 342               | 649             | 1 265  | 79                                  | (D)                    | (D)  |
|      | FLORIDA . . . . .                    | 27             | 3                                  | 316            | 1 086             | 276                | 481               | 911             | 1 465  | 112                                 | 175                    | 1 089  |
|      | EAST SOUTH CENTRAL . . . . .         | 33             | 9                                  | 1 603          | 10 952            | 1 345              | 2 892             | 8 685           | 17 428   | 1 909                               | 817                    | 4 302  |
|      | TENNESSEE . . . . .                  | 17             | 2                                  | 158            | 716               | 142                | 286               | 614             | 1 097  | 69                                  | (D)                    | (D)  |
|      | WEST SOUTH CENTRAL . . . . .         | 89             | 26                                 | 2 290          | 11 064            | 1 922              | 3 944             | 8 443           | 21 585   | 1 749                               | 1 301                  | 9 407  |
|      | ARKANSAS . . . . .                   | 9              | 8                                  | 1 057          | 5 186             | 866                | 1 758             | 3 915           | 11 517   | 1 239                               | 302                    | 3 067  |
|      | OKLAHOMA . . . . .                   | 15             | 4                                  | 288            | 1 419             | 249                | 528               | 1 079           | 2 602  | 46                                  | 123                    | 801  |
|      | TEXAS . . . . .                      | 61             | 14                                 | 919            | 4 325             | 787                | 1 619             | 3 358           | 7 218  | 449                                 | 839                    | 5 341  |
|      | WEST . . . . .                       | 315            | 99                                 | 7 393          | 42 392            | 6 174              | 12 629            | 32 741          | 73 351   | 2 561                               | 6 648                  | 54 562   |
|      | MOUNTAIN . . . . .                   | 26             | 4                                  | 301            | 1 406             | 263                | 511               | 1 133           | 1 781  | 51                                  | 419                    | 2 625  |
|      | COLORADO . . . . .                   | 18             | 3                                  | 220            | 990               | 195                | 377               | 826             | 1 238  | 34                                  | 307                    | 2 035  |
|      | PACIFIC . . . . .                    | 289            | 95                                 | 7 092          | 40 986            | 5 911              | 12 118            | 31 608          | 71 570   | 2 510                               | 6 229                  | 51 937   |
|      | WASHINGTON . . . . .                 | 15             | 2                                  | 140            | 902               | 122                | 260               | 757             | 1 434  | 96                                  | (D)                    | (D)  |
|      | OREGON . . . . .                     | 17             | 4                                  | 270            | 1 529             | 245                | 485               | 1 407           | 2 883  | 122                                 | (D)                    | (D)  |
|      | CALIFORNIA . . . . .                 | 257            | 89                                 | 6 682          | 38 555            | 5 544              | 11 373            | 29 444          | 67 253   | 2 292                               | 5 941                  | 50 207   |
| 339  | PRIMARY METAL INDUSTRIES, NEC, TOTAL | 1 060          | 426                                | 57 570         | 402 124           | 45 365             | 93 038            | 296 170         | 658 930  | 35 721                              | 52 183                 | 443 344  |
|      | NORTHEAST . . . . .                  | 318            | 120                                | 14 453         | 94 308            | 11 018             | 22 501            | 65 937          | 152 772  | 6 995                               | 16 505                 | 127 496  |
|      | MASSACHUSETTS . . . . .              | 30             | 17                                 | 4 316          | 30 406            | 3 111              | 6 432             | 20 653          | 38 356   | 1 717                               | 3 900                  | 32 291   |
|      | RHODE ISLAND . . . . .               | 14             | 3                                  | 233            | 1 094             | 185                | 348               | 774             | 1 972  | 97                                  | (D)                    | (D)  |
|      | CONNECTICUT . . . . .                | 49             | 12                                 | 1 180          | 7 785             | 888                | 1 910             | 5 166           | 15 250   | 1 002                               | 1 513                  | 12 276   |
|      | NEW YORK . . . . .                   | 72             | 28                                 | 2 362          | 14 638            | 1 873              | 3 801             | 10 714          | 22 892   | 1 254                               | 4 236                  | 24 395   |
|      | NORTH CENTRAL . . . . .              | 476            | 218                                | 34 923         | 252 081           | 28 303             | 57 457            | 192 568         | 400 943  | 21 751                              | 30 682                 | 266 214  |
|      | EAST NORTH CENTRAL . . . . .         | 435            | 205                                | 34 119         | 247 725           | 27 654             | 56 146            | 189 472         | 393 672  | 21 064                              | 30 324                 | 262 826  |
|      | OHIO . . . . .                       | 131            | 56                                 | 9 137          | 66 554            | 7 411              | 15 223            | 51 597          | 99 363   | 6 173                               | 8 342                  | 64 453   |
|      | INDIANA . . . . .                    | 41             | 16                                 | 4 219          | 29 020            | 3 530              | 7 162             | 22 948          | 49 470   | 3 026                               | 3 119                  | 26 877   |
|      | ILLINOIS . . . . .                   | 93             | 49                                 | 6 540          | 47 778            | 5 340              | 10 599            | 35 707          | 79 416   | 3 334                               | 5 932                  | 55 902   |
|      | MICHIGAN . . . . .                   | 145            | 70                                 | 7 887          | 59 285            | 6 479              | 13 828            | 45 099          | 99 143   | 4 069                               | 6 250                  | 57 916   |
|      | WISCONSIN . . . . .                  | 25             | 14                                 | 6 336          | 45 088            | 4 894              | 9 334             | 34 121          | 66 280   | 4 462                               | 6 681                  | 57 678   |
|      | WEST NORTH CENTRAL . . . . .         | 41             | 13                                 | 804            | 4 356             | 649                | 1 291             | 3 096           | 7 271  | 687                                 | 358                    | 3 388  |
|      | MINNESOTA . . . . .                  | 14             | 5                                  | 265            | 1 601             | 204                | 407               | 1 085           | 2 580  | 452                                 | 134                    | 1 567  |
|      | MISSOURI . . . . .                   | 13             | 7                                  | 414            | 2 142             | 344                | 702               | 1 593           | 3 738  | 185                                 | 148                    | 1 197  |
|      | SOUTH . . . . .                      | 100            | 38                                 | 4 328          | 28 265            | 3 145              | 6 958             | 18 689          | 48 430   | 3 125                               | 1 646                  | 15 767   |
|      | SOUTH ATLANTIC . . . . .             | 34             | 4                                  | 265            | 1 320             | 201                | 419               | 922             | 2 142  | 173                                 | 169                    | 1 301  |
|      | EAST SOUTH CENTRAL . . . . .         | 19             | 8                                  | 650            | 4 005             | 553                | 1 135             | 3 046           | 10 522   | 527                                 | 470                    | 4 615  |
|      | TENNESSEE . . . . .                  | 11             | 4                                  | 382            | 2 226             | 333                | 700               | 1 653           | 5 835  | 288                                 | (D)                    | (D)  |
|      | WEST SOUTH CENTRAL . . . . .         | 47             | 26                                 | 3 413          | 22 940            | 2 391              | 5 404             | 14 721          | 35 766   | 2 425                               | 1 007                  | 9 851  |
|      | TEXAS . . . . .                      | 35             | 22                                 | 3 111          | 21 315            | 2 177              | 4 943             | 13 742          | 32 980   | 2 292                               | 771                    | 7 609  |
|      | WEST . . . . .                       | 166            | 50                                 | 3 866          | 27 470            | 2 899              | 6 142             | 18 970          | 51 756   | 3 798                               | 3 350                  | 32 290   |
|      | MOUNTAIN . . . . .                   | 11             | 4                                  | 208            | 1 251             | 183                | 368               | 1 001           | 2 862  | 179                                 | 18                     | 443  |
|      | PACIFIC . . . . .                    | 155            | 46                                 | 3 658          | 26 219            | 2 716              | 5 774             | 17 969          | 48 894   | 3 619                               | 3 332                  | 31 847   |
|      | CALIFORNIA . . . . .                 | 143            | 45                                 | 3 566          | 25 606            | 2 644              | 5 627             | 17 486          | 47 969   | 3 447                               | 3 108                  | 29 902   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (Z) Not applicable.  
 1 This industry group consists of a single 4-digit industry. Detailed data by State are included in the 4-digit industry tables.

TABLE 3. Detailed Statistics: 1963

| Item   | Primary metal industries (SIC 33) | Steel rolling and finishing (SIC 331) | Iron and steel foundries (SIC 332) | Primary nonferrous metal (SIC 333) | Secondary nonferrous metals (SIC 334) | Nonferrous rolling and drawing (SIC 335) | Nonferrous foundries (SIC 336) | Primary metal industries, n.e.c. (SIC 339) |
|--|-----------------------------------|---------------------------------------|------------------------------------|------------------------------------|---------------------------------------|--|--------------------------------|--|
| ESTABLISHMENTS, TOTAL . . . . . NUMBER . .                           | 6 513                             | 746                                   | 1 487                              | 119                                | 459                                   | 748                                      | 1 894                          | 1 060                                      |
| WITH 1 TO 19 EMPLOYEES . . . . . DO . .                              | 2 930                             | 153                                   | 429                                | 10                                 | 280                                   | 209                                      | 1 215                          | 634  |
| WITH 20 TO 99 EMPLOYEES . . . . . DO . .                             | 2 005                             | 180                                   | 592                                | 19                                 | 136                                   | 223                                      | 540                            | 315  |
| WITH 100 EMPLOYEES OR MORE . . . . . DO . .                          | 1 578                             | 413                                   | 466                                | 90                                 | 43                                    | 316                                      | 139                            | 111  |
| PROPRIETORS AND WORKING PARTNERS . . . . . DO . .                    | 1 916                             | 56                                    | 440                                | 3                                  | 174                                   | 92                                       | 863                            | 288  |
| ALL EMPLOYEES (AVERAGE FOR THE YEAR) . . . . . DO . .                | 1 126 536                         | 568 849                               | 1 99 635                           | 48 789                             | 15 445                                | 167 005                                  | 69 243                         | 57 570                                     |
| PAYROLL (ALL EMPLOYEES), TOTAL FOR YEAR \$1,000 . .                  | 7 734 129                         | 4 167 859                             | 1 233 624                          | 327 814                            | 96 302                                | 1 094 356                                | 412 050                        | 402 124                                    |
| PRODUCTION WORKERS:  |                                   |                                       |                                    |                                    |                                       |  |                                |  |
| AVERAGE FOR THE YEAR . . . . . NUMBER . .                            | 922 160                           | 466 263                               | 170 699                            | 39 652                             | 11 336                                | 130 419                                  | 58 426                         | 45 365                                     |
| MARCH . . . . . DO . .   | 897 355                           | 446 789                               | 168 889                            | 38 195                             | 11 212                                | 129 143                                  | 57 968                         | 45 159                                     |
| MAY . . . . . DO . .   | 947 080                           | 489 698                               | 171 514                            | 39 225                             | 11 343                                | 131 824                                  | 58 223                         | 45 253                                     |
| AUGUST . . . . . DO . .  | 942 887                           | 488 066                               | 168 329                            | 40 409                             | 11 319                                | 131 204                                  | 58 390                         | 45 170                                     |
| NOVEMBER . . . . . DO . .  | 901 545                           | 440 788                               | 174 065                            | 40 770                             | 11 449                                | 129 472                                  | 59 123                         | 45 878                                     |
| MAN-HOURS . . . . . \$1,000 . .                                      | 1 838 970                         | 901 989                               | 348 180                            | 80 832                             | 23 779                                | 271 348                                  | 119 804                        | 93 038                                     |
| JANUARY-MARCH . . . . . DO . .                                       | 448 731                           | 218 094                               | 84 504                             | 19 502                             | 5 847                                 | 67 748                                   | 29 875                         | 23 161                                     |
| APRIL-JUNE . . . . . DO . .  | 488 207                           | 248 160                               | 89 848                             | 20 127                             | 6 007                                 | 69 611                                   | 30 364                         | 24 090                                     |
| JULY-SEPTEMBER . . . . . DO . .                                      | 444 780                           | 217 527                               | 84 034                             | 20 268                             | 5 836                                 | 65 935                                   | 29 207                         | 21 975                                     |
| OCTOBER-DECEMBER . . . . . DO . .                                    | 457 317                           | 218 238                               | 89 794                             | 20 939                             | 6 089                                 | 68 087                                   | 30 358                         | 23 812                                     |
| WAGES . . . . . \$1,000 . .  | 5 933 628                         | 3 225 011                             | 989 212                            | 251 432                            | 60 510                                | 793 596                                  | 317 697                        | 296 170                                    |
| COST OF MATERIALS, ETC., TOTAL <sup>1</sup> . . . . . DO . .         | 20 474 219                        | 10 570 536                            | 1 214 194                          | 2 059 812                          | 823 132                               | 4 570 495                                | 578 149                        | 657 901                                    |
| MATERIALS, PARTS, CONTAINERS, AND SUPPLIES CONSUMED . . . . . DO . . | 18 345 144                        | 9 463 418                             | 994 655                            | 1 838 041                          | 676 580                               | 4 309 017                                | 498 683                        | 564 750                                    |
| COST OF REALES . . . . . DO . .                                      | 495 022                           | 152 367                               | 49 091                             | 10 289                             | 125 853                               | 123 977                                  | 10 653                         | 22 792                                     |
| FUELS CONSUMED . . . . . DO . .                                      | 870 929                           | 620 214                               | 82 635                             | 69 095                             | 10 081                                | 43 083                                   | 14 952                         | 31 269                                     |
| ELECTRIC ENERGY:   |                                   |                                       |                                    |                                    |                                       |  |                                |  |
| PURCHASED:   |                                   |                                       |                                    |                                    |                                       |  |                                |  |
| QUANTITY . . . . . MILLION KW.-HRS. . .                              | 76 470                            | 31 336                                | 4 026                              | 32 359                             | 320                                   | 6 130                                    | 1 042                          | 1 257                                      |
| COST . . . . . \$1,000 . .   | 531 309                           | 265 966                               | 48 524                             | 123 366                            | 4 167                                 | 58 983                                   | 13 154                         | 17 149                                     |
| GENERATED LESS SOLD . . . . . MILLION KW.-HRS. . .                   |                                   |                                       |                                    |                                    |                                       |  |                                |  |
|  | 28 156                            | 10 031                                | 23                                 | (0)                                | -                                     | 121                                      | (0)                            | (0)  |
| CONTRACT WORK . . . . . \$1,000 . .                                  | 235 030                           | 71 786                                | 39 289                             | 19 021                             | 6 451                                 | 35 435                                   | 41 107                         | 21 941                                     |
| VALUE OF SHIPMENTS (INCLUDING REALES):                               |                                   |                                       |                                    |                                    |                                       |  |                                |  |
| TOTAL <sup>1</sup> . . . . . DO . .                                  | 35 621 458                        | 19 146 114                            | 3 173 520                          | 3 094 219                          | 1 045 522                             | 6 612 870                                | 1 230 458                      | 1 318 755                                  |
| VALUE OF REALES . . . . . DO . .                                     | 581 943                           | 181 131                               | 55 032                             | 17 721                             | 139 311                               | 138 473                                  | 14 741                         | 24 106                                     |
| VALUE ADDED BY MANUFACTURE, ADJUSTED . . . . . DO . .                | 15 261 089                        | 8 617 266                             | 1 959 949                          | 1 012 581                          | 228 190                               | 2 127 688                                | 656 485                        | 658 930                                    |
| MANUFACTURERS' INVENTORIES:  |                                   |                                       |                                    |                                    |                                       |  |                                |  |
| BEGINNING OF YEAR, TOTAL . . . . . DO . .                            | 6 014 043                         | 3 652 558                             | 322 581                            | 450 169                            | 123 983                               | 1 184 554                                | 97 594                         | 182 604                                    |
| FINISHED PRODUCTS . . . . . DO . .                                   | 1 722 432                         | 1 019 022                             | 101 371                            | 163 656                            | 58 429                                | 335 071                                  | 19 600                         | 25 283                                     |
| WORK-IN-PROCESS . . . . . DO . .                                     | 1 794 362                         | 848 431                               | 85 914                             | 175 544                            | 34 217                                | 547 906                                  | 35 407                         | 66 943                                     |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO . .                       | 2 497 250                         | 1 785 106                             | 135 296                            | 110 969                            | 31 337                                | 301 577                                  | 42 587                         | 90 378                                     |
| END OF YEAR, TOTAL . . . . . DO . .                                  | 6 057 254                         | 3 612 137                             | 317 985                            | 424 709                            | 143 083                               | 1 275 494                                | 102 852                        | 180 994                                    |
| FINISHED PRODUCTS . . . . . DO . .                                   | 1 739 440                         | 1 024 850                             | 106 243                            | 115 659                            | 66 341                                | 379 742                                  | 21 113                         | 25 492                                     |
| WORK-IN-PROCESS . . . . . DO . .                                     | 1 893 725                         | 886 091                               | 81 665                             | 201 715                            | 32 105                                | 588 572                                  | 38 070                         | 65 507                                     |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO . .                       | 2 424 089                         | 1 701 196                             | 130 077                            | 107 335                            | 44 637                                | 307 180                                  | 43 669                         | 89 995                                     |
| EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DO . .                   |                                   |                                       |                                    |                                    |                                       |  |                                |  |
| NEW, TOTAL . . . . . DO . .  | 1 498 380                         | 997 652                               | 115 151                            | 89 073                             | 18 982                                | 201 014                                  | 34 003                         | 42 505                                     |
| NEW STRUCTURES AND ADDITIONS TO PLANT . . . . . DO . .               | 1 446 303                         | 974 367                               | 108 938                            | 87 439                             | 17 891                                | 191 376                                  | 30 571                         | 35 721                                     |
| NEW MACHINERY AND EQUIPMENT . . . . . DO . .                         | 386 988                           | 291 528                               | 16 127                             | 34 486                             | 5 324                                 | 27 213                                   | 6 280                          | 6 030                                      |
| USED PLANT AND EQUIPMENT . . . . . DO . .                            | 1 059 315                         | 682 839                               | 92 811                             | 52 953                             | 12 567                                | 164 163                                  | 24 291                         | 29 691                                     |
| SELECTED OPERATING RATIOS:   |                                   |                                       |                                    |                                    |                                       |  |                                |  |
| PAYROLL/TOTAL EMPLOYMENT . . . . .                                   | 6 865                             | 7 327                                 | 6 179                              | 6 719                              | 6 235                                 | 6 553                                    | 5 951                          | 6 985                                      |
| PRODUCTION WORKERS/TOTAL EMPLOYMENT . . . . .                        | .82                               | .82                                   | .86                                | .81                                | .73                                   | .78                                      | .84                            | .79  |
| MAN-HOURS/PRODUCTION WORKERS . . . . .                               | 1 994                             | 1 935                                 | 2 040                              | 2 039                              | 2 098                                 | 2 081                                    | 2 051                          | 2 051                                      |
| PRODUCTION WORKER WAGES/MAN-HOURS . . . . .                          | 3.23                              | 3.58                                  | 2.84                               | 3.11                               | 2.54                                  | 2.92                                     | 2.65                           | 3.18                                       |
| COST OF MATERIALS AND PAYROLLS/TOTAL VALUE OF SHIPMENTS . . . . .    | .79                               | .77                                   | .77                                | .77                                | .88                                   | .86                                      | .80                            | .80  |
| COST OF MATERIALS/TOTAL VALUE OF SHIPMENTS . . . . .                 | .57                               | .55                                   | .38                                | .67                                | .79                                   | .69                                      | .47                            | .50  |
| ADJUSTED VALUE ADDED/TOTAL EMPLOYMENT . . . . .                      | 13 547                            | 15 149                                | 9 818                              | 20 754                             | 14 760                                | 12 740                                   | 9 481                          | 11 446                                     |
| SALARIES AND WAGES/ADJUSTED VALUE ADDED . . . . .                    | .51                               | .48                                   | .63                                | .32                                | .42                                   | .51                                      | .63                            | .61  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.  
<sup>1</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.



## BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3312—Blast Furnaces (Including Coke Ovens), Steel Works, and Rolling Mills
- 3313—Electrometallurgical Products
- 3315—Steel Wire Drawing and Steel Nails and Spikes
- 3316—Cold Rolled Sheet, Strip, and Bars
- 3317—Steel Pipe and Tubes

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3312—BLAST FURNACES (INCLUDING COKE OVENS), STEEL WORKS, AND ROLLING MILLS

This industry comprises establishments primarily engaged in manufacturing hot metal, pig iron, silvery pig iron, and ferroalloys from iron ore and iron and steel scrap; converting pig iron, scrap iron, and scrap steel into steel; and in hot rolling iron and steel into basic shapes such as plates, sheets, strips, rods, bars, and tubing. Merchant blast furnaces and byproduct or beehive coke ovens are also included in this industry. For a detailed list of products of industry 3312, refer to table 6A, product codes 3312011 to 3312965.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Included in this industry are all establishments engaged in the manufacture of blast furnace ferroalloys. However, establishments which manufacture ferro or nonferrous additive alloys by electrometallurgical process are classified in industry 3313, Electrometallurgical Products. Also, establishments which draw wire from purchased rod and bar; establishments which perform only cold rolling, drawing, or finishing operations; and establishments which produce welded, seamless, and heavy riveted pipe from purchased materials are not included in industry 3312, but are included in industry 3315, Steel Wire Drawing, Etc.; industry 3316, Cold Finishing of Steel Shapes; and industry 3317, Steel Pipe and Tube, respectively.

Total cost of materials and the total value of shipments in industry 3312 include extensive duplication resulting from the use of the products of some establishments as materials by others. Some quantities of coke are transferred to blast furnaces which have no affiliated coke ovens, and considerable quantities of pig iron are transferred from blast furnaces to partially integrated mills. In addition, steel ingots, semifinished shapes, and finished shapes and forms are transferred from one establishment to another for further processing. The value of such shipments appears twice in the total value of shipments; and a corresponding duplication enters into the total cost of materials, etc. This duplication does not exist in the data on value added by manufacture.

As a means of developing a net value of shipments figure, the cost of steel shapes received by establishments in industry 3312 was collected as a separate materials consumed item, and, as shown in table 7A, totaled approximately \$1.68 billion. In addition, the cost of pig iron consumed in this industry totaled approximately \$0.38 billion. Also, the cost of coke used as a fuel in this industry totaled \$0.22 billion. On this basis, the value of materials shipped or transferred between plants within this industry totaled approximately \$2.28 billion. Subtracting this value from the total value of shipments of approximately \$16.61 billion gives a net value (excluding duplication) of \$14.33 billion. A similar adjustment to the total cost of materials, supplies, etc., figure provides a net cost figure of \$5,924 million. Adjusting the cost of fuels on this same basis provides a net cost of fuels of \$360 million.

As stated in the opening paragraph above, this industry includes a variety of operations ranging from coke ovens through steel producing facilities to fabricating activities. Accordingly, in order to provide a measure of the relative importance of these departments data were collected on man-hours worked and production worker wages paid for each of several departments. The resulting data are shown in table 9A.

Also, based on the data for these various departmental operations it was possible to further classify the establishments of this industry into four subindustries, i.e., fully integrated establishments, partially integrated establishments with blast furnaces, partially integrated establishments without blast furnaces, and nonintegrated establishments. For purposes of this classification system an establishment was defined as follows: fully integrated if the establishment consisted of coke ovens, blast furnaces, steel furnaces, and rolling and finishing mills; partially integrated establishment with blast furnaces if the establishment consisted of blast furnaces, steel furnaces, and rolling and finishing mills; partially integrated establishment without blast furnaces if the establishment consisted of steel furnaces and either rolling and finishing mills or a forging department; nonintegrated for all other establishments including beehive coke ovens, byproduct coke ovens operated independently of blast furnaces and steel departments, merchant blast furnaces and establishments with hot rolling and finishing operations.

In a few cases, operations which are in fact fully integrated are classified as partially integrated or nonintegrated because separate reports were collected either because the operations are conducted in different cities or counties, or the company treats the operations separately for their own administrative reasons.

The subindustry data shown in tables 1, 2, 3, 4, 5B, 7A, 8, and 9 are based on this system of classification.

The 1963 census obtained data on shipments of steel mill shapes at broad product class levels only. This is the source of the data in table 6A described "As reported in census of manufactures." More detailed product data were obtained on Annual Survey Form MA-33B, and published in Current Industrial Reports Series M33B, Steel Mill Products. These data are shown in tables 6A-2 and 6A-3.



Annual Survey Form MA-33B obtained data on the total production of steel at three broad levels of output: ingots; semifinished shapes and forms (blooms, billets, wire rods, skelp, etc.); and finished mill shapes and forms. For each of these groups, the steel mills were requested to report production in the form in which the shape (a) passed from one group to the next, (b) was shipped from the establishment, or (c) was consumed in the establishment in the manufacture of fabricated products. The production figures shown in tables 6A-2 and 6A-3 include data on production derived from this method of reporting. Production figures shown for ingots represent the total production of ingots. Production figures shown for finished shapes and forms are the tonnages of these shapes produced at the steel mill for shipments (either outside the steel industry, or to other steel mills) or for consumption in the manufacture of fabricated products. The production of all semifinished shapes and forms combined represent total production of semifinished shapes and forms for sale and transfer and also for use in the same plant in the manufacture of either other steel mill shapes or fabricated products.

Net shipments of steel products (as derived from Survey Form MA-33B) including both the shipments to establishments outside the steel industry and the amounts consumed in the steel mills in the production of fabricated products and for maintenance, repair, and operating supplies, are shown in table 6A-4.

The figures on steel mill shapes shown in tables 6A-1 to 6A-4 include the manufacture of these products in separate cold rolling and drawing establishments, wire drawing plants, and pipe mills as well as steel mills. The receipts of steel at these plants have been taken into account in deriving the net shipment figures shown in table 6A-4.

While the primary products of the industry include a broad range of products, the establishments tend to group themselves into specific product classes within the industry. The extent of this specialization is indicated in table 8. Approximately 32 percent in hot rolled bars and bar shapes, plates, structural shapes, and piling, and 27 percent of the total value added by manufacture are represented by plants specializing in hot rolled sheet and strip, including tin mill products.

Data on shipments of pig iron, by grade, are published by the Bureau of Mines in its Minerals Yearbook. These data are reprinted in table 6A-5 and differ from the data reported in the census in that they include the tonnages of pig iron produced and consumed in the same establishment. Other differences of minor consequence also exist.

The production index for the primary products of the industry increased to 118 in 1963 from the 1958 level of 95. The unit value index for 1963 was 120 compared to 123 in 1958. Both indexes were computed on a basis of 1954 = 100.

### 3313—ELECTROMETALLURGICAL PRODUCTS

This industry comprises establishments primarily engaged in manufacturing ferro and nonferrous additive alloys by electrometallurgical processes, including high percentage ferroalloys and high percentage nonferrous additive alloys. For a detailed list of products of industry 3313, refer to table 6A, product codes 3313111 to 3313498.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Electrometallurgical Products Industry totaled \$382 million. This amount included shipments of electrometallurgical products (primary products) valued at \$317 million.

This industry's shipments of electrometallurgical products represented 85 to 90 percent of its total product shipments. The industry specialization ratio in 1958 was 91 percent.

Shipments of electrometallurgical products by this industry represented 77 percent of all shipments of these products (\$412 million) by all industries. In 1958 the coverage ratio was 76 percent. Other industries shipping electrometallurgical products consisted mainly of industry 3312, Blast Furnaces and Steel Mills, \$69 million.

The production index for the primary products of the industry increased to 126 in 1963 from the 1958 level of 105. The unit value index for 1963 was 89 compared to 117 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3315—STEEL WIRE DRAWING AND STEEL NAILS AND SPIKES

This industry comprises establishments primarily engaged in drawing wire from purchased iron or steel rods, bars, or wire and which may be engaged in the further manufacture of products made from wire; and those primarily engaged in manufacturing steel nails and spikes from purchased material. Rolling mills engaged in the production of ferrous wire from wire rods or hot rolled bars produced in the same establishment are classified in industry 3312. Establishments primarily engaged in drawing nonferrous wire are classified in Group 335. For a detailed list of products of industry 3315, refer to table 6A, product codes 3315111 to 3315998.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Steel Wire Drawing, Etc., Industry totaled \$592 million. This amount included shipments of steel wire and fabricated wire products (primary products) valued at \$509 million, shipments of other products (secondary products) valued at \$62 million, and miscellaneous receipts at \$22 million.

This industry's shipments of steel wire and fabricated wire products represented 89 percent of its total product shipments. The industry specialization ratio in 1958 was 88 percent.

Shipments of steel wire and fabricated wire products by this industry represented 30 percent of all shipments of these products (\$1,672 million) by all industries. In 1958 the coverage ratio was 26 percent. Other industries shipping steel wire and fabricated wire products consisted mainly of industry 3312, Blast Furnaces and Steel Mills, \$626 million; and industry 3481, Fabricated Wire Products, N.E.C., \$463 million.

The production index for the primary products of the industry increased to 99 in 1963 from the 1958 level of 94. The unit value index for 1963 was 123 compared to 122 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3316—COLD ROLLED SHEET, STRIP, AND BARS

This industry comprises establishments primarily engaged in (1) cold rolling steel sheets and strip from purchased hot rolled sheets; (2) cold drawing steel bars and steel shapes from purchased hot rolled steel bars; and (3) producing other cold finished steel. Establishments primarily engaged in the production of steel, including hot rolled steel sheets, and further cold rolling such sheets are classified in industry 3312. For a detailed list of products of industry 3316, refer to table 6A, product codes 3316701 to 3316801.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Cold Finishing of Steel Shapes Industry totaled \$752 million. This amount included shipments of cold rolled sheet, strip, and bars (primary products) valued at \$661 million, shipments of other products (secondary products) valued at \$43 million, and miscellaneous receipts (mainly resales) at \$47 million.



This industry's shipments of cold rolled sheet, strip, and bars represented 94 percent of its total product shipments. The industry specialization ratio in 1958 was 95 percent.

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 63 percent of the total industry shipments are represented by plants specializing in product class 33167, Cold rolled sheet and strip.

Shipments of cold rolled sheet, strip, and bars by this industry represented 20 percent of all shipments of these products (\$3,333 million) by all industries. In 1958 the coverage ratio was 18 percent. Other industries shipping cold rolled sheet, strip, and bars consisted mainly of industry 3312, Blast Furnaces and Steel Mills, \$2,647 million.

The production index for the primary products of the industry increased to 138 in 1963 from the 1958 level of 103. The unit value index for 1963 was 126 compared to 125 in 1958. Both indexes were computed on a basis of 1954 = 100.

### 3317—STEEL PIPE AND TUBES

This industry comprises establishments primarily engaged in the production of welded or seamless steel pipe and tubes and heavy riveted steel pipe from purchased materials. Establishments primarily engaged in the production of steel, including steel skelp or steel blanks, tube rounds, or pierced billets are classified in industry 3312.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Steel Pipe and Tube Industry totaled \$809 million. This amount included shipments of steel pipe and tube (primary products) valued at \$707 million, shipments of other products (secondary products) valued at \$73 million, and miscellaneous receipts (mainly resales) at \$28 million.

This industry's shipments of steel pipe and tube represented 91 percent of its total product shipments. The industry specialization ratio in 1958 was 92 percent.

Shipments of steel pipe and tube by this industry represented 37 percent of all shipments of these products (\$1,887 million) by all industries. In 1958 the coverage ratio was 40 percent. Other industries shipping steel pipe and tube consisted mainly of industry 3312, Blast Furnaces and Steel Mills, \$1,137 million.

The production index for the primary products of the industry increased to 99 in 1963 from the 1958 level of 90. The unit value index for 1963 was 120 compared to 127 in 1958. Both indexes were computed on a basis of 1954 = 100.

# STEEL ROLLING AND FINISHING: SIC 331

Value Added by Manufacture by State: 1963

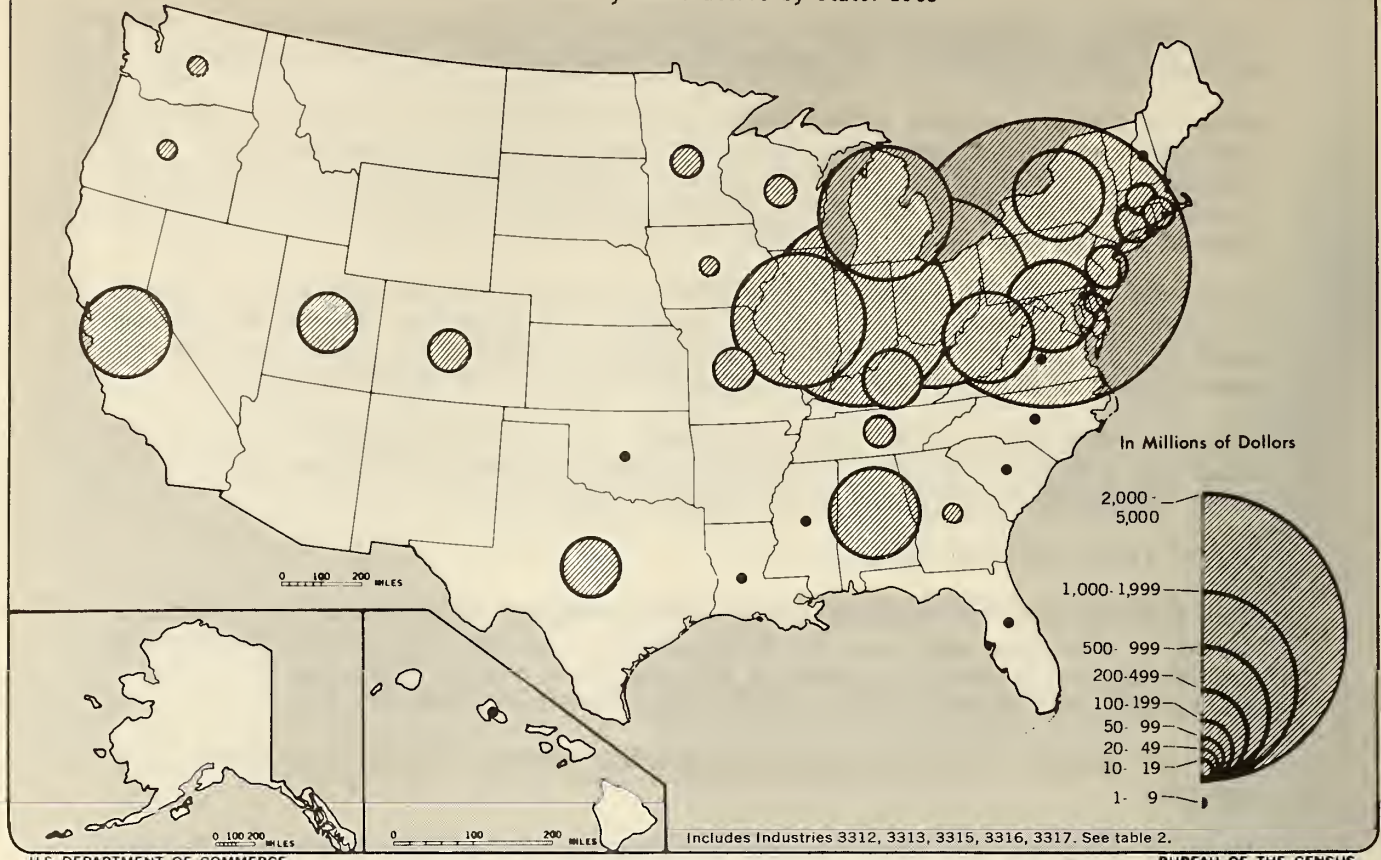




TABLE 1. General Statistics: 1963 and Earlier Years

| Year   | Compan-<br>ies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new <sup>1</sup><br>(\$1,000) | Spec-<br>ial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|--|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |  |   |  |
| INDUSTRY 3312.—BLAST FURNACES AND STEEL MILLS                  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |  |   |  |
| 1963.....  | 161                        | 288               | 247  | 500,550           | 3,711,639            | 412,311            | 791,364              | 2,892,006          | 7,699,535  | <sup>2</sup> 8,958,663            | <sup>2</sup> 16,611,083            | 908,440  | (NA)  | (NA)                                     |
| 1962 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 502,202           | 3,612,064            | 406,627            | 764,643              | 2,753,197          | 6,620,897  | <sup>2</sup> 8,698,774            | <sup>2</sup> 15,571,583            | 707,767  | (NA)  | (NA)                                     |
| 1961 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 503,417           | 3,523,170            | 409,098            | 767,626              | 2,670,185          | 6,546,304  | <sup>2</sup> 8,529,911            | <sup>2</sup> 14,873,318            | 805,462  | (NA)  | (NA)                                     |
| 1960 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 549,956           | 3,629,384            | 449,616            | 831,797              | 2,777,234          | 6,844,374  | <sup>2</sup> 8,917,313            | <sup>2</sup> 15,738,776            | 1,190,707  | (NA)  | (NA)                                     |
| 1959 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 507,540           | 3,448,374            | 419,385            | 776,515              | 2,636,672          | 6,823,398  | <sup>2</sup> 8,533,145            | <sup>2</sup> 15,628,664            | 669,266  | (NA)  | (NA)                                     |
| 1958.....  | 148                        | 291               | 260  | 511,392           | 3,183,483            | 417,216            | 765,941              | 2,415,959          | 6,062,227  | <sup>2</sup> 7,472,015            | <sup>2</sup> 13,422,585            | 959,033  | (NA)  | (NA)                                     |
| 1957 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 616,792           | 3,645,252            | 513,039            | 990,837              | 2,886,108          | 7,204,822  | <sup>2</sup> 10,553,000           | <sup>2</sup> 17,614,000            | 1,423,609  | (NA)  | (NA)                                     |
| 1956 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 644,499           | 3,475,508            | 545,534            | 1,042,231            | 2,806,705          | 7,135,612  | <sup>2</sup> 10,515,000           | <sup>2</sup> 17,523,000            | 1,098,027  | (NA)  | (NA)                                     |
| 1955 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 621,540           | 3,269,732            | 527,524            | 1,059,870            | 2,659,921          | 6,773,325  | <sup>2</sup> 9,558,000            | <sup>2</sup> 16,345,000            | 572,177  | (NA)  | (NA)                                     |
| 1954.....  | (NA)                       | (NA)              | (NA)   | 553,850           | 2,581,270            | 470,823            | 883,057              | 2,059,515          | 5,055,409  | (NA)                              | (NA)                               | 580,530  | (NA)  | (NA)                                     |
| 1947.....  | (NA)                       | (NA)              | (NA)   | 568,915           | 1,804,157            | 499,709            | 1,006,733            | 1,516,321          | 2,844,595  | (NA)                              | (NA)                               | (NA)   | (NA)  | (NA)                                     |
| 1939.....  | (NA)                       | (NA)              | (NA)   | 460,128           | 749,129              | 410,134            | (NA)                 | 630,517            | 1,320,392  | (NA)                              | (NA)                               | (NA)   | (NA)  | (NA)                                     |
| 1937 <sup>5</sup> .....  | (NA)                       | (NA)              | (NA)   | (NA)              | (NA)                 | 481,721            | (NA)                 | 788,529            | 1,588,359  | (NA)                              | (NA)                               | (NA)   | (NA)  | (NA)                                     |
| 1929 <sup>5</sup> .....  | (NA)                       | (NA)              | (NA)   | (NA)              | (NA)                 | 400,389            | (NA)                 | 697,904            | 1,615,306  | (NA)                              | (NA)                               | (NA)   | (NA)  | (NA)                                     |
| 1963.....  | 161                        | 288               | 247  | 500,550           | 3,711,639            | 412,311            | 791,364              | 2,892,006          | 7,699,535  | <sup>2</sup> 8,958,663            | <sup>2</sup> 16,611,083            | 908,440  | (NA)  | (NA)                                     |
| Fully inte-<br>grated works <sup>6</sup>                       | (NA)                       | 34                | 34   | 268,642           | 2,001,950            | 221,899            | 425,369              | 1,573,019          | 4,426,518  | <sup>2</sup> 3,786,183            | <sup>2</sup> 8,192,193             | 431,448  | (NA)  | (NA)                                     |
| Partially<br>integrated<br>works:<br>With blast<br>furnaces... | (NA)                       | 12                | 12   | 53,262            | 394,522              | 44,944             | 84,406               | 314,388            | 847,471  | <sup>2</sup> 975,965              | <sup>2</sup> 1,804,266             | 219,478  | (NA)  | (NA)                                     |
| Without<br>blast<br>furnaces...                                | (NA)                       | 80                | 80   | 112,025           | 839,299              | 90,704             | 177,857              | 637,170            | 1,574,020  | <sup>2</sup> 1,821,510            | <sup>2</sup> 3,380,122             | 101,300  | (NA)  | (NA)                                     |
| Nonintegrated<br>works <sup>6</sup> .....                      | (NA)                       | 162               | 121  | 66,621            | 475,868              | 54,764             | 103,732              | 367,429            | 851,526  | <sup>2</sup> 2,375,005            | <sup>2</sup> 3,234,502             | 156,214  | (NA)  | (NA)                                     |
| 1958.....  | 148                        | 291               | 260  | 511,392           | 3,183,483            | 417,216            | 765,941              | 2,415,959          | 6,062,227  | 7,472,015                         | 13,422,585                         | 959,033  | (NA)  | (NA)                                     |
| Fully inte-<br>grated works <sup>6</sup>                       | (NA)                       | 37                | 37   | 272,859           | 1,692,810            | 255,585            | 414,645              | 1,312,044          | 3,410,478  | (NA)                              | (NA)                               | 446,185  | (NA)  | (NA)                                     |
| Partially<br>integrated<br>works <sup>6</sup> .....            | (NA)                       | 93                | 93   | 164,274           | 1,029,942            | 131,806            | 241,046              | 759,276            | 1,768,571  | (NA)                              | (NA)                               | 386,134  | (NA)  | (NA)                                     |
| Nonintegrated<br>works <sup>6</sup> .....                      | (NA)                       | 161               | 130  | 74,259            | 460,731              | 59,825             | 110,250              | 344,639            | 883,178  | (NA)                              | (NA)                               | 117,737  | (NA)  | (NA)                                     |
| INDUSTRY 3313.—ELECTROMETALLURGICAL PRODUCTS                   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |  |   |  |
| 1963.....  | 20                         | 36                | 30   | 10,437            | 68,880               | 8,155              | 16,563               | 50,767             | 145,503  | 227,977                           | 382,132                            | 13,412   | 85-90   | 77                                       |
| 1962 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 10,954            | 72,450               | 8,345              | 17,488               | 51,516             | 160,897  | 231,519                           | 386,440                            | 15,891   | (NA)  | (NA)                                     |
| 1961 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 11,075            | 70,257               | 8,423              | 16,955               | 48,998             | 146,885  | 231,636                           | 399,563                            | 8,971  | (NA)  | (NA)                                     |
| 1960 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 12,544            | 76,062               | 9,305              | 18,378               | 52,479             | 145,278  | 242,395                           | 380,726                            | 17,185   | (NA)  | (NA)                                     |
| 1959 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 13,337            | 80,081               | 10,081             | 20,429               | 55,977             | 184,610  | 266,057                           | 456,846                            | 14,335   | (NA)  | (NA)                                     |
| 1958.....  | 19                         | 37                | 35   | 12,689            | 71,883               | 9,304              | 18,961               | 48,988             | 178,880  | 221,509                           | 399,122                            | 16,969   | 91  | 76                                       |
| 1957 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 15,491            | 83,256               | 12,053             | 24,249               | 59,598             | 208,264  | 280,824                           | 480,085                            | 22,315   | (NA)  | (NA)                                     |
| 1956 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 16,081            | 80,822               | 13,086             | 26,617               | 61,059             | 213,639  | 298,676                           | 491,681                            | 24,724   | (NA)  | (NA)                                     |
| 1955 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 14,161            | 66,302               | 11,626             | 23,443               | 50,306             | 176,422  | 227,935                           | 417,933                            | 24,495   | (NA)  | (NA)                                     |
| 1954.....  | 17                         | 31                | 29   | 11,361            | 51,332               | 8,834              | 17,614               | 36,895             | 118,785  | 157,957                           | 272,751                            | 22,313   | 92  | 68                                       |
| 1953 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 15,570            | 65,621               | 12,965             | (NA)                 | 51,476             | 145,209  | 255,948                           | 401,157                            | (NA)   | (NA)  | (NA)                                     |
| 1952 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 12,968            | 52,991               | 10,821             | (NA)                 | 41,496             | 107,452  | 204,965                           | 312,417                            | (NA)   | (NA)  | (NA)                                     |
| 1951 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 12,081            | 49,124               | 10,874             | (NA)                 | 39,338             | 124,990  | 182,317                           | 307,307                            | (NA)   | (NA)  | (NA)                                     |
| 1950 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 10,304            | 37,567               | 8,627              | (NA)                 | 28,699             | 115,885  | 126,275                           | 242,160                            | (NA)   | (NA)  | (NA)                                     |
| 1949 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 8,702             | 29,731               | 7,168              | (NA)                 | 22,630             | 67,305   | 86,831                            | 154,136                            | (NA)   | (NA)  | (NA)                                     |
| 1947.....  | 10                         | 19                | (NA)   | 9,628             | 29,285               | 8,175              | 16,678               | 23,449             | 55,493   | 95,411                            | 150,904                            | (NA)   | 88  | (NA)                                     |
| 1939 <sup>7</sup> .....  | (NA)                       | 18                | (NA)   | (NA)              | (NA)                 | 2,774              | (NA)                 | 4,234              | 15,868   | 25,119                            | 40,987                             | (NA)   | (NA)  | (NA)                                     |
| INDUSTRY 3315.—STEEL WIRE DRAWING, ETC.                        |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |  |   |  |
| 1963.....  | 171                        | 200               | 133  | 21,280            | 134,636              | 16,904             | 34,367               | 97,055             | 253,009  | 336,651                           | 592,263                            | 14,002   | 89  | 30                                       |
| 1962 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 19,826            | 126,454              | 15,491             | 30,847               | 90,625             | 224,688  | 296,143                           | 517,215                            | 14,895   | (NA)  | (NA)                                     |
| 1961 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 19,801            | 121,928              | 15,483             | 30,720               | 87,270             | 221,342  | 282,990                           | 500,339                            | 12,438   | (NA)  | (NA)                                     |
| 1960 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 20,566            | 122,066              | 16,725             | 31,950               | 86,932             | 218,466  | 284,722                           | 498,326                            | 12,778   | (NA)  | (NA)                                     |
| 1959 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 20,969            | 124,953              | 16,770             | 32,616               | 90,079             | 234,353  | 304,202                           | 536,165                            | 11,295   | (NA)  | (NA)                                     |
| 1958 <sup>8</sup> .....  | 151                        | 170               | 103  | 19,250            | 110,184              | 15,129             | 29,147               | 78,432             | 196,200  | 260,490                           | 452,062                            | 11,980   | 88  | 26                                       |
| INDUSTRY 3316.—COLD FINISHING OF STEEL SHAPES                  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |  |   |  |
| 1963.....  | 59                         | 81                | 68   | 13,700            | 99,557               | 10,623             | 21,833               | 71,527             | 223,977  | 529,954                           | 751,627                            | 14,925   | 94  | 20                                       |
| 1962 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 12,029            | 87,550               | 9,344              | 19,277               | 75,787             | 194,154  | 495,763                           | 690,238                            | (13,988)   | (NA)  | (NA)                                     |
| 1961 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 11,393            | 79,582               | 8,808              | 17,688               | 58,414             | 158,079  | 439,845                           | 597,614                            | 12,754   | (NA)  | (NA)                                     |
| 1960 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 12,439            | 83,171               | 9,754              | 19,254               | 62,167             | 173,492  | 472,189                           | 634,937                            | 13,095   | (NA)  | (NA)                                     |
| 1959 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 12,058            | 82,176               | 9,387              | 18,616               | 58,567             | 191,192  | 451,646                           | 645,646                            | 10,211   | (NA)  | (NA)                                     |
| 1958 <sup>4</sup> .....  | 58                         | 78                | 63   | 10,943            | 67,084               | 8,528              | 16,039               | 47,225             | 141,516  | 338,495                           | 477,824                            | 25,706   | 95  | 18                                       |
| 1954 <sup>7</sup> .....  | (NA)                       | 75                | (NA)   | 10,685            | 51,600               | 8,535              | 16,919               | 37,603             | (NA)   | (NA)                              | (NA)                               | 7,498  | (NA)  | (NA)                                     |

See footnotes at end of table.

TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year   | Compan-<br>ies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new <sup>1</sup><br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|---|-----------------------------------|------------------------------------|--|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                   |                                    |  |   |  |
| INDUSTRY 3317.—STEEL PIPE AND TUBE   |                            |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |  |   |  |
| 1963.....  | 114                        | 141               | 115  | 22,882            | 153,147              | 18,270             | 37,862               | 113,656            | 295,242   | 517,291                           | 809,009                            | 23,588   | 91  | 37                                       |
| 1962 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 25,003            | 163,488              | 19,543             | 38,973               | 116,198            | 311,083   | 582,398                           | 907,486                            | 26,027   | (NA)  | (NA)                                     |
| 1961 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 24,759            | 156,369              | 19,644             | 38,553               | 112,393            | 290,303   | 548,363                           | 825,563                            | 25,784   | (NA)  | (NA)                                     |
| 1960 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 26,210            | 160,020              | 20,858             | 40,567               | 114,681            | 322,227   | 588,419                           | 886,859                            | 22,347   | (NA)  | (NA)                                     |
| 1959 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 25,568            | 161,769              | 20,403             | 40,833               | 117,113            | 366,398   | 625,822                           | 981,452                            | 18,389   | (NA)  | (NA)                                     |
| 1958.....  | 112                        | 136               | 101  | 23,911            | 138,144              | 19,402             | 37,988               | 103,848            | 284,096   | 496,141                           | 780,684                            | 15,133   | 92  | 40                                       |
| 1957 <sup>3 4</sup> .....  | (NA)                       | (NA)              | (NA)   | 26,391            | 150,712              | 21,780             | 44,342               | 115,829            | 302,690   | 524,849                           | 815,857                            | 22,555   | 88  | 26                                       |
| 1956 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 25,719            | 140,865              | 21,346             | 44,599               | 109,436            | 293,155   | 477,406                           | 764,890                            | 15,898   | (NA)  | (NA)                                     |
| 1955 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 23,897            | 125,572              | 20,078             | 42,560               | 98,421             | 263,817   | 410,151                           | 661,699                            | 15,549   | (NA)  | (NA)                                     |
| 1954.....  | 78                         | 83                | 69   | 22,085            | 108,374              | 18,388             | 37,473               | 83,472             | 207,643   | 330,309                           | 535,772                            | 9,134  | 91  | 30                                       |
| 1953 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 26,535            | 133,624              | 22,170             | 45,768               | 103,210            | 238,306   | 374,726                           | 613,032                            | (NA)   | (NA)  | (NA)                                     |
| 1952 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 17,731            | 78,194               | 15,334             | 29,814               | 62,823             | 155,247   | 263,406                           | 418,653                            | (NA)   | (NA)  | (NA)                                     |
| 1951 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 19,524            | 81,554               | 16,983             | 33,867               | 65,964             | 189,327   | 308,454                           | 497,781                            | (NA)   | (NA)  | (NA)                                     |
| 1950 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 19,274            | 79,213               | 16,633             | 33,822               | 60,418             | 168,433   | 300,798                           | 469,231                            | (NA)   | (NA)  | (NA)                                     |
| 1949 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 18,323            | 71,015               | 15,580             | 30,640               | 54,273             | 138,712   | 235,857                           | 374,569                            | (NA)   | (NA)  | (NA)                                     |
| 1947.....  | (NA)                       | 52                | (NA)   | 15,711            | 52,651               | 13,517             | (NA)                 | 41,225             | 100,356   | 143,858                           | 244,214                            | (NA)   | (NA)  | (NA)                                     |
| 1939.....  | (NA)                       | 49                | (NA)   | 9,670             | 15,794               | 8,370              | (NA)                 | 12,306             | 34,008  | 41,857                            | 75,865                             | (NA)   | (NA)  | (NA)                                     |
| 1937.....  | (NA)                       | 53                | (NA)   | 15,267            | 22,690               | 14,125             | (NA)                 | 19,436             | 45,140  | 68,629                            | 113,769                            | (NA)   | (NA)  | (NA)                                     |
| 1935.....  | (NA)                       | 48                | (NA)   | 11,790            | 14,731               | 10,720             | (NA)                 | 11,793             | 31,564  | 42,285                            | 73,849                             | (NA)   | (NA)  | (NA)                                     |
| 1933.....  | (NA)                       | 44                | (NA)   | 7,269             | 6,890                | 6,552              | (NA)                 | 5,580              | 14,136  | 20,821                            | 34,957                             | (NA)   | (NA)  | (NA)                                     |
| 1931.....  | (NA)                       | 51                | (NA)   | (NA)              | (NA)                 | 8,045              | (NA)                 | 9,890              | 32,750  | 42,291                            | 75,041                             | (NA)   | (NA)  | (NA)                                     |
| 1929.....  | (NA)                       | 50                | (NA)   | 12,836            | 23,157               | 11,417             | (NA)                 | 18,762             | 54,538  | 70,121                            | 124,659                            | (NA)   | (NA)  | (NA)                                     |
| 1927.....  | (NA)                       | 44                | (NA)   | 12,194            | 19,580               | 11,083             | (NA)                 | 16,066             | 42,407  | 55,779                            | 98,186                             | (NA)   | (NA)  | (NA)                                     |
| 1925.....  | (NA)                       | 42                | (NA)   | 12,042            | 20,615               | 10,871             | (NA)                 | 17,157             | 35,554  | 59,142                            | 94,696                             | (NA)   | (NA)  | (NA)                                     |
| 1923.....  | (NA)                       | 53                | (NA)   | 11,713            | 20,670               | 10,633             | (NA)                 | 17,705             | 32,857  | 57,966                            | 90,823                             | (NA)   | (NA)  | (NA)                                     |
| 1921.....  | (NA)                       | 57                | (NA)   | 9,814             | 13,746               | 8,728              | (NA)                 | 11,234             | 19,569  | 37,093                            | 56,662                             | (NA)   | (NA)  | (NA)                                     |
| 1919.....  | (NA)                       | 50                | (NA)   | 11,770            | 17,775               | 10,426             | (NA)                 | 14,920             | 30,713  | 51,156                            | 81,869                             | (NA)   | (NA)  | (NA)                                     |
| 1914.....  | (NA)                       | 36                | (NA)   | 9,680             | 6,995                | 8,845              | (NA)                 | 5,750              | 11,359  | 26,296                            | 37,655                             | (NA)   | (NA)  | (NA)                                     |
| 1909.....  | (NA)                       | 28                | (NA)   | 7,292             | 4,620                | 6,817              | (NA)                 | 3,963              | 7,944   | 22,942                            | 30,886                             | (NA)   | (NA)  | (NA)                                     |
| 1904.....  | (NA)                       | 27                | (NA)   | 5,712             | 2,841                | 5,416              | (NA)                 | 2,473              | 4,654   | 12,747                            | 17,401                             | (NA)   | (NA)  | (NA)                                     |
| 1899.....  | (NA)                       | 19                | (NA)   | 5,729             | 2,672                | 5,536              | (NA)                 | 2,496              | 5,768   | 15,524                            | 21,292                             | (NA)   | (NA)  | (NA)                                     |
| INDUSTRY 3312 and 3323.—BLAST FURNACES, STEEL MILLS AND STEEL FOUNDRIES <sup>5</sup> |                            |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |  |   |  |
| 1963.....  | (NA)                       | 555               | 467  | 107,360           | 4,073,007            | 459,939            | 886,470              | 3,172,439          | 8,055,658   | 29,247,458                        | 217,289,029                        | 936,272  | (NA)  | (NA)                                     |
| 1962 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 552,708           | 3,915,264            | 451,831            | 848,416              | 2,989,180          | 7,105,149   | 28,948,456                        | 216,301,271                        | 731,336  | (NA)  | (NA)                                     |
| 1961 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 550,227           | 3,793,024            | 450,750            | 842,040              | 2,874,596          | 6,957,113   | 28,754,959                        | 215,502,963                        | 828,321  | (NA)  | (NA)                                     |
| 1960 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 600,763           | 3,917,457            | 494,839            | 913,613              | 2,996,987          | 7,283,473   | 29,166,023                        | 216,439,264                        | 1,210,018  | (NA)  | (NA)                                     |
| 1959 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 561,569           | 3,749,324            | 470,929            | 865,515              | 2,868,055          | 7,312,642   | 28,789,879                        | 216,367,837                        | 694,524  | (NA)  | (NA)                                     |
| 1958.....  | (NA)                       | 547               | 476  | 560,525           | 3,437,821            | 457,350            | 840,331              | 2,602,737          | 6,446,097   | 27,575,698                        | 214,018,861                        | 981,272  | (NA)  | (NA)                                     |
| 1957 <sup>3 4</sup> .....  | (NA)                       | (NA)              | (NA)   | 684,278           | 4,003,083            | 570,114            | 1,104,445            | 3,160,198          | 7,775,474   | (2)                               | (2)                                | 1,459,644  | (NA)  | (NA)                                     |
| 1956 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 714,911           | 3,840,603            | 605,839            | 1,167,013            | 3,095,422          | 7,729,715   | (2)                               | (2)                                | 1,129,794  | (NA)  | (NA)                                     |
| 1955 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 681,804           | 3,557,455            | 578,300            | 1,162,596            | 2,881,419          | 7,213,905   | (2)                               | (2)                                | 592,555  | (NA)  | (NA)                                     |
| 1954.....  | (NA)                       | (NA)              | (NA)   | 608,923           | 2,823,575            | 516,478            | 968,741              | 2,238,876          | 5,361,095   | (2)                               | (2)                                | 596,956  | (NA)  | (NA)                                     |
| 1947.....  | (NA)                       | (NA)              | (NA)   | 631,250           | 1,990,818            | 553,916            | (NA)                 | 1,667,357          | 3,107,530   | (2)                               | (2)                                | (NA)   | (NA)  | (NA)                                     |
| 1939.....  | (NA)                       | (NA)              | (NA)   | 495,695           | 804,544              | 440,222            | (NA)                 | 672,459            | 1,410,626   | (2)                               | (2)                                | (NA)   | (NA)  | (NA)                                     |
| 1937.....  | (NA)                       | (NA)              | (NA)   | (NA)              | (NA)                 | 523,020            | (NA)                 | 850,880            | 1,708,791   | (2)                               | (2)                                | (NA)   | (NA)  | (NA)                                     |
| 1935.....  | (NA)                       | (NA)              | (NA)   | 424,574           | 561,393              | 391,502            | (NA)                 | 480,160            | 951,827   | (2)                               | (2)                                | (NA)   | (NA)  | (NA)                                     |
| 1933.....  | (NA)                       | (NA)              | (NA)   | 327,907           | 336,550              | 302,011            | (NA)                 | 285,894            | 523,984   | (2)                               | (2)                                | (NA)   | (NA)  | (NA)                                     |
| 1931.....  | (NA)                       | (NA)              | (NA)   | (NA)              | (NA)                 | 292,589            | (NA)                 | 379,780            | 686,914   | (2)                               | (2)                                | (NA)   | (NA)  | (NA)                                     |
| 1929.....  | (NA)                       | (NA)              | (NA)   | 482,390           | 882,094              | 440,086            | (NA)                 | 764,363            | 1,757,593   | (2)                               | (2)                                | (NA)   | (NA)  | (NA)                                     |
| 1927.....  | (NA)                       | (NA)              | (NA)   | 451,654           | 791,437              | 410,352            | (NA)                 | 679,701            | 1,314,818   | (2)                               | (2)                                | (NA)   | (NA)  | (NA)                                     |
| 1925.....  | (NA)                       | (NA)              | (NA)   | 464,552           | 801,794              | 423,105            | (NA)                 | 697,059            | 1,382,859   | (2)                               | (2)                                | (NA)   | (NA)  | (NA)                                     |
| 1923.....  | (NA)                       | (NA)              | (NA)   | 501,573           | 865,023              | 453,277            | (NA)                 | 744,868            | 1,452,803   | (2)                               | (2)                                | (NA)   | (NA)  | (NA)                                     |
| 1921.....  | (NA)                       | (NA)              | (NA)   | 304,585           | 486,571              | 270,283            | (NA)                 | 378,190            | 587,777   | (2)                               | (2)                                | (NA)   | (NA)  | (NA)                                     |
| 1919.....  | (NA)                       | (NA)              | (NA)   | 503,408           | 877,839              | 447,703            | (NA)                 | 756,382            | 1,420,937   | (2)                               | (2)                                | (NA)   | (NA)  | (NA)                                     |
| 1914.....  | (NA)                       | (NA)              | (NA)   | 330,716           | 271,499              | 299,179            | (NA)                 | 225,212            | 411,050   | (2)                               | (2)                                | (NA)   | (NA)  | (NA)                                     |
| 1909.....  | (NA)                       | (NA)              | (NA)   | 334,853           | 238,049              | 307,778            | (NA)                 | 203,262            | 430,685   | (2)                               | (2)                                | (NA)   | (NA)  | (NA)                                     |
| 1904.....  | (NA)                       | (NA)              | (NA)   | 279,568           | 127,728              | 261,621            | (NA)                 | 150,731            | 307,486   | (2)                               | (2)                                | (NA)   | (NA)  | (NA)                                     |
| 1899.....  | (NA)                       | (NA)              | (NA)   | 249,615           | 140,441              | 239,489            | (NA)                 | 127,906            | 297,489   | (2)                               | (2)                                | (NA)   | (NA)  | (NA)                                     |

See footnotes on next page.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

Footnotes for table 1-33A

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>Includes expenditures for plants under construction but not in operation. This information was not collected in 1939 and 1947 and is not available by 4-digit industry for 1954.

<sup>2</sup>The value of shipments and cost of materials for this industry includes extensive duplication arising from shipments between establishments in the same industry classification. For further explanation see text.

<sup>3</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>4</sup>Data for Alaska and Hawaii are excluded for 1957 and earlier years.

<sup>5</sup>Prior to 1939 "Steel works and rolling mills" and "Steel foundries" constituted a single industry. Separate figures for these two industries were obtained for 1937 and 1929 from special tabulations of the returns for those years. Separate data for subsequent years have been combined in order that statistics may be shown for other years. Data for "Steel foundries" for 1963 are shown in MC63(2)-33B, Iron and Steel Foundries.

<sup>6</sup>Definitions are as follows: Fully integrated works are establishments having coke ovens, blast furnaces, steel works, and rolling and finishing mills or a forging department; partially integrated works with blast furnaces are establishments having blast furnaces, steel works, and rolling and finishing mills or a forging department; partially integrated works without blast furnaces are establishments having steel works, and rolling and finishing mills or a forging department; nonintegrated works represent all other types of establishments in this industry including beehive coke ovens, byproduct coke ovens operated independently of blast furnaces and steel departments; merchant blast furnaces, and establishments with hot-rolling and finishing operations. In a few cases, operations which are, in fact, fully integrated, are classified as partially integrated or nonintegrated because separate establishment reports were collected either because the operations are conducted in different cities or towns, or the company treats the operations separately for their own administrative reasons.

<sup>7</sup>No comparable data are available for earlier years.

<sup>8</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that comparable data for prior year are not available.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>   | 1963              |                                       |                   |                      |                    |                      |                    |   |   |  |  | 1958                      |   |
|--|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|---|---|--|--|---------------------------|---|
|  | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted<br>(\$1,000) | Cost of materials <sup>2</sup><br>(\$1,000) | Value of shipments <sup>2</sup><br>(\$1,000) | Capital expenditures, new<br>(\$1,000) | All employees<br>(number) | Value added by manufacture, adjusted<br>(\$1,000) |
|  | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |   |  |  |                           |   |
| INDUSTRY 3312.—BLAST FURNACES AND STEEL MILLS  |                   |                                       |                   |                      |                    |                      |                    |   |   |  |  |                           |   |
| Total.....   | 288               | 247                                   | 500,550           | 3,711,639            | 412,311            | 791,364              | 2,892,006          | 7,699,535   | 8,958,663                                   | 16,611,083                                   | 908,440                                | 511,392                   | 6,062,227   |
| New England.....   | 6                 | 5                                     | 2,719             | 19,802               | 2,082              | 4,023                | 14,216             | 33,729  | 37,414                                      | 74,698                                       | 1,449                                  | 3,784                     | 29,920  |
| Middle Atlantic....  | 105               | 93                                    | 180,445           | 1,299,531            | 146,682            | 279,582              | 1,000,325          | 2,437,451   | 3,142,680                                   | 5,565,254                                    | 214,582                                | 194,521                   | 2,043,799   |
| New York.....  | 19                | 18                                    | 27,417            | 198,784              | 22,589             | 43,789               | 156,613            | 395,415   | 349,247                                     | 734,768                                      | 24,397                                 | 27,279                    | 301,593   |
| New Jersey.....  | 4                 | 4                                     | 2,752             | 19,276               | 2,015              | 4,009                | 13,779             | 31,947  | 29,966                                      | 61,487                                       | 1,419                                  | 3,316                     | 37,758  |
| Pennsylvania....   | 82                | 71                                    | 150,276           | 1,081,471            | 122,078            | 231,784              | 829,933            | 2,010,089   | 2,763,467                                   | 4,768,999                                    | 188,766                                | 163,926                   | 1,704,448   |
| North Central.....   | 89                | 76                                    | 206,932           | 1,581,488            | 173,192            | 335,552              | 1,249,946          | 3,382,528   | 4,297,059                                   | 7,665,771                                    | 489,350                                | 202,654                   | 2,497,233   |
| Ohio.....  | 35                | 32                                    | 79,558            | 586,690              | 68,535             | 130,482              | 479,740            | 1,268,778   | 1,669,115                                   | 2,927,652                                    | 153,003                                | 82,748                    | 979,211   |
| Indiana.....   | 12                | 10                                    | 57,010            | 438,878              | 46,777             | 91,718               | 343,077            | 1,019,338   | 1,140,592                                   | 2,131,131                                    | 203,807                                | 56,338                    | 765,896   |
| Illinois.....  | 21                | 19                                    | 41,569            | 321,539              | 34,217             | 66,602               | 247,363            | 547,175   | 702,564                                     | 1,246,602                                    | 45,911                                 | 38,345                    | 442,602   |
| Michigan.....  | 11                | 8                                     | 21,288            | 178,322              | 17,799             | 35,640               | 140,421            | 433,560   | 707,554                                     | 1,135,160                                    | 83,569                                 | 17,347                    | 219,511   |
| South.....   | 61                | 53                                    | 82,010            | 593,422              | 67,303             | 128,574              | 464,484            | 1,401,062   | 1,077,608                                   | 2,462,033                                    | 167,193                                | 81,009                    | 1,077,359   |
| Virginia.....  | 13                | 10                                    | 644               | 3,646                | 587                | 1,309                | 3,112              | 7,451   | 9,358                                       | 16,904                                       | 588                                    | (3)                       | (3)   |
| Kentucky.....  | 5                 | 5                                     | 6,415             | 47,541               | 5,406              | 10,612               | 38,074             | 100,329   | 110,084                                     | 208,599                                      | (D)                                    | (3)                       | (3)   |
| Tennessee.....   | 5                 | 5                                     | 1,367             | 5,635                | 1,192              | 2,241                | 4,825              | 10,323  | 9,209                                       | 20,250                                       | 251                                    | (3)                       | (3)   |
| West.....  | 27                | 20                                    | 28,444            | 217,396              | 23,052             | 43,633               | 163,035            | 444,765   | 403,902                                     | 843,327                                      | 35,866                                 | 29,424                    | 413,916   |
| California.....  | 17                | 12                                    | 15,834            | 122,450              | 12,966             | 24,509               | 92,511             | 228,249   | 240,166                                     | 469,173                                      | 28,276                                 | 15,605                    | 225,725   |
| Subindustry 3312-11.—Blast Furnaces and Steel Mills—FULLY INTEGRATED WORKS <sup>4</sup>                            |                   |                                       |                   |                      |                    |                      |                    |   |   |  |  |                           |   |
| Total.....   | 34                | 34                                    | 268,642           | 2,001,950            | 221,899            | 425,369              | 1,573,019          | 4,426,518   | 3,786,183                                   | 8,192,193                                    | 431,448                                | 272,859                   | 3,410,478   |
| Middle Atlantic....  | 10                | 10                                    | 83,021            | 596,929              | 67,725             | 127,685              | 462,351            | 1,203,315   | 1,106,917                                   | 2,308,508                                    | 101,481                                | (NA)                      | (NA)  |
| North Central.....   | 15                | 15                                    | 107,818           | 826,939              | 90,953             | 177,771              | 663,966            | 1,832,591   | 1,737,531                                   | 3,567,082                                    | 230,944                                | (NA)                      | (NA)  |
| Ohio.....  | 7                 | 7                                     | 40,025            | 295,312              | 34,670             | 66,061               | 244,678            | 618,683   | 741,023                                     | 1,348,607                                    | 41,095                                 | (NA)                      | (NA)  |
| Indiana.....   | 3                 | 3                                     | 45,287            | 345,271              | 37,316             | 73,271               | 270,422            | 850,702   | 662,671                                     | 1,519,501                                    | 134,307                                | (NA)                      | (NA)  |
| South.....   | 6                 | 6                                     | 59,913            | 440,467              | 48,642             | 92,073               | 343,627            | 1,104,683   | 708,408                                     | 1,801,359                                    | 81,149                                 | (NA)                      | (NA)  |
| West.....  | 3                 | 3                                     | 17,890            | 137,615              | 14,579             | 27,840               | 103,075            | 285,929   | 233,327                                     | 515,244                                      | 17,874                                 | (NA)                      | (NA)  |
| Subindustry 3312-12.—Blast Furnaces and Steel Mills—PARTIALLY INTEGRATED WORKS WITH BLAST FURNACES <sup>4</sup>    |                   |                                       |                   |                      |                    |                      |                    |   |   |  |  |                           |   |
| Total.....   | 12                | 12                                    | 53,262            | 394,522              | 44,944             | 84,406               | 314,388            | 847,471   | 975,965                                     | 1,804,266                                    | 219,478                                | (NA)                      | (NA)  |
| Middle Atlantic....  | 5                 | 5                                     | 17,900            | 130,516              | 15,178             | 28,529               | 105,469            | 251,220   | 315,562                                     | 559,009                                      | 53,078                                 | (NA)                      | (NA)  |
| North Central and South.....   | 7                 | 7                                     | 35,362            | 264,006              | 29,766             | 55,877               | 208,919            | 596,251   | 660,403                                     | 1,245,257                                    | 166,400                                | (NA)                      | (NA)  |
| Ohio.....  | 4                 | 4                                     | 19,158            | 139,981              | 16,108             | 30,622               | 113,227            | 317,031   | 289,027                                     | 602,841                                      | 77,357                                 | (NA)                      | (NA)  |
| Subindustry 3312-13.—Blast Furnaces and Steel Mills—PARTIALLY INTEGRATED WORKS WITHOUT BLAST FURNACES <sup>4</sup> |                   |                                       |                   |                      |                    |                      |                    |   |   |  |  |                           |   |
| Total.....   | 80                | 80                                    | 112,025           | 839,299              | 90,704             | 177,857              | 637,170            | 1,574,020   | 1,821,510                                   | 3,380,122                                    | 101,300                                | (NA)                      | (NA)  |
| Northeast.....   | 34                | 34                                    | 54,026            | 395,780              | 43,235             | 85,308               | 300,128            | 685,065   | 831,092                                     | 1,505,449                                    | 37,810                                 | (NA)                      | (NA)  |
| New York.....  | 5                 | 5                                     | 6,588             | 48,420               | 5,186              | 10,862               | 37,642             | 77,044  | 65,417                                      | 137,974                                      | 2,481                                  | (NA)                      | (NA)  |
| Pennsylvania....   | 26                | 26                                    | 44,554            | 324,923              | 35,815             | 69,684               | 245,685            | 560,064   | 739,679                                     | 1,294,644                                    | 33,499                                 | (NA)                      | (NA)  |
| North Central and South.....   | 35                | 35                                    | 48,597            | 371,474              | 39,924             | 78,465               | 282,773            | 744,379   | 839,808                                     | 1,580,477                                    | 46,019                                 | (NA)                      | (NA)  |
| Ohio.....  | 4                 | 4                                     | 8,295             | 62,368               | 7,422              | 14,455               | 49,955             | 171,501   | 148,173                                     | 325,592                                      | 12,957                                 | (NA)                      | (NA)  |
| Illinois.....  | 7                 | 7                                     | 13,434            | 106,611              | 10,669             | 21,202               | 79,849             | 195,043   | 168,539                                     | 357,752                                      | 16,489                                 | (NA)                      | (NA)  |
| Pacific.....   | 11                | 11                                    | 9,402             | 72,045               | 7,545              | 14,084               | 54,269             | 144,576   | 150,610                                     | 294,196                                      | 17,471                                 | (NA)                      | (NA)  |
| Subindustry 3312-14.—Blast Furnaces and Steel Mills—NONINTEGRATED WORKS <sup>4</sup>                               |                   |                                       |                   |                      |                    |                      |                    |   |   |  |  |                           |   |
| Total.....   | 162               | 121                                   | 66,621            | 475,868              | 54,764             | 103,732              | 367,429            | 851,526   | 2,375,005                                   | 3,234,502                                    | 156,214                                | 74,259                    | 883,178   |
| Northeast.....   | 62                | 49                                    | 28,217            | 196,108              | 22,626             | 42,083               | 146,593            | 331,580   | 926,523                                     | 1,266,986                                    | 23,662                                 | (NA)                      | (NA)  |
| Pennsylvania....   | 44                | 33                                    | 23,741            | 166,199              | 19,221             | 35,842               | 125,901            | 282,092   | 832,215                                     | 1,119,997                                    | 22,027                                 | (NA)                      | (NA)  |
| North Central.....   | 51                | 38                                    | 28,822            | 221,220              | 23,775             | 46,016               | 172,423            | 404,496   | 1,263,008                                   | 1,667,785                                    | 128,871                                | (NA)                      | (NA)  |
| Ohio.....  | 20                | 17                                    | 12,080            | 89,029               | 10,335             | 19,344               | 71,880             | 161,563   | 490,892                                     | 650,612                                      | 21,594                                 | (NA)                      | (NA)  |
| Illinois.....  | 10                | 8                                     | 4,297             | 32,042               | 3,575              | 7,176                | 25,762             | 71,630  | 137,611                                     | 209,628                                      | 5,689                                  | (NA)                      | (NA)  |
| South.....   | 36                | 28                                    | 8,430             | 50,804               | 7,435              | 13,924               | 42,722             | 101,190   | 165,509                                     | 265,844                                      | 3,160                                  | (NA)                      | (NA)  |
| West.....  | 13                | 6                                     | 1,152             | 7,736                | 928                | 1,709                | 5,691              | 14,260  | 19,965                                      | 33,887                                       | 521                                    | (NA)                      | (NA)  |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                  | 1963           |                                    |                |                   |                    |                   |                 |                                      |                                |                                 |                           | 1958             |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|--------------------------------|---------------------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials <sup>2</sup> | Value of shipments <sup>2</sup> | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                                |                                 |                           |                  |                                      |
| INDUSTRY 3313.—ELECTROMETALLURGICAL PRODUCTS  |                |                                    |                |                   |                    |                   |                 |                                      |                                |                                 |                           |                  |                                      |
| Total.....                                    | 36             | 30                                 | 10,437         | 68,880            | 8,155              | 16,563            | 50,767          | 145,503                              | 227,977                        | 382,132                         | 13,412                    | 12,689           | 178,880                              |
| Middle Atlantic....                           | 5              | 4                                  | 1,732          | 11,972            | 1,185              | 2,512             | 7,548           | 24,156                               | 28,427                         | 51,428                          | 1,419                     | 2,986            | 33,569                               |
| North Central.....                            | 14             | 12                                 | 4,283          | 28,595            | 3,304              | 6,553             | 20,655          | 65,698                               | 100,012                        | 168,741                         | 7,092                     | 4,084            | 60,438                               |
| Ohio.....                                     | 8              | 8                                  | 3,736          | 25,168            | 2,885              | 5,718             | 18,406          | 52,584                               | 84,200                         | 143,835                         | 5,524                     | 3,578            | 53,470                               |
| South.....                                    | 10             | 10                                 | 3,786          | 23,909            | 3,133              | 6,402             | 19,057          | 49,424                               | 83,629                         | 137,050                         | 4,415                     | 4,474            | 58,898                               |
| West.....                                     | 7              | 4                                  | 636            | 4,404             | 533                | 1,096             | 3,507           | 6,225                                | 15,909                         | 24,913                          | 495                       | 1,145            | 25,975                               |
| INDUSTRY 3315.—STEEL WIRE DRAWING, ETC.       |                |                                    |                |                   |                    |                   |                 |                                      |                                |                                 |                           |                  |                                      |
| Total.....                                    | 200            | 133                                | 21,280         | 134,636           | 16,904             | 34,367            | 97,055          | 253,009                              | 336,651                        | 592,263                         | 14,002                    | 19,250           | 196,200                              |
| Northeast.....                                | 88             | 55                                 | 9,807          | 62,994            | 7,782              | 15,213            | 45,221          | 110,301                              | 113,196                        | 221,681                         | 6,098                     | 9,625            | 86,999                               |
| Massachusetts....                             | 21             | 17                                 | 2,909          | 19,724            | 2,352              | 4,655             | 15,103          | 28,647                               | 30,281                         | 58,562                          | 719                       | 3,260            | 28,073                               |
| New York.....                                 | 20             | 8                                  | 989            | 5,416             | 834                | 1,716             | 3,941           | 9,414                                | 10,811                         | 20,084                          | 455                       | 431              | 3,328                                |
| New Jersey.....                               | 18             | 9                                  | 1,394          | 9,064             | 1,050              | 1,987             | 5,954           | 18,950                               | 20,992                         | 40,020                          | 716                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| East North Central.                           | 60             | 44                                 | 8,273          | 53,637            | 6,519              | 13,722            | 38,584          | 106,161                              | 163,385                        | 271,734                         | (D)                       | 7,332            | 81,045                               |
| Ohio.....                                     | 16             | 13                                 | 1,474          | 8,606             | 1,216              | 2,596             | 6,518           | 22,010                               | 27,385                         | 49,247                          | 1,060                     | 939              | 10,725                               |
| Illinois.....                                 | 32             | 22                                 | 4,764          | 30,064            | 3,787              | 7,905             | 21,905          | 47,531                               | 98,422                         | 149,277                         | 2,141                     | 4,362            | 45,951                               |
| West North Central.                           | 4              | 3                                  | 350            | 1,947             | 279                | 580               | 1,395           | 4,193                                | 2,870                          | 7,383                           | (D)                       | 1,288            | 16,273                               |
| South Atlantic....                            | 15             | 13                                 | 813            | 4,321             | 707                | 1,507             | 3,351           | 10,804                               | 18,531                         | 29,904                          | 955                       | 1,005            | 11,883                               |
| Maryland.....                                 | 5              | 4                                  | 351            | 1,958             | 310                | 671               | 1,497           | 5,199                                | 7,368                          | 12,539                          | 713                       |                  |                                      |
| East South Central.                           | 4              | 3                                  | 573            | 2,713             | 476                | 957               | 2,061           | 4,586                                | 5,661                          | 10,402                          | 143                       |                  |                                      |
| West South Central.                           | 6              | 3                                  | 225            | 1,198             | 186                | 496               | 930             | 3,767                                | 5,910                          | 9,431                           | 91                        |                  |                                      |
| West.....                                     | 23             | 12                                 | 1,239          | 7,826             | 955                | 1,892             | 5,513           | 13,197                               | 27,098                         | 41,728                          | 1,678                     |                  |                                      |
| INDUSTRY 3316.—COLD FINISHING OF STEEL SHAPES |                |                                    |                |                   |                    |                   |                 |                                      |                                |                                 |                           |                  |                                      |
| Total.....                                    | 81             | 68                                 | 13,700         | 99,557            | 10,623             | 21,833            | 71,527          | 223,977                              | 529,954                        | 751,627                         | 14,925                    | 10,943           | 141,516                              |
| New England.....                              | 15             | 15                                 | 3,476          | 22,658            | 2,642              | 5,401             | 16,248          | 49,136                               | 73,315                         | 126,023                         | 2,906                     | 1,689            | 20,973                               |
| Connecticut.....                              | 8              | 8                                  | 2,600          | 17,383            | 1,936              | 3,934             | 12,288          | 38,183                               | 57,731                         | 99,463                          | 1,950                     | 1,082            | 14,745                               |
| Middle Atlantic....                           | 21             | 20                                 | 4,020          | 30,077            | 3,207              | 6,683             | 21,834          | 78,616                               | 115,577                        | 192,631                         | 2,562                     | 3,682            | 44,351                               |
| New York.....                                 | 4              | 4                                  | 1,333          | 10,766            | 1,118              | 2,497             | 8,306           | 38,246                               | 31,192                         | 68,811                          | 1,223                     | 1,127            | 13,554                               |
| New Jersey.....                               | 4              | 3                                  | 494            | 3,710             | 372                | 743               | 2,406           | 7,983                                | 13,842                         | 21,366                          | 403                       | 494              | 6,257                                |
| Pennsylvania.....                             | 13             | 13                                 | 2,193          | 15,601            | 1,717              | 3,443             | 11,122          | 32,387                               | 70,543                         | 102,454                         | 936                       | 2,061            | 24,540                               |
| East North Central.                           | 30             | 25                                 | 5,647          | 42,953            | 4,359              | 8,922             | 30,878          | 88,599                               | 321,533                        | 405,725                         | 8,743                     | 4,880            | 69,762                               |
| Ohio.....                                     | 8              | 7                                  | 2,171          | 15,766            | 1,678              | 3,282             | 11,632          | 28,499                               | 68,413                         | 95,798                          | 1,025                     | 2,103            | 22,155                               |
| Indiana.....                                  | 6              | 4                                  | 992            | 7,624             | 742                | 1,599             | 5,474           | 17,669                               | 53,742                         | 71,753                          | 329                       | 956              | 13,648                               |
| Michigan.....                                 | 11             | 10                                 | 1,528          | 12,379            | 1,212              | 2,514             | 8,643           | 27,498                               | 157,278                        | 180,782                         | (D)                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| South Atlantic....                            | 3              | 3                                  | 308            | 2,101             | 223                | 424               | 1,325           | 3,767                                | 9,116                          | 12,587                          | (D)                       | 692              | 6,430                                |
| Pacific.....                                  | 12             | 5                                  | 249            | 1,768             | 192                | 403               | 1,242           | 3,859                                | 10,413                         | 14,661                          | (D)                       |                  |                                      |
| INDUSTRY 3317.—STEEL PIPE AND TUBE            |                |                                    |                |                   |                    |                   |                 |                                      |                                |                                 |                           |                  |                                      |
| Total.....                                    | 141            | 115                                | 22,882         | 153,147           | 18,270             | 37,862            | 113,656         | 295,242                              | 517,291                        | 809,009                         | 23,588                    | 23,911           | 284,096                              |
| Northeast.....                                | 47             | 39                                 | 7,897          | 51,542            | 6,265              | 12,927            | 38,551          | 103,777                              | 154,202                        | 253,175                         | 8,850                     | 9,438            | 103,240                              |
| Pennsylvania.....                             | 27             | 25                                 | 6,628          | 44,223            | 5,336              | 11,132            | 33,927          | 88,175                               | 134,925                        | 217,620                         | 8,119                     | 7,992            | 86,355                               |
| East North Central.                           | 50             | 42                                 | 10,427         | 73,054            | 8,458              | 17,609            | 55,119          | 136,008                              | 244,409                        | 379,927                         | (D)                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Ohio.....                                     | 17             | 16                                 | 5,213          | 37,125            | 4,269              | 8,968             | 28,552          | 66,431                               | 136,945                        | 201,603                         | 5,155                     | 4,019            | 45,790                               |
| Illinois.....                                 | 13             | 10                                 | 879            | 6,128             | 744                | 1,380             | 4,503           | 11,831                               | 21,735                         | 33,448                          | 2,421                     | 751              | 7,358                                |
| Michigan.....                                 | 13             | 10                                 | 2,367          | 17,359            | 1,876              | 4,096             | 12,711          | 34,617                               | 40,604                         | 75,420                          | 1,188                     | 2,065            | 26,477                               |
| West North Central.                           | 3              | 2                                  | 263            | 1,500             | 179                | 377               | 971             | 2,953                                | 4,293                          | 7,264                           | (D)                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| South.....                                    | 18             | 16                                 | 2,165          | 12,311            | 1,704              | 3,550             | 8,314           | 29,750                               | 57,130                         | 87,275                          | 1,473                     | 2,670            | 38,992                               |
| Texas.....                                    | 7              | 6                                  | 1,062          | 6,775             | 793                | 1,578             | 4,284           | 16,360                               | 37,176                         | 53,982                          | 1,116                     | 1,843            | 30,892                               |
| West.....                                     | 23             | 16                                 | 2,130          | 14,740            | 1,664              | 3,399             | 10,701          | 22,754                               | 57,257                         | 81,368                          | 2,761                     | 2,764            | 31,942                               |
| California.....                               | 19             | 12                                 | 1,837          | 12,645            | 1,454              | 2,926             | 9,292           | 19,283                               | 46,243                         | 66,713                          | 2,385                     | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |

See footnotes on next page.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

## Footnotes for Table 2-33A

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

- <sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.
- SIC 3312, Blast Furnaces and Steel Mills: New England—Massachusetts, 2 (1,000-2,499); Rhode Island, 1 (500-999); Connecticut, 3 (1,006); East North Central—Wisconsin, 2 (250-499); West North Central—Minnesota, 3 (2,500-4,999); Missouri, 5 (2,500-4,999); South Atlantic—Delaware, 1 (1,000-2,499); Maryland, 4 (10,000 and over); West Virginia, 7 (12,795); North Carolina, 2 (100-249); South Carolina, 1 (20-99); Georgia, 1 (1,000-2,499); Florida, 2 (100-249); East South Central—Alabama, 14 (10,000 and over); Mississippi, 1 (100-249); West South Central—Oklahoma, 1 (250-499); Texas, 4 (7,511); Mountain—Colorado, 2 (5,000-9,999); Arizona, 2 (20-99); Utah, 1 (2,500-4,999); Pacific—Washington, 3 (1,168); Oregon, 1 (250-499); Hawaii, 1 (100-249).
- SIC 3312-11, Fully integrated works: Middle Atlantic—New York, 1 (10,000 and over); Pennsylvania, 9 (10,000 and over); East North Central—Illinois, 1 (10,000 and over); Michigan, 1 (5,000-9,999); West North Central—Minnesota, 1 (1,000-2,499); South Atlantic—Maryland, 1 (10,000 and over); West Virginia, 1 (10,000 and over); East South Central—Alabama, 2 (10,000 and over); West South Central—Texas, 2 (5,000-9,999); Mountain—Colorado, 1 (5,000-9,999); Utah, 1 (2,500-4,999); Pacific—California, 1 (5,000-9,999).
- SIC 3312-12, Partially integrated works with blast furnaces: Middle Atlantic—New York, 2 (2,500-4,999); Pennsylvania, 3 (10,000 and over); East North Central—Illinois, 1 (5,000-9,999); Michigan, 1 (2,500-4,999); East South Central—Kentucky, 1 (2,500-4,999).
- SIC 3312-13, Partially integrated works without blast furnaces: New England—Rhode Island, 1 (500-999); Connecticut, 1 (500-999); Middle Atlantic—New Jersey, 1 (1,000-2,499); East North Central—Indiana, 3 (2,500-4,999); Michigan, 2 (5,000-9,999); West North Central—Missouri, 1 (2,500-4,999); South Atlantic—Maryland, 2 (2,500-4,999); Virginia, 2 (250-499); West Virginia, 1 (500-999); North Carolina, 1 (100-249); South Carolina, 1 (20-99); Georgia, 1 (1,000-2,499); Florida, 1 (100-249); East South Central—Kentucky, 2 (1,000-2,499); Tennessee, 1 (250-499); Alabama, 3 (1,000-2,499); Mississippi, 1 (100-249); West South Central—Oklahoma, 1 (250-499); Texas, 1 (500-999); Pacific—Washington, 1 (500-999); Oregon, 1 (250-499); California, 8 (5,000-9,999); Hawaii, 1 (100-249).
- SIC 3312-14, Nonintegrated works: New England—Massachusetts, 2 (1,000-2,499); Connecticut, 2 (250-499); Middle Atlantic—New York, 11 (1,000-2,499); New Jersey, 3 (1,000-2,499); East North Central—Indiana, 6 (5,000-9,999); Michigan, 7 (2,500-4,999); Wisconsin, 2 (250-499); West North Central—Minnesota, 2 (100-249); Missouri, 4 (250-499); South Atlantic—Delaware, 1 (1,000-2,499); Maryland, 1 (1-19); Virginia, 11 (250-499); West Virginia, 5 (1,000-2,499); North Carolina, 1 (1-19); Florida, 1 (20-99); East South Central—Kentucky, 2 (250-499); Tennessee, 4 (1,000-2,499); Alabama, 9 (2,500-4,999); West South Central—Texas, 1 (100-249); Mountain—Colorado, 1 (20-99); Arizona, 2 (20-99); Pacific—Washington, 2 (100-249); California, 8 (500-999).
- SIC 3313, Electrometallurgical Products: Middle Atlantic—New York, 3 (1,000-2,499); New Jersey, 1 (100-249); Pennsylvania, 1 (20-99); East North Central—Indiana, 1 (1-19); Illinois, 3 (100-249); Michigan, 1 (20-99); West North Central—Iowa, 1 (250-499); South Atlantic—West Virginia, 10 (1,000-2,499); South Carolina, 1 (250-499); East South Central—Kentucky, 1 (500-999); Tennessee, 3 (500-999); Alabama, 1 (250-499); West South Central—Texas, 1 (100-249); Mountain—Montana, 1 (1-19); Pacific—Washington, 1 (20-99); Oregon, 3 (520); California, 2 (1-19);
- SIC 3315, Steel Wire Drawing, Etc.: New England—New Hampshire, 3 (348); Rhode Island, 2 (500-999); Connecticut, 9 (1,000-2,499); Middle Atlantic—Pennsylvania, 15 (1,000-2,499); East North Central—Indiana, 4 (500-999); Michigan, 5 (500-999); Wisconsin, 3 (427); West North Central—Minnesota, 1 (1-19); Iowa, 2 (100-249); Missouri, 1 (100-249); South Atlantic—West Virginia, 1 (20-99); North Carolina, 1 (100-249); Georgia, 2 (20-99); Florida, 6 (100-249); East South Central—Kentucky, 2 (250-499); Tennessee, 2 (100-249); West South Central—Louisiana, 1 (20-99); Texas, 5 (100-249); Mountain—Colorado, 2 (20-99); Pacific—Washington, 1 (1-19); California, 20 (1,184).
- SIC 3316, Cold Finishing of Steel Shapes: New England—Massachusetts, 6 (500-999); Rhode Island, 1 (250-499); East North Central—Illinois, 4 (500-999); Wisconsin, 1 (20-99); South Atlantic—Maryland, 2 (100-249); West Virginia, 1 (100-249); Pacific—Washington, 2 (20-99); California, 10 (100-249).
- SIC 3317, Steel Pipe and Tube: New England—Massachusetts, 1 (20-99); Connecticut, 1 (1-19); Middle Atlantic—New York, 7 (250-499); New Jersey, 11 (500-999); East North Central—Indiana, 4 (446); Wisconsin, 3 (1,522); West North Central—Minnesota, 1 (20-99); Iowa, 1 (100-249); Missouri, 1 (1-19); South Atlantic—Georgia, 3 (20-99); East South Central—Kentucky, 1 (100-249); Tennessee, 2 (250-499); Alabama, 1 (100-249); Mississippi, 2 (20-99); West South Central—Louisiana, 2 (250-499); Mountain—Colorado, 2 (20-99); Utah, 1 (100-249); Pacific—Washington, 1 (20-99).
- <sup>2</sup>Figures on cost of materials and value of shipments for industry 3312, Blast Furnaces and Steel Mills, include extensive duplication arising from shipments between establishments in the same industry classification. This also applies to the subindustries of industry 3312.
- <sup>3</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.
- <sup>4</sup>See footnote 6, table 1 for definition of these industries.



TABLE 3. Detailed Statistics: 1963

| Item   | Blast furnaces and steel mills (SIC 3312) |  |   |                                     |   |
|--|---|--|---|-------------------------------------|---|
|  | Total                                     | Fully integrated works <sup>1</sup><br>(3312-11) | Partially integrated works <sup>1</sup> |                                     | Nonintegrated works <sup>1</sup><br>(3312-14) |
|  |   |  | With blast furnaces<br>(3312-12)        | Without blast furnaces<br>(3312-13) |   |
| Primary product specialization ratio <sup>2</sup> .....        | ( <sup>3</sup> )                          | ( <sup>3</sup> )                                 | ( <sup>3</sup> )                        | ( <sup>3</sup> )                    | ( <sup>3</sup> )                              |
| Coverage ratio <sup>4</sup> .....                              | ( <sup>3</sup> )                          | ( <sup>3</sup> )                                 | ( <sup>3</sup> )                        | ( <sup>3</sup> )                    | ( <sup>3</sup> )                              |
| Establishments, total.....number..                             | 288                                       | 34   | 12                                      | 80                                  | 162   |
| With 1 to 19 employees.....do....                              | 41  | -  | -                                       | -                                   | 41  |
| With 20 to 99 employees.....do....                             | 26  | -  | -                                       | 2                                   | 24  |
| With 100 employees or more.....do....                          | 221                                       | 34   | 12                                      | 78                                  | 97  |
| Proprietors and working partners.....do....                    | 14  | (NA)   | (NA)                                    | (NA)                                | (NA)  |
| All employees (average for the year).....do....                | 500,550                                   | 268,642  | 53,262                                  | 112,025                             | 66,621  |
| Payroll (all employees), total for year.....\$1,000..          | 3,711,639                                 | 2,001,950  | 394,522                                 | 839,299                             | 475,868                                       |
| Production workers:  |   |  |   |                                     |   |
| Average for the year.....number..                              | 412,311                                   | 221,899  | 44,944                                  | 90,704                              | 54,764  |
| March.....do....   | 393,603                                   | 211,424  | 41,147                                  | 88,054                              | 52,978  |
| May.....do....   | 434,738                                   | 226,846  | 56,719                                  | 92,285                              | 58,888  |
| August.....do....  | 434,188                                   | 241,523  | 42,960                                  | 93,923                              | 55,782  |
| November.....do....  | 386,694                                   | 207,794  | 38,952                                  | 88,569                              | 51,379  |
| Man-hours.....1,000..  | 791,364                                   | 425,369  | 84,406                                  | 177,857                             | 103,732                                       |
| January-March.....do....                                       | 191,272                                   | 101,462  | 20,375                                  | 43,815                              | 25,620  |
| April-June.....do....  | 218,905                                   | 117,448  | 24,307                                  | 47,986                              | 29,164  |
| July-September.....do....                                      | 190,786                                   | 103,190  | 20,427                                  | 42,390                              | 24,779  |
| October-December.....do....                                    | 190,399                                   | 103,266  | 19,297                                  | 43,666                              | 24,170  |
| Wages.....\$1,000..  | 2,892,006                                 | 1,573,019  | 314,388                                 | 637,170                             | 367,429                                       |
| Cost of materials, etc., total.....do....                      | <sup>3</sup> 8,958,663                    | <sup>3</sup> 3,786,183                           | <sup>3</sup> 975,965                    | <sup>3</sup> 1,821,510              | <sup>3</sup> 2,375,005                        |
| Materials, parts, containers, and supplies consumed.....do.... | <sup>3</sup> 7,983,724                    | <sup>3</sup> 3,424,787                           | ( <sup>3</sup> )                        | ( <sup>3</sup> )                    | ( <sup>3</sup> )                              |
| Cost of resales.....do....                                     | 106,984                                   | 14,450   | 24,816                                  | 51,233                              | 16,485  |
| Fuels consumed.....do....                                      | 591,689                                   | 242,909  | 141,651                                 | 95,891                              | 111,238                                       |
| Electric energy:   |   |  |   |                                     |   |
| Purchased:   |   |  |   |                                     |   |
| Quantity.....million kw.-hrs..                                 | 24,208                                    | 9,793  | 2,589                                   | 8,225                               | 3,600   |
| Cost.....\$1,000..   | 221,107                                   | 85,378   | 22,804                                  | 75,667                              | 37,258  |
| Generated less sold.....million kw.-hrs..                      | 8,192                                     | 7,035  | 604                                     | 183                                 | 370   |
| Contract work.....\$1,000..                                    | 58,374                                    | 21,420   | 8,475                                   | 22,815                              | 5,664   |
| Value of shipments (including resales), total.....do....       | <sup>3</sup> 16,611,083                   | <sup>3</sup> 8,192,193                           | <sup>3</sup> 1,804,266                  | <sup>3</sup> 3,380,122              | <sup>3</sup> 3,234,502                        |
| Value of resales.....do....                                    | 109,631                                   | 13,855   | 24,377                                  | 53,005                              | 18,394  |
| Value added by manufacture, adjusted.....do....                | 7,699,535                                 | 4,426,518  | 847,471                                 | 1,574,020                           | 851,526                                       |
| Manufacturers' inventories:                                    |   |  |   |                                     |   |
| Beginning of year, total.....do....                            | 3,175,474                                 | 1,571,065  | 345,795                                 | 586,704                             | 671,910                                       |
| Finished products.....do....                                   | 838,184                                   | 392,522  | 77,420                                  | 161,456                             | 206,786                                       |
| Work-in-process.....do....                                     | 742,219                                   | 290,611  | 50,497                                  | 217,852                             | 183,259                                       |
| Materials, supplies, fuel, etc.....do....                      | 1,595,072                                 | 887,932  | 217,878                                 | 207,396                             | 281,866                                       |
| End of year, total.....do....                                  | 3,146,552                                 | 1,574,875  | 359,581                                 | 580,699                             | 631,397                                       |
| Finished products.....do....                                   | 843,487                                   | 399,445  | 89,288                                  | 162,175                             | 192,579                                       |
| Work-in-process.....do....                                     | 784,031                                   | 304,196  | 57,799                                  | 232,541                             | 189,495                                       |
| Materials, supplies, fuel, etc.....do....                      | 1,519,034                                 | 871,234  | 212,494                                 | 185,983                             | 249,323                                       |
| Expenditures for plant and equipment, total.....do....         | 923,988                                   | 437,787  | 220,208                                 | 106,746                             | 159,247                                       |
| New, total.....do....  | 908,440                                   | 431,448  | 219,478                                 | 101,300                             | 156,214                                       |
| New structures and additions to plant.....do....               | 277,810                                   | 98,115   | 91,270                                  | 18,041                              | 70,384  |
| New machinery and equipment.....do....                         | 630,630                                   | 333,333  | 128,208                                 | 83,259                              | 85,830  |
| Used plant and equipment.....do....                            | 15,548                                    | 6,339  | 730                                     | 5,446                               | 3,033   |
| Selected operating ratios:                                     |   |  |   |                                     |   |
| Payroll/Total employment.....                                  | 7.415                                     | 7.452  | 7.407                                   | 7.492                               | 7.142   |
| Production workers/Total employment.....                       | .82                                       | .83  | .84                                     | .81                                 | .82   |
| Man-hours/Production workers.....                              | 1.919                                     | 1.917  | 1.878                                   | 1.961                               | 1.894   |
| Production worker wages/Man-hours.....                         | 3.65                                      | 3.70   | 3.72                                    | 3.58                                | 3.54  |
| Cost of materials and payrolls/Total value of shipments.....   | .76                                       | .71  | .76                                     | .79                                 | .79   |
| Cost of materials/Total value of shipments.....                | .54                                       | .46  | .54                                     | .54                                 | .73   |
| Adjusted value added/Total employment.....                     | 15.382                                    | 16.477   | 15.911                                  | 14.051                              | 12.794  |
| Salaries and wages/Adjusted value added.....                   | .48                                       | .45  | .47                                     | .53                                 | .56   |

See footnotes at end of table.

TABLE 3. Detailed Statistics: 1963—Continued

| Item   | Electro-<br>metallurgical<br>products<br>(SIC 3313) | Steel wire<br>drawing, etc.<br>(SIC 3315) | Cold finishing<br>of steel shapes<br>(SIC 3316) | Steel pipe<br>and tube<br>(SIC 3317) |
|--|---|---|---|--------------------------------------|
| Primary product specialization ratio <sup>2</sup> .....        | .85-.90   | .89                                       | .94   | .91                                  |
| Coverage ratio <sup>3</sup> .....                              | .77   | .30                                       | .20   | .37                                  |
| Establishments, total..... number..                            | 36  | 200                                       | 81  | 141                                  |
| With 1 to 19 employees.....do....                              | 6   | 67  | 13  | 26                                   |
| With 20 to 99 employees.....do....                             | 7   | 71  | 26  | 50                                   |
| With 100 employees or more.....do....                          | 23  | 62  | 42  | 65                                   |
| Proprietors and working partners.....do....                    | 2   | 21  | 8   | 11                                   |
| All employees (average for the year).....do....                | 10,437  | 21,280                                    | 13,700  | 22,882                               |
| Payroll (all employees), total for year.....\$1,000..          | 68,880  | 134,636                                   | 99,557  | 153,147                              |
| Production workers:  |   |   |   |                                      |
| Average for the year..... number..                             | 8,155   | 16,904                                    | 10,623  | 18,270                               |
| March.....do....   | 7,729   | 17,090                                    | 10,558  | 17,809                               |
| May.....do....   | 8,296   | 17,025                                    | 10,838  | 18,801                               |
| August.....do....  | 8,264   | 16,908                                    | 10,724  | 17,982                               |
| November.....do....  | 8,318   | 16,938                                    | 10,372  | 18,466                               |
| Man-hours..... 1,000..   | 16,563  | 34,367                                    | 21,833  | 37,862                               |
| January-March.....do....                                       | 3,775   | 8,622                                     | 5,543   | 8,882                                |
| April-June.....do....  | 4,278   | 8,960                                     | 5,979   | 10,038                               |
| July-September.....do....                                      | 4,171   | 8,066                                     | 5,012   | 9,492                                |
| October-December.....do....                                    | 4,342   | 8,737                                     | 5,301   | 9,459                                |
| Wages.....\$1,000..  | 50,767  | 97,055                                    | 71,527  | 113,656                              |
| Cost of materials, etc., total.....do....                      | 227,977   | 336,651                                   | 529,954   | 517,291                              |
| Materials, parts, containers, and supplies consumed.....do.... | 175,848   | 313,528                                   | 510,335   | 479,983                              |
| Cost of resales.....do....                                     | 9,817   | 11,014                                    | 9,241   | 15,311                               |
| Fuels consumed.....do....                                      | 12,640  | 4,792                                     | 5,125   | 5,968                                |
| Electric energy:   |   |   |   |                                      |
| Purchased:   |   |   |   |                                      |
| Quantity.....million kw.-hrs..                                 | 5,881   | 433                                       | 403   | 411                                  |
| Cost.....\$1,000..   | 29,151  | 5,657                                     | 4,909   | 5,142                                |
| Generated less sold.....million kw.-hrs..                      | (D)   | -   | (D)   | (D)                                  |
| Contract work.....\$1,000..                                    | 521   | 1,660                                     | 344   | 10,887                               |
| Value of shipments (including resales), total.....do....       | 382,132   | 592,263                                   | 751,627   | 809,009                              |
| Value of resales.....do....                                    | 10-15 million                                       | 10-15 million                             | 40,942  | 18,318                               |
| Value added by manufacture, adjusted.....do....                | 145,503   | 253,009                                   | 223,977   | 295,242                              |
| Manufacturers' inventories:                                    |   |   |   |                                      |
| Beginning of year, total.....do....                            | 106,211   | 113,977                                   | 110,488   | 146,408                              |
| Finished products.....do....                                   | 49,606  | 50,940                                    | 29,751  | 50,541                               |
| Work-in-process.....do....                                     | 11,837  | 27,572                                    | 24,853  | 41,950                               |
| Materials, supplies, fuel, etc.....do....                      | 44,768  | 35,465                                    | 55,884  | 53,917                               |
| End of year, total.....do....                                  | 93,879  | 110,367                                   | 109,368   | 151,971                              |
| Finished products.....do....                                   | 42,547  | 51,252                                    | 32,017  | 55,547                               |
| Work-in-process.....do....                                     | 10,244  | 24,657                                    | 24,891  | 42,268                               |
| Materials, supplies, fuel, etc.....do....                      | 41,088  | 34,458                                    | 52,460  | 54,156                               |
| Expenditures for plant and equipment, total.....do....         | 13,877  | 15,278                                    | 15,321  | 29,188                               |
| New, total.....do....  | 13,412  | 14,002                                    | 14,925  | 23,588                               |
| New structures and additions to plant.....do....               | 2,572   | 3,795                                     | 1,818   | 5,533                                |
| New machinery and equipment.....do....                         | 10,840  | 10,207                                    | 13,107  | 18,055                               |
| Used plant and equipment.....do....                            | 465   | 1,276                                     | 396   | 5,600                                |
| Selected operating ratios:                                     |   |   |   |                                      |
| Payroll/Total employment.....                                  | 6,603   | 6,327                                     | 7,267   | 6,678                                |
| Production workers/Total employment.....                       | .78   | .79                                       | .78   | .80                                  |
| Man-hours/Production workers.....                              | 2,031   | 2,033                                     | 2,055   | 2,071                                |
| Production worker wages/Man-hours.....                         | 3.07  | 2.82                                      | 3.28  | 2.99                                 |
| Cost of materials and payrolls/Total value of shipments....    | .81   | .80                                       | .84   | .83                                  |
| Cost of materials/Total value of shipments.....                | .63   | .56                                       | .71   | .64                                  |
| Adjusted value added/Total employment.....                     | 12,851  | 11,805                                    | 16,349  | 12,903                               |
| Salaries and wages/Adjusted value added.....                   | .51   | .54                                       | .44   | -                                    |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>For definitions of these industries see table 1 footnote 6.

<sup>2</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>3</sup>There is substantial duplication in value of shipments<sup>4</sup> and cost of materials. (See introductory text.) Specialization and coverage ratio are not meaningful because of such duplication.

<sup>4</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3312.—BLAST FURNACES AND STEEL MILLS   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..   | 288                   | 22                                 | 9                | 10                 | 20                 | 6                  | 43                   | 41                   | 40                   | 33                       | 64                       |
| All employees:  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....  | 500,550               | 90                                 | (D)              | 146                | 606                | 377                | 6,871                | 15,048               | 29,186               | 53,843                   | 394,383                  |
| Payroll.....\$1,000..   | 3,711,639             | 427                                | (D)              | 798                | 3,295              | 2,021              | 44,083               | 105,507              | 211,609              | 382,306                  | 2,961,593                |
| Value added, adjusted.....do....  | 7,699,535             | 1,002                              | (D)              | 1,586              | 7,430              | 3,306              | 98,793               | 212,287              | 366,906              | 691,271                  | 6,316,954                |
| Value of shipments <sup>1</sup> .....do....   | 16,611,083            | 2,058                              | (D)              | 3,122              | 23,935             | 8,024              | 230,770              | 548,941              | 959,261              | 1,984,916                | 12,850,056               |
| Capital expenditures, new...do....  | 908,440               | 255,280                            | (D)              | 731                | 1,279              | 232                | 3,026                | 12,249               | 27,773               | 45,779                   | 762,091                  |
| Subindustry 3312-11.—Blast Furnaces and Steel Mills—FULLY INTEGRATED WORKS <sup>3</sup>                             |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..   | 34                    | -                                  | -                | -                  | -                  | -                  | -                    | -                    | -                    | 1                        | 33                       |
| All employees:  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....  | 268,642               | -                                  | -                | -                  | -                  | -                  | -                    | -                    | -                    | 268,642                  | (D)                      |
| Payroll.....\$1,000..   | 2,001,950             | -                                  | -                | -                  | -                  | -                  | -                    | -                    | -                    | 2,001,950                | (D)                      |
| Value added, adjusted.....do....  | 4,426,518             | -                                  | -                | -                  | -                  | -                  | -                    | -                    | -                    | 4,426,518                | (D)                      |
| Value of shipments <sup>1</sup> .....do....   | 18,192,193            | -                                  | -                | -                  | -                  | -                  | -                    | -                    | -                    | 8,192,193                | (D)                      |
| Capital expenditures, new...do....  | 431,448               | -                                  | -                | -                  | -                  | -                  | -                    | -                    | -                    | 431,448                  | (D)                      |
| Subindustry 3312-12.—Blast Furnaces and Steel Mills—PARTIALLY INTEGRATED WORKS, WITH BLAST FURNACES <sup>3</sup>    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..   | 12                    | -                                  | -                | -                  | -                  | -                  | -                    | -                    | 1                    | -                        | 11                       |
| All employees:  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....  | 53,262                | -                                  | -                | -                  | -                  | -                  | -                    | -                    | 53,262               | -                        | (D)                      |
| Payroll.....\$1,000..   | 394,822               | -                                  | -                | -                  | -                  | -                  | -                    | -                    | 394,822              | -                        | (D)                      |
| Value added, adjusted.....do....  | 847,471               | -                                  | -                | -                  | -                  | -                  | -                    | -                    | 847,471              | -                        | (D)                      |
| Value of shipments <sup>1</sup> .....do....   | 1,804,266             | -                                  | -                | -                  | -                  | -                  | -                    | -                    | 1,804,266            | -                        | (D)                      |
| Capital expenditures, new...do....  | 219,478               | -                                  | -                | -                  | -                  | -                  | -                    | -                    | 219,478              | -                        | (D)                      |
| Subindustry 3312-13.—Blast Furnaces and Steel Mills—PARTIALLY INTEGRATED WORKS, WITHOUT BLAST FURNACES <sup>3</sup> |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..   | 80                    | -                                  | -                | -                  | -                  | 2                  | 10                   | 12                   | 21                   | 18                       | 17                       |
| All employees:  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....  | 112,025               | -                                  | -                | -                  | -                  | 1,924              | (D)                  | 4,351                | 15,509               | 26,375                   | 63,866                   |
| Payroll.....\$1,000..   | 839,299               | -                                  | -                | -                  | -                  | 12,315             | (D)                  | 29,583               | 114,603              | 192,376                  | 490,422                  |
| Value added, adjusted.....do....  | 1,574,020             | -                                  | -                | -                  | -                  | 27,190             | (D)                  | 51,943               | 191,140              | 347,836                  | 955,911                  |
| Value of shipments <sup>1</sup> .....do....   | 13,380,122            | -                                  | -                | -                  | -                  | 46,661             | (D)                  | 108,814              | 343,926              | 707,528                  | 2,173,193                |
| Capital expenditures, new...do....  | 101,300               | -                                  | -                | -                  | -                  | 1,280              | (D)                  | 2,151                | 11,009               | 25,297                   | 61,563                   |
| Subindustry 3312-14.—Blast Furnaces and Steel Mills—NONINTEGRATED WORKS <sup>3</sup>                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..   | 162                   | 22                                 | 9                | 10                 | 20                 | 4                  | 33                   | 29                   | 18                   | 14                       | 3                        |
| All employees:  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....  | 66,621                | 90                                 | (D)              | 146                | 606                | 5,324              | (D)                  | 10,697               | 49,758               | (D)                      | (D)                      |
| Payroll.....\$1,000..   | 475,868               | 427                                | (D)              | 798                | 3,295              | 33,789             | (D)                  | 75,924               | 361,635              | (D)                      | (D)                      |
| Value added, adjusted.....do....  | 851,526               | 1,002                              | (D)              | 1,586              | 7,430              | 74,909             | (D)                  | 160,344              | 606,255              | (D)                      | (D)                      |
| Value of shipments <sup>1</sup> .....do....   | 13,234,562            | 2,058                              | (D)              | 3,122              | 23,995             | 192,133            | (D)                  | 440,127              | 2,573,127            | (D)                      | (D)                      |
| Capital expenditures, new...do....  | 156,214               | 255,280                            | (D)              | 731                | 1,279              | 1,978              | (D)                  | 10,098               | 86,848               | (D)                      | (D)                      |
| INDUSTRY 3313.—ELECTROMETALLURGICAL PRODUCTS <sup>3</sup>   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..   | 36                    | 2                                  | -                | 4                  | 5                  | 2                  | 10                   | 7                    | 3                    | 3                        | -                        |
| All employees:  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....  | 10,437                | 49                                 | -                | (D)                | 364                | (D)                | 1,622                | 2,368                | 6,034                | (D)                      | -                        |
| Payroll.....\$1,000..   | 68,880                | 287                                | -                | (D)                | 2,405              | (D)                | 10,444               | 14,750               | 40,994               | (D)                      | -                        |
| Value added, adjusted.....do....  | 145,503               | 347                                | -                | (D)                | 5,996              | (D)                | 25,226               | 29,736               | 84,892               | (D)                      | -                        |
| Value of shipments <sup>1</sup> .....do....   | 382,132               | 2,010                              | -                | (D)                | 16,635             | (D)                | 73,594               | 91,986               | 197,907              | (D)                      | -                        |
| Capital expenditures, new...do....  | 13,412                | 155                                | -                | (D)                | 391                | (D)                | 5,100                | 2,913                | 4,853                | (D)                      | -                        |

See footnotes at end of table.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963—Continued

| Item   | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3315.—STEEL WIRE DRAWING, ETC. <sup>3</sup>       |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                                | 200                   | 22                                 | 24               | 21                 | 36                 | 35                 | 33                   | 24                   | 4                    | 1                        | -                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 21,280                | 47                                 | 156              | 312                | 1,181              | 2,594              | 4,732                | 7,869                | 4,389                | (D)                      | -                        |
| Payroll.....\$1,000..                                      | 134,636               | 265                                | 788              | 1,815              | 6,196              | 14,907             | 27,524               | 52,326               | <u>30,815</u>        | (D)                      | -                        |
| Value added, adjusted.....do....                           | 253,009               | 510                                | 1,560            | 3,828              | 15,425             | 32,071             | 55,757               | 97,569               | <u>46,289</u>        | (D)                      | -                        |
| Value of shipments <sup>1</sup> .....do....                | 592,263               | 1,277                              | 3,385            | 11,469             | 38,537             | 74,707             | 139,395              | 200,213              | <u>123,280</u>       | (D)                      | -                        |
| Capital expenditures, new...do....                         | 14,002                | <u>1,217</u>                       | (D)              | 513                | 926                | 1,701              | 3,458                | 3,977                | <u>2,210</u>         | (D)                      | -                        |
| INDUSTRY 3316.—COLD FINISHING OF STEEL SHAPES <sup>3</sup> |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                                | 81                    | 6                                  | 4                | 3                  | 15                 | 11                 | 25                   | 11                   | 5                    | 1                        | -                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 13,700                | 11                                 | 30               | 39                 | 540                | 786                | 4,137                | 3,700                | 4,457                | (D)                      | -                        |
| Payroll.....\$1,000..                                      | 99,557                | 99                                 | 183              | 274                | 3,552              | 5,679              | 29,263               | 26,666               | <u>33,841</u>        | (D)                      | -                        |
| Value added, adjusted.....do....                           | 223,977               | 284                                | 323              | 95                 | 8,165              | 15,257             | 74,456               | 52,625               | <u>72,772</u>        | (D)                      | -                        |
| Value of shipments <sup>1</sup> .....do....                | 751,627               | 486                                | 817              | 1,025              | 39,308             | 51,081             | 223,271              | 173,049              | <u>262,590</u>       | (D)                      | -                        |
| Capital expenditures, new...do....                         | 14,925                | 12                                 | <u>20</u>        | (D)                | 304                | 995                | 2,998                | 2,196                | <u>8,400</u>         | (D)                      | -                        |
| INDUSTRY 3317.—STEEL PIPE AND TUBE <sup>3</sup>            |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                                | 141                   | 10                                 | 6                | 10                 | 29                 | 20                 | 40                   | 15                   | 9                    | 2                        | -                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 22,882                | 19                                 | 38               | 167                | 954                | 1,557              | 6,382                | 4,668                | 9,097                | (D)                      | -                        |
| Payroll.....\$1,000..                                      | 153,147               | 95                                 | 223              | 1,057              | 5,146              | 9,451              | 40,376               | 32,584               | <u>64,215</u>        | (D)                      | -                        |
| Value added, adjusted.....do....                           | 295,242               | 191                                | 442              | 1,336              | 16,570             | 18,117             | 82,290               | 65,035               | <u>111,255</u>       | (D)                      | -                        |
| Value of shipments <sup>1</sup> .....do....                | 809,009               | 617                                | 961              | 7,052              | 31,116             | 49,870             | 241,697              | 209,008              | <u>268,688</u>       | (D)                      | -                        |
| Capital expenditures, new...do....                         | 23,528                | <u>213</u>                         | (D)              | 115                | 1,191              | 1,649              | 5,850                | 4,805                | <u>9,765</u>         | (D)                      | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

<sup>1</sup>Value of shipments for this industry contains extensive duplication. This duplication arises because the products of some establishments are used as materials by other establishments classified in the same industry.<sup>2</sup>Includes capital expenditures for plants under construction but not in operation of approximately \$50-\$100 million.<sup>3</sup>See footnote 6, table 1 for definition of these industries.<sup>4</sup>Includes capital expenditures for plants under construction but not in operation of approximately \$500-\$1,000 thousand.<sup>5</sup>Includes capital expenditures for plants under construction but not in operation of approximately \$100-\$200 thousand.



TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                 | Value of shipments      |                         |                     |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|-------------------------|-------------------------|---------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total                   | Primary products        | Secondary products  | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | (\$1,000)               | (\$1,000)               | (\$1,000)           | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |  | A                       | B                       | C                   | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3312      | Blast furnaces and steel mills....1963.. | <sup>1</sup> 16,611,083 | <sup>1</sup> 15,459,136 | 807,902             | 344,045                | ( <sup>1</sup> )                     | 17,553,735                         | 15,459,136            | 2,094,599                | ( <sup>1</sup> )              |
|           | 1958..                                   | <sup>1</sup> 13,422,855 | 12,653,182              | 647,796             | 291,174                | ( <sup>1</sup> )                     | 14,588,530                         | 12,653,182            | 1,905,348                | ( <sup>1</sup> )              |
| 3313      | Electrometallurgical products....1963..  | 382,132                 | <sup>2</sup> 317,361    | <sup>3</sup> 64,771 | ( <sup>3</sup> )       | 85-90                                | 411,580                            | <sup>2</sup> 317,361  | 94,219                   | 77                            |
|           | 1958..                                   | 399,122                 | 354,797                 | 35,129              | 9,196                  | 91                                   | 468,117                            | 354,797               | 113,320                  | 76                            |
| 3315      | Steel wire drawing, etc.....1963..       | 592,263                 | <sup>2</sup> 508,514    | 61,513              | 22,236                 | 89                                   | 1,672,445                          | <sup>2</sup> 508,514  | 1,163,931                | 30                            |
|           | 1958..                                   | 452,062                 | 386,786                 | 54,326              | 10,950                 | 88                                   | 1,490,977                          | 386,786               | 1,104,191                | 26                            |
| 3316      | Cold finishing of steel shapes....1963.. | 751,627                 | 661,136                 | 43,044              | 47,447                 | 94                                   | 3,332,558                          | <sup>2</sup> 661,136  | 2,671,422                | 20                            |
|           | 1958..                                   | 477,824                 | 449,574                 | 22,114              | 6,136                  | 95                                   | 2,430,547                          | 449,574               | 1,980,973                | 18                            |
| 3317      | Steel pipe and tube.....1963..           | 809,009                 | 707,371                 | 73,422              | 28,216                 | 91                                   | 1,887,495                          | 707,371               | 1,180,124                | 37                            |
|           | 1958..                                   | 780,684                 | 691,734                 | 63,267              | 25,683                 | 92                                   | 1,723,643                          | 691,734               | 1,031,909                | 40                            |

NOTE: See Introduction for an explanation of terms used.

<sup>1</sup>The value of shipments for the industry in 1963 totaled \$16,611 million. This value, however, includes duplication in that the products of some establishments are used as materials by others. See text for fuller explanation. Specialization ratio computed on the basis of net value of shipments would approximate 94 percent. A coverage ratio for this industry cannot be precisely computed. However, such a ratio would exceed 86 percent. Comparable ratios for 1958 were: specialization, 94 percent; coverage, 84 percent.

<sup>2</sup>Includes small amount of primary products made in other industries to avoid disclosing individual company figures. This amount, however, constitutes less than 2 percent of the total.

<sup>3</sup>Miscellaneous receipts included with secondary products.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars except for ranges (shown in parentheses) which are expressed in millions of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code | Class of products and miscellaneous receipts                                | All industries   | Blast furnaces and steel mills (SIC 3312) |   |  |   |   |  | Steel wire drawing, etc. (SIC 3315) | Cold finishing of steel shapes (SIC 3316) | Steel pipe and tube (SIC 3317) | All other industries |
|------------------|---|------------------|---|---|--|---|---|--|-------------------------------------|---|--------------------------------|----------------------|
|                  |   |                  | Total                                     | Fully integrated works <sup>1</sup> (3312-11) | Partially integrated works                 |   | Non-integrated works <sup>1</sup> (3312-14) | Electrometallurgical products (SIC 3313) |                                     |   |                                |                      |
|                  |   |                  |   |   | With blast furnaces <sup>1</sup> (3312-12) | Without blast furnaces <sup>1</sup> (3312-13) |   |  |                                     |   |                                |                      |
| 331--            | BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS                |                  |   |   |  |   |   |  |                                     |   |                                |                      |
|                  | Total shipments and receipts of the industry                                | (X) 2,16,611,083 | 2,8,192,193                               | 2,5,184,388                                   | 2,1,804,266                                | 2,3,380,122                                   | 2,3,234,502                                 | 382,132                                  | 751,627                             | 809,009                                   | (X)                            |                      |
|                  | Steel rolling and finishing products.....                                   | (X) 2,15,722,566 | 2,7,925,546                               | 2,4,802,260                                   | 2,1,743,804                                | 2,3,058,456                                   | 2,2,994,760                                 | 317,361                                  | 682,879                             | 727,700                                   | (X)                            |                      |
| 33121            | Electrometallurgical products:  |                  |   |   |  |   |   |  |                                     |   |                                |                      |
| pt.              | Coke oven and blast furnace products, except ferroalloys.....               | 1,235,519        | 371,326                                   | 66,530  | 66,530                                     | -   | 869,632                                     | -  | -                                   | -   | -                              |                      |
| 33121            | Blast furnace ferroalloys and other additives.....                          | 71,969           | -   | -   | -  | -   | -   | 154,416                                  | (3)                                 | -   | 423,016                        |                      |
| 33131            | Ferromanganese.....   | -                | -   | -   | -  | -   | -   | -  | -                                   | -   | (3)                            |                      |
| 33134            | Other ferroalloys produced in electric and other furnaces.....              | 177,432          | -   | -   | -  | -   | -   | 85,313                                   | -                                   | -   | 2,234                          |                      |
| 33132            | Ferrochrome.....  | 85,313           | -   | -   | -  | -   | -   | 75,858                                   | -                                   | -   | (3)                            |                      |
| 33133            | Ferrosilicon.....   | 78,092           | -   | -   | -  | -   | -   | -  | -                                   | -   | (3)                            |                      |
| 33130            | Electrometallurgical products, n.s.k.....                                   | 1,774            | -   | -   | -  | -   | -   | 1,774                                    | -                                   | -   | (3)                            |                      |
| 33122            | Steel ingot and semifinished shapes.....                                    | 2,034,695        | 883,076                                   | 51,150,164                                    | (200-500)                                  | 478,313                                       | (200-500)                                   | -  | (3)                                 | (3)                                       | 1,435                          |                      |
| 33123            | Hot rolled sheet and strip, including tin mill products.....                | 3,969,289        | 2,129,981                                 | 1,000,890                                     | 490,634                                    | 510,256                                       | 832,690                                     | -  | (3)                                 | (3)                                       | 5,728                          |                      |
| 33124            | Hot rolled bars and bar shapes, plates, structural shapes and piling.....   | 3,667,698        | 2,038,687                                 | 1,389,544                                     | (D)  | (D)   | 226,908                                     | -  | (3)                                 | (over 2)                                  | 12,559                         |                      |
| 33125            | Steel wire:   |                  |   |   |  |   |   |  |                                     |   |                                |                      |
|                  | Made in blast furnaces and steel mills (SIC 3312).....                      | 363,952          | 133,033                                   | 160,884                                       | (D)  | (D)   | 69,739                                      | -  | -                                   | -   | -                              |                      |
| 33155            | Made in steel wire drawing (SIC 3315) and other industries.....             | 621,566          | -   | -   | -  | -   | -   | 240,856                                  | (over 2)                            | -   | 16,758                         |                      |
| 33126            | Steel pipe and tube:  |                  |   |   |  |   |   |  |                                     |   |                                |                      |
|                  | Made in blast furnaces and steel mills (SIC 3312).....                      | 1,137,456        | 677,541                                   | 289,011                                       | (D)  | (D)   | 170,904                                     | -  | -                                   | 707,371                                   | -                              |                      |
| 33176            | Made in steel pipe and tube (SIC 3317) and other industries.....            | 1,887,495        | -   | -   | -  | -   | -   | -  | (5-10)                              | -   | 42,668                         |                      |
| 33127            | Cold rolled steel sheet and strip:  |                  |   |   |  |   |   |  |                                     |   |                                |                      |
|                  | Made in blast furnaces and steel mills (SIC 3312).....                      | 2,464,420        | 1,361,763                                 | 624,011                                       | 264,335                                    | 357,676                                       | 478,646                                     | -  | -                                   | (3)                                       | -                              |                      |
| 33167            | Made in cold finishing of steel shapes (SIC 3316) and other industries..... | 2,872,901        | -   | -   | -  | -   | -   | (2-5)                                    | -                                   | -   | 49,470                         |                      |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963—Continued

| Prod. class code | Class of products and miscellaneous receipts  | All industries | Blast furnaces and steel mills (SIC 3312) |   |                             |                            |   |   | Electro-metalurgical products (SIC 3313) | Steel wire drawing, etc. (SIC 3315) | Cold finishing of steel shapes (SIC 3316) | Steel pipe and tube (SIC 3317) | All other industries |
|------------------|---|----------------|---|---|-----------------------------|----------------------------|---|---|--|-------------------------------------|---|--------------------------------|----------------------|
|                  |   |                | Total                                     | Subindustries                                 |                             |                            | Non-integrated works <sup>1</sup> (3312-14) |   |  |                                     |   |                                |                      |
|                  |   |                |   | Fully integrated works <sup>2</sup> (3312-11) | Total (3312-12 and 3312-13) | Partially integrated works |   | Without blast furnaces <sup>1</sup> (3312-13) |  |                                     |   |                                |                      |
| 331--            | BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS—Continued                                  |                |   |   |                             |                            |   |   |  |                                     |   |                                |                      |
| 33128            | Steel rolling and finishing products—Continued  |                |   |   |                             |                            |   |   |  |                                     |   |                                |                      |
| 33168            | Gold finished steel bar and bar shapes: (SIC 3312).....   | 472,745        | 199,435                                   | 132,809                                       | (D)                         | (D)                        | 17,203                                      | -   | -  | -                                   | -   | -                              |                      |
| 33160            | Made in blast furnaces and steel mills  |                |   |   |                             |                            |   |   |  |                                     |   |                                |                      |
| 33129            | Other steel mill products, except wire products.....  | 6316,668       | 120,653                                   | 5120,653                                      | (D)                         | (D)                        | 5120,653                                    | (5-10)  | 3,494                                    | (2-5)                               | (3)                                       | 6,955                          |                      |
| 33151            | Noninsulated ferrous wire, rope, cable, and strand, produced from wire drawn in same establishment..... | 225,760        | 129,280                                   | 62,764  | (D)                         | (D)                        | 21,810                                      | (3)   | (3)                                      | (over 2)                            | (3)                                       | 411,096                        |                      |
| 33152            | Steel nails and spikes.....   | 7189,934       | 33,207                                    | 30,769  | (3)                         | (3)                        | 539,207                                     | (2-5)   | -  | -                                   | -   | 788,988                        |                      |
| 33156            | Fencing and fence gates made in wire drawing plants.....  | 153,085        | 74,402                                    | 30,769  | (D)                         | (D)                        | 543,633                                     | (2-5)   | -  | -                                   | -   | 7,304                          |                      |
| 33157            | Wire cloth and other woven wire products made in wire drawing plants.....                               | 7115,480       | 42,201                                    | 18,903  | (D)                         | (D)                        | 11,712                                      | (D)   | -  | -                                   | -   | 757,149                        |                      |
| 33159            | Other fabricated ferrous wire products, except springs, made in wire drawing plants.                    | 772,328        | 510,466                                   | 510,466                                       | (3)                         | (3)                        | 510,466                                     | (D)   | -  | -                                   | -   | 748,011                        |                      |
| 33150            | Steel wire drawing, etc., n.s.k.....  | 7501,529       | 39,961                                    | 563,705                                       | (2-5)                       | (2-5)                      | 563,705                                     | (20-50)                                       | 77,894                                   | (3)                                 | (3)                                       | 7319,397                       |                      |
|                  | Other products.....   | 20,665         | -   | -   | -                           | -                          | -   | -   | 420,665                                  | -                                   | -   | (3)                            | (3)                  |
| 19110            | Gums, hoverters, mortars, and related equipment over 30 mm (or over 1.18 inches).....                   | (X)            | 544,472                                   | 246,459                                       | 23,172                      | 223,287                    | 142,649                                     | 864,771                                       | 51,841                                   | 21,301                              | 53,093                                    | (X)                            |                      |
| 28132            | Acetylene.....  | (X)            | (2-5)                                     | (3)   | -                           | (3)                        | -   | (10-20)                                       | -  | -                                   | -   | (X)                            |                      |
| 28191            | Synthetic ammonia, nitric acid, and ammonium compounds.....   | (X)            | (5-10)                                    | -   | -                           | -                          | -   | (3)   | -  | -                                   | -   | (X)                            |                      |
| 28193            | Sulfuric acid.....  | (X)            | (2-5)                                     | -   | -                           | -                          | -   | (3)   | -  | -                                   | -   | (X)                            |                      |
| 28199            | Reagent and high purity grades of inorganic chemicals and other inorganic chemicals, n.e.c.....         | (X)            | (3)                                       | (3)   | (20-50)                     | (3)                        | (3)   | (10-20)                                       | (3)                                      | -                                   | -   | (X)                            |                      |
| 33211            | Molds for heavy steel ingots.....   | (X)            | 79,293                                    | (over 2)                                      | (over 2)                    | (over 2)                   | (over 2)                                    | -   | -  | -                                   | -   | (X)                            |                      |
| 33212            | Cast iron pressure pipe.....  | (X)            | (5-10)                                    | (5-10)  | (3)                         | (3)                        | (3)   | -   | -  | -                                   | -   | (X)                            |                      |
| 33214            | Miscellaneous gray iron castings.....   | (X)            | (5-10)                                    | (3)   | (3)                         | (3)                        | (3)   | -   | -  | -                                   | -   | (X)                            |                      |
| 33230            | Steel castings.....   | (X)            | 22,473                                    | 522,473                                       | (3)                         | (3)                        | 522,473                                     | (3)   | -  | -                                   | (3)                                       | (X)                            |                      |
| 33512            | Rolled, drawn, and extruded copper and copper-base alloy mill products.....                             | (X)            | (2-5)                                     | -   | -                           | -                          | (2-5)                                       | (3)   | -  | -                                   | -   | (X)                            |                      |
| 33560            | Rolled, drawn, and extruded nonferrous metal mill products (except copper and aluminum).....            | (X)            | 6,681                                     | (2-5)   | (3)                         | (3)                        | (3)   | (3)   | (3)                                      | (2-5)                               | (2-5)                                     | (X)                            |                      |
| 33573            | Other bare nonferrous metal wire, made in nonferrous wire drawing plants.....                           | (X)            | -   | -   | -                           | -                          | -   | -   | (2-5)                                    | (3)                                 | -   | (X)                            |                      |
| 33911            | Drop, upset, and press steel forgings (closed die).....   | (X)            | 31,401                                    | (10-20)                                       | -                           | (10-20)                    | (2-5)                                       | -   | -  | -                                   | (3)                                       | (X)                            |                      |
| 33992            | Other primary metal products, including nonferrous nails, brads, spikes, and staples.....               | (X)            | -   | -   | -                           | -                          | -   | -   | (5-10)                                   | -                                   | -   | (X)                            |                      |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963—Continued

| Prod. class code | Class of products and miscellaneous receipts   | All industries | Blast furnaces and steel mills (SIC 3312) |   |                             |  |   |   | Steel wire drawing, etc. (SIC 3315) | Cold finishing of steel shapes (SIC 3316) | Steel pipe and tube (SIC 3317) | All other industries |
|------------------|--|----------------|---|---|-----------------------------|--|---|---|-------------------------------------|---|--------------------------------|----------------------|
|                  |  |                | Total                                     | Fully integrated works <sup>1</sup> (3312-11) | Partially integrated works  |  | Non-integrated works <sup>1</sup> (3312-14) | Electro-metallurgical products (SIC 3313) |                                     |   |                                |                      |
|                  |  |                |   |   | Total (3312-12 and 3312-13) | With blast furnaces <sup>1</sup> (3312-12) |   |   |                                     |   |                                |                      |
|                  | BLAST FURNACES, STEEL WORKS, AND ROLLING AND FINISHING MILLS—Continued   |                |   |   |                             |  |   |   |                                     |   |                                |                      |
| 34413            | Other products—Continued   | (X)            | (5-10)                                    | -   | (5-10)                      | -  | (5-10)                                      | -   | -                                   | -   | (X)                            |                      |
| 34432            | Other fabricated structural iron and steel...<br>Fabricated steel plate, including stacks<br>and weldments.....          | (X)            | 5,431<br>(5-10)                           | 5,431<br>(5-10)                               | (3)<br>(5-10)               | (3)<br>(5-10)                              | (3)<br>(5-10)                               | (3)<br>(5-10)                             | (3)<br>(5-10)                       | (10-20)                                   | (X)                            |                      |
| 34434            | Gas cylinders.....   | (X)            | -   | -   | -                           | -  | -   | -   | -                                   | -   | (X)                            |                      |
| 34441            | Sheet, metal roofing and siding, and roof<br>drainage equipment.....   | (X)            | 31,465<br>(2-5)                           | (5-10)  | (3)<br>(2-5)                | (3)<br>(2-5)                               | (3)<br>(2-5)                                | 731,465<br>(3)                            | -                                   | (5-10)                                    | (X)                            |                      |
| 34442            | Culverts, flumes, irrigation pipes.....  | (X)            | (2-5)                                     | (3)   | (3)                         | (3)  | (3)   | (3)                                       | -                                   | (5-10)                                    | (X)                            |                      |
| 34443            | Other sheet metal work.....  | (X)            | (5-10)                                    | (3)   | (3)                         | (3)  | (3)   | (3)                                       | -                                   | (5-10)                                    | (X)                            |                      |
| 34493            | Miscellaneous metal building materials and<br>curtain wall.....  | (X)            | 90,223<br>(5-10)                          | (5-10)  | 64,114<br>(5-10)            | 64,114<br>(5-10)                           | 64,114<br>(5-10)                            | 526,109<br>(20-50)                        | (3)                                 | -   | (X)                            |                      |
| 34521            | Bolts, nuts, and other standard industrial<br>fasteners.....   | (X)            | (50-100)                                  | (2-5)   | (10-20)                     | (10-20)                                    | (10-20)                                     | (20-50)                                   | 3,032                               | (3)                                       | (X)                            |                      |
| 34523            | Headed products (produced by cold and hot<br>heading), other than industrial fasteners.....                              | (X)            | -   | -   | -                           | -  | -   | -   | (2-5)                               | -   | (X)                            |                      |
| 34612            | Job stampings, except automotive.....  | (X)            | (10-20)                                   | -   | (5-10)                      | (5-10)                                     | (5-10)                                      | (5-10)                                    | -                                   | (3)                                       | (X)                            |                      |
| 34613            | Job stampings, automotive.....   | (X)            | (5-10)                                    | -   | (5-10)                      | (5-10)                                     | (5-10)                                      | (5-10)                                    | -                                   | (3)                                       | (X)                            |                      |
| 34618            | Other stamped and pressed metal end products.  | (X)            | (10-20)                                   | (5-10)  | (5-10)                      | (5-10)                                     | (5-10)                                      | (2-5)                                     | (3)                                 | -   | (X)                            |                      |
| 34812            | Precision mechanical springs.....  | (X)            | (5-10)                                    | -   | (3)                         | (3)  | (3)   | (5-10)                                    | (2-5)                               | -   | (X)                            |                      |
| 34930            | Steel springs.....   | (X)            | (3)                                       | -   | (3)                         | (3)  | (3)   | (5-10)                                    | (5-10)                              | -   | (X)                            |                      |
| 34942            | Metal fittings and unions for piping systems.  | (X)            | (5-10)                                    | -   | (5-10)                      | (5-10)                                     | (5-10)                                      | (5-10)                                    | (3)                                 | (3)                                       | (X)                            |                      |
| 34990            | Fabricated metal products, n.e.c.....  | (X)            | 84,424<br>(over 2)                        | (over 2)                                      | 52,216<br>(over 2)          | 52,216<br>(over 2)                         | 52,216<br>(over 2)                          | (3)                                       | (3)                                 | (3)                                       | (X)                            |                      |
| 35333            | Oil and gas field production machinery and<br>equipment (except pumps).....  | (X)            | (2-5)                                     | -   | -                           | -  | -   | (2-5)                                     | -                                   | -   | (X)                            |                      |
| 35540            | Paper industries machinery and parts and<br>attachments.....   | (X)            | -   | -   | -                           | -  | -   | -   | -                                   | (5-10)                                    | (X)                            |                      |
| 35790            | Addressing, dictating, duplicating, and<br>office machines, n.e.c.....   | (X)            | -   | -   | -                           | -  | -   | -   | 6,729                               | -   | (X)                            |                      |
| 35990            | Carburetors, pistons, and other machine<br>shop products.....  | (X)            | (2-5)                                     | -   | (3)                         | (3)  | (3)   | (2-5)                                     | -                                   | -   | (X)                            |                      |
| 36442            | Electrical conduit and conduit fittings.....   | (X)            | 19,741<br>(over 2)                        | (over 2)                                      | (2-5)                       | (2-5)                                      | (2-5)                                       | (2-5)                                     | -                                   | 9,742                                     | (X)                            |                      |
| 36795            | Other electronic components and accessories,<br>n.e.c., including parts for electron tubes<br>(except glass blanks)..... | (X)            | 19,395                                    | 3,713   | 10,725                      | 10,725                                     | 10,725                                      | 4,957                                     | 1,282                               | 5,030                                     | (X)                            |                      |
|                  | All other products.....  | (X)            | 344,045                                   | 111,283                                       | 135,669                     | 37,290                                     | 98,379                                      | 97,093                                    | (8)                                 | 22,236                                    | (X)                            |                      |
|                  | Miscellaneous receipts.....  | (X)            | 49,265                                    | 12,995  | 30,232                      | 3,480                                      | 31,880                                      | 6,038                                     | (3)                                 | 1,043                                     | (X)                            |                      |
|                  | Conversion of steel for other companies.....   | (X)            | 9,382                                     | 88  | 5,128                       | 6,485                                      | 11,712                                      | 4,166                                     | (10-15)                             | 568                                       | (X)                            |                      |
|                  | Other contract and commission work.....  | (X)            | 112,301                                   | 36,407  | 18,197                      | 6,485                                      | 11,712                                      | 57,697                                    | 290                                 | 4,639                                     | (X)                            |                      |
|                  | Sale of scrap and refuse.....  | (X)            | 109,781                                   | 14,005  | 77,382                      | 24,377                                     | 53,005                                      | 18,394                                    | (10-15)                             | 40,942                                    | (X)                            |                      |
|                  | Resales.....   | (X)            | 63,316                                    | 47,788  | 4,730                       | 2,948                                      | 1,782                                       | 10,798                                    | (3)                                 | 255                                       | (X)                            |                      |
|                  | All other receipts.....  | (X)            |   |   |                             |  |   |   |                                     |   | (X)                            |                      |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963—Continued

Footnotes for table 5B-33A--Continued

- <sup>1</sup>See footnote 6, table 1, for definition of fully integrated, partially integrated, and nonintegrated works.  
<sup>2</sup>The value of shipments of industry 3312 includes duplication in that the products of some establishments are used as materials by others. For 1963, it is estimated that the duplication amounted to \$2.28 billion and accordingly a net value of shipments would total \$14.33 billion. See text for fuller explanation.  
<sup>3</sup>Less than \$2 million. Exact figures are withheld to avoid disclosing figures of individual companies.  
<sup>4</sup>Includes figures for industries not shown separately.  
<sup>5</sup>Includes figures for subindustries not shown separately.  
<sup>6</sup>Includes total for product class 33919, Open die or smith forgings made in steel forgings and other industries which are primary to industry 3391.  
<sup>7</sup>The totals for product classes 33151, 33156, 33157, and 33159 include respectively the totals for product classes 34811, 34816, 34814 and 34819 which are primary to industry 3481, Fabricated Wire Products, N.E.C. Shipments of these product classes totaled as follows:

| Product class | Value (\$1,000) |
|---------------|-----------------|
| 34811         | \$ 82,619       |
| 34816         | 53,218          |
| 34814         | 38,767          |
| 34819         | 286,070         |

<sup>8</sup>Total for miscellaneous receipts included with "Other products" to avoid disclosing individual company figures.

TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code                                       | Product   | Unit of measure                   | Shipments including interplant transfers |                 |                  |                              |                 |   | Produced and consumed in the same plant in the manufacture of other products |                 |
|--|---|-----------------------------------|--|-----------------|------------------|------------------------------|-----------------|---|--|-----------------|
|  |   |                                   | Production                               | Total shipments |                  | Shipments to other companies |                 | Transfers to other plants of the same company |  |                 |
|  |   |                                   |  | Quantity        | Value (\$1,000)  | Quantity                     | Value (\$1,000) | Quantity                                      |  | Value (\$1,000) |
| 1963   |   |                                   |  |                 |                  |                              |                 |   |  |                 |
| 3313- --<br>33121 pt.                              | ELECTROMETALLURGICAL PRODUCTS, TOTAL.....   | Short tons (gross alloy wt.)..... | (X)                                      | (X)             | 414,580          | (D)                          | (D)             | (D)   | (D)  | (X)             |
| 33121 pt.  | Made in blast furnace (industry 3312).....  | ...do.....                        | 642,917                                  | 538,588         | 71,969           | (D)                          | (D)             | (D)   | (D)  | 77,457          |
| 3313- --   | Made in electric and other furnaces (industry 3313 and other industries).....                                   | ...do.....                        | (X)                                      | (X)             | 342,611          | (D)                          | (D)             | (D)   | (D)  | (X)             |
| 33132 11   | Ferrocchrome.....   | ...do.....                        | 309,922                                  | 277,669         | 85,313           | 238,868                      | 72,416          | 38,801  | 12,897   | 38,226          |
| 33133 11   | Ferrosilicon.....   | ...do.....                        | 452,669                                  | 411,946         | 78,092           | 376,258                      | 70,524          | 35,688  | 7,568  | 25,810          |
| 33121 85<br>33131 11                               | Ferromanganese.....   | ...do.....                        | 1,381,371                                | 1,212,216       | 249,401          | (D)                          | (D)             | (D)   | (D)  | (D)             |
| 33121 pt.<br>33134 --                              | Other ferroalloys.....  | ...do.....                        |  |                 |                  |                              |                 |   |  |                 |
| 33121 86<br>33134 11                               | Silvery iron.....   | ...do.....                        | 207,950                                  | 209,268         | 15,968           | (D)                          | (D)             | (D)   | (D)  | (D)             |
| 33121 85<br>33131 11<br>33121 89<br>33134 98       | Other ferroalloys, including spiegeleisen and ferromanganese  | ...do.....                        | 1,173,421                                | 1,002,948       | 233,433          | (D)                          | (D)             | (D)   | (D)  | (D)             |
| 33130 00   | Electrometallurgical products, n.s.k.....   | .....                             | (X)                                      | (X)             | 1,774            | (X)                          | 1,774           | (X)   | -  | (X)             |
| 3312- --   | BLAST FURNACE (INCLUDING COKE OVEN), STEEL WORKS AND ROLLING MILL PRODUCTS, TOTAL.....                          | .....                             | (X)                                      | (X)             | 17,553,735       | (X)                          | (X)             | (X)   | (X)  | (X)             |
| 33121 --   | Coke oven, blast furnace, and selected electrometallurgical products.....                                       | .....                             | (X)                                      | (X)             | 1,484,920        | (X)                          | (X)             | (X)   | (X)  | (X)             |
| 33121 11   | Coke oven products: <sup>1</sup><br>Coke, except screenings and breeze.....                                     | 1,000 short tons.....             | 52,592                                   | 18,774          | 306,330          | 8,862                        | 155,293         | 9,912   | 151,037  | 33,841          |
| 33121 12   | Screenings and breeze.....  | ...do.....                        | 3,434                                    | 1,415           | 10,835           | 919                          | 7,263           | 496   | 3,572  | 2,269           |
| 33121 31   | Coke oven gas.....  | Mil. cu. ft.....                  | 1,263,445                                | 144,469         | 31,358           | 43,595                       | 11,638          | 100,874                                       | 19,720   | 1,141,219       |
| 33121 41   | Coke oven byproducts:<br>Ammonia (sulfate and liquor).....  | .....                             | (X)                                      | (X)             | 18,834           | (X)                          | 18,539          | (X)   | 295  | (X)             |
| 33121 51   | Crude tar.....  | 1,000 gallons..                   | 651,294                                  | 354,158         | 37,198           | 287,007                      | 30,447          | 67,151  | 6,751  | 330,911         |
| 33121 61   | Tar derivatives.....  | .....                             | (X)                                      | (X)             | 23,393           | (X)                          | 28,469          | (X)   | 2,620  | (X)             |
| 33121 71   | Crude light oil.....  | 1,000 gallons..                   | 195,253                                  | 68,549          | 7,696            | 119,576                      | 29,052          | 11,911  | 2,316  | 50,526          |
| 33121 81   | Light oil derivatives.....  | ...do.....                        | 194,160                                  | 131,487         | 31,368           |                              |                 |   |  |                 |
| 33121 83   | Other coke-oven products.....   | .....                             | (X)                                      | (X)             | ( <sup>2</sup> ) | (X)                          | (X)             | (X)   | (X)  | (X)             |
| 33121 91   | Blast furnace products:<br>Pig iron, including pig iron with silicon content up to and including 6 percent..... | 1,000 short tons.....             | 70,741                                   | 12,475          | 660,194          | 3,219                        | 198,078         | 9,256   | 462,116  | 56,369          |
| 33121 92   | Slag.....   | ...do.....                        | (X)                                      | (X)             | 108,313          | (X)                          | (D)             | (X)   | (D)  | 40,416          |
| 33121 93   | Sinter from ore, flue dust, and other materials.....  | ...do.....                        | 44,675                                   |                 |                  |                              |                 |   |  |                 |
| 33121 94   | Blast furnace gas.....  | Mil. cu. ft.....                  | 3,760,237                                |                 |                  |                              |                 |   |  | 3,691,035       |
| 33121 85,<br>86, 89<br>33131 11<br>33134 11,<br>98 | Blast furnace ferroalloys.....  | Short tons.....                   | 1,381,371                                | 1,212,216       | 249,401          | (D)                          | (D)             | (D)   | (D)  | (D)             |
|  | Other ferroalloys, except ferrocchrome and ferrosilicon.  | ...do.....                        |  |                 |                  |                              |                 |   |  |                 |
| 1958   |   |                                   |  |                 |                  |                              |                 |   |  |                 |
| 3313- --<br>33121 95                               | ELECTROMETALLURGICAL PRODUCTS, TOTAL.....   | Short tons (gross alloy wt.)..... | 1,756,999                                | 1,654,400       | 468,117          | (D)                          | (D)             | (D)   | (D)  | (D)             |
| 33121 95   | Ferroalloys and other additives produced in blast furnaces.....   | ...do.....                        | 605,901                                  | 504,800         | 94,040           | (D)                          | (D)             | (D)   | (D)  | (D)             |
| 33130 12   | Electric furnace ferroalloys and other additives.....   | ...do.....                        | 1,151,098                                | 1,149,600       | 374,077          | 1,064,772                    | 347,553         | 84,828  | 26,524   | (D)             |

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code         | Product   | Unit of measure       | Shipments including interplant transfers |                 |  |                              |                 |   | Produced and consumed in the same plant in the manufacture of other products |                 |
|----------------------|---|-----------------------|--|-----------------|--|------------------------------|-----------------|---|--|-----------------|
|                      |   |                       | Production                               | Total shipments |  | Shipments to other companies |                 | Transfers to other plants of the same company |  |                 |
|                      |   |                       |  | Quantity        | Value (\$1,000)                                | Quantity                     | Value (\$1,000) | Quantity                                      |  | Value (\$1,000) |
| 1958—Continued       |   |                       |  |                 |  |                              |                 |   |  |                 |
| 3312- --             | BLAST FURNACES (INCLUDING COKE OVENS), STEEL WORKS, AND ROLLING MILLS, TOTAL....                          |                       | (X)                                      | (X)             | 14,558,530                                     | (X)                          | (X)             | (X)   | (X)  |                 |
| 33121 --<br>33130 -- | Coke oven, blast furnace, and electrometallurgical products....   |                       | (X)                                      | (X)             | <sup>2</sup> 1,524,337                         | (X)                          | (D)             | (X)   | (D)  |                 |
| 33121 11             | Coke oven products: <sup>1</sup><br>Coke, except screenings and breeze.....                               | 1,000 short tons      | 52,127                                   | 17,547          | 321,072  | 7,395                        | 140,965         | 10,152  | 180,107  | 33,906          |
| 33121 21             | Screenings and breeze.....  | do.                   | 3,589                                    | 1,140           | 8,430  | 968                          | 7,246           | 172   | 1,184  | 2,315           |
| 33121 31             | Coke oven gas.....  | Mil. cu. ft.          | 783,039                                  | 163,906         | 36,435   | 82,100                       | 22,257          | 81,806  | 14,178   | 613,961         |
| 33121 41             | Ammonia (sulfate and liquor).   |                       | (X)                                      | (X)             | 21,096   | (X)                          | 20,640          | (X)   | 456  | (X)             |
| 33121 51             | Crude tar.....  | 1,000 gallons..       | 692,349                                  | 399,093         | 52,165   | 342,561                      | 45,780          | 56,532  | 6,385  | 282,828         |
| 33121 61             | Tar derivatives.....  |                       | (X)                                      | (X)             | 19,983   | (X)                          | (D)             | (X)   | (D)  | (X)             |
| 33121 71             | Crude light oil.....  | 1,000 gallons..       | 210,859                                  | 30,656          | 5,360  | 13,797                       | 2,429           | 16,859  | 2,931  | 178,130         |
| 33121 81             | Light oil derivatives.....  | do.                   | 167,022                                  | 159,842         | 45,819   | (D)                          | (D)             | (D)   | (D)  | 15,024          |
| 33121 83             | Other coke-oven products.....   |                       | (X)                                      | (X)             | 12,374   | (X)                          | (X)             | (X)   | (X)  | (X)             |
| 33121 91             | Blast furnace products:<br>Pig iron including pig iron with silicon content up to 6 percent.....          | 1,000 short tons..... | 57,050                                   | 9,157           | 514,232  | 3,911                        | 230,281         | 5,246   | 283,951  | 47,499          |
| 33121 92             | Slag.....   | do.                   | (X)                                      | 19,889          | 10,509   | (D)                          | (D)             | (D)   | (D)  | (X)             |
| 33121 93             | Sinter from ore, flue dust, and other materials.....  | do.                   | 24,631                                   | (X)             | 8,745  | (X)                          | 7,888           | (X)   | 857  | 24,055          |
| 33121 94             | Blast furnace gas.....  | Mil. cu. ft.          | 4,395,362                                | (X)             |  |                              |                 |   |  | 4,224,557       |
| 33121 95             | Blast furnace ferroalloys....   | Short tons.....       | 1,756,999                                | 1,654,400       | <sup>2</sup> 468,117                           | (D)                          | (D)             | (D)   | (D)  | (D)             |
| 3313- --             | Other ferroalloys.....  |                       |  |                 |  |                              |                 |   |  |                 |
| Product              |   |                       | Unit of measure                          |                 | Total shipments including interplant transfers |                              |                 |   |  |                 |
|                      |   |                       |  |                 | 1963   |                              | 1958            |   |  |                 |
|                      |   |                       |  |                 | Quantity                                       | Value (\$1,000)              | Quantity        | Value (\$1,000)                               |  |                 |
| 3312- --             | BLAST FURNACES (INCLUDING COKE OVENS), STEEL WORKS, AND ROLLING MILLS—Continued                           |                       |  |                 |  |                              |                 |   |  |                 |
| 33122 --             | Steel ingot and semifinished shapes: <sup>3</sup><br>As reported in census of manufactures.....           |                       |  |                 | (X)  | 2,034,695                    | (X)             | 1,846,924                                     |  |                 |
|                      | As reported on Annual Form MA-33B.....  |                       |  |                 | (X)  | 1,978,253                    | (X)             | 1,833,913                                     |  |                 |
| 33123 --             | Tin mill products, hot rolled sheet and strip: <sup>3</sup><br>As reported in census of manufactures..... |                       |  |                 | (X)  | 3,969,289                    | (X)             | 3,169,294                                     |  |                 |
|                      | As reported on Annual Form MA-33B.....  |                       |  |                 | (X)  | 3,931,707                    | (X)             | 3,125,915                                     |  |                 |
| 33124 --             | Hot rolled bars and bar shapes, plates: <sup>3</sup><br>As reported in census of manufactures.....        |                       |  |                 | (X)  | 3,667,698                    | (X)             | 2,879,672                                     |  |                 |
|                      | As reported on Annual Form MA-33B.....  |                       |  |                 | (X)  | 3,639,007                    | (X)             | 2,856,680                                     |  |                 |
| 33125 --             | Steel wire: <sup>3</sup><br>As reported on Annual Form MA-33B.....  |                       |  |                 | (X)  | 587,786                      | (X)             | 556,712                                       |  |                 |
| 33125 01             | As reported in census of manufactures <sup>4</sup> .....  |                       |  |                 | (X)  | 621,566                      | (X)             | 564,734                                       |  |                 |
| 33125 01             | Made in steel mills (industry 3312).....  |                       |  |                 | (X)  | 363,952                      | (X)             | 350,175                                       |  |                 |
| 33125 01             | Made in steel wire drawing (industry 3315) and other industries.....                                      |                       |  |                 | (X)  | 257,614                      | (X)             | 214,559                                       |  |                 |
| 33126 --             | Steel pipe and tube: <sup>3</sup><br>As reported on Annual Form MA-33B.....                               |                       |  |                 | (X)  | 1,797,047                    | (X)             | 1,670,077                                     |  |                 |
| 33126 01             | As reported in census of manufactures <sup>4</sup> .....  |                       |  |                 | (X)  | 1,887,495                    | (X)             | 1,723,643                                     |  |                 |
| 33126 01             | Made in steel mills (industry 3312).....  |                       |  |                 | (X)  | 1,137,456                    | (X)             | 993,340                                       |  |                 |
| 33126 01             | Made in steel pipe and tubes (industry 3317) and other industries.....                                    |                       |  |                 | (X)  | 750,039                      | (X)             | 730,303                                       |  |                 |
| 33127 --             | Cold rolled steel sheet and strip: <sup>3</sup><br>As reported on Annual Form MA-33B.....                 |                       |  |                 | (X)  | 2,781,560                    | (X)             | 2,073,358                                     |  |                 |
| 33127 01             | As reported in census of manufactures.....  |                       |  |                 | (X)  | 2,872,901                    | (X)             | 2,091,623                                     |  |                 |
| 33127 01             | Made in steel mills (industry 3312).....  |                       |  |                 | (X)  | 2,464,420                    | (X)             | 1,838,390                                     |  |                 |
| 33127 01             | Made in cold finishing of steel shapes (industry 3316) and other industries.....                          |                       |  |                 | (X)  | 408,481                      | (X)             | 253,233                                       |  |                 |
| 33128 --             | Cold finished steel bars, and bar shapes: <sup>3</sup><br>As reported on Annual Form MA-33B.....          |                       |  |                 | (X)  | 476,066                      | (X)             | 331,530                                       |  |                 |
| 33168 --             | As reported in census of manufactures.....  |                       |  |                 | (X)  | 472,745                      | (X)             | 338,924                                       |  |                 |

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure                                 | Total shipments including interplant transfers |                      |                      |                      |
|--------------|--|---|--|----------------------|----------------------|----------------------|
|              |  |   | 1963   |                      | 1958                 |                      |
|              |  |   | Quantity                                       | Value (\$1,000)      | Quantity             | Value (\$1,000)      |
| 3312- --     | BLAST FURNACES (INCLUDING COKE OVENS), STEEL WORKS, AND ROLLING MILLS—Continued                  |   |  |                      |                      |                      |
|              | Cold finished steel bars, and bar shapes <sup>3</sup> —Continued                                 |   |  |                      |                      |                      |
|              | As reported in census of manufactures—Continued  |   |  |                      |                      |                      |
| 33128 01     | Made in steel mills (industry 3312).....   | .....   | (X)  | 199,375              | (X)                  | 130,623              |
| 33168 01     | Made in cold finishing of steel shapes (industry 3316) and other industries.....                 | .....   | (X)  | 273,370              | (X)                  | 208,301              |
| 33129 --     | Press and hammer steel forgings: <sup>5</sup> .....  | .....   | (X)  | 316,668              | (X)                  | 234,641              |
| 33919 --     |  | .....   |  |                      |                      |                      |
| 33129 --     | Made in steel works (industry 3312).....   | Short tons.....                                 | (X)  | 120,653              | 129,289              | 119,487              |
| 33919 --     | Made in steel forgings (industry 3391) and other industries.....                                 | .....   | (X)  | 196,015              | (X)                  | 115,154              |
|              | Open die hammer forgings:  |   |  |                      |                      |                      |
| 33129 21     | Carbon steel.....  | Short tons.....                                 | 129,819  | 56,558               | <sup>6</sup> 126,836 | <sup>6</sup> 59,174  |
| 33919 21     |  | .....   |  |                      |                      |                      |
| 33129 23     | Alloy steel (except stainless).....  | ..do.....                                       | 70,597   | 61,440               | 138,291              | 152,249              |
| 33919 23     |  | .....   |  |                      |                      |                      |
| 33129 22     | Made in industry 3312.....   | ..do.....                                       | 12,532   | 19,588               | 75,657               | 88,921               |
| 33919 22     |  | Made in industry 3391 and other industries..... | ..do.....                                      | 58,065               | 41,852               | 62,634               |
| 33129 25     | Stainless steel.....   | ..do.....                                       | 4,104  | 10,243               | 7,749                | 18,310               |
| 33919 23     |  | .....   |  |                      |                      |                      |
|              | Open die press forgings:   |   |  |                      |                      |                      |
| 33129 61     | Carbon steel.....  | ..do.....                                       | 174,229  | 60,866               | ( <sup>6</sup> )     | ( <sup>6</sup> )     |
| 33919 61     |  | .....   |  |                      |                      |                      |
| 33129 61     | Made in industry 3312.....   | ..do.....                                       | 21,336   | 11,144               | ( <sup>6</sup> )     | ( <sup>6</sup> )     |
| 33919 61     |  | Made in industry 3391 and other industries..... | ..do.....                                      | 152,893              |                      |                      |
| 33129 63     | Alloy steel (except stainless).....  | ..do.....                                       | 129,982  | 101,076              | ( <sup>7</sup> )     | ( <sup>7</sup> )     |
| 33919 42     |  | .....   |  |                      |                      |                      |
| 33129 63     | Made in industry 3312.....   | ..do.....                                       | 49,793   | 52,501               | ( <sup>7</sup> )     | ( <sup>7</sup> )     |
| 33919 42     |  | Made in industry 3391 and other industries..... | ..do.....                                      | 80,189               |                      |                      |
| 33129 65     | Stainless steel.....   | ..do.....                                       | 2,538  | 5,127                | ( <sup>8</sup> )     | ( <sup>8</sup> )     |
| 33919 43     |  | .....   |  |                      |                      |                      |
| 33129 00     | Open die hammer and press forgings, n.s.k.....   | .....   | (X)  | 21,358               | (X)                  | 4,908                |
| 33919 00     |  | .....   |  |                      |                      |                      |
| 33120 41     | Other steel mill products, except wire products: <sup>3</sup>                                    |   |  |                      |                      |                      |
|              | As reported on Annual Form MA-33B.....   | .....   | (X)  | 184,397              | (X)                  | 194,224              |
|              | As reported in census of manufactures.....   | .....   | (X)  | 225,760              | (X)                  | 198,515              |
| 3315- --     | STEEL WIRE DRAWING AND STEEL NAILS AND SPIKES, TOTAL.....  | .....   | (X)  | 1,672,445            | (X)                  | 1,490,977            |
| 33151 --     | Noninsulated ferrous wire rope, cable, and strand.....   | .....   | (X)  | 189,934              | (X)                  | 163,386              |
| 34811 --     |  | .....   |  |                      |                      |                      |
| 33151 --     | Made in industries 3312 and 3315.....  | .....   | (X)  | 100,946              | (X)                  | 94,106               |
| 34811 --     | Made in fabricated wire products, n.e.c. (industry 3481) and other industries.....               | .....   | (X)  | 88,988               | (X)                  | 69,280               |
| 33151 11     | Iron and steel wire rope and cable.....  | Short tons.....                                 | 235,262  | 141,184              | 187,395              | 125,025              |
| 34811 11     |  | .....   |  |                      |                      |                      |
| 33151 11     | Made in industries 3312 and 3315.....  | ..do.....                                       | 135,385  | 67,775               | 96,686               | 62,561               |
| 34811 11     |  | Made in industry 3481 and other industries..... | ..do.....                                      | 99,877               | 73,409               | 90,709               |
| 33151 21     | Composite strand, rope, and cable, including wire strands of different metals (except ACSR)..... | ..do.....                                       | 69,533   | 27,952               | 8,321                | 6,155                |
| 33481 21     |  | .....   |  |                      |                      |                      |
| 33151 33     | Steel wire strand, except wire strand for prestressed concrete, including guard rail cable.....  | ..do.....                                       | 36,216   | 11,773               | (NA)                 | 30,352               |
| 34811 33     |  | .....   |  |                      |                      |                      |
| 33151 35     | Wire strand for prestressed concrete.....  | ..do.....                                       | (X)  | 9,025                | (X)                  | 1,854                |
| 34811 35     |  | .....   |  |                      |                      |                      |
| 33151 00     | Noninsulated ferrous wire, rope, cable, and strand, n.s.k.....                                   | .....   | (X)  | 153,085              | (X)                  | 159,363              |
| 34811 00     |  | .....   |  |                      |                      |                      |
| 33152 --     | Steel nails and spikes.....  | .....   | (X)  | 153,085              | (X)                  | 159,363              |
|              | Steel wire nails, spikes and brads:  |   |  |                      |                      |                      |
| 33152 11     | Bright.....  | Short tons.....                                 | 226,587  | 54,637               | 293,948              | 62,734               |
| 33152 13     | Galvanized.....  | ..do.....                                       | 47,899   | 13,163               | 73,114               | 20,671               |
| 33152 17     | Cement-coated.....   | ..do.....                                       | 45,053   | 10,347               | 65,431               | 14,359               |
| 33152 19     | Other nails, spikes, etc.....  | ..do.....                                       | 30,759   | 11,480               | 28,423               | 9,643                |
| 33152 23     | Steel wire staples:  |   |  |                      |                      |                      |
|              | Quantity reported.....   | ..do.....                                       | 39,357   | 23,645               | 44,741               | 17,419               |
|              | Quantity not reported.....   | .....   | (X)  | 12,978               | (X)                  | 3,433                |
| 33152 25     | Steel tacks (wire and box).....  | Short tons.....                                 | 12,086   | 8,534                | (NA)                 | 8,846                |
| 33152 28     | Track spikes.....  | ..do.....                                       | 33,507   | 8,446                | 87,889               | 17,613               |
| 33152 32     | Steel cut nails, spikes, and brads, including horseshoe nails but excluding track spikes.....    | ..do.....                                       | 11,289   | 6,506                |                      |                      |
| 33152 00     | Steel nails and spikes, n.s.k.....   | .....   | (X)  | 3,349                | (X)                  | 4,645                |
| 33155 --     | Steel wire.....  | .....   | (X)  | <sup>9</sup> 619,424 | (X)                  | <sup>9</sup> 564,734 |
| 33125 --     |  | .....   |  |                      |                      |                      |

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code  | Product  | Unit of measure | Total shipments including interplant transfers |                 |          |                      |
|---|--|-----------------|--|-----------------|----------|----------------------|
|   |  |                 | 1963   |                 | 1958     |                      |
|   |  |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000)      |
| STEEL WIRE DRAWING AND STEEL NAILS AND SPIKES—Continued |  |                 |  |                 |          |                      |
| 33156 --<br>34816 --                                    | Fencing and fence gates.....   | .....           | (X)  | 115,480         | (X)      | 103,309              |
| 33156 --<br>34816 --                                    | Made in industries 3312 and 3315.....  | .....           | (X)  | 58,331          | (X)      | 48,045               |
|   | Made in fabricated wire products, n.e.c. (industry 3481) and other industries..... | .....           | (X)  | 57,149          | (X)      | 55,264               |
| 33156 13<br>34816 13                                    | Chain link fencing, excluding post, gates and fittings.....                        | Short tons....  | (NA)   | 37,458          | (NA)     | 56,277               |
| 33156 35<br>34816 35                                    | Fence gates, posts, and fittings.....  | ..do.....       | 125,883  | 38,467          |          |                      |
| 33156 13,<br>35   | Made in industries 3312 and 3315.....  | ..do.....       | (NA)   | 30,231          | 51,456   | 11,654               |
| 34816 13,<br>35   | Made in industry 3481 and other industries.....                                    | ..do.....       | (NA)   | 45,694          | (NA)     | 42,599               |
| 33156 21<br>34816 21                                    | Wire fence, woven and welded.....  | ..do.....       | 132,190  | 33,294          | (NA)     | 34,363               |
| 33156 21<br>34816 21                                    | Made in industries 3312 and 3315.....  | ..do.....       | 109,694  | 26,256          | 127,770  | 30,194               |
|   | Made in industry 3481 and other industries.....                                    | ..do.....       | 22,496   | 7,038           | (NA)     | 4,169                |
| 33156 71<br>34816 71                                    | Ornamental lawn fence.....   | ..do.....       | 11,011   | 3,452           | 19,754   | 5,695                |
| 33156 71<br>34816 71                                    | Made in industries 3312 and 3315.....  | ..do.....       | 5,781  | 1,844           | 17,995   | 5,134                |
|   | Made in industry 34816 and other industries.....                                   | ..do.....       | 5,230  | 1,608           | 1,759    | 561                  |
| 33156 00<br>34816 00                                    | Fencing and fence gates, n.s.k.....  | .....           | (X)  | 2,809           | (X)      | 6,974                |
| 33157 --<br>34814 --                                    | Ferrous wire cloth and other woven ferrous wire products.....                      | .....           | (X)  | 72,328          | (X)      | <sup>10</sup> 97,899 |
| 33157 --<br>34814 --                                    | Made in industries 3312 and 3315.....  | .....           | (X)  | 24,317          | (X)      | 25,943               |
|   | Made in fabricated wire products, n.e.c. (industry 3481) and other industries..... | .....           | (X)  | 48,011          | (X)      | 71,956               |
| 33157 11<br>34814 11                                    | Insect wire screening, steel, including stainless steel.....                       | 1,000 sq. ft... | 168,633  | 7,454           | 217,660  | 9,791                |
| 33157 31<br>34814 31                                    | Hardware cloth.....  | Short tons....  | 8,637  | 6,277           | 10,162   | 7,218                |
| 33157 61<br>34814 61                                    | Industrial wire cloth, steel.....  | 1,000 sq. ft... | (NA)   | 23,713          | 48,508   | 24,675               |
| 33157 61<br>34814 61                                    | Made in industries 3312 and 3315.....  | ..do.....       | (NA)   | 4,603           | 17,041   | 3,200                |
|   | Made in industry 3481 and other industries.....                                    | ..do.....       | 25,872   | 19,110          | 31,467   | 21,475               |
| 33157 71<br>34814 71                                    | Woven wire netting (poultry, fur farm, stucco, etc.).....                          | Short tons....  | (NA)   | 13,617          | 52,189   | 16,460               |
| 33157 98<br>34814 98                                    | Other wire cloth and woven wire products including diamond cloth.....              | .....           | (X)  | 20,058          | (X)      | <sup>10</sup> 16,679 |
| 33157 00<br>34814 00                                    | Wire cloth and woven wire products, n.s.k.....                                     | .....           | (X)  | 1,209           | (X)      | <sup>11</sup> 23,076 |
| 33159 --<br>34819 --                                    | Other fabricated wire products.....  | .....           | (X)  | 501,529         | (X)      | 405,656              |
| 33159 --<br>34819 --                                    | Made in industries 3312 and 3315.....  | .....           | (X)  | 181,560         | (X)      | 143,168              |
|   | Made in fabricated wire products, n.e.c. (industry 3481) and other industries..... | .....           | (X)  | 319,969         | (X)      | 262,488              |
| Wire chain:   |  |                 |  |                 |          |                      |
| 33159 41<br>34819 41                                    | Tire.....  | Short tons....  | 20,899   | 14,834          | 28,844   | 20,141               |
| 33159 41<br>34819 41                                    | Made in industries 3312 and 3315.....  | ..do.....       | 7,772  | 5,609           | 9,626    | 7,018                |
|   | Made in industry 3481 and other industries.....                                    | ..do.....       | 13,127   | 9,225           | 19,218   | 13,123               |
| 33159 49<br>34819 49                                    | Other.....   | ..do.....       | 61,465   | 44,652          | 47,944   | 34,553               |
| 33159 49<br>34819 49                                    | Made in industries 3312 and 3315.....  | ..do.....       | 19,740   | 14,161          | 14,557   | 11,649               |
|   | Made in industry 3481 and other industries.....                                    | ..do.....       | 41,725   | 30,491          | 33,387   | 22,904               |
| 33159 51<br>34819 51                                    | Barbed and twisted steel wire.....   | ..do.....       | 110,613  | 20,348          | 57,388   | 12,131               |
| 33159 55<br>34819 55                                    | Wire bale ties.....  | ..do.....       | 17,340   | 17,340          | 71,260   | 15,682               |
| 33159 55<br>34819 55                                    | Made in industries 3312 and 3315.....  | ..do.....       | 73,184   | 13,932          | 56,717   | 12,181               |
|   | Made in industry 3481 and other industries.....                                    | ..do.....       | 13,750   | 3,408           | 14,543   | 3,501                |
| Welded steel wire fabric:                               |  |                 |  |                 |          |                      |
| 33159 61<br>34819 61                                    | Concrete reinforcing mesh.....   | ..do.....       | 486,664  | 94,172          | 516,694  | 97,539               |
| 33159 61<br>34819 61                                    | Made in industries 3312 and 3315.....  | ..do.....       | 379,350  | 74,160          | 435,148  | 80,106               |
|   | Made in industry 3481 and other industries.....                                    | ..do.....       | 107,314  | 20,012          | 81,546   | 17,433               |
| 33159 65<br>34819 65                                    | Other welded steel wire fabric.....  | ..do.....       | 127,661  | 31,191          | 74,392   | 19,454               |
| 33159 65<br>34819 65                                    | Made in industries 3312 and 3315.....  | ..do.....       | 116,676  | 27,305          | 64,145   | 16,207               |
|   | Made in industry 3481 and other industries.....                                    | ..do.....       | 10,985   | 3,886           | 10,247   | 3,247                |

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure   | Total shipments including interplant transfers |                        |          |                        |       |         |
|--------------|---|---|--|------------------------|----------|------------------------|-------|---------|
|              |   |   | 1963   |                        | 1958     |                        |       |         |
|              |   |   | Quantity                                       | Value (\$1,000)        | Quantity | Value (\$1,000)        |       |         |
| 3315- --     | STEEL WIRE DRAWING AND STEEL NAILS AND SPIKES—Continued   |   |  |                        |          |                        |       |         |
| 33159 --     | } Other fabricated wire products—Continued<br>Made in fabricated wire products, n.e.c. (industry 3481) and other industries—Continued |   |  |                        |          |                        |       |         |
| 34819 --     |   |   |  |                        |          |                        |       |         |
| 34819 --     |   |   |  |                        |          |                        |       |         |
| 34819 --     |   |   |  |                        |          |                        |       |         |
| 33159 71     | } Wire garment hangers.....   | 1,000 lbs.....  | 161,381  | 25,645                 | 146,672  | 19,517                 |       |         |
| 34819 71     |   |   |  |                        |          |                        |       |         |
| 33159 73     |   | } Wire carts, including household, grocery type and industrial.....                       |  | (X)                    | 14,952   | }                      |       |         |
| 34819 73     |   |   |  |                        |          |                        |       |         |
| 33159 75     |   | } Steel wire cages.....   |  | (X)                    | 9,198    |                        |       |         |
| 34819 75     |   |   |  |                        |          |                        |       |         |
| 33159 77     |   | } Paper clips.....  |  |                        |          |                        | (X)   | 158,475 |
| 34819 77     |   |   |  |                        |          |                        |       |         |
| 33159 98     |   | } Other wire products including baskets, guards, florists' designs, kitchenware, etc..... |  | (X)                    | 211,298  |                        |       |         |
| 34819 98     |   |   |  |                        |          |                        |       |         |
| 33159 00     |   | } Other fabricated wire products, n.s.k.....  |  | (X)                    | 17,854   |                        | (X)   | 28,164  |
| 34819 00     |   |   |  |                        |          |                        |       |         |
| 33150 00     | Steel wire drawing, n.s.k.....  |   | (X)  | 20,665                 | (X)      |                        | 6,092 |         |
| 3316- --     | COLD-ROLLED SHEET, STRIP AND BARS, TOTAL.....   |   | (X)  | 3,332,558              | (X)      | 2,430,547              |       |         |
|              | Cold rolled steel, sheet and strip:   |   |  |                        |          |                        |       |         |
|              | As reported on Annual Form MA-33B.....  |   | (X)  | 2,781,560              | (X)      | 2,064,070              |       |         |
| 33167 01     | } As reported in census of manufactures.....  |   | (X)  | 2,856,319              | (X)      | 2,091,623              |       |         |
| 33127 01     |   |   |  |                        |          |                        |       |         |
|              | Cold finished steel bars and bar shapes:  |   |  |                        |          |                        |       |         |
|              | As reported on Annual Form MA-33B.....  |   | (X)  | 476,066                | (X)      | 331,530                |       |         |
| 33168 01     | } As reported in census of manufactures.....  |   | (X)  | 472,745                | (X)      | 338,924                |       |         |
| 33128 01     |   |   |  |                        |          |                        |       |         |
| 33160 00     | Cold rolled sheet, strip and bars, n.s.k.....   |   | (X)  | 3,494                  | (X)      |                        |       |         |
|              | Steel pipe and tubes:   |   |  |                        |          |                        |       |         |
|              | As reported on Annual Form MA-33B.....  |   | (X)  | 1,797,047              | (X)      | 1,670,077              |       |         |
| 33176 01     | } As reported in census of manufactures <sup>4</sup> .....  |   | (X)  | <sup>9</sup> 1,887,495 | (X)      | <sup>9</sup> 1,723,643 |       |         |
| 33127 01     |   |   |  |                        |          |                        |       |         |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Excludes quantities produced in byproduct coke ovens operated in conjunction with utilities manufacturing and distributing gas.  
<sup>2</sup>Data for product code 3312183 included with product codes 3312192, 3312193 and 3312194. The 1958 total for product class 33121 and 33130 includes ferrochrome and ferrosilicon which are excluded from the comparable 1963 total.

<sup>3</sup>Excludes shipments of steel processed on a conversion basis from nonsteel producing companies. Detailed data by shape and grade and net shipments figures appear in tables 6A-2, 6A-3 and 6A-4.

<sup>4</sup>Data reported in the census of manufactures differ from comparable figures reported in Annual Survey MA-33B chiefly due to companies not included in the annual survey. In addition there were minor differences between figures for a few companies reporting in the two surveys.

<sup>5</sup>These figures are not strictly comparable with tonnage shipments shown in Current Industrial Reports Series M-33C, Commercial Steel Forgings, in that the latter includes only forgings for sale, whereas the 1963 and 1958 Censuses of Manufactures include interplant transfers of forgings. Accordingly, a direct comparison with the monthly Current Industrial Reports Series is not possible. Forgings produced and consumed within the same plant are not included in either the census or the Current Industrial Reports figures. The estimated annual totals reported in the monthly Current Industrial Reports survey for commercial steel forgings were as follows:

|                             | 1963       | 1958       |
|-----------------------------|------------|------------|
|                             | Short tons | Short tons |
| Carbon.....                 | 156,074    | 92,096     |
| Alloy, including stainless. | 219,936    | 163,480    |

<sup>6</sup>In 1958 product codes 3312921, 3391921, 3312961 and 3391941 were combined.

<sup>7</sup>In 1958 product codes 3312923, 3391922, 3312963 and 3391942 were combined.

<sup>8</sup>In 1958 product codes 3312925, 3391923, 3312965 and 3391943 were combined.

<sup>9</sup>For detailed data see products of industry 3312 above.

<sup>10</sup>For 1958, data for product code 3481519, Nonferrous metal insect wire screening, other than copper and copper-base alloy, and aluminum, is included with product code 3481490, Other wire cloth and woven wire products.

<sup>11</sup>For 1958, data for product code 3481400, Wire cloth and woven wire products, not specified by kind, includes data for product code 3481500, Nonferrous wire cloth and other woven nonferrous wire products, not specified by kind.



TABLE 6A-2. Steel Mill Products—Receipts, Production, Consumption, and Shipments: 1963

| Census product code | Product  | Receipts <sup>1</sup><br>(short tons) | Production<br>(short tons) | Products consumed in producing plants (short tons) |                     |        | Shipments <sup>1</sup>                         |                          |                          | Transfers to other plants of the same company |                                 |
|---------------------|--|---------------------------------------|----------------------------|--|---------------------|--------|--|--------------------------|--------------------------|---|---------------------------------|
|                     |  |                                       |                            | In the manufacture of—                             |                     | Total  | To other companies                             |                          | Quantity<br>(short tons) |   | Value f.o.b. plant<br>(\$1,000) |
|                     |  |                                       |                            | Other steel basic shapes and forms                 | Fabricated products |        | As maintenance, repair, and operating supplies | Quantity<br>(short tons) |                          |   |                                 |
| 33122 11            | CARBON STEEL<br>Ingots.....  | 622,047                               | 98,845,947                 | 98,555,593   | 77,814              | 17,275 | 517,361  | 118,010                  | 8,399                    | 399,351                                       | 24,748                          |
| 33122 13            | Semifinished shapes and forms:<br>Blooms, billets, slabs, sheet bars, and<br>timpale bars..... | 10,439,890                            | 75,690,811                 | 74,457,133   | 128,452             | 67,682 | 11,237,971                                     | 2,849,983                | 286,445                  | 8,387,988                                     | 779,026                         |
| 33122 15            | Tube rounds.....   | 876,509                               | 2,468,629                  | 2,506,802  | (D)                 | (D)    | 822,072  | 124,364                  | 16,456                   | 697,708                                       | 92,719                          |
| 33122 17            | Skelp.....   | 547,332                               | 3,315,283                  | 2,991,463  | (D)                 | (D)    | 781,465  | 612,253                  | 67,430                   | 169,212                                       | 18,339                          |
| 33122 19            | Wire rods.....   | 1,026,640                             | 4,449,656                  | 3,957,209  | 9,347               | 3,818  | 1,543,264                                      | 1,086,007                | 158,778                  | 457,257                                       | 68,073                          |
| 33124 11            | Finished shapes and forms:<br>Plates:<br>Floor plates.....                                     | 634,069                               | 163,543                    | 480,580  | 115,974             | 86,816 | 159,969  | 159,057                  | 23,099                   | 912   | 125                             |
| 33124 13            | Plates, other than floor plates.....   | 18,737                                | 6,819,961                  | (D)  | 8,083               | 20,212 | 6,693,641                                      | 5,952,597                | 779,058                  | 741,044                                       | 100,204                         |
| 33124 15            | Structural shapes.....   | 1,002                                 | 4,833,169                  | (D)  | (D)                 | 7,699  | 4,790,034                                      | 4,530,029                | 575,227                  | 260,005                                       | 33,290                          |
| 33124 17            | Filing:<br>Sheet piling.....   |                                       | 384,305                    | (D)  | (D)                 |        | 389,843  | 382,857                  | 50,244                   | 6,986   | 926                             |
| 33124 19            | Bearing piles.....   |                                       |                            |  |                     |        |  |                          |                          |   |                                 |
| 33123 11, 15        | Sheets and strip:<br>Sheets:<br>Hot-rolled and enameling.....                                  | 4,831,049                             | 12,906,587                 | 4,427,572  | 173,305             | 33,300 | 12,792,103                                     | 9,307,452                | 1,107,979                | 3,484,651                                     | 407,361                         |
| 33123 11            | Cold-rolled.....   | 947,800                               | 15,480,678                 | 1,135,601  | 142,380             | 16,907 | 14,942,994                                     | 13,113,629               | 1,838,584                | 1,829,365                                     | 242,872                         |
| 33123 13            | Galvanized.....  | 30,205                                | 3,700,482                  | 79,918   | 164,971             | 4,596  | 3,452,791                                      | 600,959                  |                          |   |                                 |
| 33123 14, 22        | Electrical (sheets and strip).....   | (D)                                   | 53,835                     | (D)  | (D)                 | (D)    | 62,670   | 11,833                   |                          |   |                                 |
| 33123 17            | Long terms.....  | (D)                                   | 339,817                    | (D)  | (D)                 | (D)    | 332,792  | 66,158                   |                          |   |                                 |
| 33123 19            | Strip:<br>Hot-rolled.....  | 617,623                               | 1,761,156                  | 542,762  | 89,532              | 9,230  | 1,718,367                                      | 1,527,828                | 210,257                  | 190,539                                       | 23,557                          |
| 33123 15            | Cold-rolled.....   | 242,997                               | 1,338,479                  | 232,160  | 147,439             | 1,057  | 1,187,740                                      | 1,088,988                | 250,833                  | 98,752  | 22,839                          |
| 33123 21            | Galvanized.....  | 405                                   | 279,548                    | (D)  | 26,250              | 472    | 251,662  | 249,894                  | 47,465                   | 1,768   | 344                             |
| 33123 24, 25        | Tin mill products:<br>Black plate (including chemically<br>treated black plate).....           | 27,222                                | 452,558                    | 25,572   | 110                 | 792    | 432,741  | 432,741                  | 63,123                   | ( <sup>2</sup> )                              | ( <sup>2</sup> )                |
| 33123 26            | Template:<br>Hot dipped.....   | -                                     | 141,878                    | -  | -                   | 109    | 189,130  | 189,130                  | 36,638                   | -   | -                               |
| 33123 27            | Electrolytic.....  | 191                                   | 5,013,771                  | 169  | -                   | 744    | 5,045,870                                      | 5,045,773                | 941,189                  | 97  | 15                              |
| 33123 29            | Terme plate (short terms).....   |                                       |                            |  |                     |        |  |                          |                          |   |                                 |
| 33124 21            | Bars:<br>Hot-rolled bars, except concrete<br>reinforcing:<br>Hollow drill steel.....           | 1,197,973                             | 6,917,213                  | 1,134,428  | 323,405             | 29,025 | 6,527,539                                      | 5,876,992                | 848,478                  | 650,547                                       | 92,202                          |
| 33124 23            | All other.....   | 107,857                               | 3,042,021                  | (D)  | 344,266             | 10,264 | 2,668,926                                      | 2,147,456                | 228,861                  | 662,415                                       | 65,356                          |
| 33124 25            | Concrete reinforcing bars:<br>Rolled from new billets.....                                     | 9,366                                 | 177,971                    | (D)  | 35,848              | -      | 140,945  | 16,052                   |                          |   |                                 |
| 33124 27            | Rolled from old materials (rails,<br>axles, etc.).....   | 21,647                                | 316,806                    | 8,801  | 1,218               | 1,782  | 1,326,580                                      | 1,288,998                | 294,103                  | 37,582  | 7,974                           |
| 33124 29            | Cold finished bars.....  | 434                                   | 9,034                      | (D)  | -                   | 255    | 8,945  | 8,945                    | 7,335                    | -   | -                               |
|                     | Tool-steel bars.....   |                                       |                            |  |                     |        |  |                          |                          |   |                                 |

See footnotes at end of table.

TABLE 6A-2. Steel Mill Products—Receipts, Production, and Shipments: 1963—Continued

| Census product code            | Product   | Receipts <sup>1</sup><br>(short tons) | Production<br>(short tons) | Products consumed in producing plants (short tons) |                     |  | Shipments <sup>2</sup>   |                                    |                          | Transfers to other plants of the same company | Value<br>f.o.b. plant<br>(\$1,000) |                          |                                    |                                    |
|--------------------------------|---|---------------------------------------|----------------------------|--|---------------------|--|--------------------------|------------------------------------|--------------------------|---|------------------------------------|--------------------------|------------------------------------|------------------------------------|
|                                |   |                                       |                            | In the manufacture of—                             |                     | As maintenance, and operating supplies | Quantity<br>(short tons) | Value<br>f.o.b. plant<br>(\$1,000) | To other companies       |   |                                    | Quantity<br>(short tons) | Value<br>f.o.b. plant<br>(\$1,000) |                                    |
|                                |   |                                       |                            | Other steel basic shapes and forms                 | Fabricated products |  |                          |                                    | Quantity<br>(short tons) |   |                                    |                          |                                    | Value<br>f.o.b. plant<br>(\$1,000) |
| CARBON STEEL—Continued         |   |                                       |                            |  |                     |  |                          |                                    |                          |   |                                    |                          |                                    |                                    |
| 33176 11                       | Finished shapes and forms—Continued               |                                       |                            |  |                     |  |                          |                                    |                          |   |                                    |                          |                                    |                                    |
| 33176 12                       | Pipe and tubes:                                   |                                       |                            |  |                     |  |                          |                                    |                          |   |                                    |                          |                                    |                                    |
| 33176 13                       | Standard pipe.....                                | 133,216                               | 2,339,441                  | 40,434   | 43,701              | 17,277                                 | 2,341,775                | 422,622                            | 2,253,125                | 407,318                                       | 15,304                             |                          |                                    |                                    |
| 33176 14                       | Line pipe.....                                    | 6,168                                 | 1,923,580                  | 2,615  | (D)                 | (D)                                    | 1,930,049                | 334,640                            | 1,901,901                | 330,192                                       | 4,448                              |                          |                                    |                                    |
| 33176 15                       | Oil country goods.....                            | 5,721                                 | 1,222,903                  | (D)  | (D)                 | 102                                    | 1,176,125                | 232,467                            | 1,342,978                | 280,339                                       | 21,472                             |                          |                                    |                                    |
|                                | Miscellaneous.....                                | (D)                                   | 244,478                    | (D)  | (D)                 | 77                                     | 238,587                  | 49,344                             | 188,295                  | 80,691  | 12,555                             |                          |                                    |                                    |
|                                | Pressure tubing.....                              | 10,349                                | 224,661                    | 8,966  | (D)                 | (D)                                    | 222,236                  | 93,246                             | 866,357                  | 248,776                                       | 3,436                              |                          |                                    |                                    |
|                                | Mechanical tubing.....                            | 44,039                                | 910,541                    | 32,251   | 42,212              | 123                                    | 878,916                  | 252,212                            | 1,581,715                | 353,866                                       | 28,606                             |                          |                                    |                                    |
| 33155 11                       | Wire:   | 82,462                                | 2,220,276                  | 71,943   | 521,437             | 8,134                                  | 1,707,378                | 382,472                            | 274,043                  | 61,135  | 8,982                              |                          |                                    |                                    |
| 33155 15                       | Plain wire.....                                   | 16,962                                | 332,078                    | 15,388   | 47,922              | 1,722                                  | 104,873                  | 70,117                             | 102,624                  | 47,071  | 1,244                              |                          |                                    |                                    |
| 33155 19                       | Galvanized wire.....                              | 5,091                                 | 111,009                    | 3,591  | 3,996               | 182                                    |                          | 48,315                             |                          |   |                                    |                          |                                    |                                    |
|                                | Other coated wire.....                            |                                       |                            |  |                     |  |                          |                                    |                          |   |                                    |                          |                                    |                                    |
| 33152 21                       | Wire products: <sup>3</sup>                       | 7,666                                 | 338,956                    | (D)  | 5,440               | 434                                    | 341,781                  | 80,100                             | 335,718                  | 78,616  | 1,484                              |                          |                                    |                                    |
| 33159 51                       | Nails and staples.....                            | 100                                   | 113,436                    | (D)  | 60                  | 30                                     | 110,782                  | 20,279                             | 109,889                  | 20,124  | 155                                |                          |                                    |                                    |
| 33156 21                       | Barbed and twisted wire.....                      | (D)                                   | 129,298                    | (D)  | (D)                 | (D)                                    | 133,265                  | 28,992                             | 131,709                  | 28,658  | 354                                |                          |                                    |                                    |
| 33159 55                       | Wire fence, woven and welded.....                 | 481                                   | 70,834                     | (D)  | (D)                 | 202                                    | 72,046                   | 13,114                             | 72,046                   | 13,114  | -                                  |                          |                                    |                                    |
| 33151 11                       | Rale ties.....                                    | (D)                                   | 98,658                     | (D)  | (D)                 | 306                                    | 97,454                   | 61,450                             | 184,289                  | 88,942  | 5,380                              |                          |                                    |                                    |
| 33151 31                       | Wire rope and cable.....                          | (D)                                   | 96,644                     | (D)  | (D)                 | 96                                     | 96,377                   | 32,872                             | 44,751                   | 13,520  | -                                  |                          |                                    |                                    |
| 33157 71                       | Wire strand.....                                  | (D)                                   | 38,301                     | (D)  | (D)                 | -                                      | 44,751                   | 13,520                             |                          |   |                                    |                          |                                    |                                    |
|                                | Woven wire netting.....                           | (D)                                   |                            | (D)  | (D)                 | -                                      |                          |                                    |                          |   |                                    |                          |                                    |                                    |
|                                | Rails, wheels, and track accessories:             |                                       |                            |  |                     |  |                          |                                    |                          |   |                                    |                          |                                    |                                    |
| 33120 11                       | Rails:  |                                       |                            |  |                     |  |                          |                                    |                          |   |                                    |                          |                                    |                                    |
| 33120 12, 13                   | Standard tee (over 60 lb. per yard).....          | (D)                                   | 506,281                    | (D)  | (D)                 | 6,971                                  | 489,332                  | 58,621                             | 475,237                  | 56,929  | 1,692                              |                          |                                    |                                    |
|                                | All other (light tee, girder, guard, etc.).....   | 547                                   | 31,491                     | (D)  | 141                 | 669                                    | 31,100                   | 4,700                              | 26,886                   | 4,032   | 668                                |                          |                                    |                                    |
| 33120 14                       | Rail joints and tie plates.....                   | 278                                   | 168,249                    | (D)  | (D)                 | (D)                                    | 162,927                  | 24,838                             | 160,352                  | 24,465  | 373                                |                          |                                    |                                    |
| 33120 15                       | Wheels, rolled (including tires and rims)         | (D)                                   | 269,548                    | (D)  | (D)                 | 304                                    | 253,117                  | 60,395                             | 250,459                  | 59,819  | 576                                |                          |                                    |                                    |
| 33120 19                       | Other rolled and drawn carbon steel products..... | (D)                                   | 141,848                    | (D)  | (D)                 | 120                                    | 115,789                  | 25,895                             | 113,892                  | 25,437  | 458                                |                          |                                    |                                    |
| ALLOY STEEL (EXCEPT STAINLESS) |   |                                       |                            |  |                     |  |                          |                                    |                          |   |                                    |                          |                                    |                                    |
| 33122 31                       | Ingot.....  | 102,548                               | 8,975,689                  | 8,739,222  | 192,352             | 1,955                                  | 108,708                  | 26,349                             | 21,822                   | 4,225   | 22,124                             |                          |                                    |                                    |
| 33122 33                       | Semifinished shapes and forms:                    |                                       |                            |  |                     |  |                          |                                    |                          |   |                                    |                          |                                    |                                    |
| 33122 35, 37                   | Blooms, billets, slabs, and sheet bars.....       | 724,297                               | 6,024,382                  | 5,495,610  | 134,284             | 7,209                                  | 1,090,139                | 206,586                            | 561,995                  | 106,755                                       | 99,831                             |                          |                                    |                                    |
| 33122 39                       | Tube rounds and skelp.....                        | 367,498                               | 700,638                    | 686,948  | (D)                 | (D)                                    | 377,037                  | 83,490                             | 44,001                   | 11,261  | 72,229                             |                          |                                    |                                    |
|                                | Wire rods.....                                    | 37,041                                | 64,245                     | 45,221   | 425                 | -                                      | 54,578                   | 14,883                             | 40,332                   | 11,340  | 3,543                              |                          |                                    |                                    |
| 33124 31                       | Finished shapes and forms:                        |                                       |                            |  |                     |  |                          |                                    |                          |   |                                    |                          |                                    |                                    |
|                                | Plates.....                                       | 132,951                               | 762,702                    | (D)  | (D)                 | (D)                                    | 792,437                  | 162,380                            | 748,737                  | 153,324                                       | 9,056                              |                          |                                    |                                    |
|                                | Sheets and strip:                                 |                                       |                            |  |                     |  |                          |                                    |                          |   |                                    |                          |                                    |                                    |
|                                | Hot-rolled.....                                   | 10,716                                | 376,225                    | (D)  | (D)                 | (D)                                    | 348,982                  | 71,452                             | 342,669                  | 67,058  | 4,394                              |                          |                                    |                                    |
|                                | Cold-rolled.....                                  | (D)                                   | 77,401                     | (D)  | (D)                 | 7                                      | 64,120                   | 14,951                             | 64,120                   | 14,918  | 33                                 |                          |                                    |                                    |
|                                | Electrical (sheet and strip).....                 | (D)                                   | 630,803                    | (D)  | (D)                 | (D)                                    | 634,079                  | 194,598                            | 448,313                  | 154,127                                       | 40,471                             |                          |                                    |                                    |
| 33167 35                       | Strip:  | (D)                                   | 25,117                     | (D)  | (D)                 | -                                      | 24,083                   | 22,857                             | 21,412                   | 20,948  | 1,909                              |                          |                                    |                                    |
| 33123 39                       | Cold-rolled.....                                  | 10,915                                | 49,232                     | 10,634   | (D)                 | 155                                    | 50,634                   | 12,616                             | 44,969                   | 10,896  | 1,720                              |                          |                                    |                                    |
| 33124 35                       | Hot-rolled.....                                   | (D)                                   | 183,650                    | (D)  | (D)                 | (D)                                    | 174,047                  | 32,487                             | 164,056                  | 30,125  | 2,362                              |                          |                                    |                                    |
|                                | Structural shapes.....                            | (D)                                   |                            | (D)  | (D)                 | (D)                                    |                          |                                    |                          |   |                                    |                          |                                    |                                    |

See footnotes at end of table.





TABLE 6A-3. Steel Mill Products—Receipts, Production, Consumption, and Shipments: 1958

| Product   | Receipts <sup>1</sup><br>(short tons) | Production<br>(short tons) | Products consumed in producing plants<br>(short tons)    |   |  | Shipments <sup>1</sup>   |                                 |                          | Transfers to other plants of the same company |                                 |
|---|---------------------------------------|----------------------------|--|---|--|--------------------------|---------------------------------|--------------------------|---|---------------------------------|
|   |                                       |                            | In the manufacture of other steel basic shapes and forms | In the manufacture of fabricated products | As maintenance, repair, and operating supplies | Total                    |                                 | To other companies       |   |                                 |
|   |                                       |                            |  |   |  | Quantity<br>(short tons) | Value f.o.b. plant<br>(\$1,000) | Quantity<br>(short tons) |   | Value f.o.b. plant<br>(\$1,000) |
| <b>CARBON STEEL</b>   |                                       |                            |  |   |  |                          |                                 |                          |   |                                 |
| Ingot.....  | 376,691                               | 78,578,866                 | 78,426,002   | 76,181                                    | 12,721   | 377,869                  | 26,946                          | 44,306                   | 333,563                                       | 22,896                          |
| Semifinished shapes and forms:                              |                                       |                            |  |   |  |                          |                                 |                          |   |                                 |
| Blooms, billets, slabs, sheet bars, and timplate bars.....  | 10,317,226                            | 58,194,460                 | 57,552,332   | 62,664                                    | 47,260   | 10,724,376               | 1,013,799                       | 2,345,982                | 8,378,394                                     | 771,380                         |
| Tube rounds.....  | 723,067                               | 2,132,882                  | 2,157,238  | —   | 632  | 708,997                  | 91,795                          | 175,180                  | 533,817                                       | 68,964                          |
| Skelp.....  | 876,778                               | 3,430,286                  | 3,455,027  | —   | 2,832  | 864,370                  | 97,213                          | 665,624                  | 198,746                                       | 25,013                          |
| Wire rods.....  | 859,423                               | 4,164,930                  | 3,546,130  | 27,902                                    | 2,906  | 1,400,738                | 212,971                         | 929,994                  | 470,744                                       | 75,569                          |
| Finished shapes and forms:                                  |                                       |                            |  |   |  |                          |                                 |                          |   |                                 |
| Plates:   |                                       |                            |  |   |  |                          |                                 |                          |   |                                 |
| Floor plates.....   | 1,801                                 | 147,408                    | 667  | 199                                       | 2,667  | 147,248                  | 20,745                          | 141,133                  | 6,115   | 769                             |
| Plates, other than floor plates.....                        | 910,666                               | 5,793,828                  | 925,890  | 60,830                                    | 87,812   | 5,675,555                | 734,443                         | 5,048,708                | 626,847                                       | 83,122                          |
| Sheets:   |                                       |                            |  |   |  |                          |                                 |                          |   |                                 |
| Hot-rolled and enameling.....                               | 2,604,869                             | 8,480,999                  | 2,428,967  | 39,886                                    | 34,561   | 8,649,935                | 1,018,884                       | 6,182,386                | 2,467,549                                     | 269,889                         |
| Cold-rolled.....  | 1,235,837                             | 11,308,623                 | 994,042  | 87,985                                    | 23,568   | 11,318,684               | 1,539,307                       | 9,532,192                | 1,786,492                                     | 219,051                         |
| Galvanized.....   | 37,456                                | 2,802,601                  | 18,195   | 121,931                                   | 4,661  | 2,680,361                | 457,490                         | 2,589,622                | 90,739  | 14,127                          |
| Electrical (sheets and strip).....                          | —                                     | 42,478                     | —  | —   | —  | 41,269                   | 9,777                           | 41,269                   | —   | —                               |
| Long teases.....  | 1,203                                 | 125,804                    | 819  | —   | —  | 125,702                  | 23,821                          | 212,570                  | ( <sup>2</sup> )                              | ( <sup>2</sup> )                |
| Strip:  |                                       |                            |  |   |  |                          |                                 |                          |   |                                 |
| Hot-rolled.....   | 453,794                               | 1,381,738                  | 437,159  | 165,553                                   | 2,691  | 1,204,990                | 167,120                         | 1,101,902                | 103,088                                       | 13,879                          |
| Cold-rolled.....  | 213,758                               | 848,856                    | 193,633  | 29,318                                    | 2,554  | 824,658                  | 187,256                         | 768,585                  | 56,073  | 11,362                          |
| Galvanized.....   | 1,633                                 | 202,083                    | 917  | 20,655                                    | 63   | 178,436                  | 36,500                          | 178,086                  | 350   | 65                              |
| Tin mill products:  |                                       |                            |  |   |  |                          |                                 |                          |   |                                 |
| Black plate (including chemically treated black plate)..... | 17,872                                | 579,943                    | 8,355  | 2,227                                     | 662  | 616,564                  | 89,293                          | 595,793                  | 20,771  | 3,107                           |
| Tin plate:  |                                       |                            |  |   |  |                          |                                 |                          |   |                                 |
| Hot dipped.....   | —                                     | 426,068                    | —  | —   | 104  | 442,505                  | 87,372                          | 442,505                  | —   | —                               |
| Electrolytic.....   | 259                                   | 4,852,868                  | (D)  | —   | 2,019  | 5,081,353                | 919,442                         | 5,081,353                | —   | —                               |
| Terme plates (short teases).....                            | 39,006                                | 4,486,611                  | 6,344  | 47,733                                    | 35,989   | 4,434,416                | 577,276                         | 4,109,519                | 324,897                                       | 42,149                          |
| Structural shapes and piling.....                           | 881,547                               | 5,426,433                  | 822,846  | 353,820                                   | 32,561   | 5,020,711                | 715,716                         | 4,476,063                | 544,648                                       | 76,521                          |
| Bars:   |                                       |                            |  |   |  |                          |                                 |                          |   |                                 |
| Hot rolled bars, except concrete reinforcing:               |                                       |                            |  |   |  |                          |                                 |                          |   |                                 |
| Hollow drill steel.....                                     | 11,518                                | 2,276,719                  | 4,698  | 71,273                                    | 9,096  | 2,166,546                | 279,782                         | 1,909,160                | 257,386                                       | 30,767                          |
| All other.....  | 13,075                                | 186,036                    | —  | —   | 149  | 186,252                  | 25,929                          | 186,252                  | —   | —                               |
| Concrete reinforcing bars:                                  |                                       |                            |  |   |  |                          |                                 |                          |   |                                 |
| Rolled from new billets.....                                | 10,385                                | 927,925                    | 84   | 1,067                                     | 402  | 942,442                  | 210,942                         | 907,422                  | 35,020  | 7,152                           |
| Rolled from old materials (rails, axes, etc.).....          | 432                                   | 6,856                      | 394  | —   | 149  | 7,118                    | 6,010                           | 6,160                    | 958   | 852                             |
| Cold finished bars.....                                     | 21,061                                | 553,649                    | (D)  | 5,441                                     | 11,026   | 533,648                  | 60,803                          | 521,095                  | 12,553  | 1,351                           |
| Tool-steel bars.....  | 372                                   | 35,910                     | (D)  | 1,179                                     | 338  | 38,188                   | 5,813                           | 34,323                   | 3,865   | 583                             |
| Rails, wheels, and track accessories:                       |                                       |                            |  |   |  |                          |                                 |                          |   |                                 |
| Rails:  |                                       |                            |  |   |  |                          |                                 |                          |   |                                 |
| Standard tee (over 60 lb. per yard).....                    | —                                     | —                          | —  | —   | —  | —                        | —                               | —                        | —   | —                               |
| All other light tee, girder, guard, etc.).....              | —                                     | —                          | —  | —   | —  | —                        | —                               | —                        | —   | —                               |

See footnotes at end of table.



TABLE 6A-3. Steel Mill Products—Receipts, Production, and Shipments: 1958—Continued

| Product   | Receipts <sup>1</sup><br>(short tons) | Production<br>(short tons) | Products consumed in<br>producing plants<br>(short tons)                |   |   | Total                    |                                       |                          | Shipments <sup>1</sup>                |   |                                       |
|---|---------------------------------------|----------------------------|---|---|---|--------------------------|---------------------------------------|--------------------------|---------------------------------------|---|---------------------------------------|
|   |                                       |                            | In the<br>manufacture<br>of other<br>steel basic<br>shapes<br>and forms | In the<br>manufacture<br>of<br>fabricated<br>products | As main-<br>tenance,<br>repair,<br>and<br>operating<br>supplies | Quantity<br>(short tons) | Value<br>f.o.b.<br>plant<br>(\$1,000) | To other companies       |                                       | Transfers to other<br>plants of the same<br>company |                                       |
|   |                                       |                            |   |   |   |                          |                                       | Quantity<br>(short tons) | Value<br>f.o.b.<br>plant<br>(\$1,000) | Quantity<br>(short tons)                            | Value<br>f.o.b.<br>plant<br>(\$1,000) |
| CARBON STEEL—Continued                            |                                       |                            |   |   |   |                          |                                       |                          |                                       |   |                                       |
| Finished shapes and forms—Continued               |                                       |                            |   |   |   |                          |                                       |                          |                                       |   |                                       |
| Rails, wheels, and track accessories—Continued    |                                       |                            |   |   |   |                          |                                       |                          |                                       |   |                                       |
| Rail joints and tie plates.....                   | 248<br>(D)                            | 153,499                    | -   | 3,612<br>(D)  | 2,092   | 21,266                   | 146,661                               | 21,266                   | 146,661                               | -   | -                                     |
| Wheels, rolled (including tires and rims).....    |                                       | 169,599                    | -   |   | 1,576   | 43,140                   | 161,149                               | 43,140                   | 161,149                               | 4,616   | 2,026                                 |
| Pipe and tubes:                                   |                                       |                            |   |   |   |                          |                                       |                          |                                       |   |                                       |
| Standard pipe.....                                | 36,939                                | 2,238,807                  | -   | 29,353  | 9,727   | 418,680                  | 2,150,584                             | 405,647                  | 2,150,584                             | 70,217  | 13,033                                |
| Line pipe.....                                    | 2,452                                 | 2,422,514                  | (D)   | 2,802   | 341   | 438,249                  | 2,374,692                             | 435,105                  | 2,374,692                             | 18,304  | 3,144                                 |
| Oil country goods.....                            | 1,738                                 | 1,117,900                  | (D)   | (D)   | (D)   | 189,994                  | 896,942                               | 189,994                  | 896,942                               | 27,345  | 9,903                                 |
| Pressure tubing.....                              | 6,925                                 | 212,068                    | 3,510   | 4,099   | 215   | 84,443                   | 192,239                               | 74,540                   | 192,239                               | 13,734  | 3,331                                 |
| Mechanical tubing.....                            | 37,513                                | 655,925                    | 12,518<br>(D)   | 21,564<br>(D)   | 179   | 189,041                  | 616,314                               | 185,710                  | 616,314                               | 24,407  | 5,404                                 |
| Miscellaneous.....                                | 19,308                                | 254,234                    | (D)   | 1,272<br>(D)  | 80  | 62,287                   | 266,405                               | 56,883                   | 266,405                               |   |                                       |
| Wire:   |                                       |                            |   |   |   |                          |                                       |                          |                                       |   |                                       |
| Plain wire.....                                   | 77,160                                | 2,114,065                  | 65,696  | 489,630   | 8,235   | 366,709                  | 1,471,453                             | 332,331                  | 1,471,453                             | 142,397   | 34,378                                |
| Galvanized wire.....                              | 11,403                                | 351,130                    | 9,888   | 25,073  | 1,735   | 81,255                   | 267,312                               | 69,701                   | 267,312                               | 45,148  | 11,554                                |
| Other coated wire.....                            | 3,952                                 | 88,800                     | 1,737   | 5,298   | -   | 35,352                   | 80,897                                | 34,574                   | 80,897                                | 1,823   | 778                                   |
| Wire products: <sup>2</sup>                       |                                       |                            |   |   |   |                          |                                       |                          |                                       |   |                                       |
| Nails and staples.....                            | 3,299                                 | 426,537                    | -   | 3,307   | 493   | 99,229                   | 415,146                               | 96,032                   | 415,146                               | 13,874  | 3,197                                 |
| Barbed and twisted wire.....                      | 37                                    | 56,382                     | -   | 9   | 31  | 11,807                   | 257,616                               | 211,807                  | 257,616                               | ( <sup>2</sup> )                                    | ( <sup>2</sup> )                      |
| Wire fence, woven and welded.....                 | 1,138                                 | 129,585                    | -   | 1,198   | 16  | 30,609                   | 137,834                               | 30,609                   | 137,834                               | 499   | 108                                   |
| Bale ties.....                                    | (D)                                   | 53,336                     | (D)   | (D)   | (D)   | 12,082                   | 54,535                                | 11,974                   | 54,535                                | 18,754  | 11,874                                |
| Wire rope and cable.....                          | 344                                   | 75,769                     | (D)   | (D)   | 343   | 53,998                   | 68,925                                | 42,124                   | 68,925                                | 1,379   | 492                                   |
| Wire strand <sup>4</sup> .....                    | (D)                                   | 74,272                     | (D)   | (D)   | (D)   | 28,673                   | 71,295                                | 28,673                   | 71,295                                | -   | -                                     |
| Woven wire netting.....                           | (D)                                   | 50,365                     | (D)   | (D)   | (D)   | 14,555                   | 49,770                                | 14,555                   | 49,770                                | -   | -                                     |
| Other rolled and drawn carbon steel products..... | 1,754                                 | 157,358                    | -   | 8,116   | 802   | 30,403                   | 148,645                               | 29,157                   | 148,645                               | 3,125   | 1,246                                 |
| ALLOY STEEL (EXCEPT STAINLESS)                    |                                       |                            |   |   |   |                          |                                       |                          |                                       |   |                                       |
| Ingots.....                                       | 63,283                                | 5,669,114                  | 5,443,774   | 200,245   | 1,239   | 13,717                   | 17,574                                | 3,105                    | 17,574                                | 53,801  | 10,612                                |
| Semifinished shapes and forms:                    |                                       |                            |   |   |   |                          |                                       |                          |                                       |   |                                       |
| Blooms, billets, slabs, and sheet bars.....       | 636,295                               | 3,717,183                  | 3,378,818   | 70,117  | 3,404   | 155,599                  | 325,417                               | 63,585                   | 325,417                               | 547,465   | 92,014                                |
| Tube rounds and skelp.....                        | 260,007                               | 444,134                    | 465,417   | -   | 443   | 50,333                   | 32,013                                | 7,765                    | 32,013                                | 201,351   | 42,568                                |
| Wire rods.....                                    | 16,058                                | 65,845                     | 45,090  | 7,907   | -   | 6,674                    | 2,274,494                             | 26,674                   | 2,274,494                             | ( <sup>2</sup> )                                    | ( <sup>2</sup> )                      |
| Finished shapes and forms:                        |                                       |                            |   |   |   |                          |                                       |                          |                                       |   |                                       |
| Plates.....                                       | 2,861                                 | 337,325                    | 1,679   | (D)   | (D)   | 95,137                   | 314,761                               | 92,234                   | 314,761                               | 14,706  | 2,903                                 |
| Sheet and strip:                                  |                                       |                            |   |   |   |                          |                                       |                          |                                       |   |                                       |
| Sheet:  |                                       |                            |   |   |   |                          |                                       |                          |                                       |   |                                       |
| Hot-rolled.....                                   | 19,512                                | 252,686                    | 20,220  | 1,951   | 129   | 53,688                   | 244,511                               | 48,505                   | 244,511                               | 21,069  | 5,183                                 |
| Cold-rolled.....                                  | (D)                                   | 60,716                     | (D)   | (D)   | (D)   | 15,867                   | 256,254                               | 215,867                  | 256,254                               | ( <sup>2</sup> )                                    | ( <sup>2</sup> )                      |
| Electrical (sheet and strip).....                 | 89,378                                | 427,494                    | (D)   | 11,776  | -   | 143,826                  | 477,852                               | 143,826                  | 477,852                               | -   | -                                     |
| Strip:  |                                       |                            |   |   |   |                          |                                       |                          |                                       |   |                                       |
| Hot-rolled.....                                   | 6,601                                 | 35,197                     | 6,743   | (D)   | -   | 7,928                    | 32,178                                | 6,901                    | 32,178                                | 4,144   | 1,027                                 |
| Cold-rolled.....                                  | (D)                                   | 23,677                     | 13,228  | (D)   | -   | 11,436                   | 13,203                                | 9,465                    | 11,436                                | 3,606   | 1,971                                 |
| Structural shapes.....                            | (D)                                   | 42,270                     | -   | (D)   | 204   | 6,806                    | 39,812                                | 6,468                    | 39,812                                | 1,856   | 338                                   |

See footnotes at end of table.

TABLE 6A-3. Steel Mill Products—Receipts, Production, Consumption, and Shipments: 1958—Continued

| Product  | Receipts <sup>1</sup><br>(short tons) | Production<br>(short tons) | Products consumed in producing plants (short tons)       |   |  | Total   | Shipments <sup>2</sup> |                              |                       | Transfers to other plants of the same company | Value f.o.b. plant (\$1,000) |                              |
|--|---------------------------------------|----------------------------|--|---|--|---------|------------------------|------------------------------|-----------------------|---|------------------------------|------------------------------|
|  |                                       |                            | In the manufacture of other steel basic shapes and forms | In the manufacture of fabricated products | As maintenance, repair, and operating supplies |         | Quantity (short tons)  | Value f.o.b. plant (\$1,000) | To other companies    |   |                              |                              |
|  |                                       |                            |  |   |  |         |                        |                              | Quantity (short tons) |   |                              | Value f.o.b. plant (\$1,000) |
| ALLOY STEEL (EXCEPT STAINLESS)—Continued             |                                       |                            |  |   |  |         |                        |                              |                       |   |                              |                              |
| Finished shapes and forms—Continued                  |                                       |                            |  |   |  |         |                        |                              |                       |   |                              |                              |
| Bars:  |                                       |                            |  |   |  |         |                        |                              |                       |   |                              |                              |
| Hot-rolled.....                                      | 115,789                               | 1,252,215                  | 93,901 (D)   | 52,116                                    | 1,384  | 241,192 | 1,192,103              | 1,055,874                    | 214,504               | 136,229                                       | 26,688                       |                              |
| Cold-finished.....                                   | 32                                    | 163,571                    |  |   | 33   | 58,941  | 158,763                | 146,217                      | 54,064                | 12,546  | 4,877                        |                              |
| Tool steel bars:                                     |                                       |                            |  |   |  |         |                        |                              |                       |   |                              |                              |
| High speed.....                                      | 5,486                                 | 8,104                      | (D)  | 21  | 87   | 33,707  | 12,684                 | 10,956                       | 30,093                | 1,728   | 3,614                        |                              |
| Other than high speed.....                           | 705                                   | 40,997                     | 570  | 233                                       | 203  | 49,609  | 41,376                 | 35,175                       | 42,301                | 6,201   | 7,308                        |                              |
| Pipe and tubes:                                      |                                       |                            |  |   |  |         |                        |                              |                       |   |                              |                              |
| Oil country goods.....                               | (D)                                   | 240,713                    |  | (D)                                       |  |         | 473,879                | 202,503                      | 57,817                | 112,472                                       | 44,775                       |                              |
| Pressure tubing.....                                 | 112                                   | 39,809                     | 120  | (D)                                       | (D)  |         |                        | 34,267                       | 23,169                |   |                              |                              |
| Mechanical tubing.....                               | 46,070                                | 302,038                    | 32,879   | (D)                                       | 32   |         |                        | 123,455                      | 63,926                |   |                              |                              |
| Standard, line, and miscellaneous.....               | 83                                    | 6,738                      |  | (D)                                       | (D)  |         |                        | 1,182                        | 11,003                |   |                              |                              |
| Wire.....  | 1,280                                 | 42,412                     | 1,030  | 7,911                                     |  |         |                        | 32,625                       | 24,264                | 1,351   | 890                          |                              |
| Other rolled and drawn alloy steel products.....     |                                       | 10,466                     |  |   |  |         |                        | 10,882                       | 9,439                 |   |                              |                              |
| STAINLESS STEEL                                      |                                       |                            |  |   |  |         |                        |                              |                       |   |                              |                              |
| Ingot.....   | 46,511                                | 900,793                    | 883,761  | 4,715                                     | 210  | 34,352  | 49,469                 | 18,558                       | 18,586                | 30,911  | 15,766                       |                              |
| Semifinished shapes and forms:                       |                                       |                            |  |   |  |         |                        |                              |                       |   |                              |                              |
| Blooms, billets, slabs, and sheet bars.....          | 166,473                               | 671,326                    | 632,238  | 398                                       | 721  | 130,514 | 202,581                | 38,175                       | 26,945                | 152,670                                       | 90,958                       |                              |
| Tube rounds and wire rods.....                       | 28,507                                | 47,201                     | 43,973   |   | 23   |         |                        | 11,736                       | 12,611                |   |                              |                              |
| Finished shapes and forms:                           |                                       |                            |  |   |  |         |                        |                              |                       |   |                              |                              |
| Plates.....  | 4,250                                 | 37,178                     | 4,127  | 6,993                                     | 143  | 41,120  | 33,112                 | 33,112                       | 41,120                |   |                              |                              |
| Sheet and strip:                                     |                                       |                            |  |   |  |         |                        |                              |                       |   |                              |                              |
| Sheet:   |                                       |                            |  |   |  |         |                        |                              |                       |   |                              |                              |
| Hot-rolled.....                                      | 103,096                               | 86,686                     | 61,686   | (D)                                       | (D)  | 65,148  | 108,214                | 38,127                       | 36,562                | 70,087  | 28,586                       |                              |
| Cold-rolled.....                                     | 8,144                                 | 101,687                    | 5,761  | 75  | 175  | 121,382 | 97,722                 | 297,722                      | 212,1382              | (2)   | (2)                          |                              |
| Strip:   |                                       |                            |  |   |  |         |                        |                              |                       |   |                              |                              |
| Hot-rolled.....                                      | 78,914                                | 79,470                     | 75,917   |   |  | 54,914  | 80,358                 | 280,358                      | 254,914               | (2)   | (2)                          |                              |
| Cold-rolled.....                                     | 12,796                                | 190,125                    | 17,515   | 4,253                                     | 19   | 188,822 | 179,503                | 166,810                      | 179,221               | 12,693  | 9,601                        |                              |
| Bars:  |                                       |                            |  |   |  |         |                        |                              |                       |   |                              |                              |
| Hot-rolled.....                                      | 7,037                                 | 38,531                     | 4,619 (D)  | 494 (D)                                   | 86 (D)   | 49,208  | 39,741                 | 32,395                       | 41,555                | 7,346   | 7,653                        |                              |
| Cold-finished.....                                   | 403                                   | 47,469                     |  |   |  | 61,647  | 46,946                 | 45,587                       | 59,669                | 1,359   | 1,978                        |                              |
| Pipe and tubes:                                      |                                       |                            |  |   |  |         |                        |                              |                       |   |                              |                              |
| Pressure tubing.....                                 | 532                                   | 17,941                     | 601  | 34  |  | 52,949  | 18,333                 | 218,333                      | 252,949               | (2)   | (2)                          |                              |
| Mechanical tubing.....                               | 4,006                                 | 9,803                      | 2,821  |   |  | 43,744  | 10,858                 | 210,858                      | 243,744               | (2)   | (2)                          |                              |
| Wire.....  | 1,266                                 | 29,545                     | 737  | (D)                                       | (D)  | 48,242  | 29,384                 | 28,632                       | 46,542                | 752   | 1,700                        |                              |
| Other rolled and drawn stainless steel products..... | 180                                   | 10,059                     | 65   | (D)                                       | (D)  | 12,428  | 10,217                 | 10,217                       | 12,428                |   |                              |                              |

Source: Current Industrial Reports (previously identified as Facts for Industry Series) M33B, Steel Mill Products.  
 Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not applicable.  
 Excludes receipts and shipments of steel processed on a conversion basis for nonsteel producing companies.  
 Transfers to other plants of the same company are included with shipments to other companies.  
<sup>1</sup>Represents the quantity and value of shipments by steel works and wire drawing plants. Total shipments of these products by all establishments in 1958 are shown in Table 6A.  
<sup>2</sup>Probably includes some tonnage which in the census of manufactures was more specifically reported as "composite strand, rope and cable (except AGSR)."



TABLE 6A-4. Steel Mill Products—Net Shipments: 1958 to 1963

| Product  | Net shipments <sup>1</sup> |            |            |            |            |            |
|--|----------------------------|------------|------------|------------|------------|------------|
|  | 1963                       | 1962       | 1961       | 1960       | 1959       | 1958       |
| ALL GRADES, TOTAL.....   | 75,391,424                 | 70,731,719 | 66,159,568 | 70,420,492 | 69,382,429 | 60,557,879 |
| Carbon steel, total.....   | 69,178,352                 | 65,204,090 | 61,371,300 | 65,370,521 | 64,053,457 | 56,676,520 |
| Ingots and semifinished shapes and forms (blooms, billets, etc.) | 1,708,463                  | 1,540,086  | 815,116    | 1,310,553  | 1,496,118  | 1,156,263  |
| Finished shapes and forms:                                       |                            |            |            |            |            |            |
| Plates:  |                            |            |            |            |            |            |
| Floor plates.....  | 160,594                    | 157,176    | 144,033    | 175,248    | 143,949    | 148,313    |
| Plates, other than floor plates.....                             | 6,261,737                  | 5,400,081  | 5,131,686  | 5,227,141  | 5,040,847  | 4,913,531  |
| Structural shapes.....   | 4,799,592                  | 4,384,246  | 4,377,870  |            |            |            |
| Sheet piling.....  | 179,127                    | 214,982    | 204,631    | 5,216,974  | 4,670,267  | 4,479,132  |
| Bearing piles.....   | 217,413                    | 149,768    | 181,061    |            |            |            |
| Sheets and strip:  |                            |            |            |            |            |            |
| Sheet:   |                            |            |            |            |            |            |
| Hot-rolled and enameling.....                                    | 8,167,659                  | 7,413,501  | 7,063,258  | 7,618,583  | 7,816,317  | 6,119,513  |
| Cold-rolled.....   | 14,154,481                 | 13,315,602 | 11,912,375 | 14,136,872 | 12,425,066 | 10,194,400 |
| Galvanized.....  | 3,592,153                  | 3,301,174  | 3,139,172  | 2,980,956  | 2,690,475  | 2,769,497  |
| Electrical (sheet and strip).....                                | 53,860                     | 41,427     | 34,187     | 46,891     | 49,396     | 41,269     |
| Long termes.....   | 327,163                    | 297,986    | 240,951    | 183,685    | 180,888    | 124,499    |
| Strip:   |                            |            |            |            |            |            |
| Hot-rolled.....  | 1,199,506                  | 1,218,403  | 1,167,524  | 1,323,092  | 1,261,462  | 919,440    |
| Cold-rolled.....   | 1,093,239                  | 923,812    | 811,630    | 798,543    | 867,458    | 642,772    |
| Galvanized.....  | 277,979                    | 256,588    | 244,468    | 245,697    | 243,837    | 197,521    |
| Tin-mill products:   |                            |            |            |            |            |            |
| Tinplate:  |                            |            |            |            |            |            |
| Hot-dipped.....  | 189,239                    | 176,009    | 278,481    | 372,340    | 400,292    | 442,609    |
| Electrolytic.....  |                            |            |            |            |            |            |
| Terneplate (short termes).....                                   | 5,046,423                  | 5,405,836  | 5,247,680  | 5,075,415  | 4,856,672  | 5,083,113  |
| Blackplate (including chemically treated).....                   | 406,421                    | 550,136    | 512,168    | 546,904    | 584,119    | 601,581    |
| Bars:  |                            |            |            |            |            |            |
| Hot-rolled bars (except concrete reinforcing):                   |                            |            |            |            |            |            |
| Hollow drill steel.....  |                            |            |            |            |            |            |
| All other.....   | 5,681,996                  | 5,300,362  | 4,825,885  | 5,313,459  | 5,068,467  | 4,525,545  |
| Concrete reinforcing bars:                                       |                            |            |            |            |            |            |
| Rolled from new billets.....                                     | 2,915,599                  | 2,333,334  | 2,535,639  | 2,198,189  | 2,133,725  |            |
| Rolled from old materials (rails, axles, etc.).....              | 167,427                    | 405,921    | 221,837    | 181,793    | 154,252    | 2,408,574  |
| Cold-finished bars.....  | 1,307,933                  | 1,246,202  | 1,071,816  | 1,213,457  | 1,271,245  | 933,526    |
| Tool steel bars.....   | 8,766                      | 8,852      | 8,502      | 8,971      | 10,159     | 6,833      |
| Pipe and tubes:  |                            |            |            |            |            |            |
| Standard pipe.....   | 2,269,537                  | 2,025,377  | 2,125,657  | 2,089,878  | 2,264,208  | 2,222,942  |
| Line pipe.....   | 1,925,468                  | 2,208,495  | 2,414,755  | 2,467,299  | 2,560,114  | 2,393,687  |
| Oil country goods.....   | 1,170,506                  | 1,172,487  | 1,262,647  | 905,306    | 1,645,945  | 895,864    |
| Pressure tubing.....   | 212,281                    | 211,092    | 235,774    | 226,502    | 227,371    | 217,373    |
| Mechanical tubing.....   | 877,212                    | 899,864    | 761,626    | 783,833    | 890,755    | 614,278    |
| Miscellaneous.....   | 236,374                    | 250,436    | 217,593    | 213,350    | 194,328    | 248,449    |
| Wire:  |                            |            |            |            |            |            |
| Plain wire.....  | 2,154,486                  | 2,019,552  | 1,978,478  | 2,056,399  | 2,322,175  | 2,034,555  |
| Galvanized wire.....   | 306,725                    | 348,584    | 378,452    | 329,114    | 375,071    | 327,865    |
| Other coated wire.....   | 103,960                    | 110,658    | 93,383     | 81,887     | 97,941     | 84,066     |
| Wire products: <sup>2</sup>                                      |                            |            |            |            |            |            |
| Nails and staples.....   | 339,989                    | 330,678    | 340,830    | 338,913    | 403,850    | 429,521    |
| Barbed and twisted wire.....                                     | 110,772                    | 86,914     | 74,768     | 48,701     | 51,118     | 57,619     |
| Wire fence, woven and welded.....                                | 131,707                    | 130,583    | 136,244    | 111,209    | 132,041    | 137,910    |
| Bale ties.....   | 71,767                     | 71,414     | 77,381     | 61,460     | 53,077     | 54,999     |
| Wire rope and cable.....   | 97,712                     | 94,305     | 88,628     | 84,751     | 78,622     | 77,678     |
| Wire strand.....   | 96,920                     | 92,328     | 89,136     | 71,442     | 72,373     | 70,781     |
| Woven wire netting.....  | 37,829                     | 52,031     | 48,574     | 44,422     | 83,793     | 49,743     |
| Standard tee rails (over 60 lb. per yard).....                   | 506,908                    | 508,747    | 424,711    | 673,532    | 586,368    | 529,054    |
| All other rails (light tee, girder, guard, etc.).....            | 31,363                     | 43,880     | 43,270     | 38,614     | 38,208     | 39,333     |
| Rail joints and tie plates.....                                  | 167,384                    | 122,630    | 98,451     | 170,109    | 185,724    | 152,117    |
| Wheels, rolled (including tires and rims).....                   | 270,802                    | 246,746    | 202,040    | 260,905    | 251,350    | 174,944    |
| Other rolled and drawn carbon steel products.....                | 141,880                    | 135,805    | 108,932    | 138,132    | 174,014    | 155,809    |
| Alloy steel (except stainless), total.....                       | 5,545,371                  | 4,887,173  | 4,203,966  | 4,457,360  | 4,669,866  | 3,417,518  |
| Ingots and semifinished shapes and forms (blooms, billets, etc.) | 744,433                    | 593,651    | 583,424    | 610,103    | 668,756    | 512,827    |

See footnotes at end of table.

TABLE 6A-4. Steel Mill Products—Net Shipments: 1958 to 1963—Continued

| Product  | Net shipments <sup>2</sup> |           |           |                      |                      |                      |
|--|----------------------------|-----------|-----------|----------------------|----------------------|----------------------|
|  | 1963                       | 1962      | 1961      | 1960                 | 1959                 | 1958                 |
| Alloy steel (except stainless)--Continued                        |                            |           |           |                      |                      |                      |
| Finished shapes and forms:                                       |                            |           |           |                      |                      |                      |
| Plates.....  | 668,555                    | 614,127   | 539,795   | 510,927              | 355,164              | 329,117              |
| Structural shapes.....   | 174,054                    | 57,576    |           |                      |                      |                      |
| Sheet and strip:   |                            |           |           |                      |                      |                      |
| Sheet:   |                            |           |           |                      |                      |                      |
| Hot-rolled.....  | 339,256                    | 253,227   | 191,285   | 256,209              | 287,625              | 227,079              |
| Electrical.....  | 317,913                    | 338,408   | 260,608   | <sup>3</sup> 497,187 | <sup>3</sup> 540,047 | <sup>3</sup> 400,250 |
| Cold-rolled.....   | 63,953                     | 69,909    | 81,604    | 84,403               | 89,937               | 56,196               |
| Strip:   |                            |           |           |                      |                      |                      |
| Cold-rolled.....   | 22,706                     | 15,882    | 18,695    | 16,442               | 16,072               | 9,995                |
| Hot-rolled.....  | 39,874                     | 28,460    | 20,485    | 22,083               | 21,641               | 25,577               |
| Electrical.....  | 243,538                    | 249,219   | 260,509   | ( <sup>3</sup> )     | ( <sup>3</sup> )     | ( <sup>3</sup> )     |
| Bars:  |                            |           |           |                      |                      |                      |
| Hot-rolled.....  | 1,819,538                  | 1,683,690 | 1,385,813 | 1,489,661            | 1,585,554            | 1,129,814            |
| Cold-rolled.....   | 212,433                    | 224,245   | 195,626   | 244,120              | 236,818              | 158,764              |
| Tool steel bars:   |                            |           |           |                      |                      |                      |
| High speed.....  | 15,465                     | 13,521    | 10,326    | 11,282               | 12,262               | 7,306                |
| Other than high speed.....                                       | 49,027                     | 52,093    | 45,733    | 52,050               | 57,242               | 41,107               |
| Pipe and tubes:  |                            |           |           |                      |                      |                      |
| Oil country goods.....   | 299,305                    | 308,598   | 288,470   | 260,270              | 339,197              | 427,993              |
| Pressure tubing.....   | 38,288                     | 41,059    | 39,875    | 39,026               | 43,538               |                      |
| Mechanical tubing.....   | 304,958                    | 279,135   | 216,706   | 220,250              | 296,230              |                      |
| Line pipe.....   | 114,654                    | 7,199     | 5,761     | 10,828               | 7,327                |                      |
| Standard and miscellaneous.....                                  | 6,654                      |           |           |                      |                      |                      |
| Wire.....  | 58,090                     | 47,457    | 43,467    | 49,921               | 50,963               | 40,607               |
| Other rolled and drawn alloy steel products.....                 | 12,677                     | 9,717     | 15,784    | 12,790               | 14,136               | 10,882               |
| Stainless steel, total.....                                      | 667,701                    | 640,456   | 584,302   | 592,611              | 659,106              | 463,841              |
| Ingots and semifinished shapes and forms (blooms, billets, etc.) | 34,329                     | 46,249    | 40,856    | 36,236               | 59,210               | 16,626               |
| Finished shapes and forms:                                       |                            |           |           |                      |                      |                      |
| Sheet and strip:   |                            |           |           |                      |                      |                      |
| Sheet:   |                            |           |           |                      |                      |                      |
| Cold-rolled.....   | 149,308                    | 144,748   | 126,096   | 119,270              | 130,119              | 89,828               |
| Hot-rolled.....  | 4,541                      | 7,145     | 14,825    | 33,125               | 25,145               | 5,998                |
| Strip:   |                            |           |           |                      |                      |                      |
| Hot-rolled.....  | 31,475                     | 203,872   | 187,309   | 186,769              | 222,416              | 170,979              |
| Cold-rolled.....   | 209,909                    |           |           | 343                  | 476                  | 1,444                |
| Plates.....  | 55,523                     | 47,030    | 43,404    | 49,016               | 41,173               | 35,998               |
| Bars:  |                            |           |           |                      |                      |                      |
| Hot-rolled.....  | 48,381                     | 52,068    | 45,413    | 49,556               | 50,472               | 33,284               |
| Cold-finished.....   | 72,416                     | 73,691    | 66,821    | 60,740               | 66,921               | 46,566               |
| Pipes and tubes:   |                            |           |           |                      |                      |                      |
| Pressure tubing.....   | 20,409                     | 20,779    | 23,179    | 23,518               | 17,646               | 17,835               |
| Mechanical tubing.....   | 11,385                     | 10,557    | 7,213     | 7,089                | 8,522                | 6,852                |
| Wire.....  | 28,896                     | 33,017    | 25,820    | 23,273               | 33,460               | 28,354               |
| Other rolled and drawn stainless steel products.....             | 1,129                      | 1,300     | 3,366     | 3,676                | 3,546                | 10,077               |

Source: Current Industrial Reports Series M33B, Steel Mill Products.

<sup>1</sup>Derived by subtracting the steel mills' receipts of each steel mill shape from the total of shipments to other companies, transfers to other plants, and tonnage consumed in steel mills in the production of fabricated products and as maintenance, repair, and operating supplies. For practical purposes, net shipments amount to zero for some products. Due to material in transit, this results in negative figures for a few items. Where products are grouped together for calculation of net shipments, some of the individual products within the group may represent negative figures. In such cases, the negative figures for the individual products were subtracted from the net shipments of the other products and an overall net shipments total is shown.

<sup>2</sup>Represents wire products produced within steel works and wire drawing establishments.

<sup>3</sup>Electrical strip is included with electrical sheet.



TABLE 6A-5. Pig Iron Shipped from Blast Furnaces—Quantity and Value: 1963 and 1958

| Product                                     | Total shipments including interplant transfers |                    |                          |                    |
|---|--|--------------------|--------------------------|--------------------|
|   | 1963   |                    | 1958                     |                    |
|   | Quantity<br>(short tons)                       | Value<br>(\$1,000) | Quantity<br>(short tons) | Value<br>(\$1,000) |
| Pig iron, total reported in the census..... | 170,741,114                                    | (NA)               | 157,050,000              | (NA)               |
| Pig iron, by grade: <sup>2</sup>            |  |                    |                          |                    |
| Total.....                                  | 72,211,000                                     | 4,222,468          | 56,917,937               | 3,392,308          |
| Foundry.....                                | 1,657,000                                      | 92,156             | 1,619,453                | 92,387             |
| Basic.....                                  | 65,062,000                                     | 3,803,535          | 47,674,412               | 2,847,545          |
| Bessemer.....                               | 2,821,000                                      | 171,317            | 3,701,059                | 218,973            |
| Low-phosphorus.....                         | 173,000  | 10,554             | 1,363,387                | 78,283             |
| Malleable.....                              | 2,299,000                                      | 135,070            | 2,302,762                | 140,629            |
| All other (not ferroalloys).....            | 199,000  | 9,836              | 256,864                  | 14,491             |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>Represents total production.

<sup>2</sup>Source: Bureau of Mines, Department of Interior.

TABLE 6A-6. Ferroalloys Shipped by All Producers—Quantity and Value: 1963 and 1958

| Product  | Total shipments including interplant transfers |                    |                          |                    |
|--|--|--------------------|--------------------------|--------------------|
|  | 1963   |                    | 1958                     |                    |
|  | Quantity<br>(short tons)                       | Value<br>(\$1,000) | Quantity<br>(short tons) | Value<br>(\$1,000) |
| Ferroalloys and other additives reported in the census, total <sup>1</sup> ..... | 2,143,962                                      | (NA)               | 1,752,999                | (NA)               |
| Ferroalloys, by grade: <sup>2</sup>  |  |                    |                          |                    |
| Total.....   | 2,089,078                                      | 388,426            | 1,695,497                | 424,044            |
| Ferromanganese.....  | 802,113  | 125,076            | 608,099                  | 145,647            |
| Ferrosilicon.....  | 448,008  | 76,555             | 319,791                  | 54,879             |
| Ferrophosphorus.....   | 77,827   | 2,877              | 75,124                   | 3,253              |
| Ferrotitanium.....   | 3,058  | 2,536              | 4,612                    | 3,294              |
| Silvery iron.....  | 202,076  | 16,053             | 224,521                  | 18,257             |
| Ferrochromium.....   | 314,726  | 82,222             | 307,121                  | 130,159            |
| Silicomanganese.....   | 154,836  | 24,910             | 82,013                   | 20,638             |
| Other.....   | 86,434   | 58,197             | 74,216                   | 47,917             |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>Represents total production.

<sup>2</sup>Source: Bureau of Mines, Department of Interior.

TABLE 6A-7. **Steel Ingots—Production, by Grade of Steel and Geographic Areas: 1963 and 1958**

(Short tons)

| Geographic area   | 1963             |            |                     | 1958             |            |                     |
|---|------------------|------------|---------------------|------------------|------------|---------------------|
|   | Total all grades | Carbon     | Alloy and stainless | Total all grades | Carbon     | Alloy and stainless |
| United States, total.....   | 109,010,618      | 98,845,947 | 10,164,671          | 85,148,773       | 78,578,866 | 6,569,907           |
| Northeast.....  | 30,723,933       | (D)        | (D)                 | 25,109,319       | (D)        | (D)                 |
| Pennsylvania.....   | 25,036,409       | 21,145,752 | 3,890,657           | 20,791,709       | 18,067,536 | 2,724,173           |
| Rhode Island, Connecticut, New York, and New Jersey.....                                | 5,687,524        | (D)        | (D)                 | 4,317,610        | (D)        | (D)                 |
| East North Central.....   | 52,173,822       | 47,446,570 | 4,727,252           | 37,886,401       | 34,903,423 | 2,982,978           |
| Ohio.....   | 18,781,056       | 16,594,667 | 2,186,389           | 13,789,724       | 12,279,676 | 1,510,048           |
| Indiana.....  | 15,552,933       | 14,708,082 | 844,851             | 12,617,698       | 12,189,517 | 428,181             |
| Illinois.....   | 9,290,945        | 8,271,847  | 1,019,098           | 6,911,195        | 6,375,438  | 535,757             |
| Michigan <sup>1</sup> .....   | 8,548,888        | 7,871,974  | 676,914             | 4,567,784        | 4,058,792  | 508,992             |
| South.....  | 17,839,504       | 17,212,166 | 627,338             | 15,128,805       | (D)        | (D)                 |
| Kentucky, Alabama, and Mississippi.....   | 5,292,086        | 4,915,417  | 376,669             | 4,538,957        | 4,397,679  | 141,278             |
| Delaware, Maryland, Virginia, West Virginia, Georgia, Florida, Oklahoma, and Texas..... | 12,547,418       | 12,296,749 | 250,669             | 10,589,848       | (D)        | (D)                 |
| West North Central and Mountain.....  | 4,539,951        | (D)        | (D)                 | 4,145,383        | (D)        | (D)                 |
| Pacific.....  | 3,733,408        | 3,579,501  | 153,907             | 2,878,863        | (D)        | (D)                 |
| California.....   | 3,299,766        | (D)        | (D)                 | 2,575,140        | 2,508,561  | 66,579              |
| Washington, Oregon, and Hawaii <sup>2</sup> .....                                       | 433,642          | (D)        | (D)                 | 303,723          | (D)        | (D)                 |

Source: Annual Survey Form MA-33B, Steel Mill Products.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>Includes Wisconsin for 1958.<sup>2</sup>Excludes Hawaii for 1958.



TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products, Shipped by All Producers: 1963 and 1958

| Product code | Product and year  | Indexes (1954 = 100) |            | Product code     | Product and year   | Indexes (1954 = 100)  |            |
|--------------|---|----------------------|------------|------------------|--|---|------------|
|              |   | Production           | Unit value |                  |  | Production  | Unit value |
| 331--        | Steel rolling and finishing <sup>1</sup> .....1963..<br>1958..  | 118<br>96            | 120<br>123 | 3313-<br>33121pt | Electrometallurgical products <sup>2</sup> —Continued        |   |            |
| 3312-        | Blast furnace (including coke oven), steel works and rolling mill products <sup>1</sup> .....1963..<br>1958.. | 118<br>95            | 120<br>123 | 33133            | Ferrosilicon <sup>2</sup> .....1963..                        | 168   | 119        |
|              |   |                      |            | 33134            | Other ferroalloys <sup>2</sup> .....1963..                   | 124   | 114        |
| 33121        | Coke oven, blast furnace, and electro-metallurgical products <sup>1</sup> .....1963..<br>1958..               | 117                  | 105        | 3315-            | Steel wire drawing.....1963..                                | 99  | 123        |
| 3313 pt      |   | 96                   | 115        |                  | 1958..   | 94  | 122        |
| 33122        | Steel ingot and semifinished shapes <sup>1</sup> .....1963..  | 123                  | 122        | 33151            | Noninsulated ferrous wire rope, cable, and strand.....1963.. | 120   | 102        |
|              | 1958..  | 96                   | 124        |                  | 1958..   | 106   | 106        |
| 33123        | Tin mill products, hot rolled sheet and strip.....1963..  | 122                  | 120        | 33152            | Steel nails and spikes.....1963..                            | 70  | 146        |
|              | 1958..  | 99                   | 120        |                  | 1958..   | 88  | 122        |
| 33124        | Hot rolled bars and bar shapes, plates.....1963..   | 127                  | 125        | 33155            | Steelwire <sup>1</sup> .....1963..                           | 111   | 126        |
|              | 1958..  | 97                   | 130        | 33125            |  | 1958..  | 102        |
| 33125        | Steel wire <sup>1</sup> .....1963..   | 111                  | 126        | 33156            | Fencing and fence gates.....1963..                           | 81  | 145        |
| 33155        |   | 1958..               | 102        | 127              |  | 1958..  | 76         |
| 33126        | Steel pipe and tube <sup>1</sup> .....1963..  | 99                   | 120        | 33157            | Wire cloth and other woven wire products.....1963..          | 78  | 125        |
| 33176        |   | 1958..               | 90         | 127              | 33159  | Other fabricated ferrous wire products (except springs).....1963..              | 139        |
| 33127        | Cold-rolled steel sheet and strip <sup>1</sup> .....1963..  | 139                  | 125        |                  | 1958..   | 102   | 125        |
| 33167        |   | 1958..               | 104        | 124              | 3316-  | Cold-finishing of steel shapes <sup>1</sup> .....1963..                         | 138        |
| 33128        | Cold-finished steel bars, and bar shapes <sup>1</sup> .....1963..   | 132                  | 130        |                  | 1958..   | 103   | 125        |
| 33168        |   | 1958..               | 94         | 129              | 33167  | Cold-rolled steel sheet and strip <sup>1</sup> .....1963..                      | 139        |
| 33129        | Press and hammer steel forgings <sup>1</sup> .....1963..  | 74                   | 141        | 33127            | 1958..   |   | 104        |
| 33919        |   | 1958..               | 87         | 135              | 33168  | Cold-finished steel bars (except concrete reinforcing) <sup>1</sup> .....1963.. | 132        |
| 3313-        |   |                      |            | 33128            | 1958..   |   | 94         |
| 33121 pt.    | Electrometallurgical products <sup>2</sup> .....1963..  | 126                  | 89         | 3317-            | Welded and heavy-riveted steel pipe <sup>1</sup> .....1963.. | 99  | 120        |
|              | 1958..  | 105                  | 117        |                  | 1958..   | 90  | 127        |
| 33131        | Ferromanganese <sup>2</sup> .....1963..   | 100                  | 69         | 33176            | Welded and heavy-riveted steel pipe <sup>1</sup> .....1963.. | 99  | 120        |
|              | 1958..  | 76                   | 107        | 33126            |  | 1958..  | 90         |
| 33132        | Ferrochrome <sup>2</sup> .....1963..  | 168                  | 67         |                  |  |   |            |
|              | 1958..  | 163                  | 109        |                  |  |   |            |

<sup>1</sup>These indexes have been computed on a "wherever-made" basis--that is, they reflect the shipments and production reported by mills operating rolling and finishing facilities but no steel furnaces, as well as by steel mills (industry 3312 establishments). In the case of product classes 33121 and 33122, the production indexes have been independently derived from production data while the unit value indexes have been determined in the usual manner by reference to shipments detail.

<sup>2</sup>These indexes are based on shipments data reported by the Bureau of Mines, Department of Interior. (Table 6A-6 presents the 1963 and 1958 detail relative to these ferroalloys used in the computation of these indexes.)

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments, 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code      | Product class  | 1963  | 1962 <sup>1</sup>                    | 1961 <sup>1</sup>                        | 1960 <sup>1</sup>                         | 1959 <sup>1</sup> | 1958      | 1954      | 1947      |           |           |           |
|-----------|--|---|--------------------------------------|--|---|-------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| 3312-     | Blast furnaces and steel mills <sup>2</sup> .....  | 17,553,735  | 16,462,035                           | 15,697,143                               | 16,580,382                                | 16,295,776        | (NA)      | (NA)      | (NA)      |           |           |           |
| 33121     | Coke oven and blast furnace products, including selected ferroalloys produced in other furnaces (except ferrochrome and ferrosilicon)..... | 1,484,920   | 1,356,206                            | 1,386,412                                | 1,485,638                                 | 1,511,390         | (NA)      | (NA)      | (NA)      |           |           |           |
| 33131     |  | 2,034,695   | 2,017,447                            | 2,197,810                                | 2,208,664                                 | 2,153,930         | 1,846,924 | 1,668,534 | 434,434   |           |           |           |
| 33134     |  | 3,969,289   | 2,373,490                            | 2,354,279                                | 2,363,507                                 | 2,315,425         | 3,169,294 | 2,568,616 | 1,441,402 |           |           |           |
| 33122     |  | Hot rolled sheet and strip, including tin mill products.....              | 3,969,289                            | 2,373,490                                | 2,354,279                                 | 2,363,507         | 2,315,425 | 3,169,294 | 2,568,616 | 1,441,402 |           |           |
| 33123     |  | Hot rolled bars and bar shapes, plates, structural shapes and piling..... | 3,667,698                            | 2,358,780                                | 2,315,270                                 | 2,392,941         | 2,321,538 | 2,879,672 | 2,298,809 | (NA)      |           |           |
| 33124     | Steel wire.....  | 621,566   | 260,129                              | 257,547                                  | 259,139                                   | 266,710           | 564,734   | 464,992   | 313,793   |           |           |           |
| 33125     | Steel pipe and tube.....   | 1,887,495   | 2,182,447                            | 2,181,786                                | 2,177,430                                 | 2,091,714         | 1,723,643 | 1,551,131 | 841,875   |           |           |           |
| 33155     |  | 2,872,901   | 2,664,168                            | 2,431,629                                | 2,774,524                                 | 2,587,084         | 2,091,623 | 1,642,491 | 804,122   |           |           |           |
| 33126     |  | Cold rolled steel sheet and strip (exclude tin mill products).....        | 2,872,901                            | 2,664,168                                | 2,431,629                                 | 2,774,524         | 2,587,084 | 2,091,623 | 1,642,491 | 804,122   |           |           |
| 33127     |  | Cold finished steel bars and bar shapes.....                              | 472,745                              | 246,343                                  | 240,451                                   | 244,886           | 246,126   | 338,924   | 277,078   | 200,278   |           |           |
| 33128     |  | Press and hammer steel forgings (made in steel mills) <sup>3</sup> .....  | 316,668                              | 260,000                                  | 240,785                                   | 251,263           | 235,205   | 234,641   | 188,323   | 127,984   |           |           |
| 33129     | Blast furnaces and steel mills, n.s.k.....   | 225,760   | 175,866                              | 162,044                                  | 213,914                                   | 214,368           | 198,515   | 241,592   | (NA)      |           |           |           |
| 33120     | Electrometallurgical products.....   | 411,580   | (NA)                                 | (NA)                                     | (NA)                                      | (NA)              | 468,177   | 368,342   | 225,993   |           |           |           |
| 3313-     | Ferrochrome.....   | 85,313  | 81,158                               | 94,413                                   | 90,677                                    | 114,933           | (NA)      | (NA)      | (NA)      |           |           |           |
| 33132     |  | Ferromanganese.....   | 246,401                              | (NA)                                     | (NA)                                      | (NA)              | (NA)      | (NA)      | (NA)      |           |           |           |
| 33131     |  |   | Other ferroalloys.....               | 78,092                                   | 78,947                                    | 81,284            | 68,494    | 78,306    | (NA)      | (NA)      | (NA)      |           |
| 33121 pt. |  |   |                                      | Ferrosilicon.....                        | 1,774                                     | (NA)              | (NA)      | (NA)      | (NA)      | (NA)      | (NA)      |           |
| 33134     |  |   |                                      |  | Electrometallurgical products, n.s.k..... | 1,672,445         | (NA)      | (NA)      | (NA)      | (NA)      | 1,490,977 | 1,242,978 |
| 33121 pt. | Steel wire, drawing, etc.....  |   |                                      |  |   | 189,934           | 190,553   | 178,689   | 185,228   | 190,913   | 163,386   | 193,944   |
| 33133     |  | Noninsulated ferrous wire rope, cable, and strand.....                    |                                      |  |   | 153,085           | 138,737   | 131,955   | 132,680   | 153,622   | 159,363   | 147,677   |
| 33130     |  |   | Steel nails and spikes.....          |  |   | 619,424           | 260,129   | 257,547   | 259,139   | 266,710   | 564,734   | 464,992   |
| 33151     |  |   |                                      | Steel wire.....                          |   | 115,480           | 111,200   | 113,065   | 103,530   | 111,355   | 103,309   | 92,909    |
| 34811     |  |   |                                      |  | Fencing and fence gates.....              | 72,328            | (NA)      | (NA)      | (NA)      | (NA)      | 96,899    | 80,151    |
| 33152     | Wire cloth and other woven wire products.....  |   |                                      |  |   | 501,529           | 467,407   | 453,458   | 431,233   | 445,835   | 405,656   | 313,382   |
| 33153     |  | Other fabricated ferrous wire products (except springs).....              |                                      |  |   | 20,667            | (11,395)  | (9,576)   | (8,909)   | (6,658)   | 6,092     | 994       |
| 34814     |  |   | Steel wire drawing, etc., n.s.k..... |  |   | 3,332,558         | 3,130,511 | 2,839,080 | 3,223,010 | 3,055,210 | 2,430,547 | 1,919,569 |
| 34815     |  |   |                                      | Cold finished sheet, strip and bars..... |   | 1,887,495         | 2,182,447 | 2,181,786 | 2,177,430 | 2,091,714 | 1,723,643 | 1,551,131 |
| 34816     |  |   |                                      |  | Steel pipe and tube.....                  |                   |           |           |           |           |           |           |
| 33154     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34817     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34818     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34819     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34820     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34821     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34822     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34823     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34824     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34825     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34826     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34827     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34828     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34829     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34830     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34831     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34832     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34833     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34834     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34835     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34836     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34837     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34838     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34839     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34840     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34841     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34842     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34843     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34844     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34845     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34846     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34847     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34848     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34849     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34850     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34851     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34852     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34853     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34854     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34855     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34856     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34857     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34858     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34859     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34860     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34861     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34862     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34863     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34864     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34865     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34866     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34867     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34868     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34869     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34870     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34871     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34872     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34873     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34874     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34875     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34876     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34877     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34878     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34879     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34880     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34881     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34882     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34883     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34884     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34885     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34886     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34887     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34888     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34889     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34890     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34891     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34892     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34893     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34894     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34895     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34896     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34897     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34898     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34899     |  |   |                                      |  |   |                   |           |           |           |           |           |           |
| 34900     |  |   |                                      |  |   |                   |           |           |           |           |           |           |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Source: Current Industrial Reports Series M33D, Steel Mill Products.

<sup>3</sup>Includes total for product class 33919, Open die hammer and press forgings (produced from purchased materials), which is primary to 3391.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area   | Value of shipments |                  | Product class and geographic area  | Value of shipments |                  | Product class and geographic area                                  | Value of shipments |                  |
|---|--------------------|------------------|--|--------------------|------------------|--|--------------------|------------------|
|   | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |
| OTHER STEEL MILL PRODUCTS, EXCEPT WIRE PRODUCTS (33120)   |                    |                  | HOT ROLLED BARS AND BAR SHAPES, PLATES, STRUCTURAL SHAPES AND PILING (33124) |                    |                  | COLD ROLLED STEEL SHEET AND STRIP (33127 AND 33167)                |                    |                  |
| United States, total....  | 225,760            |                  | United States, total....   | 3,667,698          | 2,879,672        | United States, total....   | 2,872,901          | 2,091,623        |
| Northeast.....  | 95,262             |                  | Middle Atlantic.....   | 1,392,195          | 1,161,078        | New England.....   | 82,923             | 53,724           |
| New York.....   | 12,101             |                  | Pennsylvania.....  | 1,116,799          | 935,006          | Connecticut.....   | 64,488             | 37,996           |
| Pennsylvania.....   | 80,748             |                  | East North Central.....  | 1,482,321          | 1,034,237        | Middle Atlantic.....   | 714,284            | 573,677          |
| North Central.....  | 50,315             |                  | Ohio.....  | 376,169            | 259,168          | New York.....  | 167,036            | ( <sup>2</sup> ) |
| Ohio.....   | 13,556             |                  | Indiana.....   | 525,351            | ( <sup>2</sup> ) | New Jersey.....  | 21,002             | ( <sup>2</sup> ) |
| South and West.....   | 80,183             |                  | Illinois.....  | 511,239            | 374,626          | Pennsylvania.....  | 526,246            | 446,180          |
| COKE OVEN AND BLAST FURNACE PRODUCTS, AND SELECTED ELECTROMETALLURGICAL PRODUCTS (EXCLUDES FERRO-CHROME AND FERROSILICON) (33121, 33131, AND 33134) |                    |                  | Michigan.....  | 69,562             | ( <sup>2</sup> ) | North Central.....   | 1,749,565          | ( <sup>2</sup> ) |
| United States, total....  | 1,484,920          |                  | South Atlantic.....  | 221,300            | 177,098          | Ohio.....  | 775,491            | 529,221          |
| Northeast.....  | 643,379            |                  | East South Central.....  | 205,022            | 118,828          | Indiana.....   | 438,585            | 298,249          |
| New York.....   | 85,083             |                  | Alabama.....   | 187,161            | 109,280          | Michigan.....  | 478,935            | 290,578          |
| Pennsylvania.....   | 529,702            |                  | West South Central.....  | 101,363            | 66,629           | South Atlantic.....  | 204,490            | 187,704          |
| North Central.....  | 529,759            |                  | Pacific.....   | 161,803            | 194,608          | Pacific.....   | 39,130             | 32,089           |
| Ohio.....   | 193,937            |                  | California.....  | 129,957            | 166,506          | California.....  | 39,130             | 32,089           |
| Indiana.....  | 55,651             |                  | All other divisions.....   | 103,694            | ( <sup>2</sup> ) | All other divisions.....   | 82,509             | 31,244,429       |
| Illinois.....   | 53,085             |                  | STEEL WIRE (33125 AND 33155)   |                    |                  | COLD FINISHED STEEL BARS AND BAR SHAPES (33128 AND 33168)          |                    |                  |
| Michigan.....   | 199,133            |                  | United States, total....   | 621,566            | 564,734          | United States, total....   | 472,745            | 338,924          |
| South.....  | 280,476            |                  | New England.....   | 59,327             | 54,991           | New England.....   | 24,536             | 11,247           |
| Virginia.....   | 6,816              |                  | Massachusetts.....   | 43,793             | 47,677           | Massachusetts.....   | 4,696              | ( <sup>2</sup> ) |
| West Virginia.....  | 59,033             |                  | Middle Atlantic.....   | 187,136            | 182,744          | Connecticut.....   | 19,840             | ( <sup>2</sup> ) |
| Kentucky.....   | 32,446             |                  | New York.....  | 25,899             | 29,775           | Middle Atlantic.....   | 191,826            | 139,275          |
| Tennessee.....  | 28,151             |                  | New Jersey.....  | 46,022             | 41,322           | Pennsylvania.....  | 138,789            | 97,529           |
| Alabama.....  | 139,275            |                  | Pennsylvania.....  | 115,215            | 111,647          | East North Central.....  | 223,592            | 170,986          |
| Mountain.....   | 9,836              |                  | East North Central.....  | 271,189            | 222,396          | Ohio.....  | 69,188             | 51,775           |
| Pacific.....  | 21,470             |                  | Ohio.....  | 64,754             | 58,183           | Indiana.....   | 71,390             | 54,024           |
| STEEL INGOT AND SEMI-FINISHED SHAPES (33122)  |                    |                  | Indiana.....   | 38,752             | 29,132           | Illinois.....  | 53,854             | 38,627           |
| United States, total....  | 2,034,695          | 1,846,924        | Illinois.....  | 141,218            | 117,142          | South.....   | 18,812             | ( <sup>2</sup> ) |
| New England.....  | 26,138             | ( <sup>2</sup> ) | Michigan.....  | 25,617             | ( <sup>2</sup> ) | West.....  | 13,979             | ( <sup>2</sup> ) |
| Middle Atlantic.....  | 804,533            | 635,460          | Wisconsin.....   | 848                | ( <sup>2</sup> ) | OPEN DIE HAMMER AND PRESS FORGINGS (33129 AND 33919)               |                    |                  |
| Pennsylvania.....   | 732,710            | 579,595          | South Atlantic.....  | 51,369             | 42,990           | FORGINGS (33129 AND 33919)   |                    |                  |
| East North Central.....   | 1,038,148          | 933,010          | Florida.....   | 5,854              | ( <sup>2</sup> ) | United States, total....   | 316,668            | 234,641          |
| Ohio.....   | 516,735            | 419,116          | Pacific.....   | 22,630             | 28,788           | Northeast.....   | 176,798            | 176,428          |
| Michigan.....   | 10,817             | ( <sup>2</sup> ) | California.....  | 22,630             | 28,788           | Massachusetts.....   | 1,419              | ( <sup>2</sup> ) |
| South Atlantic.....   | 43,891             | ( <sup>2</sup> ) | All other divisions.....   | 29,915             | 32,825           | New York.....  | 17,205             | 18,673           |
| East South Central.....   | 42,036             | 142,825          | STEEL PIPES AND TUBES (33126 AND 33176)                                      |                    |                  | Pennsylvania.....  | 147,129            | 144,746          |
| Pacific.....  | 10,243             | 10,671           | United States, total....   | 1,887,495          | 1,723,643        | North Central.....   | 116,829            | ( <sup>2</sup> ) |
| All other divisions.....  | 69,706             | ( <sup>2</sup> ) | New England.....   | 4,935              | 2,942            | Ohio.....  | 43,391             | 10,300           |
| TIN MILL PRODUCTS; HOT ROLLED SHEET AND STRIP (33123)   |                    |                  | Middle Atlantic.....   | 648,316            | 601,797          | Illinois.....  | 15,820             | 12,244           |
| United States, total....  | 3,969,289          | 3,169,294        | New York.....  | 29,204             | 25,077           | Michigan.....  | 49,628             | 10,678           |
| Middle Atlantic.....  | 807,446            | 606,395          | New Jersey.....  | 26,896             | 27,860           | South.....   | 5,600              | ( <sup>2</sup> ) |
| East North Central.....   | 1,912,297          | 1,455,373        | Pennsylvania.....  | 592,216            | 548,860          | Texas.....   | 4,126              | ( <sup>2</sup> ) |
| Ohio.....   | 646,230            | 554,756          | East North Central.....  | 831,239            | 716,615          | West.....  | 17,441             | ( <sup>2</sup> ) |
| Indiana.....  | 638,112            | 548,840          | Ohio.....  | 532,725            | 453,051          | California.....  | 14,981             | 12,658           |
| East South Central.....   | 327,887            | ( <sup>2</sup> ) | Indiana.....   | 86,213             | ( <sup>2</sup> ) | NONINSULATED FERROUS WIRE ROPE, CABLE AND STRAND (33151 AND 34811) |                    |                  |
| All other divisions.....  | 921,659            | ( <sup>2</sup> ) | Illinois.....  | 82,582             | 60,298           | United States, total....   | 189,934            | 163,386          |
|   |                    |                  | Michigan.....  | 70,693             | 49,111           | New England.....   | 16,818             | 2,694            |
|   |                    |                  | Wisconsin.....   | 59,026             | ( <sup>2</sup> ) | Middle Atlantic.....   | 85,325             | 72,294           |
|   |                    |                  | West North Central.....  | 7,060              | ( <sup>2</sup> ) | New York.....  | 8,130              | 2,587            |
|   |                    |                  | East South Central.....  | 48,364             | 54,873           | New Jersey.....  | 33,445             | 29,037           |
|   |                    |                  | Alabama.....   | 26,697             | ( <sup>2</sup> ) | Pennsylvania.....  | 43,750             | 40,670           |
|   |                    |                  | West South Central.....  | 122,639            | 116,235          |  |                    |                  |
|   |                    |                  | Pacific.....   | 92,583             | 95,777           |  |                    |                  |
|   |                    |                  | All other divisions.....   | 132,359            | 135,404          |  |                    |                  |

See footnotes at end of table.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area  | Value of shipments |                  | Product class and geographic area  | Value of shipments |                  | Product class and geographic area                | Value of shipments |                  |
|--|--------------------|------------------|--|--------------------|------------------|--|--------------------|------------------|
|  | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |
| NONINSULATED FERROUS WIRE ROPE, CABLE AND STRAND (33151 AND 34811)—Continued |                    |                  | FENCING AND FENCE GATES (33156 AND 34816)—Con.                             |                    |                  | OTHER FABRICATED WIRE PRODUCTS (33159 AND 34819) |                    |                  |
| East North Central.....  | 30,211             | 22,430           | Middle Atlantic.....   | 5,521              | 12,247           | United States, total....                         | 501,529            | 405,656          |
| Ohio.....  | 2,547              | 4,100            | New York.....  | 1,364              | 3,677            | New England.....                                 | 27,349             | 22,854           |
| Michigan.....  | 1,725              | ( <sup>2</sup> ) | Pennsylvania.....  | 3,224              | 8,347            | Massachusetts.....                               | 9,551              | 10,016           |
| South Atlantic.....  | 10,320             | 9,188            | East North Central.....  | 43,355             | 35,761           | Connecticut.....                                 | 16,474             | 11,812           |
| West South Central.....  | 3,117              | ( <sup>2</sup> ) | Ohio.....  | 8,029              | 2,160            | Middle Atlantic.....                             | 150,329            | 138,115          |
| Texas.....   | 3,117              | ( <sup>2</sup> ) | Indiana.....   | 5,522              | ( <sup>2</sup> ) | New York.....                                    | 44,907             | 45,598           |
| Pacific.....   | 17,434             | 12,217           | Illinois.....  | 28,396             | 25,143           | New Jersey.....                                  | 23,304             | 11,007           |
| All other divisions.....   | 26,709             | 44,563           | West North Central.....  | 11,582             | 9,803            | Pennsylvania.....                                | 82,118             | 81,510           |
| STEEL NAILS AND SPIKES (33152)   |                    |                  | South Atlantic.....  | 13,413             | ( <sup>2</sup> ) | East North Central.....                          | 163,610            | 131,393          |
| United States, total....   | 153,085            | 159,363          | West South Central.....  | 18,572             | ( <sup>2</sup> ) | Ohio.....  | 24,015             | 22,819           |
| New England.....   | 20,315             | 22,034           | Texas.....   | 15,930             | 12,354           | Indiana.....                                     | 27,096             | 26,068           |
| Massachusetts.....   | 5,795              | 9,735            | Pacific.....   | 12,541             | ( <sup>2</sup> ) | Illinois.....                                    | 77,642             | 55,943           |
| Middle Atlantic.....   | 19,942             | 22,429           | California.....  | 12,423             | 11,906           | Michigan.....                                    | 29,371             | 22,286           |
| New York.....  | 9,868              | 3,436            | All other divisions.....   | 6,719              | ( <sup>2</sup> ) | Wisconsin.....                                   | 5,486              | 4,277            |
| North Central.....   | 79,499             | 69,803           | FERROUS WIRE CLOTH AND OTHER WOVEN FERROUS WIRE PRODUCTS (33157 AND 34814) |                    |                  | West North Central.....                          | 42,938             | 35,246           |
| Ohio.....  | 11,241             | 6,455            | United States, total....   |                    | 72,328           | Minnesota.....                                   | 8,221              | 7,983            |
| Indiana.....   | 11,380             | ( <sup>2</sup> ) | New England.....   |                    | 9,168            | Iowa.....  | 8,002              | 4,368            |
| Illinois.....  | 48,706             | 40,232           | Massachusetts.....   |                    | 4,917            | Missouri.....                                    | 22,339             | 19,027           |
| South.....   | 20,536             | 20,145           | Middle Atlantic.....   |                    | 16,589           | Kansas.....                                      | 3,011              | ( <sup>2</sup> ) |
| West.....  | 12,793             | 24,949           | New York.....  |                    | 6,035            | South Atlantic.....                              | 24,026             | 14,639           |
| FENCING AND FENCE GATES (33156 AND 34816)                                    |                    |                  | Pennsylvania.....  |                    | 10,221           | Maryland.....                                    | 12,131             | 7,054            |
| United States, total....   | 115,480            | 103,309          | East North Central.....  |                    | 24,279           | North Carolina.....                              | 1,658              | ( <sup>2</sup> ) |
| New England.....   | 3,777              | 4,463            | Ohio.....  |                    | 7,778            | Georgia.....                                     | 2,869              | 2,169            |
|  |                    |                  | Illinois.....  |                    | 12,393           | Florida.....                                     | 4,502              | 3,969            |
|  |                    |                  | East South Central.....  |                    | 4,379            | East South Central.....                          | 23,754             | 15,220           |
|  |                    |                  | Pacific.....   |                    | 7,257            | Tennessee.....                                   | 8,891              | 5,873            |
|  |                    |                  | All other divisions.....   |                    | 10,656           | Alabama.....                                     | 13,817             | 9,170            |
|  |                    |                  |  |                    |                  | West South Central.....                          | 20,162             | 13,315           |
|  |                    |                  |  |                    |                  | Arkansas.....                                    | 1,022              | ( <sup>2</sup> ) |
|  |                    |                  |  |                    |                  | Texas.....                                       | 11,653             | 7,312            |
|  |                    |                  |  |                    |                  | Mountain.....                                    | 15,900             | 11,836           |
|  |                    |                  |  |                    |                  | Pacific.....                                     | 33,461             | 23,038           |
|  |                    |                  |  |                    |                  | Washington.....                                  | 2,177              | 1,688            |
|  |                    |                  |  |                    |                  | California.....                                  | 31,052             | 21,055           |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 33120, Massachusetts, Indiana, Illinois, Missouri, Delaware, West Virginia, Alabama, Texas, Colorado, and California; 33121, 33131, and 33134, Connecticut, New Jersey, Wisconsin, Minnesota, Iowa, Missouri, Maryland, Texas, Colorado, Arizona, Utah, Oregon, and California; 33122, Massachusetts, Rhode Island, Connecticut, New York, New Jersey, Indiana, Illinois, Minnesota, Missouri, Maryland, West Virginia, Kentucky, Alabama, Texas, Colorado, and California; 33123, Rhode Island, New York, New Jersey, Pennsylvania, Illinois, Michigan, Maryland, West Virginia, Georgia, Kentucky, Alabama, Utah, Washington, and California; 33124, Connecticut, New York, New Jersey, Missouri, Delaware, Maryland, Virginia, West Virginia, North Carolina, South Carolina, Georgia, Florida, Kentucky, Tennessee, Mississippi, Oklahoma, Texas, Colorado, Utah, Washington, Oregon, and Hawaii; 33125 and 33155, Rhode Island, Connecticut, Minnesota, Missouri, Maryland, Georgia, Alabama, Texas, and Colorado; 33126 and 33176, Connecticut, Minnesota, Iowa, Missouri, Maryland, West Virginia, Georgia, Kentucky, Tennessee, Mississippi, Louisiana, Texas, Colorado, Utah, Washington, and California; 33127 and 33167, Massachusetts, Rhode Island, Illinois, Maryland, West Virginia, Kentucky, and Alabama; 33128 and 33168, New York, New Jersey, Michigan, Wisconsin, Maryland, Alabama, Texas, Colorado, and California; 33129 and 33919, Connecticut, New Jersey, Indiana, Wisconsin, and Washington; 33151 and 34811, Massachusetts, Connecticut, Indiana, Illinois, Wisconsin, Missouri, Maryland, Virginia, Georgia, Florida, Colorado, Washington, and California; 33152, New Hampshire, Rhode Island, Connecticut, Pennsylvania, Wisconsin, Minnesota, Missouri, Maryland, West Virginia, North Carolina, Georgia, Kentucky, Alabama, Texas, Colorado, and California; 33156 and 34816, Connecticut, Minnesota, Iowa, Missouri, Maryland, Florida, Alabama, Louisiana, Oklahoma, and Colorado; 33157 and 34814, Connecticut, Indiana, Michigan, Missouri, Maryland, Kentucky, Colorado, and Oregon; 33159 and 34819, Rhode Island, Delaware, Louisiana, Oklahoma, and Colorado.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>Includes a total of \$1,166,564 for the East North Central Division.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code  | Material  | Unit of measure      | 1963                       |                          |                                     |                          |   |                          |  |                          |                                  |                          |
|---|---|----------------------|----------------------------|--------------------------|-------------------------------------|--------------------------|---|--------------------------|--|--------------------------|----------------------------------|--------------------------|
|   |   |                      | Total                      |                          | Fully integrated works <sup>1</sup> |                          | Partially integrated works with blast furnaces <sup>1</sup> |                          | Partially integrated works without blast furnaces <sup>1</sup> |                          | Nonintegrated works <sup>1</sup> |                          |
|   |   |                      | Quantity                   | Delivered cost (\$1,000) | Quantity                            | Delivered cost (\$1,000) | Quantity  | Delivered cost (\$1,000) | Quantity   | Delivered cost (\$1,000) | Quantity                         | Delivered cost (\$1,000) |
| INDUSTRY 3312.—BLAST FURNACES AND STEEL MILLS |   |                      |                            |                          |                                     |                          |   |                          |  |                          |                                  |                          |
|   | Materials, containers, and supplies, total.....   |                      | (X) <sup>2</sup> 7,983,724 |                          | (X) <sup>2</sup> 3,424,787          |                          | (X) <sup>2</sup> 778,219                                    |                          | (X) <sup>2</sup> 1,576,358                                     |                          | (X) <sup>2</sup> 2,204,360       |                          |
| 121120  | Coal used in the production of coke.....  | Short tons           | 76,254,475                 | 677,945                  | 57,367,389                          | 522,592                  | -   | -                        | -  | -                        | 18,887,086                       | 155,353                  |
| 101101  | Iron ore, including manganese.....  | Gross wt. short tons | 113,806,112                | 1,374,417                | 76,235,465                          | 882,465                  | 16,729,127  | 216,925                  | 1,344,273  | 11,785                   | 19,497,247                       | 263,242                  |
| 331051  | Pig iron <sup>3</sup> .....   | Short tons           | 8,682,563                  | 382,000                  | (D)                                 | (D)                      | (D)   | (D)                      | (D)  | (D)                      | (D)                              | (D)                      |
| 999811  | Iron and steel purchased scrap (except rails for rerolling).....  | ...do....            | 27,964,575                 | 704,092                  | 12,798,603                          | 302,791                  | 2,729,058   | 79,969                   | 10,792,440   | 293,781                  | 1,644,474                        | 27,551                   |
| 331081  | Steel rails for rerolling.....  | ...do....            | 406,742                    | 19,490                   | -                                   | -                        | -   | -                        | (D)  | (D)                      | (D)                              | (D)                      |
|   | Nonferrous metals, alloys and ferroalloys:  |                      |                            |                          |                                     |                          |   |                          |  |                          |                                  |                          |
| 333401  | Aluminum.....   | ...do....            | 54,537                     | 22,770                   | 30,908                              | 12,377                   | 8,269   | 3,571                    | 11,474   | 5,115                    | 3,886                            | 1,707                    |
| 333122  | Copper, including both refined, unalloyed and copper-base alloy raw materials.....                                | ...do....            | 19,154                     | 11,557                   | (D)                                 | (D)                      | 1,162   | 611                      | 1,399  | 821                      | (D)                              | (D)                      |
| 333348  | Zinc.....   | ...do....            | 297,895                    | 71,611                   | 178,076                             | 43,309                   | (D)   | (D)                      | (D)  | (D)                      | 68,892                           | 16,111                   |
| 331312  | Ferromanganese <sup>4</sup> .....   | ...do....            | 771,431                    | 131,374                  | 492,676                             | 84,136                   | 106,320   | 18,788                   | 761,887  | 26,686                   | 10,548                           | 1,764                    |
| 331320  | Ferrochromium.....  | ...do....            | 231,306                    | 64,985                   | (D)                                 | (D)                      | 67,183  | 18,052                   | 132,277  | 35,989                   | (D)                              | (D)                      |
| 331330  | Ferrosilicon.....   | ...do....            | 208,729                    | 32,409                   | 93,585                              | 11,872                   | 32,049  | 5,962                    | 80,087   | 14,092                   | 3,008                            | 483                      |
| 331340  | Spiegeleisen <sup>5</sup> .....   | ...do....            | 23,213                     | 2,156                    | 11,063                              | 943                      | (D)   | (D)                      | 7,126  | 729                      | (D)                              | (D)                      |
| 331342  | Other ferroalloys, including ferrotungsten, silvery iron and ferro-nickel <sup>6</sup> .....                      | ...do....            | 193,802                    | 86,364                   | 105,780                             | 32,062                   | (D)   | (D)                      | 59,936   | 34,072                   | (D)                              | (D)                      |
| 281930  | Sulfuric acid (100 percent H <sub>2</sub> SO <sub>4</sub> ) <sup>7</sup> .....                                    | ...do....            | 1,175,467                  | 25,079                   | 770,542                             | 16,359                   | 108,436   | 2,416                    | 94,585   | 2,145                    | 201,944                          | 4,159                    |
| 281340  | Oxygen (including both high and low purity) <sup>8</sup> .....  | 1,000 cu. ft.....    | 78,707,296                 | 74,700                   | 52,544,815                          | 43,359                   | 13,287,414  | 11,253                   | 11,613,472   | 18,445                   | 1,261,595                        | 1,643                    |
| 325501  | Clay refractories.....  | Short tons           | 1,565,591                  | 83,423                   | 767,826                             | 43,173                   | 445,476   | 20,865                   | 307,432  | 17,418                   | 44,857                           | 1,967                    |
| 329701  | Nonclay refractories.....   | ...do....            | 2,803,010                  | 113,477                  | 2,184,264                           | 80,240                   | 270,156   | 11,069                   | 305,339  | 20,601                   | 43,251                           | 1,567                    |
| 331005  | Ingots, semi-finished shapes (blooms, billets, etc.) and other steel shapes received for further processing)..... | ...do....            | (X) 1,678,361              |                          | (X) 270,605                         |                          | (X) 31,797  |                          | (X) 177,364  |                          | (X) 1,198,595                    |                          |
| 970099  | All other materials and components, parts, containers and supplies consumed.....                                  | ...do....            | (X) <sup>9</sup> 2,165,274 |                          | (X) 912,435                         |                          | (X) 317,468   |                          | (X) 552,429  |                          | (X) 382,942                      |                          |
| 976000  | Materials and components, parts, containers and supplies consumed, n.s.k.....                                     | ...do....            | (X) 262,240                |                          | (X) 96,572                          |                          | (X) -   |                          | (X) 65,879   |                          | (X) 99,789                       |                          |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material   | Unit of measure      | 1958       |                          |                                     |                          |   |                          |                                  |                          |
|---|--|----------------------|------------|--------------------------|-------------------------------------|--------------------------|---|--------------------------|----------------------------------|--------------------------|
|   |  |                      | Total      |                          | Fully integrated works <sup>1</sup> |                          | Partially integrated works <sup>1</sup> |                          | Nonintegrated works <sup>1</sup> |                          |
|   |  |                      | Quantity   | Delivered cost (\$1,000) | Quantity                            | Delivered cost (\$1,000) | Quantity                                | Delivered cost (\$1,000) | Quantity                         | Delivered cost (\$1,000) |
| INDUSTRY 3312.—BLAST FURNACES AND STEEL MILLS—Continued             |  |                      |            |                          |                                     |                          |   |                          |                                  |                          |
|   | Materials, containers, and supplies, total.....  |                      | (X)        | 26,865,454               | (X)                                 | ( <sup>2</sup> )         | (X)                                     | ( <sup>2</sup> )         | (X)                              | ( <sup>2</sup> )         |
| 121111  | Coal used in the production of coke.....   | Short tons           | 76,311,465 | 731,189                  | 57,259,675                          | 552,903                  | -                                       | -                        | 19,051,790                       | 178,286                  |
| 101111  | Iron ore.....  | Gross wt. short tons | 97,233,251 | 1,162,195                | 67,630,106                          | 804,880                  | 17,039,027                              | 218,675                  | 12,564,118                       | 138,640                  |
| 106211  | Manganese ore (containing 10-percent or more manganese).....                             | ..do.....            | 852,262    | 52,648                   | (D)                                 | (D)                      | (D)                                     | (D)                      | (D)                              | (D)                      |
| 331251  | Pig iron <sup>3</sup> .....  | Short tons           | 5,449,575  | 264,193                  | (D)                                 | (D)                      | 3,993,380                               | 200,478                  | (D)                              | (D)                      |
| 941011  | Iron and steel scrap except rails for re-rolling (purchased scrap only).....             | ..do.....            | 18,282,612 | 633,118                  | 9,336,141                           | 294,793                  | 8,690,096                               | 328,394                  | 256,375                          | 9,931                    |
| 331281  | Steel rails for rerolling.....   | ..do.....            | 529,358    | 30,190                   | (X)                                 | (X)                      | 55,511                                  | 2,649                    | 473,847                          | 27,541                   |
| Nonferrous metals, alloys and ferroalloys (ingot, pig, shot, etc.): |  |                      |            |                          |                                     |                          |   |                          |                                  |                          |
| 333411  | Aluminum.....  | ..do.....            | 35,028     | 14,875                   | 20,145                              | 7,988                    | (D)                                     | (D)                      | (D)                              | (D)                      |
| 333925  | Nickel.....  | ..do.....            | 42,022     | 58,758                   | (D)                                 | (D)                      | 36,825                                  | 50,990                   | (D)                              | (D)                      |
| 333311  | Zinc.....  | ..do.....            | 247,076    | 50,483                   | 138,258                             | 29,501                   | (D)                                     | (D)                      | (D)                              | (D)                      |
| 331311  | Ferromanganese <sup>4</sup> .....  | ..do.....            | 620,241    | 158,793                  | 432,957                             | 110,814                  | 187,284                                 | 47,979                   | -                                | -                        |
| 331312  | Spiegeleisen <sup>5</sup> .....  | ..do.....            | 22,422     | 2,232                    | 11,165                              | 1,121                    | 11,257                                  | 1,111                    | -                                | -                        |
| 331314  | Ferrosilicon (over 6 percent silicon).....   | ..do.....            | 186,377    | 32,475                   | 91,056                              | 14,785                   | 95,321                                  | 17,690                   | -                                | -                        |
| 331315  | Ferrotungsten.....   | ..do.....            | 650        | 2,223                    | (D)                                 | (D)                      | (D)                                     | (D)                      | -                                | -                        |
| 331316  | Ferrochromium.....   | ..do.....            | 180,563    | 73,863                   | 24,051                              | 9,426                    | 156,512                                 | 64,437                   | -                                | -                        |
| 331313  | } Other ferroalloys.....   | ..do.....            | (NA)       | 62,048                   | (NA)                                | 23,394                   | (NA)                                    | 38,654                   | -                                | -                        |
| 331317  |  | ..do.....            | (NA)       | 62,048                   | (NA)                                | 23,394                   | (NA)                                    | 38,654                   | -                                | -                        |
| 331318  |  | ..do.....            | (NA)       | 62,048                   | (NA)                                | 23,394                   | (NA)                                    | 38,654                   | -                                | -                        |
| 281111  | Sulfuric acid (100 percent H <sub>2</sub> SO <sub>4</sub> ) <sup>7</sup> .....           | ..do.....            | 1,109,403  | (NA)                     | 691,509                             | (NA)                     | 169,297                                 | (NA)                     | 248,597                          | 5,491                    |
| 331205  | Ingots, semifinished shapes and other steel shapes purchased for further processing..... | ..do.....            | (X)        | 1,715,465                | (X)                                 | 221,469                  | (X)                                     | 220,966                  | (X)                              | 1,273,030                |
| 970099  | All other materials, containers and supplies.....  | ..do.....            | (X)        | 1,795,703                | (X)                                 | ( <sup>2</sup> )         | (X)                                     | ( <sup>2</sup> )         | (X)                              | ( <sup>2</sup> )         |
| 976000  | Materials, containers and supplies, n.s.k.....   | ..do.....            | (X)        | 25,003                   | (X)                                 | -                        | (X)                                     | 4,895                    | (X)                              | 20,108                   |

| Code   | Material   | Unit of measure      | 1963     |                          | 1958     |                          |
|--|--|----------------------|----------|--------------------------|----------|--------------------------|
|  |  |                      | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3313.—ELECTROMETALLURGICAL PRODUCTS |  |                      |          |                          |          |                          |
|  | Materials, containers, and supplies, total.....                                  |                      | (X)      | 175,848                  | (X)      | 188,682                  |
| 106220                                       | Manganese ore.....   | Gross wt. short tons | 452,125  | 15,865                   | 505,391  | 25,695                   |
| 325501                                       | Clay refractories.....   | Short tons           | 9,187    | 636                      | (NA)     | (NA)                     |
| 329701                                       | Nonclay refractories.....  | ..do.....            | 18,177   | 953                      | (NA)     | (NA)                     |
| Ferroalloys:                                 |  |                      |          |                          |          |                          |
| 331312                                       | Ferromanganese.....  | ..do.....            | 18,709   | 1,613                    | (NA)     | (NA)                     |
| 331330                                       | Ferrosilicon.....  | ..do.....            | 1,674    | 212                      | (NA)     | (NA)                     |
| 331342                                       | Other ferroalloys.....   | ..do.....            | 43,878   | 8,627                    | (NA)     | (NA)                     |
| 999811                                       | Iron and steel purchased scrap.....  | ..do.....            | 379,492  | 9,683                    | 296,296  | 6,198                    |
| 970099                                       | All other materials, parts and supplies.....                                     | ..do.....            | (X)      | 135,261                  | (X)      | 156,989                  |
| 976000                                       | Materials, parts and supplies, n.s.k.....  | ..do.....            | (X)      | 2,998                    | (X)      | -                        |
| INDUSTRY 3315.—STEEL WIRE DRAWING, ETC.      |  |                      |          |                          |          |                          |
|  | Materials, containers, and supplies, total.....                                  |                      | (X)      | 313,528                  | (X)      | 245,303                  |
| Nonferrous metals, alloys, and ferroalloys:  |  |                      |          |                          |          |                          |
| 333122                                       | Copper, including both refined unalloyed and copper-base alloy raw material..... | Short tons           | 581      | 537                      | (NA)     | (NA)                     |
| 333975                                       | Tin.....   | ..do.....            | 403      | 479                      | (NA)     | (NA)                     |
| 333232                                       | Lead.....  | ..do.....            | 2,068    | 464                      | (NA)     | (NA)                     |
| 333348                                       | Zinc.....  | ..do.....            | 8,206    | 1,616                    | (NA)     | (NA)                     |
| 281930                                       | Sulfuric acid (100 percent H <sub>2</sub> SO <sub>4</sub> ).....                 | ..do.....            | 24,321   | 1,437                    | (NA)     | (NA)                     |
| Steel for drawing wire:                      |  |                      |          |                          |          |                          |
| Rods:  |  |                      |          |                          |          |                          |
| 331061                                       | Carbon steel.....  | ..do.....            | 966,725  | 143,707                  | 852,130  | 126,420                  |
| 331063                                       | Alloy steel (except stainless).....  | ..do.....            | 41,700   | 11,581                   | 12,123   | 3,669                    |
| 331065                                       | Stainless steel.....   | ..do.....            | 8,987    | 9,697                    | 6,012    | 6,859                    |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure | 1963     |                             | 1958     |                             |
|---|---|-----------------|----------|-----------------------------|----------|-----------------------------|
|   |   |                 | Quantity | Delivered cost<br>(\$1,000) | Quantity | Delivered cost<br>(\$1,000) |
| INDUSTRY 3315.—STEEL WIRE DRAWING, ETC.—Continued |   |                 |          |                             |          |                             |
|   | Steel for drawing wire—Continued  |                 |          |                             |          |                             |
|   | Wire for redrawing:   |                 |          |                             |          |                             |
| 331073  | Carbon steel.....   | Short tons..... | 82,285   | 25,874                      | 44,803   | 12,952                      |
| 331075  | Alloy steel (except stainless).....   | ...do.....      | 2,783    | 2,665                       | 4,809    | 6,598                       |
| 331077  | Stainless steel.....  | ...do.....      | 971      | 1,482                       |          |                             |
| 331079  | Other steel mill shapes for drawing wire.....   | ...do.....      | 6,790    | 1,158                       | (NA)     | (NA)                        |
| 331005  | Ingots, semifinished shapes (blooms, billets, etc.) and other steel shapes received for further process, except for drawing wire..... | .....           | (X)      | 28,684                      | (X)      | 12,875                      |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....   | .....           | (X)      | 58,103                      | (X)      | 59,770                      |
|   | Materials, n.s.k. <sup>10</sup> .....   | .....           | (X)      | 26,044                      | (X)      | 16,160                      |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>For definition of subindustries see footnote 6, table 1.

<sup>2</sup>Total cost of materials, etc., contains extensive duplication. This duplication arises because the products of some establishments are used as materials by other establishments in the same industry. For the industry as a whole the extent of this duplication is approximated by totaling the cost of pig iron, ingots, and semifinished shapes purchased for further processing. Estimated unduplicated cost of materials obtained by this method is \$5,923 million. The comparable 1958 figure was \$4,886 million. The extent of duplication for subindustries cannot be measured accurately because such purchases cross subindustry lines.

<sup>3</sup>In addition, pig iron produced and consumed in the same establishment was 56,369 thousand short tons. In 1958, the comparable figure was 47,499 thousand short tons. For 1963, the combined total for partially integrated works including both those with and those without blast furnaces were 6,645,431 short tons at a delivered cost of \$304,625 thousand.

<sup>4</sup>In addition, 55,510 short tons of ferromanganese were produced and consumed in the same establishment. The comparable figure for 1958 was 59,408 short tons.

<sup>5</sup>Excludes spiegeleisen produced and consumed in the same establishment.

<sup>6</sup>In addition, 15,572 short tons of other ferroalloys were produced and consumed in the same establishment.

<sup>7</sup>For 1963, excludes sulfuric acid produced and consumed in the same establishment. For 1958, includes sulfuric acid produced and consumed in the same establishment.

<sup>8</sup>In addition 9,613,198 thousand cubic feet of oxygen were produced and consumed in the same establishment.

<sup>9</sup>For 1963, includes cost of manganese ore and nickel. For 1958, includes cost of sulfuric acid, copper, and oxygen.

<sup>10</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for establishments which failed to report the costs of individual materials on "standard forms" and (c) discrepancies between total cost of materials and detailed materials on the reports for other establishments.

TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Blast furnaces and steel mills (SIC 3312) | Electrometallurgical products (SIC 3313) | Steel wire drawing, etc. (SIC 3315) | Cold finishing of steel shapes (SIC 3316) | Steel pipe and tube (SIC 3317) |
|---|---|--|-------------------------------------|---|--------------------------------|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 809,433                                   | 48,165                                   | 9,918                               | 8,998                                     | 12,824                         |
| Total cost of purchased fuels.....do....  | 597,236                                   | 20,706                                   | 4,866                               | 4,575                                     | 5,936                          |
| Bituminous coal, lignite, and anthracite:   |   |  |                                     |   |                                |
| Quantity.....1,000 short tons..   | 6,899                                     | 1,800                                    | 41                                  | 50  | 49                             |
| Cost.....\$1,000..  | 45,185                                    | 10,975                                   | 357                                 | 332                                       | 362                            |
| Coke and breeze:  |   |  |                                     |   |                                |
| Quantity.....1,000 short tons..   | 14,011                                    | 515                                      | (S)                                 | (S)                                       | -                              |
| Cost.....\$1,000..  | 216,470                                   | 7,264                                    | (S)                                 | (S)                                       | -                              |
| Fuel oil (distillate and residual):   |   |  |                                     |   |                                |
| Quantity.....1,000 barrels of 42 gallons..  | 34,394                                    | 176                                      | 363                                 | 186                                       | 171                            |
| Cost.....\$1,000..  | 114,818                                   | 692                                      | 1,211                               | 608                                       | 636                            |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |   |  |                                     |   |                                |
| Quantity.....million cu.ft..  | 595,441                                   | 1,946                                    | 4,968                               | 5,298                                     | 8,539                          |
| Cost.....\$1,000..  | 205,067                                   | 685                                      | 2,914                               | 3,393                                     | 4,632                          |
| Other fuels.....do....  | 15,696                                    | 1,090                                    | 283                                 | 239                                       | 306                            |
| Electric energy:  |   |  |                                     |   |                                |
| Purchased:  |   |  |                                     |   |                                |
| Quantity.....million kw.-hrs..  | 22,595                                    | 5,432                                    | 407                                 | 357                                       | 553                            |
| Cost.....\$1,000..  | 212,197                                   | 27,459                                   | 5,052                               | 4,423                                     | 6,888                          |
| Generated less sold.....million kw.-hrs..   | 11,081                                    | 3,187                                    | (S)                                 | 9   | (S)                            |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 20,455                                    | 1,041                                    | 240                                 | 402                                       | 519                            |
| Prime movers, total.....do....  | 7,035                                     | 891                                      | 29                                  | 20  | 43                             |
| Driving generators.....do....   | 3,810                                     | 851                                      | 5                                   | 12  | 12                             |
| Not driving generators.....do....   | 3,225                                     | 40                                       | 24                                  | 8   | 31                             |
| Electric motors, total.....do....   | 19,166                                    | 295                                      | 213                                 | 387                                       | 491                            |
| Driven by purchased energy.....do....   | 13,420                                    | 151                                      | 211                                 | 381                                       | 475                            |
| Driven by energy generated at establishment.....do....  | 5,747                                     | 144                                      | 3                                   | 6   | 16                             |
| Aggregate horsepower per 100 production workers.....  | 5,030                                     | 12,475                                   | 1,549                               | 4,302                                     | 2,656                          |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.



**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3312-                          | BLAST FURNACES AND STEEL MILLS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 288                     | 500,550        | 3,711,639         | 412,311            | 791,364           | 2,892,006       | 7,699,535                                      | 8,958,663                   | 16,611,083                   | 908,440                             |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 227                     | 424,626        | 3,168,343         | 351,449            | 675,562           | 2,486,121       | 6,672,399                                      | 7,861,527                   | 14,487,571                   | 778,520                             |
|                                | 75-89% specialization.....   | 23                      | 38,720         | 284,313           | 31,198             | 59,623            | 214,041         | 560,198  | 629,987                     | 1,194,836                    | 44,619                              |
| 33121                          | Coke oven and blast furnace products, including ferroalloys (primary product class of estab.)                    | 68                      | 21,549         | 147,568           | 18,039             | 34,592            | 115,142         | 305,956  | 828,630                     | 1,141,470                    | 15,122                              |
| 33122                          | Steel ingots and semifinished shapes (primary product class of estab.).....                                      | 19                      | 30,276         | 227,301           | 24,412             | 46,888            | 174,355         | 499,411  | 655,818                     | 1,149,444                    | 49,119                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 5                       | 4,769          | 33,575            | 3,897              | 7,150             | 26,145          | 96,282   | 115,250                     | 211,564                      | 873                                 |
| 3312-12,13                     | Partially integrated works.....  | 11                      | 19,337         | 148,042           | 15,168             | 29,460            | 110,171         | 343,978  | 381,234                     | 718,848                      | 28,846                              |
| 33123                          | Hot-rolled sheet and strip, including tin mill products (primary product class of estab.)                        | 35                      | 138,623        | 1,056,123         | 114,047            | 218,122           | 829,050         | 2,473,005                                      | 2,719,903                   | 5,158,699                    | 369,807                             |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 6                       | 5,288          | 40,999            | 4,558              | 8,895             | 32,981          | 141,546  | 176,308                     | 308,019                      | 8,814                               |
| 3312-11                        | Fully integrated works.....  | 10                      | 90,004         | 679,447           | 74,353             | 141,301           | 534,936         | 1,702,408                                      | 1,226,088                   | 2,721,915                    | 149,316                             |
| 3312-12,13                     | Partially integrated works.....  | 10                      | 30,633         | 236,699           | 25,352             | 49,805            | 187,827         | 527,380  | 591,784                     | 1,099,893                    | 158,013                             |
| 3312-14                        | Nonintegrated works.....   | 15                      | 17,986         | 139,977           | 14,342             | 27,016            | 106,287         | 243,828  | 901,831                     | 1,144,400                    | 62,478                              |
| 33124                          | Hot-rolled bars and bar shapes, plates, structural shapes, and piling (primary product class of estab.).....     | 78                      | 156,719        | 1,151,042         | 127,702            | 245,036           | 883,900         | 2,113,115                                      | 2,225,992                   | 4,336,800                    | 204,881                             |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 24                      | 8,457          | 61,526            | 6,675              | 13,439            | 44,057          | 114,543  | 96,915                      | 211,226                      | 4,231                               |
| 3312-11                        | Fully integrated works.....  | 9                       | 79,452         | 583,398           | 63,750             | 123,155           | 446,298         | 1,110,802                                      | 967,486                     | 2,084,993                    | 148,788                             |
| 3312-12,13                     | Partially integrated works.....  | 46                      | 66,320         | 490,581           | 54,831             | 104,409           | 378,935         | 851,459  | 1,025,950                   | 1,867,319                    | 46,724                              |
| 3312-14                        | Nonintegrated works.....   | 23                      | 10,947         | 77,063            | 9,121              | 17,472            | 58,667          | 150,854  | 232,556                     | 384,488                      | 9,369                               |
| 33125                          | Steel wire (produced in steel mills) (primary product class of estab.).....                                      | 11                      | 12,223         | 83,671            | 9,973              | 19,610            | 66,086          | 139,531  | 136,442                     | 281,449                      | 7,433                               |
| 3312-12,13                     | Partially integrated works.....  | 5                       | 8,434          | 62,640            | 6,979              | 14,090            | 50,558          | 109,492  | 73,153                      | 186,804                      | 5,350                               |
| 3312-14                        | Nonintegrated works.....   | 6                       | 3,789          | 21,031            | 2,994              | 5,520             | 15,528          | 30,039   | 63,289                      | 94,705                       | 2,083                               |
| 33126                          | Steel pipe and tube (produced in steel mills) (primary product class of estab.).....                             | 19                      | 62,555         | 442,603           | 52,986             | 100,320           | 347,492         | 810,914  | 956,188                     | 1,753,538                    | 56,093                              |
| 3312-11                        | Fully integrated works.....  | 6                       | 42,300         | 297,626           | 35,935             | 68,134            | 236,932         | 559,944  | 589,151                     | 1,141,795                    | 29,074                              |
| 3312-12,13                     | Partially integrated works.....  | 5                       | 14,864         | 106,173           | 12,628             | 24,010            | 80,810          | 205,785  | 251,390                     | 452,775                      | 24,475                              |
| 3312-14                        | Nonintegrated works.....   | 8                       | 5,391          | 38,804            | 4,423              | 8,176             | 29,750          | 45,185   | 115,647                     | 158,968                      | 2,544                               |
| 33127                          | Cold-rolled steel sheet and strip (produced from own hot-rolled material) (primary product class of estab.)..... | 14                      | 50,055         | 387,651           | 42,064             | 81,765            | 311,624         | 855,922  | 1,043,137                   | 1,893,513                    | 118,428                             |
| 3312-11                        | Fully integrated works.....  | 5                       | 31,011         | 241,345           | 26,619             | 51,970            | 199,852         | 553,730  | 520,852                     | 1,068,792                    | 60,519                              |
| 3312-12,13                     | Partially integrated works.....  | 4                       | 14,610         | 11,033            | 11,931             | 23,139            | 85,367          | 262,871  | 368,232                     | 631,946                      | 48,585                              |
| 3312-14                        | Nonintegrated works.....   | 5                       | 4,434          | 35,273            | 3,514              | 6,656             | 26,405          | 39,321   | 154,053                     | 192,775                      | 9,324                               |

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3312-                          | BLAST FURNACES AND STEEL MILLS—<br>Continued   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
| 33129                          | Press and hammer steel forgings (made in steel mills) (primary product class of estab.).....                               | 6                       | 4,932          | 33,780            | 3,952              | 7,801             | 25,109          | 41,082   | 30,096                      | 72,540                       | 3,033                               |
| 3312-12,13                     | Partially integrated works.....  | 6                       | 4,932          | 33,780            | 3,952              | 7,801             | 25,109          | 41,082   | 30,096                      | 72,540                       | 3,033                               |
| 3313-                          | ELECTROMETALLURGICAL PRODUCTS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 36                      | 10,437         | 68,880            | 8,155              | 16,563            | 50,767          | 145,503  | 227,977                     | 382,132                      | 13,412                              |
| 33132                          | Ferrochrome (primary product class of estab.).....   | 8                       | 4,224          | 28,186            | 3,274              | 6,739             | 20,376          | 50,917   | 86,964                      | 139,313                      | 6,299                               |
| 33133                          | Ferrosilicon (primary product class of estab.).....  | 10                      | 3,986          | 26,223            | 3,140              | 6,326             | 20,094          | 60,403   | 79,235                      | 146,709                      | 3,274                               |
| 3315-                          | STEEL WIRE DRAWING, ETC.   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 200                     | 21,280         | 134,636           | 16,904             | 34,367            | 97,055          | 253,009  | 336,651                     | 592,263                      | 14,002                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 164                     | 14,278         | 91,172            | 11,348             | 22,853            | 66,107          | 175,780  | 225,565                     | 403,045                      | 8,271                               |
|                                | 75-89% specialization.....   | 10                      | 3,392          | 21,492            | 2,655              | 5,627             | 15,198          | 34,482   | 62,954                      | 100,306                      | 1,942                               |
| 33151                          | Noninsulated ferrous wire, rope, cable, and strand (primary product class of estab.).....                                  | 12                      | 3,430          | 23,832            | 2,635              | 5,048             | 16,883          | 41,529   | 45,262                      | 86,302                       | 1,702                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 5                       | 1,700          | 11,899            | 1,300              | 2,447             | 8,536           | 20,799   | 16,829                      | 37,657                       | 481                                 |
| 33152                          | Steel nails and spikes (primary product class of estab.).....  | 51                      | 4,303          | 22,551            | 3,517              | 7,261             | 16,604          | 46,228   | 40,071                      | 84,465                       | 2,541                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 36                      | 1,741          | 8,249             | 1,450              | 2,900             | 6,203           | 14,096   | 15,216                      | 29,555                       | 328                                 |
|                                | 75-89% specialization.....   | 6                       | 994            | 5,674             | 751                | 1,858             | 4,070           | 14,206   | 10,560                      | 23,940                       | 828                                 |
| 33155                          | Steel wire not produced in steel mills (primary product class of estab.).....  | 59                      | 8,307          | 58,410            | 6,493              | 13,178            | 41,703          | 107,778  | 177,037                     | 288,195                      | 5,464                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 40                      | 4,089          | 29,517            | 3,239              | 6,779             | 21,730          | 58,316   | 75,316                      | 131,995                      | 3,181                               |
|                                | 75-89% specialization.....   | 6                       | 2,086          | 14,222            | 1,683              | 3,209             | 10,354          | 17,066   | 56,335                      | 78,354                       | 895                                 |
| 33157                          | Wire cloth and other woven wire products made in wire drawing plants (primary product class of estab.).....                | 6                       | 859            | 5,107             | 611                | 1,187             | 3,115           | 8,285  | 8,264                       | 17,721                       | 701                                 |
| 33159                          | Other fabricated ferrous wire products, except springs, made in wire drawing plants (primary product class of estab.)..... | 37                      | 2,612          | 15,592            | 2,136              | 4,286             | 11,367          | 30,174   | 42,634                      | 73,501                       | 1,692                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 32                      | 1,839          | 10,527            | 1,484              | 2,995             | 7,492           | 22,676   | 21,694                      | 44,881                       | 1,227                               |
| 3316-                          | COLD FINISHING OF STEEL SHAPES   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 81                      | 13,700         | 99,557            | 10,623             | 21,833            | 71,527          | 223,977  | 529,954                     | 751,627                      | 14,925                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 70                      | 9,915          | 72,472            | 7,648              | 15,732            | 51,647          | 156,810  | 474,373                     | 626,153                      | 11,329                              |
| 33167                          | Cold-rolled steel sheet and strip (not made in steel mills) (primary product class of estab.).....                         | 44                      | 8,628          | 64,081            | 6,795              | 14,027            | 46,928          | 152,806  | 323,231                     | 475,169                      | 12,738                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 37                      | 5,545          | 41,633            | 4,366              | 8,961             | 30,021          | 94,817   | 284,073                     | 374,710                      | 9,450                               |



TABLE 9A. Blast Furnaces and Steel Mills (SIC 3312)—Departmental Operations  
by Degree of Integration: 1963 and 1958

| Department  | Man-hours of production workers (1,000) |                                     |   |                     |                        | Production worker wages \$1,000   |           |                                     |   |                     |                        |                                   |
|---|---|-------------------------------------|---|---------------------|------------------------|-----------------------------------|-----------|-------------------------------------|---|---------------------|------------------------|-----------------------------------|
|   | Total                                   | Fully integrated works <sup>1</sup> | Partially integrated works <sup>1</sup> |                     |                        | Non-integrated works <sup>1</sup> | Total     | Fully integrated works <sup>1</sup> | Partially integrated works <sup>1</sup> |                     |                        | Non-integrated works <sup>1</sup> |
|   |   |                                     | Total                                   | With blast furnaces | Without blast furnaces |                                   |           |                                     | Total                                   | With blast furnaces | Without blast furnaces |                                   |
| 1963  |   |                                     |   |                     |                        |                                   |           |                                     |   |                     |                        |                                   |
| All departments, total.....   | 791,364                                 | 425,369                             | 262,263                                 | 84,406              | 177,857                | 103,732                           | 2,892,008 | 1,573,019                           | 951,558                                 | 314,388             | 637,170                | 367,429                           |
| Coke ovens.....   | 36,802                                  | 24,467                              | -                                       | -                   | -                      | 12,335                            | 124,301   | 84,532                              | -                                       | -                   | -                      | 39,769                            |
| Blast furnaces.....   | 41,060                                  | 24,065                              | 5,010                                   | 5,010               | -                      | 11,985                            | 144,249   | 85,052                              | 18,795                                  | 18,795              | -                      | 40,402                            |
| Steel department (furnaces).....  | 77,238                                  | 47,132                              | 30,106                                  | 9,470               | 20,636                 | -                                 | 308,396   | 190,727                             | 117,669                                 | 39,955              | 77,714                 | -                                 |
| Rolling and finishing mills:  |   |                                     |   |                     |                        |                                   |           |                                     |   |                     |                        |                                   |
| Sheet and strip mill.....   | 94,955                                  | 48,301                              | 30,601                                  | 14,601              | 16,000                 | 23,977                            | 362,793   | 182,820                             | 115,254                                 | 55,135              | 60,119                 | 95,928                            |
| Tin mill.....   | 26,036                                  | 18,112                              |   |                     |                        |                                   |           |                                     |   |                     |                        |                                   |
| Bar mill, including rebars.....   | 58,828                                  | 30,243                              | 21,181                                  | 7,453               | 29,909                 | 7,404                             | 214,200   | 108,092                             | 81,815                                  | 27,130              | 111,395                | 24,293                            |
| Wire drawing mill.....  | 20,103                                  | 7,830                               |   |                     |                        |                                   |           |                                     |   |                     |                        |                                   |
| Pipe mill.....  | 34,910                                  | 19,897                              | 8,173                                   |                     |                        | 6,840                             | 120,703   | 68,294                              | 27,260                                  |                     |                        | 25,149                            |
| Other mills, including semifinishing, plate and structural.....                     | 93,853                                  | 57,032                              | 29,214                                  | 8,287               | 20,927                 | 7,607                             | 335,235   | 199,713                             | 108,570                                 | 33,571              | 74,999                 | 26,952                            |
| Foundry (iron or steel).....  | 12,203                                  |                                     | 2,177                                   | 835                 | 1,342                  |                                   | 44,570    |                                     | 7,136                                   | 3,054               | 4,082                  |                                   |
| Forging (presses, hammers, or upsetters).....                                       | 6,732                                   | 18,893                              | 4,682                                   | -                   | 4,682                  | 23,701                            | 22,973    | 67,625                              | 16,271                                  | -                   | 16,271                 | 60,395                            |
| Other manufacturing or fabricating departments (nuts, bolts, containers, etc.)..... | 47,032                                  |                                     | 16,514                                  | -                   | 16,514                 |                                   | 137,935   |                                     | 54,051                                  | -                   | 54,051                 |                                   |
| Service or auxiliary operations and all other activities.....                       | 241,612                                 | 129,397                             | 106,597                                 | 38,750              | 67,847                 | 5,618                             | 905,546   | 491,832                             | 375,287                                 | 136,748             | 238,539                | 38,427                            |
| 1958  |   |                                     |   |                     |                        |                                   |           |                                     |   |                     |                        |                                   |
| All departments, total.....   | 765,941                                 | 414,645                             | 241,046                                 | 86,303              | 154,743                | 110,250                           | 2,415,959 | 1,312,044                           | 759,276                                 | 279,163             | 480,113                | 344,639                           |
| Coke ovens.....   | 40,449                                  | 25,977                              | -                                       | -                   | -                      | 14,472                            | 120,041   | 79,504                              | -                                       | -                   | -                      | 40,537                            |
| Blast furnaces.....   | 40,391                                  | 24,121                              | 6,428                                   | 6,428               | -                      | 9,842                             | 120,925   | 72,846                              | 19,645                                  | 19,645              | -                      | 28,434                            |
| Steel department (furnaces).....  | 74,801                                  | 44,375                              | 30,426                                  | 11,659              | 18,767                 | -                                 | 257,601   | 154,553                             | 103,048                                 | 40,904              | 62,144                 | -                                 |
| Rolling and finishing mills.....  | 298,417                                 | 171,695                             | 71,810                                  | 21,417              | 50,393                 | 54,912                            | 949,242   | 537,825                             | 229,053                                 | 68,824              | 160,229                | 182,364                           |
| Foundry (iron or steel).....  | 7,912                                   | 4,538                               | 2,575                                   | 1,182               | 1,393                  | 799                               | 23,068    | 13,077                              | 7,536                                   | 3,886               | 3,650                  | 2,455                             |
| Forging (presses, hammers or upsetters).....  | 6,698                                   | 1,169                               | 5,169                                   | -                   | 5,169                  | 360                               | 20,305    | 3,609                               | 15,619                                  | -                   | 15,619                 | 1,077                             |
| Other manufacturing or fabricating departments (nuts, bolts, containers, etc.)..... | 50,887                                  | 10,234                              | 30,657                                  | 45,617              | 79,021                 | 9,996                             | 151,228   | 29,837                              | 92,572                                  | 145,904             | 238,471                | 28,819                            |
| Service or auxiliary operations and all other activities.....                       | 246,386                                 | 132,536                             | 93,981                                  |                     |                        |                                   | 19,869    | 773,549                             | 420,793                                 |                     |                        |                                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>See footnote 6, table 1 for definition of fully integrated, partially integrated, and nonintegrated works.

TABLE 9B. Steel Wire Mills, Cold Finishing Mills, and Pipe and Tube Mills—  
Department Operations: 1963

| Department  | Steel wire drawing, etc. (SIC 3315) |                                   | Cold finishing mills (SIC 3316) |                                   | Steel pipe and tube (SIC 3317) |                                   |
|---|-------------------------------------|-----------------------------------|---------------------------------|-----------------------------------|--------------------------------|-----------------------------------|
|   | Man-hours (1,000)                   | Production worker wages (\$1,000) | Man-hours (1,000)               | Production worker wages (\$1,000) | Man-hours (1,000)              | Production worker wages (\$1,000) |
| Total, all departments.....   | 34,367                              | 97,055                            | 21,833                          | 71,527                            | 37,862                         | 113,656                           |
| Rolling and finishing mills:  |                                     |                                   |                                 |                                   |                                |                                   |
| Sheet and strip mill.....   | ( <sup>1</sup> )                    | ( <sup>1</sup> )                  | 8,709                           | 30,012                            | ( <sup>1</sup> )               | ( <sup>1</sup> )                  |
| Tin mill.....   | ( <sup>1</sup> )                    | ( <sup>1</sup> )                  | -                               | -                                 | -                              | -                                 |
| Bar mill, including rebars.....   | ( <sup>1</sup> )                    | ( <sup>1</sup> )                  | 3,343                           | 10,911                            | ( <sup>1</sup> )               | ( <sup>1</sup> )                  |
| Wire drawing mill.....  | 15,271                              | 47,455                            | ( <sup>1</sup> )                | ( <sup>1</sup> )                  | ( <sup>1</sup> )               | ( <sup>1</sup> )                  |
| Pipe mill.....  | -                                   | -                                 | ( <sup>1</sup> )                | ( <sup>1</sup> )                  | 21,811                         | 68,211                            |
| Other mills, including semifinishing, plate and structural.....                               | 1,152                               | 13,893                            | 12,074                          | 16,659                            | 1,776                          | 12,488                            |
| Other manufacturing or fabricating departments (nuts, bolts, forgings, containers, etc.)..... | 8,335                               | 21,612                            | 1,075                           | 3,712                             | 6,866                          | 20,124                            |
| Service or auxiliary operations and all other activities.....                                 | 3,945                               | 12,064                            | 4,236                           | 13,564                            | 1,562                          | 4,482                             |
| Unspecified.....  | 5,664                               | 12,031                            | 2,396                           | 6,669                             | 6,847                          | 18,352                            |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>Data for "Other mills..." includes data for specified mills not shown separately.





## IRON AND STEEL FOUNDRIES

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3321--Gray Iron Foundries
- 3322--Malleable Iron Foundries
- 3323--Steel Foundries

This group is comprised of three foundry industries, namely industry 3321, Gray Iron Foundries; industry 3322, Malleable Iron Foundries; and industry 3323, Steel Foundries. These foundry industries comprise establishments primarily engaged in manufacturing gray-iron castings, including cast gray-iron pipe and fittings (3321), malleable iron castings (3322), and steel castings (3323).

For these industries, captive production (that is, the tonnage of castings produced for incorporation into the final product of the plant or company) is a particularly important factor. Distinction is made between rough castings and castings which are machined or further processed and incorporated into other products. The removal of gates, risers, sprues, and tumbling, dipping, and sand blasting, do not constitute machining. Plants primarily engaged in manufacturing castings are included in the foundry industries; plants primarily engaged in further processing castings into parts for metal products or machinery are classified in other major groups.

For the 1963 Census of Manufactures separate establishment reports were received from all commercial (jobbing) foundries and from those captive foundries which were operated as separate establishments by the reporting companies. These two groups comprise the types of establishments included in industries 3321, 3322, and 3323. However, where the captive foundry operation was completely integrated with the operation of the entire plant, no separate establishment report was received for the foundry activity. In these instances, data were obtained on the tonnage of castings produced and consumed and on the number of employees usually engaged in the captive foundry operation. However, establishments with such foundry departments were classified on the basis of the plant's final product and accordingly, the general statistics on employment, payrolls, cost of materials, etc., are included in the data for such industries as plumbing fixtures (3431), and farm machinery and equipment (3522), etc.

The data shown in table 6A on shipments and transfers of iron and steel castings represent total shipments and transfers including the quantity of castings shipped by establishments classified in industries other than the foundry industries (3321, 3322, and 3323). For those industries where captive foundry departments are particularly important, data on the tonnage of castings produced and consumed are shown in table 7 of the individual industry reports covering the specific industries.

During 1963, the Bureau of the Census also collected and published monthly data on shipments of iron and steel castings. These monthly data were derived from a sample survey and were published in Current Industrial Reports Series M33-1, Iron and Steel Castings. The M33-1 series includes data for both commercial and captive foundry production and shows separately shipments "for sale" and shipments "for own use."

It should be specifically noted that the value data on shipments of iron and steel castings in table 6A do not include the value of the large quantity of castings produced by establishments classified in other industries which produce castings only for incorporation into their own products or for internal use but not for sale as such.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3321--GRAY IRON FOUNDRIES

This industry comprises establishments primarily engaged in manufacturing gray iron castings, including cast iron pressure and soil pipe and fittings. Establishments primarily engaged in manufacturing valves and fittings, except plumbers' brass goods and fittings, are classified in industry 3494, Valves and Pipe Fittings. For a detailed list of products of industry 3321, refer to table 6A, product codes 3321111 to 3321498.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Gray Iron Foundries Industry in 1963 totaled \$1,985 million. This amount included shipments of gray iron castings (primary products) valued at \$1,794 million, shipments of other products (secondary products) valued at \$134 million, and miscellaneous receipts (mainly receipts for resales) at \$56 million.

This industry's shipments of gray iron castings in 1963 represented 93 percent of its total product shipments. The industry specialization ratio in 1958 was 95 percent. Secondary products shipped by this industry in 1963 included malleable iron castings (\$22 million), and aluminum and aluminum-base alloy castings (\$17 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 85 percent of the total industry shipments are represented by plants specializing in product classes; 60 percent in miscellaneous gray iron castings; 12 percent in cast iron pressure pipe and fittings; and 8 percent in cast iron soil pipe and fittings.

Shipments of gray iron castings by this industry in 1963 represented 88 percent of all shipments of these products (\$2,046 million) by all industries. In 1958 the coverage ratio was 87 percent. Other industries shipping gray iron castings (primary products) included industry 3312, Steel Mill Products, \$92 million; industry 3323, Steel Castings, \$27 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product class of industry 3321, e.g., molds for heavy steel ingots, 54 percent.



### 3322—MALLEABLE IRON FOUNDRIES

This industry comprises establishments primarily engaged in manufacturing malleable iron castings. For a detailed list of products of industry 3322, refer to table 6A, product codes 3322021 to 3322031.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Malleable Iron Foundries Industry in 1963 totaled \$318 million. This amount included shipments of malleable iron castings (primary products) valued at \$272 million, shipments of other products (secondary products) valued at \$42 million, and miscellaneous receipts (mainly receipts for resales) at \$3 million.

This industry's shipments of malleable iron castings in 1963 represented 87 percent of its total product shipments. The industry specialization ratio in 1958 was 86 percent. Secondary products shipped by this industry in 1963 consisted mainly of miscellaneous gray iron castings (\$21 million).

Shipments of malleable iron castings by this industry in 1963 represented 87 percent of all shipments of these products (\$314 million) by all industries. In 1958 the coverage ratio was 90 percent. Other industries shipping malleable iron castings (primary products) consisted mainly of industry 3321, Gray Iron Foundries, \$22 million.

The production index for the primary products of the industry increased to 124 in 1963 from the 1958 level of 84. The unit value index for 1963 was 123 compared to 118 in 1958. Both indexes were computed on a basis of 1954 = 100.

### 3323—STEEL FOUNDRIES

This industry comprises establishments primarily engaged in manufacturing steel castings. For a detailed list of products of industry 3323, refer to table 6A, product codes 3323012 to 3323061.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

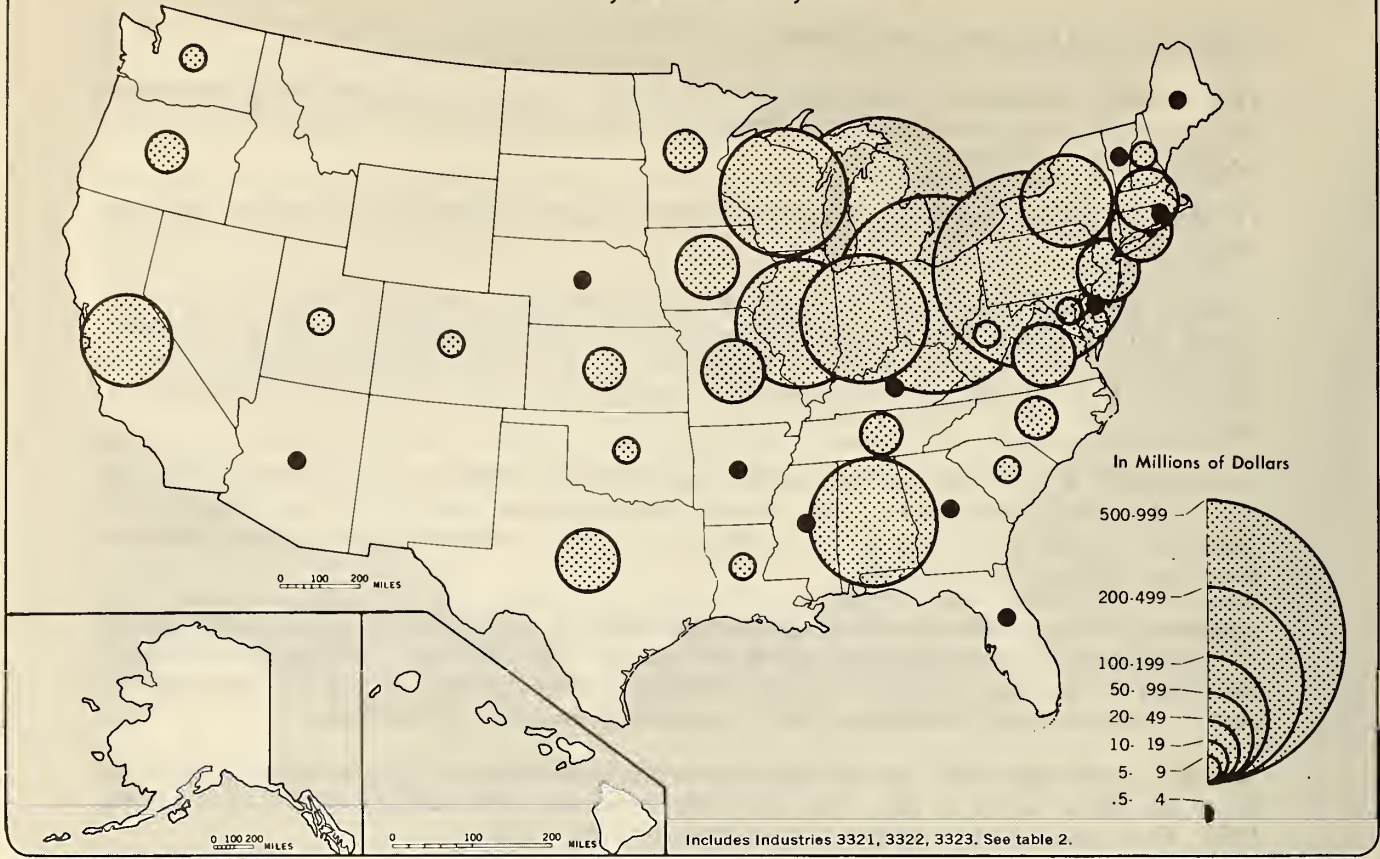
Value of shipments and other receipts of the Steel Foundries Industry in 1963 totaled \$871 million. This amount included shipments of steel castings (primary products) valued at \$726 million, shipments of other products (secondary products) valued at \$129 million, and miscellaneous receipts (mainly receipts for resales), at \$17 million.

This industry's shipments of steel castings in 1963 represented 85 percent of its total product shipments. The industry specialization ratio in 1958 was 86 percent. Secondary products shipped by this industry in 1963 included miscellaneous gray iron castings (\$20 million), and street cars, parts and attachments for railroad cars and street cars and rebuilt passenger and freight train cars (\$19 million).

Shipments of steel castings by this industry in 1963 represented 89 percent of all shipments of these products (\$815 million) by all industries. In 1958 the coverage ratio was 86 percent. Other industries shipping steel castings (primary products) included industry 3312, Steel Mill Products, \$22 million; and industry 3321, Gray Iron Foundries, \$15 million.

The production index for the primary products of the industry increased to 114 in 1963 from the 1958 level of 89. The unit value index for 1963 was 134 compared to 124 in 1958. Both indexes were computed on a basis of 1954 = 100.

**IRON AND STEEL FOUNDRIES: SIC 332**  
 Value Added by Manufacture by State: 1963



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS



TABLE 1. General Statistics: 1963 and Earlier Years

| Year                                    | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3321.—GRAY IRON FOUNDRIES      |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                               | 1,062                      | 1,139             | 767  | 120,528           | 730,279              | 104,239            | 214,285              | 596,109            | 1,168,478  | 813,568                           | 1,984,944                          | 64,823  | 93  | 88                                       |
| 1962 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 119,234           | 675,413              | 102,822            | 204,064              | 543,179            | 1,076,146  | 767,918                           | 1,836,197                          | 60,498  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 113,685           | 602,316              | 97,468             | 183,888              | 481,672            | 923,970  | 702,260                           | 1,622,700                          | 52,307  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 121,516           | 627,498              | 104,330            | 199,652              | 503,590            | 968,427  | 751,840                           | 1,718,773                          | 53,202  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 125,862           | 644,417              | 109,132            | 217,159              | 525,482            | 1,002,896  | 806,515                           | 1,803,001                          | 34,072  | (NA)  | (NA)                                     |
| 1958.....                               | 1,211                      | 1,310             | 848  | 112,670           | 531,152              | 96,414             | 178,006              | 418,935            | 810,758  | 622,696                           | 1,434,701                          | 32,559  | 95  | 87                                       |
| 1957 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 136,040           | 626,185              | 118,615            | 227,157              | 509,526            | 954,202  | 737,429                           | 1,689,827                          | 61,560  | 94  | 85                                       |
| 1956 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 142,765           | 661,108              | 125,367            | 252,429              | 542,627            | 1,051,075  | 777,562                           | 1,816,296                          | 57,377  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 144,669           | 656,572              | 128,097            | 265,620              | 549,081            | 1,049,422  | 735,162                           | 1,772,932                          | 57,014  | (NA)  | (NA)                                     |
| 1954.....                               | 1,321                      | 1,414             | 940  | 133,914           | 557,535              | 118,288            | 230,234              | 459,049            | 847,436  | 592,835                           | 1,441,880                          | 49,939  | 94  | 87                                       |
| 1953 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 144,600           | 611,625              | 128,418            | (NA)                 | 513,840            | 911,419  | 690,304                           | 1,601,723                          | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 145,070           | 577,317              | 129,501            | (NA)                 | 487,270            | 811,251  | 615,584                           | 1,426,837                          | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 164,762           | 632,663              | 149,001            | (NA)                 | 546,162            | 911,367  | 723,394                           | 1,634,761                          | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 150,121           | 521,655              | 135,811            | (NA)                 | 450,455            | 763,701  | 540,266                           | 1,303,967                          | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 138,691           | 432,633              | 122,856            | (NA)                 | 361,028            | 604,352  | 437,897                           | 1,042,249                          | (NA)  | (NA)  | (NA)                                     |
| 1947.....                               | 1,554                      | 1,655             | (NA)   | 173,813           | 512,245              | 157,395            | 328,537              | 441,716            | 732,807  | 440,232                           | 1,173,039                          | (NA)  | 92  | 87                                       |
| 1939.....                               | (NA)                       | 1,254             | (NA)   | (NA)              | (NA)                 | 75,680             | (NA)                 | 89,047             | 169,278  | 108,564                           | 277,842                            | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> .....                 | (NA)                       | 1,227             | (NA)   | (NA)              | (NA)                 | 91,573             | (NA)                 | 112,148            | 200,155  | 122,405                           | 322,560                            | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3322.—MALLEABLE IRON FOUNDRIES |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                               | 76                         | 81                | 71   | 22,297            | 141,967              | 18,832             | 38,789               | 112,670            | 204,557  | 111,831                           | 317,528                            | 16,283  | 87  | 87                                       |
| 1962 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 22,639            | 136,938              | 19,136             | 38,250               | 108,695            | 196,005  | 109,643                           | 304,688                            | 9,017   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 20,821            | 118,118              | 17,296             | 33,687               | 91,934             | 164,484  | 93,163                            | 256,955                            | 9,801   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 23,537            | 125,602              | 19,661             | 37,211               | 98,092             | 170,320  | 106,983                           | 279,884                            | 12,850  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 24,266            | 134,962              | 20,800             | 42,362               | 108,178            | 189,099  | 113,799                           | 299,591                            | 9,601   | (NA)  | (NA)                                     |
| 1958.....                               | 74                         | 82                | 74   | 20,230            | 100,579              | 16,694             | 31,366               | 77,148             | 127,592  | 86,790                            | 214,537                            | 4,438   | 86  | 90                                       |
| 1957 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 23,426            | 112,255              | 20,042             | 38,209               | 89,565             | 159,221  | 100,677                           | 259,561                            | 7,388   | 86  | 92                                       |
| 1956 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 25,121            | 117,136              | 21,599             | 42,573               | 95,016             | 171,330  | 109,904                           | 280,781                            | 8,451   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 27,400            | 127,408              | 24,082             | 49,798               | 106,100            | 183,999  | 113,755                           | 294,204                            | 11,217  | (NA)  | (NA)                                     |
| 1954.....                               | 71                         | 81                | 77   | 23,378            | 96,888               | 20,205             | 38,306               | 78,004             | 133,262  | 78,064                            | 213,321                            | 9,966   | 86  | 89                                       |
| 1953 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 28,438            | 121,024              | 24,706             | (NA)                 | 98,727             | 164,393  | 106,709                           | 271,102                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 20,019            | 114,785              | 25,107             | (NA)                 | 92,933             | 153,661  | 94,511                            | 248,172                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 32,289            | 126,548              | 28,388             | (NA)                 | 104,777            | 174,555  | 109,146                           | 283,701                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 26,229            | 95,415               | 22,973             | (NA)                 | 78,097             | 126,997  | 80,606                            | 207,603                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 24,440            | 75,728               | 20,642             | (NA)                 | 59,879             | 96,989   | 63,345                            | 160,384                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                               | 68                         | 78                | (NA)   | 29,862            | 90,811               | 26,659             | 54,650               | 76,750             | 121,661  | 62,739                            | 184,400                            | (NA)  | 88  | 91                                       |
| 1939.....                               | (NA)                       | 83                | (NA)   | 20,186            | 26,415               | 18,041             | (NA)                 | 21,556             | 35,500   | 17,951                            | 53,451                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> .....                 | (NA)                       | 84                | (NA)   | (NA)              | (NA)                 | 23,713             | (NA)                 | 28,819             | 45,512   | 24,004                            | 69,516                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3323.—STEEL FOUNDRIES          |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                               | 222                        | 267               | 220  | 56,810            | 361,378              | 47,628             | 95,106               | 280,433            | 586,914  | 288,795                           | 871,048                            | 27,832  | 85  | 89                                       |
| 1962 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 50,506            | 303,200              | 45,204             | 83,773               | 235,983            | 484,252  | 249,680                           | 729,688                            | 23,569  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 46,810            | 269,854              | 41,652             | 74,434               | 204,411            | 410,809  | 225,048                           | 629,645                            | 22,859  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 50,807            | 288,073              | 45,223             | 81,816               | 219,753            | 439,099  | 248,710                           | 700,488                            | 19,221  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 54,029            | 300,950              | 51,544             | 89,000               | 231,383            | 489,244  | 256,734                           | 739,173                            | 25,258  | (NA)  | (NA)                                     |
| 1958.....                               | 210                        | 256               | 216  | 49,133            | 254,338              | 40,134             | 74,390               | 186,778            | 383,870  | 203,683                           | 596,276                            | 22,239  | 86  | 86                                       |
| 1957 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 67,486            | 357,831              | 57,075             | 113,608              | 274,090            | 570,652  | 329,019                           | 890,810                            | 36,035  | 86  | 88                                       |
| 1956 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 70,412            | 365,095              | 60,305             | 124,782              | 288,717            | 594,103  | 331,920                           | 901,041                            | 31,767  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 60,264            | 287,723              | 50,776             | 102,726              | 221,498            | 440,580  | 230,538                           | 657,647                            | 20,378  | (NA)  | (NA)                                     |
| 1954.....                               | 207                        | 239               | 203  | 55,073            | 241,305              | 45,655             | 85,684               | 179,361            | 346,706  | 181,261                           | 539,784                            | 16,426  | 88  | 87                                       |
| 1953 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 76,949            | 345,347              | 65,940             | (NA)                 | 274,765            | 550,340  | 296,123                           | 846,463                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 79,010            | 343,664              | 69,259             | (NA)                 | 282,394            | 505,547  | 299,087                           | 804,634                            | (NA)  | (NA)  | (NA)                                     |

See footnotes at end of table.

TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year                                      | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3323.--STEEL FOUNDRIES—Continued |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1951 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 73,434            | 303,476              | 64,291             | (NA)                 | 247,653            | 458,102  | 292,644                           | 750,746                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 52,094            | 189,707              | 44,219             | (NA)                 | 149,866            | 280,045  | 170,333                           | 450,378                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                   | (NA)                       | (NA)              | (NA)   | 48,451            | 159,128              | 41,688             | (NA)                 | 123,446            | 227,016  | 138,844                           | 365,860                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                 | 177                        | 203               | (NA)   | 62,335            | 186,661              | 54,207             | 107,755              | 151,036            | 262,935  | 140,240                           | 403,175                            | (NA)  | (NA)  | 89 83                                    |
| 1939.....                                 | (NA)                       | 164               | (NA)   | 35,567            | 55,415               | 30,088             | (NA)                 | 41,942             | 90,234   | 45,232                            | 135,466                            | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                 | (NA)                       | 145               | (NA)   | (NA)              | (NA)                 | 41,299             | (NA)                 | 62,351             | 120,432  | 63,796                            | 184,228                            | (NA)  | (NA)  | (NA)                                     |
| 1929 <sup>2</sup> .....                   | (NA)                       | 168               | (NA)   | (NA)              | (NA)                 | 39,697             | (NA)                 | 66,459             | 142,287  | 63,063                            | 205,350                            | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1954 excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1954 excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>2</sup>No comparable figures are available for earlier years.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>            | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3321.—GRAY IRON FOUNDRIES      |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                              | 1,139          | 767                                | 120,528        | 730,279           | 104,239            | 214,285           | 596,109         | 1,168,478                            | 813,568           | 1,984,944          | 64,823                    | 112,670          | 810,758                              |
| New England.....                        | 90             | 58                                 | 4,905          | 27,322            | 4,355              | 9,878             | 22,615          | 41,852                               | 21,822            | 63,154             | 2,021                     | 4,740            | 28,237                               |
| Massachusetts.....                      | 47             | 30                                 | 2,704          | 14,794            | 2,481              | 5,990             | 12,812          | 23,463                               | 10,274            | 33,274             | 956                       | 2,740            | 18,142                               |
| Rhode Island.....                       | 10             | 6                                  | 316            | 1,488             | 279                | 557               | 1,246           | 1,968                                | 1,421             | 3,392              | 153                       | 342              | 1,388                                |
| Connecticut.....                        | 19             | 14                                 | 1,494          | 9,273             | 1,253              | 2,682             | 7,138           | 12,820                               | 8,577             | 21,311             | 736                       | 1,272            | 6,928                                |
| Middle Atlantic.....                    | 199            | 136                                | 14,865         | 84,442            | 12,839             | 25,149            | 68,302          | 140,003                              | 101,455           | 241,659            | 8,631                     | 17,965           | 117,001                              |
| New York.....                           | 50             | 32                                 | 3,098          | 17,224            | 2,717              | 5,543             | 14,217          | 26,183                               | 15,126            | 41,118             | 1,610                     | 3,897            | 22,627                               |
| New Jersey.....                         | 36             | 26                                 | 4,075          | 23,755            | 3,386              | 6,669             | 18,769          | 41,446                               | 31,826            | 73,941             | 3,946                     | 5,130            | 40,665                               |
| Pennsylvania.....                       | 113            | 78                                 | 7,692          | 43,463            | 6,736              | 12,937            | 35,316          | 72,374                               | 54,503            | 126,600            | 3,075                     | 8,938            | 53,709                               |
| East North Central..                    | 402            | 309                                | 62,302         | 417,638           | 53,285             | 111,346           | 339,907         | 657,657                              | 422,633           | 1,076,676          | 37,305                    | 54,498           | 401,099                              |
| Ohio.....                               | 115            | 87                                 | 16,845         | 115,033           | 14,321             | 29,952            | 92,945          | 194,138                              | 134,348           | 327,133            | 9,045                     | 16,201           | 134,681                              |
| Indiana.....                            | 64             | 46                                 | 7,624          | 48,414            | 6,584              | 13,905            | 39,495          | 72,827                               | 39,959            | 112,283            | 5,297                     | 6,636            | 45,529                               |
| Illinois.....                           | 75             | 58                                 | 6,918          | 39,140            | 5,966              | 11,074            | 31,118          | 61,888                               | 48,219            | 109,462            | 3,011                     | 6,350            | 39,732                               |
| Michigan.....                           | 92             | 78                                 | 22,564         | 164,437           | 19,811             | 43,138            | 138,846         | 260,683                              | 163,371           | 424,900            | 16,079                    | 19,391           | 145,475                              |
| Wisconsin.....                          | 56             | 40                                 | 8,351          | 50,614            | 6,603              | 13,277            | 37,503          | 68,121                               | 36,736            | 102,898            | 3,873                     | 5,920            | 35,682                               |
| West North Central..                    | 101            | 57                                 | 5,588          | 29,703            | 4,914              | 9,466             | 24,726          | 45,928                               | 29,687            | 74,740             | 2,396                     | 5,283            | 34,980                               |
| Minnesota.....                          | 27             | 13                                 | 799            | 4,624             | 722                | 1,429             | 4,028           | 8,278                                | 4,985             | 13,266             | 275                       | 915              | 7,177                                |
| Iowa.....                               | 26             | 17                                 | 1,672          | 8,523             | 1,437              | 2,689             | 6,906           | 13,657                               | 10,304            | 23,526             | 1,186                     | 1,189            | 6,757                                |
| Missouri.....                           | 26             | 16                                 | 2,279          | 12,619            | 2,023              | 3,855             | 10,709          | 17,652                               | 11,099            | 28,360             | 717                       | 2,370            | 14,605                               |
| South Atlantic.....                     | 93             | 50                                 | 7,197          | 36,289            | 6,366              | 13,369            | 30,051          | 65,382                               | 44,816            | 109,833            | 4,616                     | 6,426            | 45,181                               |
| Maryland.....                           | 8              | 7                                  | 756            | 3,858             | 657                | 1,423             | 3,021           | 5,323                                | 3,983             | 9,346              | 1,369                     | 771              | 5,162                                |
| Virginia.....                           | 25             | 16                                 | 3,232          | 18,224            | 2,784              | 6,317             | 15,030          | 32,233                               | 25,265            | 57,261             | 2,072                     | 2,863            | 18,764                               |
| North Carolina....                      | 22             | 9                                  | 1,236          | 5,540             | 1,148              | 2,236             | 4,766           | 10,210                               | 7,750             | 18,013             | 329                       | 1,315            | 7,293                                |
| Georgia.....                            | 13             | 6                                  | 485            | 2,015             | 424                | 846               | 1,630           | 2,384                                | 1,367             | 3,751              | 114                       | 512              | 1,826                                |
| Florida.....                            | 12             | 3                                  | 396            | 1,619             | 352                | 665               | 1,236           | 2,526                                | 1,451             | 3,868              | 54                        | 352              | 1,983                                |
| East South Central..                    | 78             | 63                                 | 14,458         | 75,922            | 12,763             | 25,513            | 62,705          | 110,411                              | 124,290           | 243,157            | 5,048                     | 13,034           | 99,273                               |
| Mississippi.....                        | 4              | 2                                  | 144            | 620               | 118                | 234               | 519             | 1,035                                | 870               | 1,914              | 33                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West South Central..                    | 59             | 31                                 | 4,969          | 21,910            | 4,409              | 8,708             | 17,955          | 37,999                               | 26,944            | 64,704             | 2,368                     | 4,170            | 28,754                               |
| Louisiana.....                          | 6              | 2                                  | 106            | 338               | 90                 | 163               | 264             | 899                                  | 228               | 1,133              | 7                         | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Texas.....                              | 35             | 18                                 | 4,142          | 18,416            | 3,678              | 7,281             | 15,170          | 32,508                               | 24,134            | 56,483             | 2,031                     | 3,625            | 25,687                               |
| Mountain.....                           | 17             | 11                                 | 1,148          | 6,653             | 987                | 1,899             | 5,121           | 15,093                               | 10,758            | 26,008             | 867                       | 1,251            | 13,877                               |
| Colorado.....                           | 8              | 5                                  | 435            | 2,274             | 390                | 787               | 1,909           | 4,435                                | 4,042             | 8,355              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pacific.....                            | 100            | 52                                 | 5,096          | 30,400            | 4,321              | 8,957             | 24,727          | 54,153                               | 31,163            | 85,013             | 1,571                     | 5,303            | 42,356                               |
| Oregon.....                             | 13             | 5                                  | 451            | 2,638             | 389                | 741               | 2,164           | 3,933                                | 1,900             | 5,830              | 456                       | 483              | 4,119                                |
| California.....                         | 71             | 43                                 | 4,253          | 25,490            | 3,730              | 7,524             | 20,623          | 46,406                               | 27,959            | 74,141             | 1,331                     | 4,479            | 35,423                               |
| INDUSTRY 3322.—MALLEABLE IRON FOUNDRIES |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                              | 81             | 71                                 | 22,297         | 141,967           | 18,832             | 38,789            | 112,670         | 204,557                              | 111,831           | 317,528            | 16,283                    | 20,230           | 127,592                              |
| New England.....                        | 6              | 6                                  | 824            | 4,153             | 698                | 1,284             | 3,163           | 6,192                                | 3,102             | 9,228              | 320                       | 881              | 5,056                                |
| Connecticut.....                        | 3              | 3                                  | 462            | 2,320             | 379                | 685               | 1,698           | 3,533                                | 1,943             | 5,450              | (D)                       | 482              | 2,834                                |
| Middle Atlantic.....                    | 21             | 18                                 | 3,750          | 20,281            | 3,230              | 6,090             | 16,383          | 28,573                               | 14,383            | 42,493             | 1,800                     | 3,133            | 19,363                               |
| Pennsylvania.....                       | 13             | 11                                 | 2,454          | 13,125            | 2,106              | 3,982             | 10,534          | 18,845                               | 9,618             | 28,340             | 1,609                     | 1,958            | 12,637                               |
| East North Central..                    | 40             | 38                                 | 16,361         | 109,886           | 13,776             | 29,168            | 87,431          | 158,841                              | 89,372            | 249,884            | 13,601                    | 14,772           | 94,392                               |
| Ohio.....                               | 13             | 11                                 | 3,708          | 24,070            | 3,215              | 6,719             | 20,331          | 51,553                               | 16,346            | 49,416             | 1,346                     | 3,194            | 19,835                               |
| Indiana.....                            | 3              | 3                                  | 886            | 4,234             | 759                | 1,423             | 3,448           | 5,818                                | 3,004             | 9,001              | 170                       | 1,393            | 5,907                                |
| Illinois.....                           | 9              | 9                                  | 4,289          | 30,590            | 3,638              | 7,836             | 24,451          | 41,560                               | 27,818            | 69,599             | 4,880                     | 4,663            | 31,300                               |
| Michigan.....                           | 6              | 6                                  | 5,438          | 38,771            | 4,405              | 9,611             | 29,245          | 62,428                               | 34,692            | 96,964             | 6,465                     | 4,110            | 28,005                               |
| Wisconsin.....                          | 9              | 9                                  | 2,040          | 12,221            | 1,759              | 3,579             | 9,956           | 17,482                               | 7,512             | 24,904             | 740                       | 1,412            | 9,345                                |
| West North Central..                    | 4              | 4                                  | 468            | 2,572             | 376                | 754               | 1,909           | 3,873                                | 1,457             | 5,371              | 212                       | 427              | 2,490                                |
| South and West.....                     | 10             | 5                                  | 894            | 5,075             | 752                | 1,493             | 3,784           | 7,078                                | 3,517             | 10,552             | 350                       | 1,017            | 6,291                                |
| INDUSTRY 3323.—STEEL FOUNDRIES          |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                              | 267            | 220                                | 56,810         | 361,378           | 47,628             | 95,106            | 280,433         | 586,914                              | 288,795           | 871,048            | 27,832                    | 49,133           | 383,870                              |
| New England.....                        | 11             | 9                                  | 1,096          | 6,145             | 846                | 1,841             | 4,287           | 10,133                               | 4,292             | 14,554             | 306                       | 1,452            | 10,417                               |
| Connecticut.....                        | 6              | 5                                  | 501            | 2,802             | 416                | 896               | 2,190           | 4,701                                | 2,154             | 6,874              | (D)                       | 344              | 2,755                                |
| Middle Atlantic.....                    | 56             | 48                                 | 15,751         | 103,891           | 13,149             | 26,031            | 81,265          | 156,388                              | 85,942            | 241,840            | 4,142                     | 14,238           | 112,007                              |
| Pennsylvania.....                       | 38             | 33                                 | 11,817         | 78,189            | 9,909              | 19,446            | 61,312          | 109,930                              | 66,079            | 175,386            | 3,087                     | 10,854           | 83,025                               |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>             | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3323.—STEEL FOUNDRIES—Continued |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| East North Central..                     | 98             | 77                                 | 26,241         | 173,358           | 21,950             | 44,077            | 132,931         | 293,408                              | 132,386           | 421,910            | 19,240                    | 20,985           | 170,002                              |
| Ohio.....                                | 30             | 27                                 | 8,597          | 55,702            | 7,208              | 14,667            | 42,591          | 99,289                               | 45,861            | 142,948            | 10,044                    | 6,242            | 48,509                               |
| Indiana.....                             | 6              | 5                                  | 4,118          | 27,633            | 3,715              | 7,677             | 23,909          | 40,341                               | 19,831            | 60,339             | 1,354                     | 3,574            | 36,783                               |
| Illinois.....                            | 23             | 18                                 | 7,026          | 46,689            | 5,745              | 10,875            | 33,514          | 85,224                               | 33,323            | 117,352            | 4,123                     | 5,344            | 39,207                               |
| Michigan.....                            | 22             | 13                                 | 2,382          | 15,770            | 1,912              | 3,895             | 11,986          | 26,641                               | 14,611            | 40,891             | 1,444                     | 2,222            | 14,946                               |
| Wisconsin.....                           | 17             | 14                                 | 4,118          | 27,564            | 3,370              | 6,963             | 20,931          | 41,913                               | 18,760            | 60,380             | 2,275                     | 3,603            | 30,557                               |
| West North Central..                     | 16             | 15                                 | 3,823          | 22,997            | 3,267              | 6,667             | 18,603          | 38,828                               | 19,491            | 57,865             | 1,064                     | 3,450            | 26,001                               |
| East South Central..                     | 6              | 6                                  | 1,007          | 4,791             | 884                | 1,649             | 3,844           | 8,034                                | 4,449             | 12,409             | 373                       | 866              | 5,065                                |
| All other divisions.                     | 80             | 65                                 | 8,892          | 50,196            | 7,532              | 14,841            | 39,503          | 80,123                               | 42,235            | 122,470            | 2,707                     | 8,142            | 60,377                               |
| Louisiana.....                           | 3              | 3                                  | 771            | 4,340             | 648                | 1,392             | 3,531           | 6,924                                | 3,106             | 10,014             | 349                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Washington.....                          | 11             | 9                                  | 612            | 4,079             | 513                | 994               | 3,124           | 5,951                                | 3,368             | 9,273              | 299                       | 488              | 3,749                                |
| Oregon.....                              | 6              | 6                                  | 1,184          | 7,558             | 987                | 1,974             | 6,299           | 12,353                               | 7,370             | 19,763             | 304                       | 1,058            | 9,463                                |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.  
 SIC 3321, Gray Iron Foundries: New England—Maine, 4 (20-99); New Hampshire, 5 (100-249); Vermont, 5 (100-249); West North Central—North Dakota, 1 (1-19); South Dakota, 1 (1-19); Nebraska, 3 (100-249); Kansas, 17 (500-999); South Atlantic—West Virginia, 10 (500-999); South Carolina, 3 (500-999); East South Central—Kentucky, 7 (250-499); Tennessee, 24 (2,500-4,999); Alabama, 43 (10,000 and over); West South Central—Arkansas, 6 (100-249); Oklahoma, 12 (500-999); Mountain—Montana, 1 (20-99); Idaho, 2 (20-99); Arizona, 2 (100-249); Utah, 4 (500-999); Pacific—Washington, 15 (250-499); Hawaii, 1 (1-19).  
 SIC 3322, Malleable Iron Foundries: New England—New Hampshire, 1 (100-249); Massachusetts, 1 (100-249); Rhode Island, 1 (100-249); Middle Atlantic—New York, 7 (1,000-2,499); New Jersey, 1 (20-99); West North Central—Minnesota, 1 (100-249); Iowa, 2 (100-249); Missouri, 1 (100-249); South Atlantic—Virginia, 1 (1-19); West Virginia, 1 (100-249); North Carolina, 1 (20-99); Georgia, 1 (1-19); West South Central—Texas, 2 (500-999); Mountain—Colorado, 1 (1-19); Utah, 1 (1-19); Pacific—California, 2 (100-249).  
 SIC 3323, Steel Foundries: New England—Maine, 1 (1-19); New Hampshire, 1 (250-499); Vermont, 3 (250-499); Middle Atlantic—New York, 11 (2,500-4,999); New Jersey, 7 (500-999); West North Central—Minnesota, 1 (100-249); Iowa, 2 (500-999); Missouri, 10 (1,000-2,499); Nebraska, 1 (20-99); Kansas, 2 (500-999); South Atlantic—Delaware, 2 (250-499); West Virginia, 1 (20-99); Georgia, 4 (100-249); Florida, 3 (224); East South Central—Kentucky, 1 (20-99); Tennessee, 1 (250-499); Alabama, 4 (250-499); West South Central—Arkansas, 1 (100-249); Oklahoma, 2 (250-499); Texas, 7 (1,000-2,499); Mountain—Colorado, 2 (250-499); Arizona, 1 (250-499); Utah, 1 (1-19); Pacific—California, 36 (2,500-4,999).

<sup>2</sup>This state was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges for such States.) In the 1954 and 1947 reports, the footnote to table 2 usually provided similar information.



TABLE 3. Detailed Statistics: 1963

| Item   | Gray iron foundries<br>(SIC 3321) | Malleable iron<br>foundries<br>(SIC 3322) | Steel foundries<br>(SIC 3323) |
|--|-----------------------------------|---|-------------------------------|
| Primary product specialization ratio <sup>1</sup> .....        | .93                               | .87                                       | .85                           |
| Coverage ratio <sup>2</sup> .....                              | .88                               | .87                                       | .89                           |
| Establishments, total.....number..                             | 1,139                             | 81  | 267                           |
| With 1 to 19 employees.....do....                              | 372                               | 10  | 47                            |
| With 20 to 99 employees.....do....                             | 498                               | 13  | 81                            |
| With 100 employees or more.....do....                          | 269                               | 58  | 139                           |
| Proprietors and working partners.....do....                    | 396                               | 11  | 33                            |
| All employees (average for the year).....do....                | 120,528                           | 22,297                                    | 56,810                        |
| Payroll (all employees), total for year.....\$1,000..          | 730,279                           | 141,967                                   | 361,378                       |
| <b>Production workers:</b>                                     |                                   |   |                               |
| Average for the year.....number..                              | 104,239                           | 18,832                                    | 47,628                        |
| March.....do....   | 104,060                           | 19,150                                    | 45,679                        |
| May.....do....   | 105,110                           | 18,975                                    | 47,429                        |
| August.....do....  | 100,964                           | 18,674                                    | 48,691                        |
| November.....do....  | 106,824                           | 18,527                                    | 48,714                        |
| Man-hours.....1,000..  | 214,285                           | 38,789                                    | 95,106                        |
| January-March.....do....                                       | 52,056                            | 9,824                                     | 22,624                        |
| April-June.....do....  | 55,191                            | 10,045                                    | 24,612                        |
| July-September.....do....                                      | 51,887                            | 9,106                                     | 23,041                        |
| October-December.....do....                                    | 55,151                            | 9,814                                     | 24,829                        |
| Wages.....\$1,000..  | 596,109                           | 112,670                                   | 280,433                       |
| Cost of materials, etc., total.....do....                      | 813,568                           | 111,831                                   | 288,795                       |
| Materials, parts, containers, and supplies consumed.....do.... | 666,606                           | 92,782                                    | 235,267                       |
| Cost of resales.....do....                                     | 40,440                            | 1,519                                     | 7,132                         |
| Fuels consumed.....do....                                      | 56,859                            | 10,818                                    | 14,958                        |
| <b>Electric energy:</b>  |                                   |   |                               |
| Purchased:   |                                   |   |                               |
| Quantity.....million kw.-hrs..                                 | 1,737                             | 500                                       | 1,789                         |
| Cost.....\$1,000..   | 21,319                            | 5,620                                     | 21,585                        |
| Generated less sold.....million kw.-hrs..                      | 23                                | (D)                                       | (D)                           |
| Contract work.....\$1,000..                                    | 28,344                            | 1,092                                     | 9,853                         |
| Value of shipments (including resales), total.....do....       | 1,984,944                         | 317,528                                   | 871,048                       |
| Value of resales.....do....                                    | 43,925                            | 1,721                                     | 9,386                         |
| Value added by manufacture, adjusted.....do....                | 1,168,478                         | 204,557                                   | 586,914                       |
| <b>Manufacturers' inventories:</b>                             |                                   |   |                               |
| Beginning of year, total.....do....                            | 198,475                           | 25,402                                    | 98,704                        |
| Finished products.....do....                                   | 76,161                            | 7,105                                     | 18,105                        |
| Work-in-process.....do....                                     | 35,633                            | 8,010                                     | 42,271                        |
| Materials, supplies, fuel, etc.....do....                      | 86,681                            | 10,287                                    | 38,328                        |
| End of year, total.....do....                                  | 192,498                           | 23,954                                    | 101,533                       |
| Finished products.....do....                                   | 81,499                            | 5,818                                     | 18,926                        |
| Work-in-process.....do....                                     | 27,397                            | 8,157                                     | 46,111                        |
| Materials, supplies, fuel, etc.....do....                      | 83,602                            | 9,979                                     | 36,496                        |
| Expenditures for plant and equipment, total.....do....         | 67,906                            | 17,145                                    | 30,100                        |
| New, total.....do....  | 64,823                            | 16,283                                    | 27,832                        |
| New structures and additions to plant.....do....               | 10,202                            | 1,742                                     | 4,183                         |
| New machinery and equipment.....do....                         | 54,621                            | 14,541                                    | 23,649                        |
| Used plant and equipment.....do....                            | 3,083                             | 862                                       | 2,268                         |
| <b>Selected operating ratios:</b>                              |                                   |   |                               |
| Payroll/Total employment.....                                  | 6,060                             | 6,358                                     | 6,361                         |
| Production workers/Total employment.....                       | .86                               | .84                                       | .84                           |
| Man-hours/Production workers.....                              | 2,056                             | 2,059                                     | 1,997                         |
| Production worker wages/Man-hours.....                         | 2.78                              | 2.90                                      | 2.95                          |
| Cost of materials and payrolls/Total value of shipments.....   | .78                               | .80                                       | .75                           |
| Cost of materials/Total value of shipments.....                | .41                               | .36                                       | .33                           |
| Adjusted value added/Total employment.....                     | 9,646                             | 9,164                                     | 10,331                        |
| Salaries and wages/Adjusted value added.....                   | .63                               | .69                                       | .62                           |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item                                    | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3321.—GRAY IRON FOUNDRIES      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..             | 1,139                 | 143                                | 91               | 138                | 279                | 219                | 176                  | 56                   | 23                   | 11                       | 3                        |
| All employees:                          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                        | 120,528               | 257                                | 625              | 1,957              | 9,229              | 15,297             | 26,798               | 19,754               | 15,727               | <u>30,884</u>            | (D)                      |
| Payroll.....\$1,000..                   | 730,279               | 2,556                              | 2,587            | 8,287              | 44,648             | 79,464             | 151,279              | 120,399              | 96,989               | <u>224,070</u>           | (D)                      |
| Value added, adjusted.....do....        | 1,168,478             | 3,573                              | 4,006            | 13,032             | 70,373             | 122,833            | 237,505              | 215,350              | 152,158              | <u>349,658</u>           | (D)                      |
| Value of shipments.....do....           | 1,984,944             | 5,162                              | 6,526            | 19,218             | 108,460            | 191,521            | 398,286              | 388,124              | 296,432              | <u>571,215</u>           | (D)                      |
| Capital expenditures, new...do....      | 64,823                | 89                                 | 185              | 535                | 2,240              | 5,326              | 13,321               | 11,298               | 9,381                | <u>22,448</u>            | (D)                      |
| INDUSTRY 3322.—MALLEABLE IRON FOUNDRIES |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..             | 81                    | 2                                  | 4                | 4                  | 4                  | 9                  | 30                   | 17                   | 8                    | 2                        | 1                        |
| All employees:                          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                        | 22,297                | <u>32</u>                          | (D)              | 52                 | 127                | 658                | 4,897                | 5,611                | <u>10,920</u>        | (D)                      | (D)                      |
| Payroll.....\$1,000..                   | 141,967               | <u>131</u>                         | (D)              | 195                | 627                | 3,601              | 26,635               | 31,706               | <u>79,072</u>        | (D)                      | (D)                      |
| Value added, adjusted.....do....        | 204,557               | <u>200</u>                         | (D)              | 321                | 951                | 5,390              | 35,764               | 43,030               | <u>118,901</u>       | (D)                      | (D)                      |
| Value of shipments.....do....           | 317,528               | <u>278</u>                         | (D)              | 408                | 1,378              | 7,870              | 54,630               | 65,106               | <u>187,858</u>       | (D)                      | (D)                      |
| Capital expenditures, new...do....      | 16,283                | <u>4</u>                           | (D)              | 9                  | 83                 | 237                | 1,168                | 2,387                | <u>12,395</u>        | (D)                      | (D)                      |
| INDUSTRY 3323.—STEEL FOUNDRIES          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..             | 267                   | 20                                 | 10               | 17                 | 42                 | 39                 | 68                   | 40                   | 24                   | 7                        | -                        |
| All employees:                          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                        | 56,810                | <u>112</u>                         | (D)              | 247                | 1,394              | 2,754              | 11,427               | 13,601               | 16,903               | 10,372                   | -                        |
| Payroll.....\$1,000..                   | 361,378               | <u>1,736</u>                       | (D)              | 1,405              | 7,424              | 16,337             | 67,320               | 85,387               | 110,250              | 71,519                   | -                        |
| Value added, adjusted.....do....        | 586,914               | <u>6,292</u>                       | (D)              | 2,499              | 11,521             | 31,674             | 113,328              | 138,464              | 183,487              | 99,649                   | -                        |
| Value of shipments.....do....           | 871,048               | <u>6,846</u>                       | (D)              | 4,162              | 17,526             | 45,618             | 171,004              | 205,820              | 270,084              | 149,988                  | -                        |
| Capital expenditures, new...do....      | 27,832                | <u>35</u>                          | (D)              | 147                | 456                | 989                | 4,549                | 5,384                | 8,711                | 7,561                    | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year            | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                |
|-----------|-------------------------------------|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|----------------|
|           |                                     | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio |
|           |                                     | (Col. B)           | (Col. C)         | (Col. D)           | (Col. E)               | (Col. F)                             | (Col. G)                           | (Col. H)              | (Col. I)                 | (Col. J)       |
|           |                                     | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | (percent)                            | (\$1,000)                          | (\$1,000)             | (\$1,000)                | (percent)      |
|           |                                     | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I              |
| 3321      | Gray iron foundries.....1963..      | 1,984,944          | 1,794,274        | 134,208            | 56,462                 | 93                                   | 2,046,305                          | 1,794,274             | 252,031                  | 88             |
|           | .....1958..                         | 1,434,701          | 1,334,531        | 68,261             | 31,909                 | 95                                   | 1,527,888                          | 1,334,531             | 193,357                  | 87             |
| 3322      | Malleable iron foundries.....1963.. | 317,528            | 272,425          | 42,240             | 2,863                  | 87                                   | 313,638                            | 272,425               | 41,213                   | 87             |
|           | .....1958..                         | 214,537            | 183,622          | 29,897             | 1,018                  | 86                                   | 203,310                            | 183,622               | 19,688                   | 90             |
| 3323      | Steel foundries.....1963..          | 871,048            | 725,735          | 128,636            | 16,677                 | 85                                   | 815,070                            | 725,735               | 89,335                   | 89             |
|           | .....1958..                         | 596,276            | 502,846          | 81,851             | 11,579                 | 86                                   | 587,931                            | 502,846               | 85,085                   | 86             |

NOTE: See Introduction for an explanation of terms used.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c)

miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code | Class of products and miscellaneous receipts   | All industries | Gray iron foundries (SIC 3321) | Malleable iron foundries (SIC 3322) | Steel foundries (SIC 3323) | Blast furnaces and steel mills (SIC 3312) | All other industries |
|------------------|--|----------------|--------------------------------|-------------------------------------|----------------------------|---|----------------------|
|                  | Total shipments and receipts of the industry.....  | (X)            | 1,984,944                      | 317,528                             | 871,048                    | (X)                                       | (X)                  |
| 3321-            | Gray iron castings.....  | 2,046,305      | 1,794,274                      | 21,264                              | (D)                        | 91,519                                    | 139,248              |
| 33211            | Molds for heavy steel ingots.....  | 187,756        | 101,097                        | -                                   | (D)                        | (D)                                       | <sup>1</sup> 86,659  |
| 33212            | Cast iron pressure pipe.....   | 230,651        | (D)                            | -                                   | -                          | (D)                                       | (D)                  |
| 33213            | Cast iron soil pipe and fittings.....  | 152,078        | (D)                            | -                                   | -                          | -   | (D)                  |
| 33214            | All other gray iron castings.....  | 1,432,789      | 1,278,799                      | 21,264                              | 19,759                     | 5,471                                     | <sup>2</sup> 107,496 |
| 33210            | Gray iron castings, n.s.k.....   | 43,031         | 41,792                         | -                                   | (D)                        | -   | 1,239                |
| 33220            | Malleable iron castings.....   | 313,638        | 21,859                         | 272,425                             | (D)                        | -   | <sup>3</sup> 19,354  |
| 33230            | Steel castings.....  | 815,070        | 14,587                         | 2,764                               | 725,735                    | 22,473                                    | <sup>4</sup> 49,511  |
|                  | Other products.....  | (X)            | <sup>5</sup> 97,762            | <sup>6</sup> 18,212                 | <sup>7</sup> 108,877       | (X)                                       | (X)                  |
| 33610            | Aluminum and aluminum-base alloy castings.....   | (X)            | 17,369                         | 2,485                               | 2,959                      | (X)                                       | (X)                  |
| 33620            | Copper and copper-base alloy castings.....   | (X)            | 10,487                         | 1,785                               | 3,089                      | (X)                                       | (X)                  |
| 33690            | Nonferrous castings, n.e.c.....  | (X)            | 3,013                          | (D)                                 | (D)                        | (X)                                       | (X)                  |
| 34411            | Fabricated structural iron and steel for buildings.....  | (X)            | 3,545                          | -                                   | -                          | (X)                                       | (X)                  |
| 34941            | Metal valves for piping systems (except plumbing and heating valves).....                                      | (X)            | 1,605                          | -                                   | (D)                        | (X)                                       | (X)                  |
| 35441            | Special dies and tools, die sets, jigs and fixtures.....   | (X)            | 4,143                          | 423                                 | 2,662                      | (X)                                       | (X)                  |
| 35650            | Industrial patterns, except shoe (of wood, metal, etc.)..  | (X)            | 9,849                          | 3,264                               | 5,815                      | (X)                                       | (X)                  |
| 35661            | Plain bearings.....  | (X)            | 1,478                          | -                                   | (D)                        | (X)                                       | (X)                  |
| 35990            | Carburetors, pistons, and other machine shop products..  | (X)            | 1,870                          | -                                   | 4,505                      | (X)                                       | (X)                  |
| 37423            | Street cars and parts and accessories for railroad and street cars; rebuilt passenger and freight train cars.. | (X)            | -                              | (D)                                 | 18,706                     | (X)                                       | (X)                  |
|                  | All other secondary products.....  | (X)            | 44,403                         | 10,255                              | 71,141                     | (X)                                       | (X)                  |
|                  | Miscellaneous receipts.....  | (X)            | 56,462                         | 2,863                               | 16,677                     | (X)                                       | (X)                  |
|                  | Contract work.....   | (X)            | 5,358                          | 56                                  | 2,944                      | (X)                                       | (X)                  |
|                  | Sale of products bought and resold without further manufacture.....  | (X)            | 43,925                         | 1,721                               | 9,386                      | (X)                                       | (X)                  |
|                  | All other receipts.....  | (X)            | 7,179                          | 1,086                               | 4,347                      | (X)                                       | (X)                  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Includes shipments which totaled \$2 million or more for industry 3312, Blast Furnaces and Steel Mills; and 3323, Steel Foundries, but are withheld to avoid disclosing individual company figures.

<sup>2</sup>Includes \$3 million shipped by industry 3433, Heating Equipment, Except Electric; \$2 million by industry 3494, Valves and Pipe Fittings; \$2 million by industry 3519, Internal Combustion Engines; \$21 million by industry 3522, Farm Machinery and Equipment; \$5 million by industry 3541, Metal-cutting Machine Tools; \$4 million by industry 3552, Textile Machinery; \$4 million by industry 3554, Paper Industries Machinery; \$3 million by industry 3559, Special Industry Machinery, N.E.C.; \$2 million by industry 3561, Pumps, and Compressors; \$9 million by industry 3599, Miscellaneous Machinery; and \$18 million by industry 3717, Motor Vehicles and Parts. In addition the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: Industry 3548, Metalworking Machinery, N.E.C. and industry 3553, Woodworking Machinery.

<sup>3</sup>Includes \$2 million shipped by industry 3494, Valves and Pipe Fittings. In addition the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: Industry 3323, Steel Foundries; and industry 3559, Special Industry Machinery, N.E.C.

<sup>4</sup>Includes \$6 million shipped by industry 3361, Aluminum Castings; \$6 million by industry 3362, Brass, Bronze, Copper Castings; \$7 million shipped by industry 3531, Construction Machinery; and \$2 million by industry 3561, Pumps and Compressors. In addition the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: Industry 2499, Wood Products, N.E.C.; industry 3391, Iron and Steel Forgings; industry 3548, Metalworking Machinery, N.E.C.; and industry 3566, Power Transmission Equipment.

<sup>5</sup>Includes the following product classes which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: 33176, Steel pipe and tube; 34431, Heat exchangers and steam condensers; 34990, Fabricated metal products, n.e.c.; 35197, Parts and accessories for internal combustion engines; 35222, Wheel tractors and parts and attachments; and 35313, Parts and attachments for tracklaying and contractors' off-highway wheel tractors.

<sup>6</sup>Includes the following product class which totaled \$2 million or more but is withheld to avoid disclosing individual company figures: 34231, Mechanics' hand service tools.

<sup>7</sup>Includes the following product classes which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: 19310, Tanks and tank components; 33211, Molds and stools for heavy steel ingots; 33220, Malleable iron castings; 33560, Nonferrous rolling and drawing, n.e.c.; 33919, Open die press; and hammer forgings; 34432, Fabricated steel plate; 34990, Fabricated metal products, n.e.c.; 35481, Rolling mill machinery and equipment; 37413, Parts for locomotives and rebuilt locomotives; and 37422, Freight train cars, new.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Total shipments, including interplant transfers |                 | Shipments to other companies |                      | Transfers to other plants of the same company |                  |
|--------------|---|---|-----------------|------------------------------|----------------------|---|------------------|
|              |   | Quantity (short tons)                           | Value (\$1,000) | Quantity (short tons)        | Value (\$1,000)      | Quantity (short tons)                         | Value (\$1,000)  |
| 1963         |   |   |                 |                              |                      |   |                  |
| 3321- --     | GRAY IRON CASTINGS, TOTAL <sup>1</sup> .....                  | (X)   | 2,046,305       | (X)                          | (NA)                 | (X)   | (NA)             |
| 33211 11     | Molds and stools for heavy steel ingots.....                  | 2,128,171                                       | 187,756         | 1,333,167                    | 115,425              | 795,004                                       | 72,331           |
| 33212 --     | Cast iron pressure pipe and fittings.....                     | 1,750,641                                       | 230,651         | <sup>2</sup> 1,750,627       | <sup>2</sup> 230,651 | ( <sup>2</sup> )                              | ( <sup>2</sup> ) |
| 33212 21     | 6" and under (inside diameter).....                           | 594,446   | 80,324          | <sup>2</sup> 594,446         | <sup>2</sup> 80,324  | ( <sup>2</sup> )                              | ( <sup>2</sup> ) |
| 33212 23     | Over 6" up to and including 8" (inside diameter).....         | 408,894   | 54,843          | <sup>2</sup> 408,894         | <sup>2</sup> 54,843  | ( <sup>2</sup> )                              | ( <sup>2</sup> ) |
| 33212 25     | Over 8" up to but not including 14" (inside diameter).....    | 449,368   | 56,188          | <sup>2</sup> 449,368         | <sup>2</sup> 56,188  | ( <sup>2</sup> )                              | ( <sup>2</sup> ) |
| 33212 31     | 14"-24" inclusive (inside diameter).....                      | 297,933   | 39,296          | <sup>2</sup> 297,933         | <sup>2</sup> 39,296  | ( <sup>2</sup> )                              | ( <sup>2</sup> ) |
| 33212 51     | Over 24" (inside diameter).....                               |   |                 |                              |                      |   |                  |
| 33213 --     | Cast iron soil pipe and fittings.....                         | 953,138   | 152,078         | <sup>2</sup> 953,138         | <sup>2</sup> 152,078 | ( <sup>2</sup> )                              | ( <sup>2</sup> ) |
|              | Cast iron soil pipe and fittings, including special fittings: |   |                 |                              |                      |   |                  |
| 33213 21     | Up to 3" (inside diameter).....                               | 234,339   | 42,294          | <sup>2</sup> 234,339         | <sup>2</sup> 42,294  | ( <sup>2</sup> )                              | ( <sup>2</sup> ) |
| 33213 31     | Over 3" up to but not including 5" (inside diameter).....     | 564,351   | 84,010          | <sup>2</sup> 564,351         | <sup>2</sup> 84,010  | ( <sup>2</sup> )                              | ( <sup>2</sup> ) |
| 33213 41     | 5" and over (inside diameter).....                            | 154,448   | 25,774          | <sup>2</sup> 154,448         | <sup>2</sup> 25,774  | ( <sup>2</sup> )                              | ( <sup>2</sup> ) |
| 33214 --     | All other gray iron castings.....                             | 5,053,031                                       | 1,432,789       | 3,314,348                    | 981,385              | 1,738,683                                     | 451,404          |
| 33214 31     | Rolls for rolling mills.....                                  | 102,913   | 61,906          | 84,499                       | 52,579               | 18,414  | 9,327            |
| 33214 98     | All other gray iron castings.....                             | 4,950,118                                       | 1,370,883       | 3,229,849                    | 928,806              | 1,720,269                                     | 442,077          |
| 33210 00     | Gray iron castings, n.s.k.....                                | (X)   | 43,031          | (X)                          | 43,031               | -   | -                |
| 3322- --     | MALLEABLE IRON CASTINGS, TOTAL <sup>1</sup> .....             | (X)   | 313,638         | (X)                          | 212,042              | (X)   | 101,596          |
| 33220 21     | Standard.....   | 634,072   | 234,012         | 538,025                      | 210,800              | 340,246                                       | 101,596          |
| 33220 31     | Pearlitic.....  | 244,199   | 78,384          |                              |                      |   |                  |
| 33220 00     | Malleable iron castings, n.s.k.....                           | (NA)  | 1,242           | (NA)                         | 1,242                | -   | -                |
| 3323- --     | STEEL CASTINGS, TOTAL <sup>1</sup> .....                      | (X)   | 815,070         | (X)                          | 755,729              | (X)   | 59,341           |
|              | Carbon steel castings:  |   |                 |                              |                      |   |                  |
| 33230 12     | Cast steel railroad car wheels.....                           | 253,199   | 64,716          | 253,199                      | 64,716               | -   | -                |
| 33230 13     | Railway specialities (except cast railroad car wheels).....   | 188,836   | 76,710          | 181,938                      | 73,609               | 6,898   | 3,101            |
| 33230 15     | Rolls for rolling mills.....                                  | 26,392  | 14,760          | 25,352                       | 14,419               | 1,040   | 341              |
| 33230 19     | Other carbon steel castings.....                              | 478,678   | 286,431         | 428,206                      | 263,157              | 50,572  | 23,274           |
| 33230 21     | High manganese steel castings.....                            | 63,875  | 47,342          | 61,883                       | 46,004               | 1,992   | 1,338            |
| 33230 31     | High alloy steel castings <sup>2</sup> .....                  | 38,539  | 75,695          | 33,811                       | 66,938               | 4,728   | 8,757            |
|              | Alloy steel castings (except high alloy steel castings):      |   |                 |                              |                      |   |                  |
| 33230 51     | Railway specialities.....                                     | 62,168  | 30,585          | 62,168                       | 30,585               | ( <sup>2</sup> )                              | ( <sup>2</sup> ) |
| 33230 55     | Rolls for rolling mills.....                                  | 52,055  | 30,900          | 40,252                       | 24,478               | 11,803  | 6,422            |
| 33230 59     | Other alloy steel castings.....                               | 161,014   | 115,937         | 142,579                      | 99,829               | 18,435  | 16,108           |
| 33230 61     | Investment castings (steel).....                              | 3,621   | 64,100          | 3,621                        | 64,100               | ( <sup>2</sup> )                              | ( <sup>2</sup> ) |
| 33230 00     | Steel castings, n.s.k.....                                    | (X)   | 7,894           | (X)                          | 7,894                | (X)   | (X)              |
| 1958         |   |   |                 |                              |                      |   |                  |
| 3321- --     | GRAY IRON CASTINGS, TOTAL <sup>1</sup> .....                  | (X)   | 1,527,888       | (X)                          | (NA)                 | (X)   | (NA)             |
| 33211 11     | Molds and stools for heavy steel ingots.....                  | 1,509,368                                       | 147,705         | 959,038                      | 97,295               | 550,330                                       | 50,410           |
| 33212 --     | Cast iron pressure pipe and fittings.....                     | 1,327,165                                       | 196,146         | <sup>2</sup> 1,327,165       | <sup>2</sup> 196,146 | ( <sup>2</sup> )                              | ( <sup>2</sup> ) |
| 33212 11     | Under 14" (inside diameter).....                              | 1,105,508                                       | 165,703         | <sup>2</sup> 1,105,508       | <sup>2</sup> 165,703 | ( <sup>2</sup> )                              | ( <sup>2</sup> ) |
| 33212 31     | 14"-24" inclusive (inside diameter).....                      | 192,980   | 26,364          | <sup>2</sup> 192,980         | <sup>2</sup> 26,364  | ( <sup>2</sup> )                              | ( <sup>2</sup> ) |
| 33212 51     | Over 24" (inside diameter).....                               | 28,677  | 4,079           | <sup>2</sup> 28,677          | <sup>2</sup> 4,079   | ( <sup>2</sup> )                              | ( <sup>2</sup> ) |
| 33213 --     | Cast iron soil pipe and fittings.....                         | 757,293   | 119,768         | <sup>2</sup> 757,293         | <sup>2</sup> 119,768 | ( <sup>2</sup> )                              | ( <sup>2</sup> ) |
|              | Cast iron soil pipe and fittings, including special fittings: |   |                 |                              |                      |   |                  |
| 33213 21     | Up to 3" (inside diameter).....                               | 757,293   | 119,768         | <sup>2</sup> 757,293         | <sup>2</sup> 119,768 | ( <sup>2</sup> )                              | ( <sup>2</sup> ) |
| 33213 31     | Over 3" up to but not including 5" (inside diameter).....     |   |                 |                              |                      |   |                  |
| 33213 41     | 5" and over (inside diameter).....                            |   |                 |                              |                      |   |                  |

See footnote at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code   | Product   | Total shipments, including interplant transfers |                    | Shipments to other companies |                    | Transfers to other plants of the same company |                    |
|--|---|---|--------------------|------------------------------|--------------------|---|--------------------|
|  |   | Quantity<br>(short tons)                        | Value<br>(\$1,000) | Quantity<br>(short tons)     | Value<br>(\$1,000) | Quantity<br>(short tons)                      | Value<br>(\$1,000) |
| 1958—Continued   |   |   |                    |                              |                    |   |                    |
| 3321- --   | GRAY IRON CASTINGS--Continued                               |   |                    |                              |                    |   |                    |
| 33214 --   | All other gray iron castings.....                           | 3,887,194                                       | 995,119            | 2,504,642                    | 661,455            | 1,382,552                                     | 333,664            |
| 33214 31   | Rolls for rolling mills.....                                | 67,043  | 38,130             | 67,043                       | 38,130             | (X)   | (X)                |
| 33214 98   | All other gray iron castings.....                           | 3,820,151                                       | 956,989            | 2,437,599                    | 623,325            | 1,382,552                                     | 333,664            |
| 33210 00   | Gray iron castings, n.s.k.....                              | (X)   | 69,150             | (X)                          | 69,150             | (X)   | -                  |
| 3322- --   | MALLEABLE IRON CASTINGS, TOTAL <sup>1</sup> .....           | (X)   | 203,310            | (X)                          | 146,663            | 191,897                                       | 56,647             |
| 33220 21   | Standard.....   | 464,032   | 164,652            | 319,022                      | 120,648            | 145,010                                       | 44,004             |
| 33220 31   | Pearlitic.....  | 117,058   | 36,190             | 70,168                       | 23,547             | 46,887  | 12,643             |
| 33220 00   | Malleable iron castings, n.s.k.....                         | (X)   | 2,468              | (X)                          | 2,468              | -   | -                  |
| 3323- --   | STEEL CASTINGS, TOTAL <sup>1</sup> .....                    | (X)   | 587,931            | (X)                          | 547,151            | 56,900  | 40,780             |
| Carbon steel castings:                                   |   |   |                    |                              |                    |   |                    |
| 33230 12   | Cast steel railroad car wheels.....                         | 206,976   | 66,120             | 203,309                      | 64,491             | 3,667   | 1,629              |
| 33230 13   | Railway specialities (except cast railroad car wheels)..... |   |                    |                              |                    |   |                    |
| 33230 15   | Rolls for rolling mills.....                                |   |                    |                              |                    |   |                    |
| 33230 19   | Other carbon steel castings.....                            | 401,482   | 234,311            | 372,243                      | 216,887            | 29,239  | 17,424             |
| 33230 21   | High manganese steel castings.....                          | 49,127  | 36,079             | 47,018                       | 34,886             | 2,109   | 1,193              |
| 33230 31   | High alloy steel castings <sup>3</sup> .....                | 31,332  | 66,783             | 27,242                       | 59,784             | 4,090   | 6,999              |
| Alloy steel castings (except high alloy steel castings): |   |   |                    |                              |                    |   |                    |
| 33230 51   | Railway specialities.....                                   | 17,956  | 8,653              | 16,983                       | 8,232              | 613   | 421                |
| 33230 55   | Rolls for rolling mills.....                                | 49,853  | 26,833             | 43,872                       | 23,670             | 5,981   | 3,163              |
| 33230 59   | Other alloy steel castings.....                             | 147,555   | 103,666            | 136,738                      | 94,250             | 10,817  | 9,416              |
| 33230 61   | Investment castings (steel).....                            | 2,887   | 30,754             | 2,810                        | 30,373             | 77  | 381                |
| 33230 00   | Steel castings, n.s.k.....                                  | (X)   | 8,829              | (X)                          | 8,829              | (X)   | -                  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

<sup>1</sup>Differs from the figures published in Current Industrial Reports Series M33-1, "Iron and Steel Castings," in that no figures are included above for castings produced by captive foundry departments of plants classified in other industries. As shown in the Current Industrial Reports, captive production ("for own use"), including both interplant transfers and castings produced and consumed by the same plant for 1963, totaled 5,674 thousand tons. Of gray iron castings, 410 thousand tons of malleable iron castings, and 307 thousand tons of steel castings. Of this total only the following tonnages transferred to other plants are included above: gray iron castings, 2497 thousand tons; malleable iron castings, 340 thousand tons; and steel castings, 96 thousand tons. The difference between tonnages shown above for "shipments to other companies" and the "for sale" figures in Series M33-1 are due to differences in classification in the census and monthly survey with regard to such products as machinery parts, etc., and fiscal year reports in the Census.

<sup>2</sup>Figures for transfers to other plants of the same company are included with "shipments to other companies" to avoid disclosing operations of individual companies.

<sup>3</sup>Heat and/or corrosion-resistant steel castings contain 8 percent more of chromium or nickel, or both, with or without molybdenum or other elements.

TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year                                   | Indexes (1954 = 100) |            |
|--------------|--|----------------------|------------|
|              |  | Production           | Unit value |
| 332          | Iron and steel foundry products.....1963..         | (1)                  | (1)        |
|              | 1958..   | (1)                  | (1)        |
| 3321         | Gray iron castings .....1963..                     | (1)                  | (1)        |
|              | 1958..   | (1)                  | (1)        |
| 33211        | Molds and stools for heavy steel ingots.....1963.. | 147                  | 111        |
|              | 1958..   | 114                  | 118        |
| 33212        | Cast iron pressure pipe and fittings.....1963..    | 122                  | 111        |
|              | 1958..   | 93                   | 124        |
| 33213        | Cast iron soil pipe and fittings.....1963..        | 126                  | 112        |
|              | 1958..   | 100                  | 111        |
| 3322         | Malleable iron castings.....1963..                 | 124                  | 123        |
|              | 1958..   | 84                   | 118        |
| 3323         | Steel castings.....1963..                          | 114                  | 134        |
|              | 1958..   | 89                   | 124        |

<sup>1</sup>Not shown, subject to further review of data for product class 33214, All other gray iron castings.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class                         | 1963      | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958      | 1954      | 1947      |
|-------|---------------------------------------|-----------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|-----------|
| 3321- | Gray iron castings.....               | 2,046,308 | 1,893,147         | 1,679,660         | 1,789,012         | 1,904,448         | 1,527,888 | 1,513,457 | 1,238,502 |
| 33211 | Molds for heavy steel ingots.....     | 187,756   | 174,813           | 173,191           | 190,774           | 188,461           | 147,705   | 110,018   | (NA)      |
| 33212 | Cast iron pressure pipe.....          | 230,651   | 204,709           | 202,452           | 202,182           | 213,905           | 196,146   | 170,290   | (NA)      |
| 33213 | Cast iron soil pipe and fittings..... | 152,078   | 150,769           | 135,515           | 127,705           | 138,990           | 119,768   | 108,346   | (NA)      |
| 33214 | All other gray iron castings.....     | 1,432,789 | 1,303,195         | 1,124,890         | 1,225,588         | 1,295,018         | 995,119   | (NA)      | (NA)      |
| 33210 | Gray iron castings, n.s.k.....        | 43,031    | (S)               | (S)               | (S)               | (S)               | 69,150    | (NA)      | (NA)      |
| 33220 | Malleable iron castings.....          | 313,638   | 289,792           | 248,015           | 262,419           | 285,791           | 203,310   | 204,916   | 178,424   |
| 33230 | Steel castings.....                   | 815,070   | 743,283           | 642,641           | 707,425           | 731,335           | 587,931   | 535,054   | 429,718   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.



**TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958**

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area                   | Value of shipments |                  | Product class and geographic area                     | Value of shipments |                  | Product class and geographic area                | Value of shipments |                  |
|---|--------------------|------------------|---|--------------------|------------------|--|--------------------|------------------|
|   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |
| <b>MOLDS FOR HEAVY STEEL INGOTS (33211)</b>         |                    |                  | <b>ALL OTHER GRAY IRON CASTINGS (33214)—Continued</b> |                    |                  | <b>MALLEABLE IRON CASTINGS (33220)—Continued</b> |                    |                  |
| United States, total .....                          | 187,756            | 147,705          | Middle Atlantic.....                                  | 159,163            | 126,736          | East North Central.....                          | 247,552            | 157,822          |
| Northeast and North Central.                        | 175,691            | 136,653          | New York.....   | 45,199             | 34,995           | Ohio.....  | 64,136             | 33,889           |
| Pennsylvania.....                                   | 97,223             | 70,547           | New Jersey.....                                       | 23,745             | 26,057           | Indiana.....                                     | 12,659             | 12,426           |
| Illinois.....                                       | 42,473             | 39,539           | Pennsylvania.....                                     | 90,219             | 65,684           | Illinois.....                                    | 54,178             | 45,397           |
| South and West.....                                 | 12,065             | 11,052           | East North Central.....                               | 961,056            | 646,303          | Michigan.....                                    | 86,503             | 48,238           |
| <b>CAST IRON PRESSURE PIPE AND FITTINGS (33212)</b> |                    |                  | Ohio.....   | 255,890            | 188,929          | Wisconsin.....                                   | 30,076             | 17,872           |
| United States, total .....                          | 230,651            | 196,146          | Indiana.....  | 119,191            | 78,288           | West North Central.....                          | 5,861              | 3,747            |
| Northeast and North Central.                        | 68,251             | 53,320           | Illinois.....   | 88,360             | 67,319           | South.....                                       | 7,121              | ( <sup>2</sup> ) |
| New Jersey.....                                     | 36,240             | ( <sup>2</sup> ) | Michigan.....   | 410,594            | 249,319          | West.....  | 2,661              | 2,495            |
| South and West.....                                 | 162,400            | 142,826          | Wisconsin.....  | 87,021             | 62,448           | California.....                                  | 1,922              | ( <sup>2</sup> ) |
| Alabama.....  | 108,993            | 91,186           | West North Central.....                               | 58,914             | 49,168           | <b>STEEL CASTINGS (33230)</b>                    |                    |                  |
| Texas.....  | 10,631             | 11,703           | Minnesota.....  | 14,237             | 10,975           | United States, total ....                        | 815,070            | 587,931          |
| <b>CAST IRON SOIL PIPE AND FITTINGS (33213)</b>     |                    |                  | Iowa.....   | 15,063             | 10,901           | Northeast.....                                   | 13,028             | 15,239           |
| United States, total .....                          | 152,078            | 119,768          | Missouri.....   | 21,493             | 19,513           | Connecticut.....                                 | 6,679              | 4,745            |
| Northeast.....                                      | 11,783             | 11,828           | Kansas.....   | 6,018              | 5,418            | Middle Atlantic.....                             | 224,022            | 185,270          |
| New Jersey.....                                     | 4,816              | ( <sup>2</sup> ) | South.....  | 149,759            | 97,266           | New York.....                                    | 43,649             | 28,178           |
| North Central.....                                  | 6,585              | 5,976            | Maryland.....   | 5,808              | 5,373            | New Jersey.....                                  | 14,531             | 15,857           |
| South.....  | 107,144            | 85,203           | Virginia.....   | 31,789             | 17,249           | Pennsylvania.....                                | 165,842            | 141,235          |
| Alabama.....  | 56,984             | 50,734           | West Virginia.....                                    | 7,680              | 6,286            | East North Central.....                          | 383,087            | 243,793          |
| West.....   | 26,566             | 16,761           | North Carolina.....                                   | 5,219              | 3,332            | Ohio.....  | 127,034            | 68,506           |
| California.....                                     | 23,460             | 13,433           | Georgia.....  | 2,117              | 1,782            | Indiana.....                                     | 40,780             | 31,075           |
| <b>ALL OTHER GRAY IRON CASTINGS (33214)</b>         |                    |                  | Kentucky.....   | 10,407             | ( <sup>2</sup> ) | Illinois.....                                    | 102,117            | 66,074           |
| United States, total .....                          | 1,432,789          | 995,119          | Tennessee.....  | 33,137             | 20,331           | Michigan.....                                    | 46,785             | 32,163           |
| New England.....                                    | 51,090             | 33,308           | Alabama.....  | 18,923             | 15,506           | Wisconsin.....                                   | 66,371             | 45,975           |
| Vermont.....  | 1,743              | ( <sup>2</sup> ) | Louisiana.....  | 1,143              | ( <sup>2</sup> ) | West North Central.....                          | 53,427             | 34,716           |
| Massachusetts.....                                  | 26,042             | 18,976           | Oklahoma.....   | 2,797              | 2,291            | Missouri.....                                    | 27,692             | 18,345           |
| Rhode Island.....                                   | 3,491              | 2,226            | Texas.....  | 18,302             | 13,744           | South Atlantic.....                              | 15,202             | 11,581           |
| Connecticut.....                                    | 17,516             | 10,639           | Mountain.....   | 7,860              | 7,812            | Georgia.....                                     | 1,702              | 1,285            |
| <b>MALLEABLE IRON CASTINGS (33220)</b>              |                    |                  | Colorado.....   | 4,506              | 4,811            | East South Central.....                          | 14,105             | 10,325           |
| United States, total.....                           | 313,638            | 203,310          | Pacific.....  | 44,947             | 34,526           | West South Central.....                          | 30,814             | 23,594           |
| Northeast.....                                      | 50,443             | 32,722           | Washington.....                                       | 5,327              | 3,805            | Texas.....                                       | 17,466             | 12,752           |
| Connecticut.....                                    | 4,382              | 3,923            | California.....                                       | 36,685             | 28,428           | Mountain.....                                    | 10,937             | 6,942            |
| New York.....                                       | 12,225             | ( <sup>2</sup> ) | <b>MALLEABLE IRON CASTINGS (33220)</b>                |                    |                  | Pacific.....                                     | 70,448             | 56,469           |
| Pennsylvania.....                                   | 27,568             | 15,518           | United States, total.....                             | 313,638            | 203,310          | Washington.....                                  | 8,645              | 5,933            |
|   |                    |                  | Northeast.....  | 50,443             | 32,722           | Oregon.....                                      | 19,622             | 15,559           |
|   |                    |                  | Connecticut.....                                      | 4,382              | 3,923            | California.....                                  | 42,181             | 34,977           |
|   |                    |                  | New York.....   | 12,225             | ( <sup>2</sup> ) |  |                    |                  |
|   |                    |                  | Pennsylvania.....                                     | 27,568             | 15,518           |  |                    |                  |

<sup>1</sup>For the specified product classes shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 33211, New York, Ohio, Michigan, West Virginia, Kentucky, Colorado, Utah, and California; 33212, Massachusetts, Ohio, Illinois, Iowa, Virginia, Tennessee, Utah, and California; 33213, New York, Pennsylvania, Ohio, Michigan, Missouri, Maryland, Virginia, North Carolina, Florida, Tennessee, Texas, and Oregon; 33214, New Hampshire, Nebraska, South Dakota; 33220, New Hampshire, Massachusetts, Rhode Island, Minnesota, Iowa, Missouri, and Texas; 33230, New Hampshire, Minnesota, Iowa, Nebraska, Kansas, Delaware, West Virginia, Florida, Tennessee, Arkansas, Oklahoma, and Arizona.

<sup>2</sup>Shipments of over \$1 million were reported but exact figures are withheld to avoid disclosure of individual company figures.

TABLE 7A. Materials by Kind: 1963 and 1958

| Code                                    | Material  | 1963                     |                                | 1958                     |                                |
|---|---|--------------------------|--------------------------------|--------------------------|--------------------------------|
|   |   | Quantity<br>(short tons) | Delivered<br>cost<br>(\$1,000) | Quantity<br>(short tons) | Delivered<br>cost<br>(\$1,000) |
| INDUSTRY 3321.—GRAY IRON FOUNDRIES      |   |                          |                                |                          |                                |
|   | Materials, containers and supplies, total.....  | (X)                      | 666,606                        | (X)                      | 539,685                        |
| 331051                                  | Pig iron (excluding silvery iron).....  | 2,870,926                | 275,875                        | 3,095,200                | 195,745                        |
|   | Nonferrous metals, alloys and ferroalloys (ingot, pig, shot etc.):  |                          |                                |                          |                                |
| 333404                                  | Aluminum, unalloyed.....  | 5,505                    | 2,352                          | 522                      | 255                            |
| 333405                                  | Aluminum-base alloys.....   | 5,587                    | 2,388                          | 1,943                    | 997                            |
| 333121                                  | Copper, unalloyed (cathodes, ingot, cakes, slabs, etc.).....  | 474                      | 300                            | 649                      | 372                            |
| 334123                                  | Copper-base alloy raw materials (ingot, billets, shot, waffle, hardeners, etc.)...                            | 8,462                    | 4,706                          | 4,270                    | 2,652                          |
| 333348                                  | Zinc and zinc-base alloys.....  | 164                      | 44                             | 135                      | 51                             |
| 333973                                  | Magnesium and magnesium-base alloys.....  | 9,909                    | 4,903                          | 2,836                    | 1,846                          |
| 331312                                  | Ferromanganese.....   | 20,492                   | 3,004                          | 7,256                    | 2,065                          |
| 331309                                  | Other ferroalloys, including silvery iron.....  | 249,230                  | 35,570                         | (NA)                     | 11,750                         |
|   | Scrap (purchased only):   |                          |                                |                          |                                |
| 999811                                  | Iron and steel.....   | 5,116,520                | 170,161                        | 3,307,779                | 127,476                        |
| 999808                                  | Nonferrous metal scrap aluminum and aluminum-base alloy.....  | (D)                      | (D)                            | 350                      | 135                            |
| 999812                                  | Copper and copper-base alloy.....   | 1,220                    | 598                            | 1,547                    | 685                            |
| 970099                                  | All other materials and components, parts containers, and supplies consumed<br>(excluding coal and coke)..... | -                        | 128,129                        | -                        | 166,284                        |
| 976000                                  | Materials, containers and supplies, n.s.k. <sup>1</sup> .....   | -                        | 38,576                         | -                        | 29,372                         |
| INDUSTRY 3322.—MALLEABLE IRON FOUNDRIES |   |                          |                                |                          |                                |
|   | Materials, containers and supplies, total.....  | (X)                      | 92,782                         | (X)                      | 71,371                         |
| 331051                                  | Pig iron (excluding silvery iron).....  | 119,011                  | 7,127                          | 178,977                  | 12,022                         |
|   | Nonferrous metals, alloys and ferroalloys (ingot, pig, shot etc.):  |                          |                                |                          |                                |
| 333404                                  | Aluminum, unalloyed.....  | 1,054                    | 472                            | 88                       | 43                             |
| 333405                                  | Aluminum-base alloys.....   |                          | 797                            | 469                      |                                |
| 333121                                  | Copper, unalloyed (cathodes, ingot, cakes, slabs, etc.).....  | 585                      | 398                            | 597                      | 363                            |
| 334123                                  | Copper-base alloy raw materials (ingot, billets, shot, waffle, hardeners, etc.)...                            |                          | 398                            | 597                      | 363                            |
| 333348                                  | Zinc and zinc-base alloys.....  | 488                      | 120                            | (NA)                     | (NA)                           |
| 331312                                  | Ferromanganese.....   | 5,391                    | 878                            | 2,295                    | 485                            |
| 331309                                  | Other ferroalloys, including silvery iron.....  | 94,689                   | 8,742                          | (NA)                     | 2,505                          |
|   | Scrap (purchased only):   |                          |                                |                          |                                |
| 999811                                  | Iron and steel.....   | 781,002                  | 24,383                         | 445,250                  | 17,638                         |
| 999808                                  | Nonferrous metal scrap aluminum and aluminum-base alloy.....  | (D)                      | (D)                            | (NA)                     | (NA)                           |
| 999812                                  | Copper and copper-base alloy.....   | (D)                      | (D)                            | (NA)                     | (NA)                           |
| 970099                                  | All other materials and components, parts containers, and supplies consumed<br>(excluding coal and coke)..... | (X)                      | 48,220                         | (X)                      | 36,679                         |
| 976000                                  | Materials, containers and supplies, n.s.k. <sup>1</sup> .....   | (X)                      | 2,442                          | (X)                      | 1,167                          |
| INDUSTRY 3323.—STEEL FOUNDRIES          |   |                          |                                |                          |                                |
|   | Materials, containers and supplies, total.....  | (X)                      | 235,267                        | (X)                      | 164,007                        |
| 331051                                  | Pig iron (excluding silvery iron).....  | 129,709                  | 8,593                          | 83,126                   | 5,575                          |
|   | Nonferrous metals, alloys and ferroalloys (ingot, pig, shot etc.):  |                          |                                |                          |                                |
| 333404                                  | Aluminum, unalloyed.....  | 1,291                    | 564                            | 932                      | 411                            |
| 333405                                  | Aluminum-base alloys.....   | 928                      | 425                            | 422                      | 205                            |
| 333121                                  | Copper, unalloyed (cathodes, ingot, cakes, slabs, etc.).....  | 150                      | 97                             | (NA)                     | 30                             |
| 334123                                  | Copper-base alloy raw materials (ingot, billets, shot, waffle, hardeners, etc.)...                            | 1,546                    | 1,033                          | 494                      | 347                            |
| 333973                                  | Magnesium and magnesium-base alloy.....   | (D)                      | (D)                            | (NA)                     | (NA)                           |
| 331312                                  | Ferromanganese.....   | 22,384                   | 4,141                          | 17,857                   | 4,650                          |
| 331309                                  | Other ferroalloys, including silvery iron.....  | 50,482                   | 15,380                         | (NA)                     | 14,616                         |
|   | Scrap (purchased only):   |                          |                                |                          |                                |
| 999811                                  | Iron and steel.....   | 1,204,561                | 38,527                         | 864,120                  | 34,538                         |
| 999808                                  | Nonferrous metal scrap aluminum and aluminum-base alloy.....  | (NA)                     | 764                            | (NA)                     | (NA)                           |
| 999812                                  | Copper and copper-base alloy.....   | 64                       | 35                             | (NA)                     | (NA)                           |
| 970099                                  | All other materials and components, parts containers, and supplies consumed<br>(excluding coal and coke)..... | (X)                      | 155,010                        | (X)                      | 99,037                         |
| 976000                                  | Materials, containers and supplies, n.s.k. <sup>1</sup> .....   | (X)                      | 10,698                         | (X)                      | 4,598                          |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

<sup>1</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Gray iron foundries (SIC 3321) | Malleable iron foundries (SIC 3322) | Steel foundries (SIC 3323) |
|---|--------------------------------|-------------------------------------|----------------------------|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 78,654                         | 19,092                              | 32,899                     |
| Total cost of purchased fuels.....do....  | 57,209                         | 13,826                              | 13,074                     |
| Bituminous coal, lignite, and anthracite:   |                                |                                     |                            |
| Quantity.....1,000 short tons..   | 522                            | 217                                 | 105                        |
| Cost.....\$1,000..  | 3,278                          | 2,395                               | 956                        |
| Coke and breeze:  |                                |                                     |                            |
| Quantity.....1,000 short tons..   | 1,326                          | 188                                 | 17                         |
| Cost.....\$1,000..  | 37,989                         | 6,467                               | 460                        |
| Fuel oil (distillate and residual):   |                                |                                     |                            |
| Quantity.....1,000 barrels of 42 gallons..  | 611                            | 239                                 | 762                        |
| Cost.....\$1,000..  | 2,817                          | 963                                 | 3,021                      |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |                                |                                     |                            |
| Quantity.....million cu. ft..   | 18,131                         | 7,058                               | 14,309                     |
| Cost.....\$1,000..  | 9,651                          | 3,483                               | 7,948                      |
| Other fuels.....do....  | 3,474                          | 518                                 | 689                        |
| Electric energy:  |                                |                                     |                            |
| Purchased:  |                                |                                     |                            |
| Quantity.....million kw.-hrs..  | 1,563                          | 441                                 | 1,589                      |
| Cost.....\$1,000..  | 21,445                         | 5,266                               | 19,825                     |
| Generated less sold.....million kw.-hrs..   | 16                             | 11                                  | 9                          |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 1,019                          | 222                                 | 595                        |
| Prime movers, total.....do....  | 110                            | 30                                  | 36                         |
| Driving generators.....do....   | 30                             | 7                                   | 11                         |
| Not driving generators.....do....   | 80                             | 23                                  | 25                         |
| Electric motors, total.....do....   | 921                            | 196                                 | 567                        |
| Driven by purchased energy.....do....   | 909                            | 191                                 | 559                        |
| Driven by energy generated at establishment.....do....  | 12                             | 5                                   | 7                          |
| Aggregate horsepower per 100 production workers.....  | 991                            | 1,160                               | 1,316                      |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization             | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3321-                          | GRAY IRON FOUNDRIES  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 1,139                   | 120,528        | 730,279           | 104,239            | 214,285           | 596,109         | 1,168,478                                      | 813,568                     | 1,984,944                    | 64,823                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..                                       | 991                     | 98,603         | 594,865           | 86,311             | 176,300           | 490,885         | 968,581  | 683,662                     | 1,656,219                    | 52,079                              |
|                                | 75-89% specialization.....   | 54                      | 7,539          | 43,839            | 5,872              | 11,935            | 32,590          | 66,762   | 38,748                      | 106,329                      | 4,970                               |
| 33211                          | Molds for heavy steel ingots (primary product class of estab.)     | 11                      | 2,776          | 18,789            | 2,348              | 4,447             | 14,983          | 39,014   | 65,454                      | 103,720                      | 2,583                               |
| 33212                          | Cast iron pressure pipe (primary product class of estab.).....     | 29                      | 10,368         | 63,833            | 8,518              | 17,445            | 48,913          | 114,203  | 127,771                     | 243,953                      | 9,652                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....                                     | 22                      | 7,031          | 41,139            | 5,766              | 11,143            | 32,110          | 79,280   | 94,335                      | 173,944                      | 5,220                               |
|                                | 75-89% specialization.....   | 3                       | 3,112          | 21,454            | 2,565              | 5,927             | 15,946          | 33,271   | 32,389                      | 67,304                       | 4,403                               |
| 33213                          | Cast iron soil pipe and fittings (primary product class of estab.) | 41                      | 12,170         | 59,410            | 11,026             | 20,550            | 50,657          | 92,909   | 81,736                      | 178,367                      | 4,924                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....                                     | 30                      | 8,568          | 42,514            | 7,798              | 14,475            | 36,499          | 64,679   | 63,692                      | 133,346                      | 2,343                               |
| 33214                          | All other gray iron castings (primary product class of estab.)     | 762                     | 91,046         | 570,302           | 78,740             | 164,051           | 466,629         | 895,411  | 524,043                     | 1,417,346                    | 46,388                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....                                     | 614                     | 69,591         | 438,917           | 61,079             | 127,653           | 364,346         | 700,269  | 400,358                     | 1,100,922                    | 36,043                              |
|                                | 75-89% specialization.....   | 54                      | 6,486          | 37,748            | 5,080              | 10,428            | 28,271          | 51,736   | 29,186                      | 80,538                       | 2,549                               |
| 3322-                          | MALLEABLE IRON FOUNDRIES   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 81                      | 22,297         | 141,967           | 18,832             | 38,789            | 112,670         | 204,557  | 111,831                     | 317,528                      | 16,283                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..                                       | 63                      | 15,811         | 99,887            | 13,347             | 27,151            | 79,283          | 144,209  | 72,026                      | 217,429                      | 10,097                              |
|                                | 75-89% specialization.....   | 6                       | 1,382          | 7,442             | 1,173              | 2,346             | 5,873           | 10,694   | 4,927                       | 15,540                       | 385                                 |
| 3323-                          | STEEL FOUNDRIES  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 267                     | 56,810         | 361,378           | 47,628             | 95,106            | 280,433         | 586,914  | 288,795                     | 871,048                      | 27,832                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..                                       | 195                     | 39,403         | 245,500           | 33,150             | 65,879            | 190,781         | 389,080  | 193,830                     | 578,166                      | 19,140                              |
|                                | 75-89% specialization.....   | 34                      | 7,431          | 46,886            | 6,030              | 12,249            | 34,986          | 84,872   | 37,213                      | 123,073                      | 1,486                               |



TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations                 | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|---|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|   | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|   |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3321.—GRAY IRON FOUNDRIES      |                          |   |         |            |                                       |   |         |            |
| Machine shop.....                       | 237                      | 116                                       | 67      | 54         | 4,588                                 | 232                                       | 666     | 3,690      |
| Foundry pattern shop.....               | 309                      | 236                                       | 52      | 21         | 2,015                                 | 416                                       | 440     | 1,159      |
| INDUSTRY 3322.—MALLEABLE IRON FOUNDRIES |                          |   |         |            |                                       |   |         |            |
| Machine shop.....                       | 18                       | 9   | 6       | 3          | 212                                   | 18  | 66      | 128        |
| Foundry pattern shop.....               | 49                       | 21  | 26      | 2          | 314                                   | 40  | (D)     | (D)        |
| INDUSTRY 3323.—STEEL FOUNDRIES          |                          |   |         |            |                                       |   |         |            |
| Machine shop.....                       | 82                       | 13  | 38      | 31         | 2,639                                 | 18  | 423     | 2,198      |
| Foundry pattern shop.....               | 111                      | 43  | 47      | 21         | 1,200                                 | 100                                       | 401     | 699        |

Note: Very small establishments were not requested to report their metalworking operations and in some instances a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production worker employment on the last line of the table below.

| Item  | Industry |        |       |
|---|----------|--------|-------|
|   | 3321     | 3322   | 3323  |
| Total number of establishments in the industry.....   | 1,139    | 81     | 267   |
| Number of establishments which reported one or more of the specified operations.....                          | 438      | 56     | 150   |
| Percent of industry production workers in these establishments.....   | 65-70    | 85-90  | 80-85 |
| Number of establishments which reported "none" of the operations apply.....                                   | 334      | 15     | 70    |
| Percent of industry production workers in these establishments.....   | 20-25    | 10-15  | 10-15 |
| Percent of industry production workers in establishments which completed metalworking operations inquiry..... | 90-95    | 95-100 | 90-95 |

(D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. These are not, based on total employment in the establishment.





## SMELTING AND REFINING OF NONFERROUS METALS AND ALLOYS

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3331—Primary Smelting and Refining of Copper
- 3332—Primary Smelting and Refining of Lead
- 3333—Primary Smelting and Refining of Zinc
- 3334—Primary Production of Aluminum
- 3339—Primary Smelting and Refining of Nonferrous Metals, Not Elsewhere Classified
- 3341—Secondary Smelting, Refining, and Alloying of Nonferrous Metals and Alloys

Industries in this group produce primary and secondary nonferrous metals and alloys from ores and concentrates and from scrap. The five primary industries (3331 to 3339) are chiefly engaged in extracting metals from ores, concentrates, precipitates, etc. They include (1) establishments which perform smelting operations only and produce metals such as blister copper and lead base bullion, that are not yet of commercial grades; (2) establishments which refine the products of the smelters and produce commercially pure metal; and (3) those which produce refined metals from the ores and concentrates in a single continuous operation. These industries do not include milling or concentrating operations since these are generally located at mine sites and are considered as mineral operations rather than manufacturing activities. Such operations are covered in the 1963 Census of Mineral Industries (Major Group 10—Metal Mining). Also excluded are establishments which produce alumina from bauxite and those which process ores and concentrates primarily for the purpose of producing chemicals, such as zinc oxide. Such establishments are included in the chemical group of manufacturing industries. Primary smelters and refiners may also produce considerable quantities of such chemicals as sulfuric acid, zinc oxide, etc.

Inasmuch as many of the companies in the smelting and refining field operate their own mines and milling and concentrating plants, it has been difficult to establish a satisfactory value of the ore or concentrate transferred from the mine to the smelter. In an effort to achieve uniformity and to conform to reporting by smelters purchasing ore from other companies, the instructions accompanying the 1963 and 1958 report forms specified that such transfers should be reported at an approximate commercial value. In practice, this instruction was not feasible in all cases. In some instances there does not exist a comparable commercial form of the ore or concentrate transferred and in others, to convert to an approximate commercial value would have been unrealistic in view of the actual operations of the various establishments of an integrated company.

Since censuses of manufactures and of mineral industries were being conducted at the same time for 1963 and 1958, it was possible to check the reasonableness of the values of ores and concentrates transferred from mine and mill to smelter as reported by integrated companies. In a number of instances, the value f.o.b. mine and mills reported on the minerals form exceeded the cost of this material shown as an input on the manufactures report, whereas the latter figure should exceed the mine value by approximately

the transportation and handling costs. In such cases, the respondent was queried and more reasonable value and cost figures were obtained. These adjustments usually resulted in increased cost figures on the manufactures report, and consequently, reduced the computed "value added by manufacture."

In addition to the integration of mine and smelter, some companies operate both smelting and refining facilities while some are fully integrated from mine through refinery. The transfer of blister copper to refineries operated by the same company was often reported at other than commercial value for the reasons cited above. However, inasmuch as both the smelter and refinery are classified in the same industry, these estimated value figures do not cause a distortion of "value added" for the industry as a whole. However, the commodity data on shipments of smelter product and materials data on the consumption of these items are affected. For the copper industry, separate data are shown below for smelters and for refineries. These data must also be interpreted in the light of these limitations.

While a few companies transfer their refined product to fabricating plants under their own ownership, the effect of transfer values on the total figures is much less in this area. Often, while the refinery and fabricating plants may be under the same general financial control, the organizations are so distinct that the transfer of materials is made on the same basis as a commercial transaction.

For industries 3331 to 3339, toll processing is a particularly important activity and a considerable portion of the metal produced is handled on this basis, i.e., is processed by the smelter or the refinery for the owner of the metal for a fee. The fee may be a money payment or may be a combination of a money payment and a provision that the processing plant keep some of the metal. For both the 1963 and 1958 censuses of manufactures, no distinction was made between the plant's shipments of products produced from its own material and the shipments of metal retained as part of the fee for toll processing. However, separate data were reported for the metal returned to toll customers and for the fees received for toll processing.

Data on the tonnages of metals produced by plants engaged in primary smelting and refining of nonferrous metals are published annually by the Bureau of Mines of the U.S. Department of Interior in its Mineral Yearbook. Minor variations exist between the data shown here and those published by the Bureau of Mines. In addition to minor differences occurring from the submittal of separate reports to different agencies, reasons for the variation are the use by the Bureau of the Census of gross weight as contrasted with metal content by the Bureau of Mines for some metals and adjustments made by the Bureau of Mines for the amount of metal estimated as produced from scrap instead of ores or concentrates.

In general, the same definitions were used by the Bureau of the Census in the collection of product statistics as are used by the Bureau of Mines. In particular, it might be noted that the tonnages of refined lead and copper, produced by plants making refined lead and copper directly from ores and concentrates, are included in the lead base bullion and blister copper figures to arrive at a balance between the blister copper and refined copper figures and base bullion and refined lead figures. These tonnages have been considered as blister copper and lead base bullion produced and consumed in the same plant.

The production and shipments data shown in table 6A represent total production from materials of both domestic and foreign sources. The production and shipment figures shown for primary smelters and refiners include the production from scrap as well as from primary sources such as ores, concentrates, etc. A measure of the extent of secondary production by primary smelters and refiners is shown in table 7 which contains information on the quantity of scrap consumed. Also, a certain amount of the duplication arises if the data shown in table 6A for unalloyed and alloyed metals are combined in that unalloyed metals



are consumed by secondary smelters in producing metal alloys. This duplication can be measured by reference to the quantities of unalloyed metal consumed by secondary plants shown in table 7.

Data on the production of selected nonferrous metals by industry are presented in table 6A. These production data include quantities produced for sale, for interplant transfer, and for further consumption within the producing plant as well as toll production. However, the coverage ratios shown in table 5A are based on dollar value of shipments (including transfers to other plants of the company) but exclude the value of nonferrous metals produced and consumed within the same plant as well as shipments of metals produced for other companies on a toll basis.

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

#### 3331—PRIMARY SMELTING AND REFINING OF COPPER

This industry comprises establishments primarily engaged in smelting copper from the ore, and in refining copper by electrolytic or other processes. Establishments primarily engaged in rolling, drawing, or extruding copper are classified in industry 3351. For a detailed list of products of industry 3331, refer to table 6A, product codes 3331111 to 3331215.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Inasmuch as this industry includes both establishments smelting copper from ore, concentrates, etc., and establishments refining copper by electrolytic or other processes, the total cost of materials and the total value of shipments for this industry include extensive duplication resulting from the use of the products of the smelters as materials for the refiners. Thus, the value of blister copper, which represents an intermediate stage in the production of refined copper, appears twice in the total value of shipments and a corresponding duplication enters into the total cost of materials.

This problem of duplication is largely eliminated by treating smelters and refiners separately and by presenting individual figures for each group. The following table shows separate general statistics—employment, value added, value of shipments, etc., for the smelters and for the refiners of copper. In order to have the necessary data to prepare this table, where the smelting and refining operations at a single location are distinctly separate stages in the production of the metal, separate reports for smelting and refining departments were obtained. When separate smelting and refining stages are not necessary, such as in the case with copper produced by leaching and the production of Lake Superior copper, the establishments have been classified as refiners.

GENERAL STATISTICS FOR PRIMARY COPPER SMELTERS AND REFINERS: 1963 AND 1958

| Item  | 1963     |          | 1958 <sup>r</sup> |          |
|---|----------|----------|-------------------|----------|
|   | Smelters | Refiners | Smelters          | Refiners |
| Establishments.....number..   | 17       | 16       | 18                | 13       |
| All employees:  |          |          |                   |          |
| Total.....do..  | 5,261    | 9,688    | 6,105             | 8,617    |
| Payroll.....\$1,000..   | 34,564   | 61,570   | 32,273            | 45,112   |
| Production and related workers:   |          |          |                   |          |
| Total.....number..  | 4,489    | 8,222    | 5,176             | 7,257    |
| Man-hours.....1,000..   | 9,140    | 16,706   | 10,358            | 14,447   |
| Wages.....\$1,000..   | 27,881   | 50,057   | 25,547            | 36,098   |
| Value added by manufacture, adjusted.....do..                             | 126,319  | 159,191  | 76,460            | 89,736   |
| Cost of materials, fuel, electricity, contract work, and resales.....do.. | 538,685  | 431,289  | 345,836           | 347,398  |
| Value of shipments.....do..   | 653,650  | 591,807  | 417,837           | 445,581  |

<sup>r</sup>Revised.

Value of shipments and other receipts of the Primary Copper Industry totaled \$1,245 million. This amount included shipments of primary copper (primary products) valued at \$1,049 million, shipments of other products (secondary products) valued at \$103 million, and miscellaneous receipts (mainly toll smelting of materials owned by others) at \$93 million.

The production index for the primary products of the industry increased to 140 in 1963 from the 1958 level of 112. The unit value index for 1963 was 105 compared to 90 in 1958. Both indexes were computed on a basis of 1954 = 100.

### 3332—PRIMARY SMELTING AND REFINING OF LEAD

This industry comprises establishments primarily engaged in smelting lead from the ore, and in refining lead by any process. Establishments primarily engaged in rolling, drawing, or extruding lead are classified in industry 3356. For a detailed list of products of industry 3332, refer to table 6A, product codes 3332111 to 3332398.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

This industry includes both establishments smelting lead ores and concentrates and establishments refining lead and, accordingly, the total cost of materials and the total value of shipments for this industry include extensive duplication resulting from the use of the products of the smelter (lead-base bullion) as the material for the refiners. Thus, the value of the lead-base bullion, which represents an intermediate stage in the production of refined lead, appears twice in the total value of shipments and a corresponding duplication enters into the total cost of materials.

Value of shipments and other receipts of the Primary Lead Industry totaled \$265 million.

### 3333—PRIMARY SMELTING AND REFINING OF ZINC

This industry comprises establishments primarily engaged in smelting zinc from the ore, and in refining zinc by any process. Establishments primarily engaged in rolling, drawing,



or extruding zinc are classified in industry 3356. For a detailed list of products of industry 3333, refer to table 6A, product codes 3333111 to 3333461.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Primary Zinc Industry totaled \$282 million. This amount included shipments of refined zinc (primary products) valued at \$251 million, shipments of other products (secondary products) valued at \$21 million, and miscellaneous receipts (mainly toll smelting of materials owned by others), at \$10 million.

This industry's shipments of refined zinc represented 92 percent of its total product shipments. The industry specialization ratio in 1958 was 90 percent. Secondary products shipped by this industry in 1963 consisted mainly of sulfuric acid (\$6 million) and miscellaneous nonferrous metals, n.e.c. (\$8 million).

Shipments of refined zinc by this industry represented 81 percent of all shipments of these products (\$309 million) by all industries. In 1958 the coverage ratio was 76 percent. Other industries shipping refined zinc consisted mainly of industry 3341, Secondary Nonferrous Metals, \$45 million.

The production index for the primary products of the industry increased to 125 in 1963 from the 1958 level of 101. The unit value index for 1963 was 96 compared to 92 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3334—PRIMARY PRODUCTION OF ALUMINUM

This industry comprises establishments primarily engaged in producing aluminum from alumina, and in refining aluminum by any process. Establishments primarily engaged in rolling, drawing, or extruding aluminum are classified in industry 3352. For a detailed list of products of industry 3334, refer to table 6A, product codes 3334711 to 3334881.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Primary Aluminum Industry totaled \$1,090 million. This amount included shipments of primary aluminum (primary products) valued at \$1,070 million, and miscellaneous receipts (mainly resales) at \$20 million.

This industry's shipments of primary aluminum represented 100 percent of its total product shipments. The industry specialization ratio in 1958 was also 100 percent.

Shipments of primary aluminum by this industry represented 75 percent of all shipments of these products (\$1,420 million) by all industries. In 1958 the coverage ratio was 76 percent. Other industries shipping primary aluminum consisted mainly of industry 3352, Aluminum Rolling and Drawing, \$98 million; and industry 3341, Secondary Nonferrous Metals, \$245 million.

The production index for the primary products of the industry increased to 201 in 1963 from the 1958 level of 113. The unit value index for 1963 was 109 compared to 121 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3339—PRIMARY SMELTING AND REFINING OF NONFERROUS METALS, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in smelting and refining nonferrous metals, n.e.c. Establishments primarily engaged in rolling, drawing, and

extruding these nonferrous primary metals are classified in industry 3356, and the production of bullion at the site of the mine is classified in the mining industries. For a detailed list of products of industry 3339, refer to table 6A, product codes 3339511 to 3339798.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Primary Nonferrous Metals, N.E.C. Industry totaled \$212 million. This amount included shipments of primary nonferrous metals, n.e.c. (primary products) valued at \$170 million, shipments of other products (secondary products) valued at \$35 million, and miscellaneous receipts (mainly resales) at \$7 million.

This industry's shipments of primary nonferrous metals represented 83 percent of its total product shipments. The industry specialization ratio in 1958 was 92 percent. Secondary products shipped by this industry in 1963 included reagent and high purity grades of inorganic chemicals (\$6 million), and rolled, drawn, and extruded nonferrous mill products, n.e.c. (\$8 million).

Shipments of primary nonferrous metals, n.e.c., by this industry represented 39 percent of all shipments of these products (\$439 million) by all industries. In 1958 the coverage ratio was 24 percent. Other industries shipping primary nonferrous metals, n.e.c., consisted mainly of industry 3331, Primary Copper, \$93 million; and industry 3341, Secondary Nonferrous Metals, \$88 million.

#### 3341—SECONDARY SMELTING, REFINING, AND ALLOYING OF NONFERROUS METALS AND ALLOYS.

This industry comprises establishments primarily engaged in recovering nonferrous metals and alloys from new and used scrap and dross, but which are not engaged in further fabrication. This industry includes establishments engaged in both the recovery and alloying of precious metals. Plants engaged in the recovery of tin through secondary smelting and refining, as well as by chemical processes are included in this industry. Establishments primarily engaged in assembling, sorting, and breaking up scrap metal, without smelting and refining are classified in trade industries. For a detailed list of products of industry 3341, refer to table 6A, product codes 3341211 to 3341811.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Secondary Nonferrous Metals Industry totaled \$1,045 million. This amount included shipments of secondary nonferrous metals (primary products) valued at \$814 million, shipments of other products (secondary products) valued at \$55 million, and miscellaneous receipts (mainly resales) at \$177 million.

This industry's shipments of secondary nonferrous metals represented 94 percent of its total product shipments. The industry specialization ratio in 1958 was 93 percent. Secondary products shipped by this industry in 1963 included reagent and high purity grades of purity inorganic chemicals (\$9 million), and nonferrous rolling and drawing, n.e.c. (\$17 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 27 percent of the total industry shipments are represented by plants specializing in product class 33412, Secondary copper; 26 percent in product class



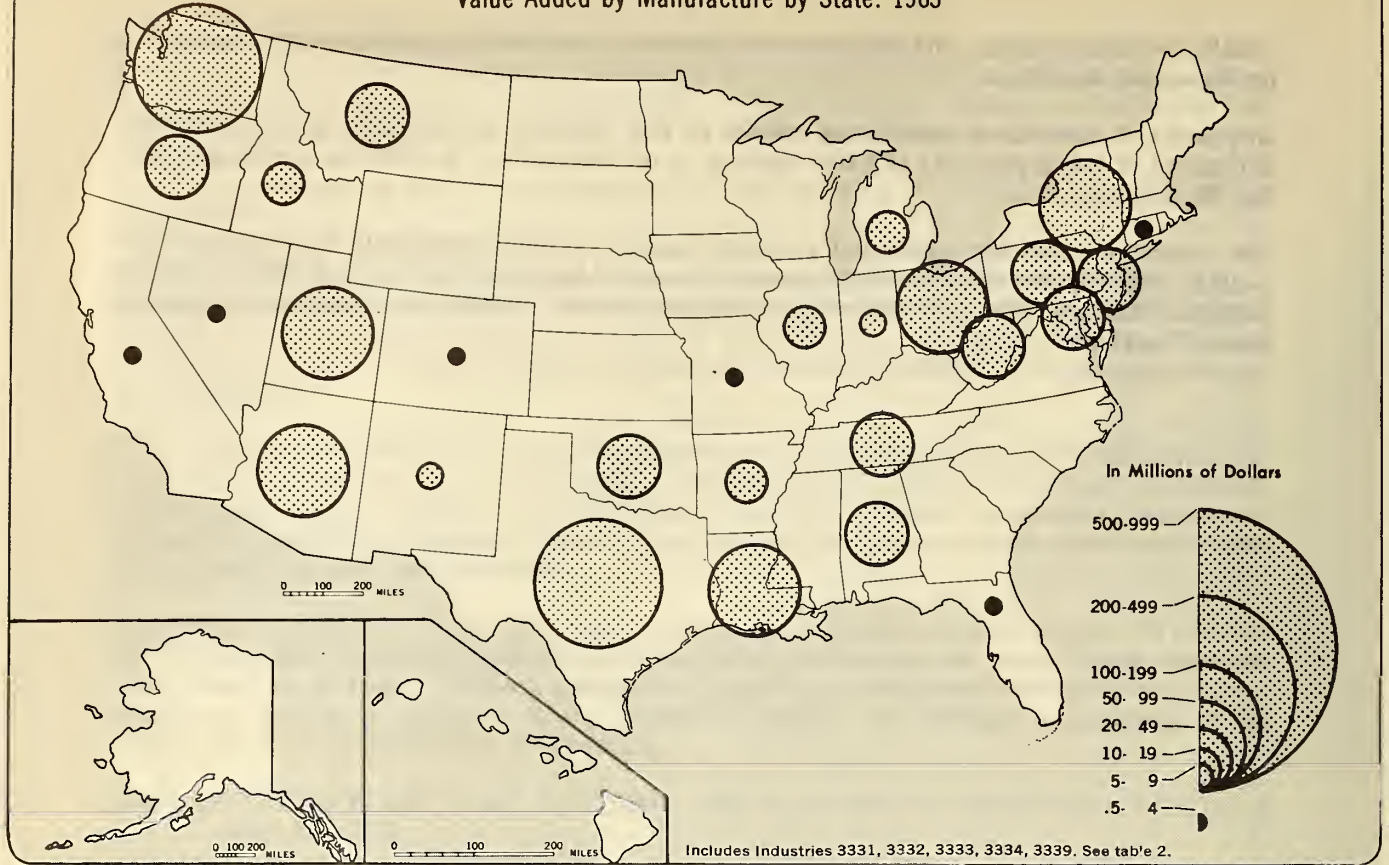
33413, Secondary lead; and 25 percent in product class 33417, Aluminum ingot, produced by secondary smelters.

Shipments of secondary nonferrous metals by this industry represented 26 percent of all shipments of these products (\$3,103 million) by all industries. In 1958 the coverage ratio was 30 percent.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3341, e.g., Refined lead, 69 percent; Refined zinc, 16 percent; Aluminum ingot, 19 percent; Aluminum extrusion billet, 7 percent.

# PRIMARY NONFERROUS METAL: SIC 333

Value Added by Manufacture by State: 1963



# SECONDARY NONFERROUS METALS: SIC 334

Value Added by Manufacture by State: 1963

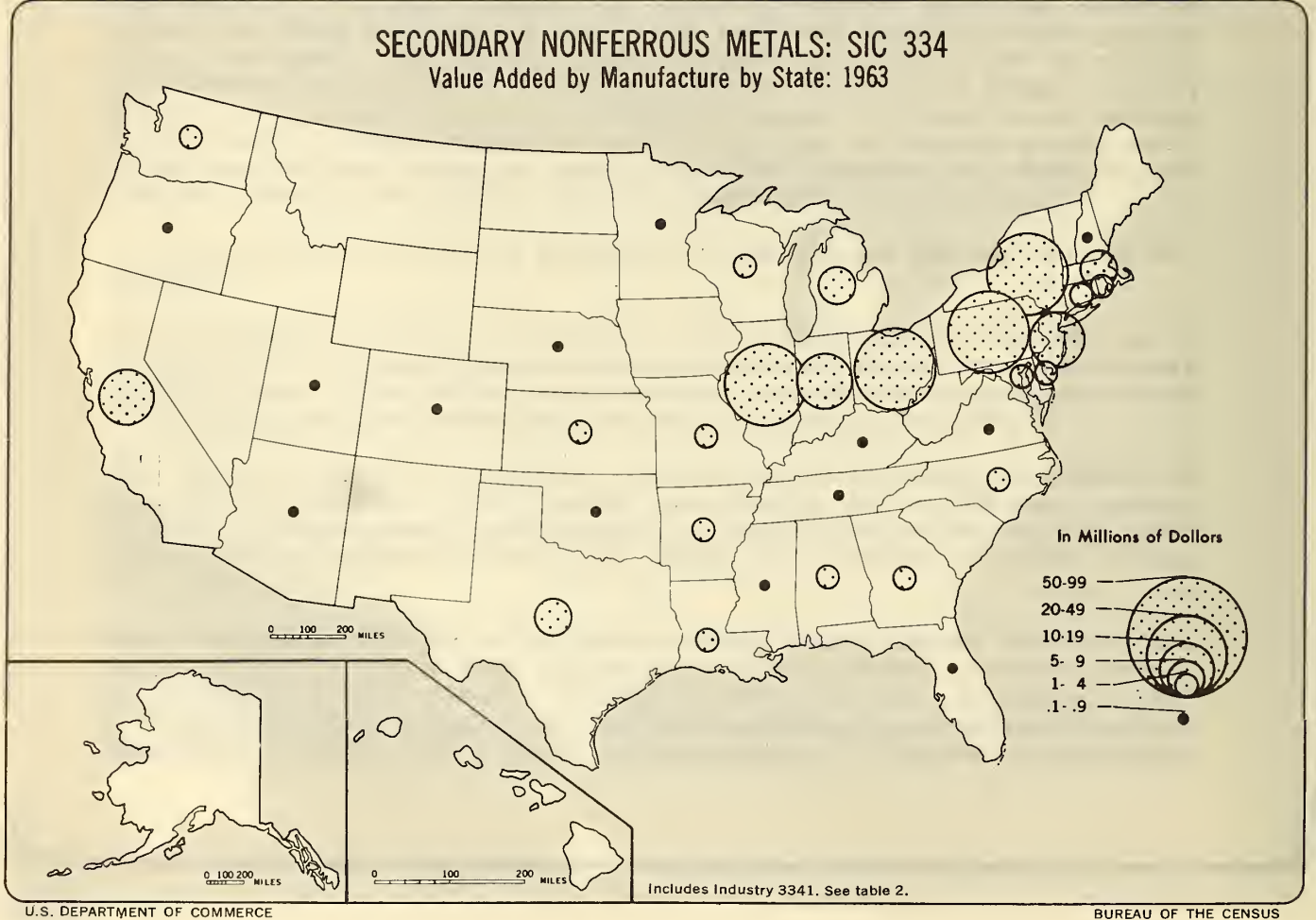




TABLE 1. General Statistics: 1963 and Earlier Years

| Year                            | Companies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expendi-<br>tures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---------------------------------|-----------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|---|-----------------------------------|------------------------------------|---|---|--|
|                                 |                       | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                   |                                    |   |   |  |
| INDUSTRY 3331.—PRIMARY COPPER   |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1963.....                       | 13                    | 33                | 33   | 14,949            | 96,134               | 12,711             | 25,846               | 77,938             | 285,510   | <sup>1</sup> 969,974              | <sup>1</sup> 1,245,457             | 13,134  | (NA)  | (NA)                                     |
| 1962 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 15,256            | 95,877               | 12,793             | 25,982               | 75,704             | 246,653   | <sup>1</sup> 961,130              | <sup>1</sup> 1,207,131             | 10,413  | (NA)  | (NA)                                     |
| 1961 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 15,410            | 92,843               | 12,887             | 25,982               | 72,428             | 217,006   | <sup>1</sup> 922,664              | <sup>1</sup> 1,168,557             | 15,091  | (NA)  | (NA)                                     |
| 1960 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 16,122            | 93,845               | 13,834             | 27,488               | 74,042             | 243,433   | <sup>1</sup> 924,426              | <sup>1</sup> 1,134,290             | 10,279  | (NA)  | (NA)                                     |
| 1959 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 13,142            | 66,751               | 11,000             | 20,367               | 52,732             | 166,052   | <sup>1</sup> 520,908              | <sup>1</sup> 712,036               | 9,757   | (NA)  | (NA)                                     |
| 1958.....                       | 11                    | 31                | 30   | 14,722            | 77,385               | 12,397             | 24,805               | 61,645             | 166,214   | 687,530                           | 861,087                            | 19,334  | (NA)  | (NA)                                     |
| 1957 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 15,050            | 79,314               | 12,980             | 26,635               | 64,926             | 184,813   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | 11,729  | (NA)  | (NA)                                     |
| 1956 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 15,104            | 78,563               | 13,048             | 27,556               | 64,530             | 276,420   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | 8,056   | (NA)  | (NA)                                     |
| 1955 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 14,219            | 67,098               | 12,119             | 25,159               | 54,704             | 293,571   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | 7,150   | (NA)  | (NA)                                     |
| 1954.....                       | 10                    | 28                | 28   | 14,680            | 63,340               | 12,410             | 24,960               | 51,173             | 159,237   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | 4,276   | (NA)  | (NA)                                     |
| 1953 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 13,363            | 60,922               | 11,546             | 25,297               | 50,400             | 168,228   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 12,838            | 55,348               | 10,974             | 23,932               | 45,105             | 120,494   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 13,340            | 51,840               | 11,381             | 24,801               | 42,844             | 116,922   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 14,089            | 48,617               | 12,149             | 26,147               | 40,426             | 99,899  | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 13,688            | 43,915               | 11,713             | 24,472               | 35,836             | 68,011  | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)  | (NA)  | (NA)                                     |
| 1947.....                       | (NA)                  | 27                | 26   | 14,629            | 44,790               | 13,065             | 29,751               | 38,967             | 93,196  | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | 4,176   | (NA)  | (NA)                                     |
| INDUSTRY 3332.—PRIMARY LEAD     |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1963.....                       | 6                     | 10                | 10   | 2,578             | 14,997               | 2,125              | 4,106                | 11,156             | 24,876  | <sup>1</sup> 228,906              | <sup>1</sup> 265,072               | 964   | (NA)  | (NA)                                     |
| 1962 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 2,510             | 14,633               | 2,057              | 4,059                | 10,894             | 32,072  | <sup>1</sup> 230,417              | <sup>1</sup> 268,816               | 1,371   | (NA)  | (NA)                                     |
| 1961 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 2,685             | 15,378               | 2,208              | 4,453                | 11,504             | 28,933  | <sup>1</sup> 251,718              | <sup>1</sup> 282,978               | 1,680   | (NA)  | (NA)                                     |
| 1960 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 2,751             | 15,740               | 2,214              | 4,581                | 11,623             | 40,122  | <sup>1</sup> 281,478              | <sup>1</sup> 316,673               | 922   | (NA)  | (NA)                                     |
| 1959 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 2,603             | 13,824               | 2,018              | 3,932                | 9,736              | 32,018  | <sup>1</sup> 177,752              | <sup>1</sup> 208,876               | (271)   | (NA)  | (NA)                                     |
| 1958.....                       | 5                     | 13                | 13   | 3,563             | 18,182               | 2,864              | 5,687                | 13,599             | 36,325  | <sup>1</sup> 292,506              | <sup>1</sup> 316,934               | 725   | (NA)  | (NA)                                     |
| 1957 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 4,319             | 21,494               | 3,567              | 7,159                | 16,457             | 46,592  | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | 3,118   | (NA)  | (NA)                                     |
| 1956 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 4,378             | 21,178               | 3,632              | 7,388                | 16,287             | 39,780  | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | 2,042   | (NA)  | (NA)                                     |
| 1955 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 4,019             | 17,905               | 3,344              | 6,544                | 13,561             | 42,329  | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | 1,204   | (NA)  | (NA)                                     |
| 1954.....                       | 5                     | 13                | 13   | 4,063             | 17,393               | 3,312              | 6,659                | 13,142             | 30,772  | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | 1,404   | (NA)  | (NA)                                     |
| 1953 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 4,668             | 19,217               | 3,751              | 7,634                | 14,501             | 31,731  | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 4,626             | 18,801               | 3,721              | 7,718                | 14,315             | 43,678  | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 4,618             | 16,848               | 3,757              | 7,755                | 12,986             | 42,200  | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 4,738             | 16,007               | 3,889              | 8,031                | 12,359             | 40,314  | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 5,169             | 16,745               | 4,256              | 8,764                | 12,963             | 31,903  | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)  | (NA)  | (NA)                                     |
| 1947.....                       | 6                     | 16                | 16   | 4,663             | 14,082               | 4,022              | 8,879                | 11,610             | 35,902  | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | 2,649   | (NA)  | 100                                      |
| INDUSTRY 3333.—PRIMARY ZINC     |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1963.....                       | 11                    | 18                | 18   | 8,065             | 47,760               | 6,575              | 13,245               | 36,238             | 98,789  | 173,473                           | 281,537                            | 4,734   | 92  | 81                                       |
| 1962 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 8,449             | 48,535               | 6,892              | 14,315               | 36,934             | 76,297  | 177,201                           | 258,468                            | 4,501   | (NA)  | (NA)                                     |
| 1961 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 8,361             | 46,875               | 6,739              | 14,260               | 35,655             | 84,206  | 165,515                           | 257,410                            | 2,739   | (NA)  | (NA)                                     |
| 1960 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 8,582             | 47,675               | 6,713              | 14,129               | 34,417             | 94,611  | 168,627                           | 252,408                            | 3,017   | (NA)  | (NA)                                     |
| 1959 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 8,625             | 45,500               | 6,823              | 14,446               | 33,710             | 80,581  | 153,114                           | 236,403                            | 4,080   | (NA)  | (NA)                                     |
| 1958.....                       | 11                    | 20                | 20   | 8,923             | 44,078               | 7,000              | 13,788               | 32,633             | 71,653  | 140,197                           | 208,993                            | 13,445  | 90  | 76                                       |
| 1957 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 11,030            | 54,282               | 8,988              | 17,822               | 41,286             | 96,477  | 193,117                           | 280,628                            | 20,006  | 88  | (NA)                                     |
| 1956 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 11,182            | 54,328               | 9,343              | 18,857               | 42,077             | 112,823   | 219,090                           | 325,186                            | 12,290  | (NA)  | (NA)                                     |
| 1955 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 10,772            | 48,944               | 8,951              | 18,182               | 38,307             | 110,331   | 183,686                           | 297,900                            | 3,590   | (NA)  | (NA)                                     |
| 1954.....                       | 13                    | 21                | 21   | 10,470            | 44,042               | 8,638              | 16,546               | 34,104             | 87,501  | 143,768                           | 231,340                            | 5,276   | 87  | (NA)                                     |
| 1953 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 11,399            | 50,661               | 9,903              | 20,756               | 42,888             | 80,470  | 187,773                           | 268,243                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 11,333            | 49,036               | 9,758              | 20,524               | 40,971             | 106,693   | 229,472                           | 336,165                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 11,033            | 45,048               | 9,470              | 19,761               | 37,512             | 124,983   | 221,353                           | 346,336                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 11,263            | 39,975               | 9,878              | 20,131               | 34,163             | 99,015  | 160,652                           | 259,667                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 11,154            | 38,999               | 9,610              | 19,791               | 32,456             | 68,828  | 146,649                           | 215,477                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                       | 14                    | 20                | 20   | 12,424            | 35,476               | 11,088             | 22,232               | 30,475             | 77,068  | 113,928                           | 190,996                            | 6,739   | (NA)  | (NA)                                     |
| INDUSTRY 3334.—PRIMARY ALUMINUM |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1963.....                       | 7                     | 23                | 22   | 18,133            | 134,116              | 14,459             | 29,487               | 101,399            | 499,576   | 571,940                           | 1,089,977                          | 62,172  | 100   | 75                                       |
| 1962 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 17,221            | 125,584              | 13,677             | 27,924               | 94,629             | 471,980   | 521,756                           | 1,014,921                          | 10,798  | (NA)  | (NA)                                     |
| 1961 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 16,201            | 117,151              | 12,651             | 26,087               | 86,170             | 454,206   | 489,105                           | 953,894                            | 19,258  | (NA)  | (NA)                                     |
| 1960 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 17,848            | 123,956              | 14,120             | 29,133               | 92,498             | 472,711   | 503,071                           | 921,215                            | 26,647  | (NA)  | (NA)                                     |
| 1959 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 17,997            | 122,606              | 14,362             | 30,022               | 92,622             | 459,285   | 476,741                           | 953,775                            | 38,534  | (NA)  | (NA)                                     |
| 1958.....                       | 6                     | 20                | 20   | 17,381            | 111,588              | 13,428             | 27,738               | 82,750             | 383,836   | 411,758                           | 808,822                            | 142,293   | 100   | 76                                       |
| 1957 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 20,500            | 117,814              | 16,327             | 33,430               | 89,678             | 406,302   | 421,982                           | 804,049                            | 150,955   | (NA)  | (NA)                                     |
| 1956 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 21,120            | 112,070              | 17,046             | 34,752               | 86,547             | 389,617   | 409,901                           | 767,227                            | 103,997   | (NA)  | (NA)                                     |
| 1955 <sup>2</sup> .....         | (NA)                  | (NA)              | (NA)   | 20,020            | 99,771               | 16,382             | 33,886               | 78,418             | 328,651   | 361,472                           | 692,732                            | 74,941  | (NA)  | (NA)                                     |
| 1954.....                       | 3                     | 16                | 16   | 20,626            | 96,813               | 16,982             | 35,335               | 77,174             | 258,944   | 339,964                           | 604,195                            | 26,073  | 100   | 78                                       |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year   | Companies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expenditures,<br>new<br>(\$1,000) | Special-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|-----------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|---|-----------------------------------|------------------------------------|--|--|--|
|  |                       | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                   |                                    |  |  |  |
| INDUSTRY 3334.—PRIMARY ALUMINUM—Continued  |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |  |  |  |
| 1953 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 19,568            | 86,894               | 16,726             | 34,183               | 70,991             | 169,656   | 306,906                           | 476,562                            | (NA)   | (NA)   | (NA)                                     |
| 1952 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 14,272            | 60,143               | 11,735             | 24,923               | 47,653             | 133,725   | 206,291                           | 340,016                            | (NA)   | (NA)   | (NA)                                     |
| 1951 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 12,162            | 46,793               | 10,133             | 21,991               | 37,729             | 126,939   | 174,841                           | 301,780                            | (NA)   | (NA)   | (NA)                                     |
| 1950 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 10,663            | 37,151               | 8,869              | 18,215               | 29,707             | 105,264   | 136,268                           | 241,532                            | (NA)   | (NA)   | (NA)                                     |
| 1949 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 8,928             | 31,155               | 7,314              | 16,769               | 24,596             | 66,837  | 117,501                           | 184,338                            | (NA)   | (NA)   | (NA)                                     |
| 1947 <sup>3</sup>  | 3                     | 11                | 11   | 8,919             | 26,398               | 7,336              | 16,014               | 20,930             | 65,262  | 95,748                            | 161,010                            | 2,791  | (NA)   | (NA)                                     |
| 1939 <sup>3</sup>  | (NA)                  | 4                 | (NA)   | 3,345             | 5,120                | 2,802              | (NA)                 | 3,928              | 36,885  | 27,715                            | 64,600                             | (NA)   | (NA)   | (NA)                                     |
| INDUSTRY 3339.—PRIMARY NONFERROUS METALS, N.E.C.   |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |  |  |  |
| 1963   | 32                    | 35                | 26   | 5,064             | 34,807               | 3,782              | 8,148                | 24,701             | 103,830   | 115,519                           | 212,176                            | 6,435  | 83   | 39                                       |
| 1962 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 4,886             | 30,746               | 3,657              | 7,645                | 22,205             | 93,391  | 80,565                            | 169,668                            | 6,400  | (NA)   | (NA)                                     |
| 1961 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 4,037             | 24,560               | 3,015              | 6,448                | 18,536             | 82,399  | 65,138                            | 148,466                            | 13,749                                       | (NA)   | (NA)                                     |
| 1960 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 4,110             | 26,417               | 3,239              | 6,961                | 19,623             | 90,042  | (NA)                              | 149,192                            | 11,479                                       | (NA)   | (NA)                                     |
| 1959 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 2,651             | 17,268               | 1,941              | 4,276                | 11,920             | 54,539  | 45,335                            | 99,154                             | (S)  | (NA)   | (NA)                                     |
| 1958   | 24                    | 29                | 18   | 2,658             | 15,939               | 1,920              | 3,976                | 10,737             | 50,495  | 42,076                            | 96,565                             | 3,994  | 92   | 24                                       |
| 1954   | 24                    | 25                | 10   | 3,704             | 18,605               | 2,853              | 5,509                | 13,061             | 50,953  | 136,870                           | 187,869                            | 19,069                                       | 90   | 28                                       |
| 1952 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 6,601             | 27,829               | 5,461              | 11,359               | 21,864             | 51,432  | 65,306                            | 111,738                            | (NA)   | (NA)   | (NA)                                     |
| 1951 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 4,048             | 15,387               | 3,365              | 6,843                | 12,891             | 33,308  | 34,987                            | 68,295                             | (NA)   | (NA)   | (NA)                                     |
| 1950 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 1,968             | 7,119                | 1,661              | 3,349                | 5,756              | 23,401  | 15,284                            | 38,685                             | (NA)   | (NA)   | (NA)                                     |
| 1947   | (NA)                  | 15                | 10   | 2,482             | 6,959                | 2,124              | 4,118                | 5,974              | 13,267  | 10,986                            | 24,253                             | 951  | (NA)   | (NA)                                     |
| INDUSTRY 3341.—SECONDARY NONFERROUS METALS   |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |  |  |  |
| 1963   | 406                   | 459               | 179  | 15,445            | 96,302               | 11,336             | 23,779               | 60,510             | 228,190   | 823,132                           | 1,045,522                          | 17,891                                       | 94   | 26                                       |
| 1962 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 15,718            | 99,048               | 12,425             | 26,362               | 64,567             | 188,850   | 781,923                           | 971,797                            | 10,443                                       | (NA)   | (NA)                                     |
| 1961 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 15,821            | 97,122               | 12,353             | 26,893               | 62,826             | 180,823   | 781,977                           | 957,822                            | 14,876                                       | (NA)   | (NA)                                     |
| 1960 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 15,390            | 87,874               | 11,778             | 25,648               | 54,672             | 158,279   | 721,596                           | 884,873                            | 7,596  | (NA)   | (NA)                                     |
| 1959 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 16,203            | 89,093               | 12,571             | 26,274               | 55,863             | 166,695   | 754,298                           | 906,072                            | 7,454  | (NA)   | (NA)                                     |
| 1958   | 349                   | 387               | 152  | 14,441            | 75,669               | 10,813             | 21,194               | 46,869             | 147,262   | 581,589                           | 724,013                            | 5,355  | 93   | 30                                       |
| 1957 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 17,167            | 86,875               | 13,087             | 26,077               | 56,060             | 141,271   | 729,561                           | 885,717                            | (S)  | (NA)   | (NA)                                     |
| 1956 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 17,969            | 88,883               | 13,901             | 28,357               | 58,216             | 199,258   | 902,925                           | 1,077,047                          | 9,581  | (NA)   | (NA)                                     |
| 1955 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 17,635            | 82,696               | 13,648             | 28,272               | 55,024             | 203,661   | 877,889                           | 1,070,536                          | (S)  | (NA)   | (NA)                                     |
| 1954 <sup>4</sup>  | (NA)                  | 354               | 140  | 15,155            | 68,822               | 11,754             | 24,146               | 44,867             | 144,800   | 599,392                           | 742,188                            | 9,254  | (NA)   | (NA)                                     |
| 1953 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 12,792            | 58,800               | 9,877              | 20,870               | 40,133             | 107,714   | 603,559                           | 711,273                            | (NA)   | (NA)   | (NA)                                     |
| 1952 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 16,853            | 72,943               | 12,732             | 26,414               | 45,719             | 150,135   | 697,949                           | 848,084                            | (NA)   | (NA)   | (NA)                                     |
| 1951 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 16,946            | 68,774               | 12,879             | 27,554               | 44,837             | 154,635   | 810,497                           | 965,132                            | (NA)   | (NA)   | (NA)                                     |
| 1950 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 15,981            | 59,138               | 12,337             | 26,123               | 38,964             | 137,660   | 723,242                           | 860,902                            | (NA)   | (NA)   | (NA)                                     |
| 1949 <sup>4</sup>  | (NA)                  | (NA)              | (NA)   | 14,024            | 49,069               | 10,476             | 21,965               | 30,799             | 99,372  | 544,896                           | 644,268                            | (NA)   | (NA)   | (NA)                                     |
| 1947 <sup>4</sup>  | 272                   | 321               | (NA)   | 18,089            | 55,897               | 14,511             | 31,023               | 38,561             | 119,153   | 602,803                           | 721,956                            | 7,225  | (NA)   | (NA)                                     |
| 1939 <sup>3</sup>  | (NA)                  | 280               | (NA)   | (NA)              | (NA)                 | 8,109              | (NA)                 | 11,320             | 41,381  | 212,182                           | 235,563                            | (NA)   | (NA)   | (NA)                                     |
| INDUSTRIES 3331, 3332, 3333, and 3339.—PRIMARY COPPER, PRIMARY LEAD, PRIMARY ZINC, AND PRIMARY NONFERROUS METALS, N.E.C. |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |  |  |  |
| 1963   | 62                    | 96                | 87   | 30,656            | 193,698              | 25,193             | 51,345               | 150,033            | 513,005   | <sup>1</sup> 1,487,872            | <sup>1</sup> 2,004,242             | 25,267                                       | (NA)   | (NA)                                     |
| 1962 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 31,101            | 189,791              | 25,399             | 52,001               | 145,737            | 448,413   | <sup>1</sup> 1,449,313            | <sup>1</sup> 1,804,083             | 22,685                                       | (NA)   | (NA)                                     |
| 1961 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 30,493            | 179,656              | 24,849             | 51,143               | 138,123            | 412,544   | <sup>1</sup> 1,650,928            | <sup>1</sup> 1,857,411             | 33,259                                       | (NA)   | (NA)                                     |
| 1960 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 31,565            | 183,677              | 26,000             | 53,159               | 139,705            | 468,208   | (NA)                              | <sup>1</sup> 1,852,563             | 25,697                                       | (NA)   | (NA)                                     |
| 1959 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 27,021            | 143,343              | 21,782             | 43,021               | 108,098            | 333,190   | <sup>1</sup> 897,109              | <sup>1</sup> 1,256,469             | (S)  | (NA)   | (NA)                                     |
| 1958   | (NA)                  | 92                | 80   | 29,705            | 154,315              | 24,068             | 47,927               | 117,821            | 315,264   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | 33,321                                       | (NA)   | (NA)                                     |
| 1954   | (NA)                  | 87                | 72   | 32,917            | 143,380              | 27,213             | 53,674               | 111,480            | 328,463   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | 30,025                                       | (NA)   | (NA)                                     |
| 1952 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 35,398            | 151,014              | 29,914             | 63,533               | 122,255            | 370,617   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)   | (NA)   | (NA)                                     |
| 1951 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 33,039            | 129,123              | 27,973             | 59,160               | 106,233            | 371,876   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)   | (NA)   | (NA)                                     |
| 1950 <sup>2</sup>  | (NA)                  | (NA)              | (NA)   | 32,058            | 111,718              | 27,577             | 57,658               | 92,704             | 300,619   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)   | (NA)   | (NA)                                     |
| 1947   | (NA)                  | 78                | 72   | 34,198            | 101,307              | 30,299             | 64,980               | 86,846             | 260,895   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | 14,515                                       | (NA)   | (NA)                                     |
| 1939   | (NA)                  | 59                | (NA)   | 29,561            | 44,703               | 24,828             | (NA)                 | 34,483             | 100,117   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)   | (NA)   | (NA)                                     |
| 1937   | (NA)                  | 62                | (NA)   | 33,485            | 51,876               | 29,815             | (NA)                 | 43,255             | 129,789   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)   | (NA)   | (NA)                                     |
| 1935   | (NA)                  | 62                | (NA)   | 25,267            | 31,001               | 22,478             | (NA)                 | 24,887             | 77,974  | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)   | (NA)   | (NA)                                     |
| 1933   | (NA)                  | 59                | (NA)   | 16,564            | 17,418               | 14,567             | (NA)                 | 13,549             | 41,401  | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)   | (NA)   | (NA)                                     |
| 1931   | (NA)                  | 76                | (NA)   | (NA)              | (NA)                 | 18,477             | (NA)                 | 22,716             | 72,876  | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)   | (NA)   | (NA)                                     |
| 1929   | (NA)                  | 75                | (NA)   | 34,928            | 60,057               | 30,981             | (NA)                 | 49,239             | 146,775   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)   | (NA)   | (NA)                                     |
| 1927   | (NA)                  | 69                | (NA)   | 33,916            | 52,923               | 30,510             | (NA)                 | 44,800             | 135,493   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)   | (NA)   | (NA)                                     |
| 1925   | (NA)                  | 71                | (NA)   | 36,251            | 55,226               | 32,992             | (NA)                 | 47,948             | 153,061   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)   | (NA)   | (NA)                                     |
| 1923   | (NA)                  | 84                | (NA)   | (NA)              | (NA)                 | 34,889             | (NA)                 | 51,123             | 121,803   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | (NA)   | (NA)   | (NA)                                     |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRIES 3331, 3332, 3333, and 3339.—PRIMARY COPPER, PRIMARY LEAD, PRIMARY ZINC, AND PRIMARY NONFERROUS METALS, N.E.C.—Continued |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1921.....  | (NA)                       | 80                | (NA)   | 21,889            | 30,704               | 15,580             | (NA)                 | 24,401             | 58,695   | (1)                               | (1)                                | (NA)  | (NA)  | (NA)                                     |
| 1919.....  | (NA)                       | 98                | (NA)   | 41,910            | 63,146               | 37,579             | (NA)                 | 52,686             | 118,220  | (1)                               | (1)                                | (NA)  | (NA)  | (NA)                                     |
| 1914.....  | (NA)                       | 88                | (NA)   | 37,952            | 35,573               | 34,733             | (NA)                 | 28,983             | 96,395   | (1)                               | (1)                                | (NA)  | (NA)  | (NA)                                     |
| 1909.....  | (NA)                       | 95                | (NA)   | 32,037            | 27,925               | 29,707             | (NA)                 | 23,037             | 69,692   | (1)                               | (1)                                | (NA)  | (NA)  | (NA)                                     |
| 1904.....  | (NA)                       | 103               | (NA)   | 28,540            | 23,055               | 26,853             | (NA)                 | 20,058             | 68,674   | (1)                               | (1)                                | (NA)  | (NA)  | (NA)                                     |
| 1899.....  | (NA)                       | 117               | (NA)   | 25,633            | 18,124               | 24,512             | (NA)                 | 15,974             | 79,131   | (1)                               | (1)                                | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1954 excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1954 excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimates did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

n.e.c. Not elsewhere classified.

<sup>1</sup>The value of shipments and cost of materials for this industry include extensive duplication arising from shipments between establishments in the same industry. These data are not shown for the years 1947-1957. For further explanation see appendix A, "Value of Shipments."

<sup>2</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>3</sup>No comparable figures are available for earlier years.

<sup>4</sup>Data for 1954 have been revised to exclude establishments originally classified in this industry. Accordingly, data for 1953 and earlier years are not comparable with 1954-1963. Selected data for 1954 on a basis comparable with data for earlier years are as follows: Number of establishments, 360; total employment, 15,775; unadjusted value added by manufacture, \$142,329 thousand; cost of materials, \$657,519 thousand; and value of shipments, \$807,725 thousand.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                     | 1963              |                                       |                   |                      |                    |                      |                    |   |                                |                                 | 1958                                   |                           |   |
|--|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|---|--------------------------------|---------------------------------|--|---------------------------|---|
|  | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted<br>(\$1,000) | Cost of materials<br>(\$1,000) | Value of shipments<br>(\$1,000) | Capital expenditures, new<br>(\$1,000) | All employees<br>(number) | Value added by manufacture, adjusted<br>(\$1,000) |
|  | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                |                                 |  |                           |   |
| INDUSTRY 3331.—PRIMARY COPPER                    |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                       | 33                | 33                                    | 14,949            | 96,134               | 12,711             | 25,846               | 77,938             | 285,510   | 969,974                        | 1,245,457                       | 13,134                                 | 14,722                    | 166,214   |
| Middle Atlantic....                              | 8                 | 8                                     | 5,032             | 33,063               | 4,177              | 8,744                | 26,252             | 47,360  | 126,324                        | 183,936                         | 5,079                                  | 5,180                     | 48,926  |
| North Central and South.....                     | 8                 | 8                                     | 3,020             | 18,114               | 2,595              | 5,266                | 15,165             | 51,606  | 133,348                        | 173,433                         | 1,493                                  | 2,306                     | 18,981  |
| West.....  | 17                | 17                                    | 6,897             | 44,957               | 5,939              | 11,836               | 36,521             | 186,544   | 710,302                        | 888,088                         | 6,562                                  | 7,236                     | 98,307  |
| Arizona.....                                     | 8                 | 8                                     | 2,407             | 16,952               | 2,048              | 4,404                | 13,154             | 56,961  | 293,768                        | 353,795                         | (D)                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| INDUSTRY 3332.—PRIMARY LEAD                      |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                       | 10                | 10                                    | 2,578             | 14,997               | 2,125              | 4,106                | 11,156             | 24,876  | 228,906                        | 265,072                         | 964                                    | 3,563                     | 36,325  |
| INDUSTRY 3333.—PRIMARY ZINC                      |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                       | 18                | 18                                    | 8,065             | 47,760               | 6,575              | 13,245               | 36,238             | 98,789  | 173,473                        | 281,537                         | 4,734                                  | 8,923                     | 71,653  |
| South.....                                       | 8                 | 8                                     | 3,492             | 20,317               | 3,136              | 6,387                | 17,386             | 48,170  | 68,315                         | 121,296                         | 2,280                                  | 3,372                     | 33,277  |
| Oklahoma.....                                    | 3                 | 3                                     | 1,601             | 9,050                | 1,452              | 2,871                | 7,614              | 25,225  | 25,303                         | 51,134                          | 1,846                                  | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| All other divisions                              | 10                | 10                                    | 4,573             | 27,443               | 3,439              | 6,858                | 18,852             | 50,619  | 105,158                        | 160,241                         | 2,454                                  | 5,551                     | 38,376  |
| INDUSTRY 3334.—PRIMARY ALUMINUM                  |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                       | 23                | 22                                    | 18,133            | 134,116              | 14,459             | 29,487               | 101,399            | 499,576   | 571,940                        | 1,089,977                       | 62,172                                 | 17,381                    | 383,836   |
| West South Central.                              | 6                 | 6                                     | 6,436             | 47,066               | 5,270              | 10,734               | 36,236             | 168,107   | 167,711                        | 342,818                         | 6,043                                  | 6,803                     | 176,537   |
| West.....  | 8                 | 7                                     | 4,765             | 35,201               | 3,739              | 7,562                | 26,201             | 159,270   | 152,086                        | 315,170                         | 6,705                                  | 4,564                     | 110,958   |
| All other divisions.....                         | 9                 | 9                                     | 6,932             | 51,849               | 5,450              | 11,191               | 38,962             | 172,199   | 252,143                        | 431,989                         | 49,424                                 | 6,014                     | 96,341  |
| INDUSTRY 3339.—PRIMARY NONFERROUS METALS, N.E.C. |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                       | 35                | 26                                    | 5,064             | 34,807               | 3,782              | 8,148                | 24,701             | 103,830   | 115,519                        | 212,176                         | 6,435                                  | 2,658                     | 50,495  |
| Northeast.....                                   | 12                | 5                                     | 1,058             | 7,387                | 697                | 1,582                | 4,562              | 26,873  | 55,048                         | 73,272                          | 1,150                                  | 421                       | 6,551   |
| East North Central.                              | 7                 | 6                                     | 1,160             | 8,718                | 741                | 1,722                | 5,504              | 30,742  | 13,581                         | 42,653                          | 2,066                                  | 1,480                     | 36,106  |
| South.....                                       | 10                | 9                                     | 1,815             | 12,335               | 1,524              | 3,167                | 9,759              | 38,600  | 33,734                         | 70,454                          | 2,396                                  | 757                       | 7,838   |
| West.....  | 6                 | 6                                     | 1,031             | 6,367                | 820                | 1,677                | 4,876              | 7,615   | 13,156                         | 95,797                          | 823                                    |                           |   |
| INDUSTRY 3341.—SECONDARY NONFERROUS METALS       |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                       | 459               | 179                                   | 15,445            | 96,302               | 11,336             | 23,779               | 60,510             | 228,190   | 823,132                        | 1,045,522                       | 17,891                                 | 14,441                    | 147,262   |
| New England.....                                 | 35                | 9                                     | 380               | 2,325                | 246                | 560                  | 1,284              | 13,755  | 27,566                         | 41,025                          | 181                                    | 424                       | 8,145   |
| Middle Atlantic....                              | 144               | 49                                    | 5,269             | 32,426               | 3,731              | 7,636                | 19,811             | 71,470  | 284,215                        | 358,993                         | 7,937                                  | 4,298                     | 43,739  |
| New York.....                                    | 63                | 15                                    | 1,867             | 11,953               | 1,317              | 2,645                | 7,440              | 27,871  | 108,296                        | 134,428                         | 5,639                                  | 1,488                     | 10,965  |
| New Jersey.....                                  | 39                | 17                                    | 1,653             | 10,097               | 1,137              | 2,345                | 5,847              | 18,654  | 102,274                        | 126,607                         | 1,533                                  | 1,291                     | 11,316  |
| Pennsylvania.....                                | 42                | 17                                    | 1,749             | 10,376               | 1,277              | 2,656                | 6,524              | 24,955  | 73,645                         | 97,958                          | 765                                    | 1,519                     | 21,458  |
| East North Central.                              | 132               | 61                                    | 5,576             | 36,944               | 4,231              | 8,986                | 23,842             | 84,656  | 336,743                        | 415,759                         | 5,562                                  | 6,278                     | 64,011  |
| Ohio.....  | 38                | 20                                    | 1,562             | 10,765               | 1,231              | 2,718                | 7,246              | 26,101  | 85,920                         | 110,613                         | 1,611                                  | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Indiana.....                                     | 13                | 6                                     | 930               | 6,326                | 670                | 1,404                | 3,994              | 12,488  | 43,625                         | 55,208                          | 557                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Illinois.....                                    | 45                | 25                                    | 2,550             | 16,498               | 1,904              | 4,018                | 10,446             | 35,707  | 184,231                        | 216,815                         | 3,121                                  | 3,489                     | 35,992  |
| Michigan.....                                    | 27                | 8                                     | 436               | 2,695                | 341                | 708                  | 1,697              | 7,999   | 20,540                         | 28,370                          | 161                                    | 407                       | 2,466   |
| Wisconsin.....                                   | 9                 | 2                                     | 98                | 660                  | 85                 | 138                  | 459                | 2,361   | 2,427                          | 4,753                           | 112                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| West North Central.                              | 17                | 9                                     | 477               | 2,858                | 371                | 744                  | 1,659              | 5,141   | 23,941                         | 28,594                          | 469                                    | 482                       | 4,362   |
| Missouri.....                                    | 10                | 3                                     | 167               | 1,057                | 120                | 231                  | 522                | 2,532   | 7,079                          | 9,563                           | 85                                     | 185                       | 1,941   |
| South Atlantic.....                              | 25                | 10                                    | 761               | 4,335                | 591                | 1,297                | 3,008              | 13,704  | 36,056                         | 49,326                          | 1,303                                  | 543                       | 6,338   |
| Maryland.....                                    | 8                 | 3                                     | 208               | 1,185                | 144                | 358                  | 664                | 4,530   | 11,892                         | 16,503                          | (D)                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| East South Central.                              | 13                | 7                                     | 433               | 2,099                | 361                | 795                  | 1,486              | 4,782   | 14,448                         | 19,133                          | 456                                    | 190                       | 1,743   |
| Alabama.....                                     | 6                 | 3                                     | 296               | 1,436                | 245                | 521                  | 1,049              | 3,462   | 10,389                         | 13,888                          | 393                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                         | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958          |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|---------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |               |                                      |
| INDUSTRY 3341.—SECONDARY NONFERROUS METALS—Continued |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |               |                                      |
| West South Central.                                  | 21             | 11                                 | 760            | 3,716             | 639                | 1,346             | 2,766           | 10,938                               | 26,690            | 36,557             | 433                       | 552           | 2,843                                |
| Texas.....   | 11             | 6                                  | 505            | 2,574             | 413                | 864               | 1,857           | 8,006                                | 17,437            | 24,784             | 211                       | 363           | 1,422                                |
| Mountain.....  | 10             | 2                                  | 108            | 520               | 87                 | 183               | 368             | 921                                  | 1,916             | 2,858              | 19                        | 82            | 788                                  |
| Pacific.....   | 62             | 21                                 | 1,681          | 11,079            | 1,079              | 2,222             | 6,286           | 22,823                               | 71,557            | 93,277             | 1,531                     | 1,592         | 15,293                               |
| California.....                                      | 52             | 18                                 | 1,509          | 9,795             | 964                | 1,953             | 5,495           | 19,991                               | 62,624            | 81,213             | 875                       | 1,479         | 14,096                               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3331, Primary Copper: Middle Atlantic—New York, 3 (500-999); New Jersey, 4 (2,500-4,999); Pennsylvania, 1 (100-249); East North Central—Michigan, 3 (337); South Atlantic—Maryland, 2 (1,000-2,499); East South Central—Tennessee, 1 (20-99); West South Central—Texas, 2 (1,000-2,499); Mountain—Montana, 2 (1,000-2,499); New Mexico, 2 (100-249); Utah, 2 (1,000-2,499); Nevada, 1 (250-499); Pacific—Washington, 2 (500-999).

SIC 3332, Primary Lead: East North Central—Indiana, 1 (100-249); West North Central—Missouri, 1 (250-499); Nebraska, 1 (250-499); South Atlantic—Florida, 1 (20-99); West South Central—Texas, 1 (250-499); Mountain—Montana, 1 (100-249); Idaho, 1 (500-999); Utah, 1 (100-249); Pacific—California, 2 (250-499).

SIC 3333, Primary Zinc: Middle Atlantic—Pennsylvania, 2 (1,000-2,499); East North Central—Illinois, 2 (500-999); West North Central—Kansas, 1 (20-99); South Atlantic—West Virginia, 1 (100-249); West South Central—Arkansas, 1 (100-249); Texas, 2 (1,000-2,499); Mountain—Montana, 3 (500-999); Idaho, 1 (500-999); Utah, 1 (100-249).

SIC 3334, Primary Aluminum: Middle Atlantic—New York, 2 (1,000-2,499); East North Central—Ohio, 1 (1,000-2,499); Indiana, 1 (250-499); South Atlantic—West Virginia, 1 (500-999); North Carolina, 1 (250-499); East South Central—Tennessee, 2 (1,000-2,499); Alabama, 1 (1,000-2,499); West South Central—Arkansas, 2 (1,000-2,499); Louisiana, 1 (1,000-2,499); Texas, 3 (2,500-4,999); Mountain—Montana, 1 (500-999); Pacific—Washington, 5 (2,500-4,999); Oregon, 2 (500-999).

SIC 3339, Primary Nonferrous Metals, N.E.C.: New England—Massachusetts, 2 (1-19); Connecticut, 1 (100-249); Middle Atlantic—New York, 2 (20-99); New Jersey, 3 (20-99); Pennsylvania, 4 (819); East North Central—Ohio, 2 (500-999); Illinois, 2 (100-249); Michigan, 3 (179); South Atlantic—Florida, 1 (20-99); East South Central—Tennessee, 1 (250-499); Alabama, 1 (100-249); West South Central—Arkansas, 1 (1-19); Oklahoma, 2 (100-249); Texas, 4 (1,090); Mountain—Montana, 1 (20-99); Colorado, 1 (100-249); Nevada, 1 (20-99); Pacific—Washington, 1 (200-249); Oregon, 2 (500-999).

SIC 3341, Secondary Nonferrous Metals: New England—New Hampshire, 1 (1-19); Massachusetts, 16 (227); Rhode Island, 10 (20-99); Connecticut, 8 (20-99); West North Central—Minnesota, 3 (20-99); Iowa, 1 (1-19); Nebraska, 2 (20-99); Kansas, 1 (100-249); South Atlantic—Delaware, 1 (100-249); Virginia, 1 (20-99); North Carolina, 4 (20-99); South Carolina, 1 (1-19); Georgia, 4 (131); Florida, 6 (20-99); East South Central—Kentucky, 3 (1-19); Tennessee, 3 (20-99); Mississippi, 1 (20-99); West South Central—Arkansas, 5 (125); Louisiana, 3 (20-99); Oklahoma, 2 (20-99); Mountain—Colorado, 4 (20-99); Arizona, 4 (20-99); Utah, 2 (20-99); Pacific—Washington, 8 (100-249); Oregon, 2 (20-99).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.

TABLE 3. Detailed Statistics: 1963

| Item   | Primary copper<br>(SIC 3331) | Primary lead<br>(SIC 3332) | Primary zinc<br>(SIC 3333) | Primary aluminum<br>(SIC 3334) | Primary nonferrous<br>metals, n.e.c.<br>(SIC 3339) | Secondary<br>nonferrous<br>metals<br>(SIC 3341) |
|--|------------------------------|----------------------------|----------------------------|--------------------------------|--|---|
| Primary product specialization ratio <sup>1</sup> .....        | (3)                          | (3)                        | .92                        | 1.00                           | .83  | .94   |
| Coverage ratio <sup>2</sup> .....                              | (3)                          | (3)                        | .81                        | .75                            | .39  | .26   |
| Establishments, total.....number..                             | 33                           | 10                         | 18                         | 23                             | 35   | 459   |
| With 1 to 19 employees.....do....                              | -                            | -                          | -                          | 1                              | 9  | 280   |
| With 20 to 99 employees.....do....                             | 4                            | 1                          | 2                          | 1                              | 11   | 136   |
| With 100 employees or more.....do....                          | 29                           | 9                          | 16                         | 21                             | 15   | 43  |
| Proprietors and working partners.....do....                    | 2                            | -                          | -                          | -                              | 1  | 174   |
| All employees (average for the year).....do....                | 14,949                       | 2,578                      | 8,065                      | 18,133                         | 5,064  | 15,445  |
| Payroll (all employees), total for year.....\$1,000..          | 96,134                       | 14,997                     | 47,760                     | 134,116                        | 34,807   | 96,302  |
| Production workers:  |                              |                            |                            |                                |  |   |
| Average for the year.....number..                              | 12,711                       | 2,125                      | 6,575                      | 14,459                         | 3,782  | 11,336  |
| March.....do....   | 12,702                       | 1,986                      | 6,549                      | 13,152                         | 3,806  | 11,212  |
| May.....do....   | 12,826                       | 1,921                      | 6,565                      | 14,166                         | 3,747  | 11,343  |
| August.....do....  | 12,746                       | 2,210                      | 6,469                      | 15,167                         | 3,817  | 11,319  |
| November.....do....  | 12,556                       | 2,383                      | 6,719                      | 15,351                         | 3,761  | 11,449  |
| Man-hours.....1,000..  | 25,846                       | 4,106                      | 13,245                     | 29,487                         | 8,148  | 23,779  |
| January-March.....do....                                       | 6,488                        | 946                        | 3,293                      | 6,706                          | 2,069  | 5,847   |
| April-June.....do....  | 6,564                        | 1,011                      | 3,285                      | 7,233                          | 2,034  | 6,007   |
| July-September.....do....                                      | 6,292                        | 1,031                      | 3,215                      | 7,701                          | 2,029  | 5,836   |
| October-December.....do....                                    | 6,502                        | 1,118                      | 3,452                      | 7,847                          | 2,020  | 6,089   |
| Wages.....\$1,000..  | 77,938                       | 11,156                     | 36,238                     | 101,399                        | 24,701   | 60,510  |
| Cost of materials, etc., total.....do....                      | 969,974                      | 228,906                    | 173,473                    | 571,940                        | 115,519  | 823,132   |
| Materials, parts, containers, and supplies consumed.....do.... | 928,334                      | 222,289                    | 151,884                    | 434,328                        | 101,206  | 676,580   |
| Cost of resales.....do....                                     | 556                          | 12                         | 798                        | 7,268                          | 1,655  | 125,853   |
| Fuels consumed.....do....                                      | 20,266                       | 5,777                      | 11,236                     | 29,510                         | 2,306  | 10,081  |
| Electric energy:   |                              |                            |                            |                                |  |   |
| Purchased:   |                              |                            |                            |                                |  |   |
| Quantity.....million kw.-hrs..                                 | 996                          | 97                         | 1,343                      | 28,262                         | 1,661  | 320   |
| Cost.....\$1,000..   | 7,697                        | 828                        | 7,453                      | 99,708                         | 7,680  | 4,167   |
| Generated less sold.....million kw.-hrs..                      | 177                          | (D)                        | (D)                        | 10,174                         | -  | -   |
| Contract work.....\$1,000..                                    | 13,121                       | -                          | 2,102                      | 1,126                          | 2,672  | 6,451   |
| Value of shipments (including resales), total.....do....       | 1,245,457                    | 265,072                    | 281,537                    | 1,089,977                      | 212,176  | 1,045,522                                       |
| Value of resales.....do....                                    | 556                          | 5                          | 894                        | 12,884                         | 3,382  | 139,311   |
| Value added by manufacture, adjusted.....do....                | 285,510                      | 24,876                     | 98,789                     | 499,576                        | 103,830  | 228,190   |
| Manufacturers' inventories:                                    |                              |                            |                            |                                |  |   |
| Beginning of year, total.....do....                            | 160,955                      | 62,210                     | 56,871                     | 123,754                        | 46,379   | 123,983   |
| Finished products.....do....                                   | 60,163                       | 29,922                     | 22,015                     | 40,936                         | 10,620   | 58,429  |
| Work-in-process.....do....                                     | 80,921                       | 26,955                     | 11,745                     | 33,017                         | 22,906   | 34,217  |
| Materials, supplies, fuel, etc.....do....                      | 19,871                       | 5,333                      | 23,111                     | 49,801                         | 12,853   | 31,337  |
| End of year, total.....do....                                  | 166,368                      | 50,016                     | 46,003                     | 106,479                        | 55,843   | 143,083   |
| Finished products.....do....                                   | 44,362                       | 16,457                     | 12,648                     | 20,777                         | 21,415   | 66,341  |
| Work-in-process.....do....                                     | 106,749                      | 29,130                     | 11,837                     | 34,715                         | 19,284   | 32,105  |
| Materials, supplies, fuel, etc.....do....                      | 15,257                       | 4,429                      | 21,518                     | 50,987                         | 15,144   | 44,637  |
| Expenditures for plant and equipment, total.....do....         | 13,288                       | 987                        | 4,755                      | 63,391                         | 6,652  | 18,982  |
| New, total.....do....  | 13,134                       | 964                        | 4,734                      | 62,172                         | 6,435  | 17,891  |
| New structures and additions to plant.....do....               | 3,497                        | 115                        | 1,155                      | 29,070                         | 649  | 5,324   |
| New machinery and equipment.....do....                         | 9,637                        | 849                        | 3,579                      | 33,102                         | 5,786  | 12,567  |
| Used plant and equipment.....do....                            | 154                          | 23                         | 21                         | 1,219                          | 217  | 1,091   |
| Selected operating ratios:                                     |                              |                            |                            |                                |  |   |
| Payroll/Total employment.....                                  | 6,431                        | 5,817                      | 5,922                      | 7,396                          | 6,873  | 6,235   |
| Production workers/Total employment.....                       | .85                          | .82                        | .82                        | .80                            | .75  | .73   |
| Man-hours/Production workers.....                              | 2,033                        | 1,932                      | 2,014                      | 2,039                          | 2,154  | 2,098   |
| Production worker wages/Man-hours.....                         | 3.02                         | 2.72                       | 2.74                       | 3.44                           | 3.03   | 2.54  |
| Cost of materials and payrolls/Total value of shipments.....   | .86                          | .92                        | .79                        | .65                            | .71  | .88   |
| Cost of materials/Total value of shipments.....                | .78                          | .86                        | .62                        | .52                            | .54  | .79   |
| Adjusted value added/Total employment.....                     | 19,099                       | 9,649                      | 12,249                     | 27,551                         | 20,504   | 14,760  |
| Salaries and wages/Adjusted value added.....                   | .34                          | .60                        | .48                        | .27                            | .34  | .42   |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

<sup>3</sup>Omitted because of extensive duplication of value of shipments and cost of materials. The duplication varies because products shipped by some establishments are consumed as materials by other establishments in the same industry.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item   | Establishments, total | Establishments with an average of- |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3331.—PRIMARY COPPER                    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 33                    | -                                  | -                | -                  | 3                  | 1                  | 11                   | 6                    | 8                    | 4                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 14,949                | -                                  | -                | -                  | <u>1,945</u>       | (D)                | (D)                  | 2,064                | 5,826                | 5,114                    | -                        |
| Payroll.....\$1,000..                            | 96,134                | -                                  | -                | -                  | <u>13,252</u>      | (D)                | (D)                  | 12,493               | 36,188               | 34,201                   | -                        |
| Value added, adjusted.....do....                 | 285,510               | -                                  | -                | -                  | <u>64,790</u>      | (D)                | (D)                  | 45,317               | 119,034              | 56,369                   | -                        |
| Value of shipments.....do....                    | 1,245,457             | -                                  | -                | -                  | <u>367,750</u>     | (D)                | (D)                  | 241,734              | 401,768              | 234,205                  | -                        |
| Capital expenditures, new...do....               | 13,134                | -                                  | -                | -                  | <u>1,989</u>       | (D)                | (D)                  | 1,143                | 5,111                | 4,891                    | -                        |
| INDUSTRY 3332.—PRIMARY LEAD                      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 10                    | -                                  | -                | -                  | 1                  | -                  | 4                    | 4                    | 1                    | -                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 2,578                 | -                                  | -                | -                  | <u>2,578</u>       | -                  | (D)                  | (D)                  | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                            | 14,997                | -                                  | -                | -                  | <u>14,997</u>      | -                  | (D)                  | (D)                  | (D)                  | -                        | -                        |
| Value added, adjusted.....do....                 | 24,876                | -                                  | -                | -                  | <u>24,876</u>      | -                  | (D)                  | (D)                  | (D)                  | -                        | -                        |
| Value of shipments.....do....                    | 265,072               | -                                  | -                | -                  | <u>265,072</u>     | -                  | (D)                  | (D)                  | (D)                  | -                        | -                        |
| Capital expenditures, new...do....               | 964                   | -                                  | -                | -                  | <u>964</u>         | -                  | (D)                  | (D)                  | (D)                  | -                        | -                        |
| INDUSTRY 3333.—PRIMARY ZINC                      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 18                    | -                                  | -                | -                  | 1                  | 1                  | 4                    | 5                    | 5                    | 2                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 8,065                 | -                                  | -                | -                  | <u>669</u>         | (D)                | (D)                  | 1,944                | <u>5,452</u>         | (D)                      | -                        |
| Payroll.....\$1,000..                            | 47,760                | -                                  | -                | -                  | <u>3,605</u>       | (D)                | (D)                  | 11,548               | <u>32,607</u>        | (D)                      | -                        |
| Value added, adjusted.....do....                 | 98,789                | -                                  | -                | -                  | <u>4,837</u>       | (D)                | (D)                  | 19,610               | <u>74,342</u>        | (D)                      | -                        |
| Value of shipments.....do....                    | 281,537               | -                                  | -                | -                  | <u>25,485</u>      | (D)                | (D)                  | 69,138               | <u>186,914</u>       | (D)                      | -                        |
| Capital expenditures, new...do....               | 4,734                 | -                                  | -                | -                  | <u>981</u>         | (D)                | (D)                  | (D)                  | <u>3,753</u>         | (D)                      | -                        |
| INDUSTRY 3334.—PRIMARY ALUMINUM                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 23                    | -                                  | 1                | -                  | 1                  | -                  | -                    | 5                    | 10                   | 6                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 18,133                | -                                  | <u>9,073</u>     | -                  | (D)                | -                  | -                    | (D)                  | (D)                  | 9,060                    | -                        |
| Payroll.....\$1,000..                            | 134,116               | -                                  | <u>66,312</u>    | -                  | (D)                | -                  | -                    | (D)                  | (D)                  | 67,804                   | -                        |
| Value added, adjusted.....do....                 | 499,576               | -                                  | <u>249,039</u>   | -                  | (D)                | -                  | -                    | (D)                  | (D)                  | 250,537                  | -                        |
| Value of shipments.....do....                    | 1,089,977             | -                                  | <u>603,906</u>   | -                  | (D)                | -                  | -                    | (D)                  | (D)                  | 486,071                  | -                        |
| Capital expenditures, new...do....               | 62,172                | -                                  | <u>54,095</u>    | -                  | (D)                | -                  | -                    | (D)                  | (D)                  | 8,076                    | -                        |
| INDUSTRY 3339.—PRIMARY NONFERROUS METALS, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 35                    | 5                                  | 2                | 2                  | 5                  | 6                  | 8                    | 4                    | 3                    | -                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 5,064                 | <u>222</u>                         | (D)              | (D)                | (D)                | 411                | 1,123                | 1,309                | 1,999                | -                        | -                        |
| Payroll.....\$1,000..                            | 34,807                | <u>1,499</u>                       | (D)              | (D)                | (D)                | 2,821              | 6,965                | 9,043                | 14,479               | -                        | -                        |
| Value added, adjusted.....do....                 | 103,830               | <u>15,939</u>                      | (D)              | (D)                | (D)                | 5,907              | 15,329               | 19,826               | 46,829               | -                        | -                        |
| Value of shipments.....do....                    | 212,176               | <u>53,862</u>                      | (D)              | (D)                | (D)                | 12,153             | 32,036               | 39,601               | 74,524               | -                        | -                        |
| Capital expenditures, new...do....               | 6,435                 | <u>600</u>                         | (D)              | (D)                | (D)                | 881                | 1,201                | 881                  | 2,872                | -                        | -                        |
| INDUSTRY 3341.—SECONDARY NONFERROUS METALS       |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 459                   | 149                                | 72               | 59                 | 93                 | 43                 | 38                   | 4                    | 1                    | -                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 15,445                | 310                                | 494              | 804                | 3,004              | 2,960              | 5,913                | <u>1,960</u>         | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                            | 96,302                | 1,685                              | 2,526            | 4,645              | 18,512             | 18,280             | 37,721               | <u>12,933</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....                 | 228,190               | 5,205                              | 8,442            | 13,067             | 63,335             | 36,768             | 79,536               | <u>21,837</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....                    | 1,045,522             | 16,791                             | 20,228           | 45,816             | 210,730            | 179,924            | 450,922              | <u>121,111</u>       | (D)                  | -                        | -                        |
| Capital expenditures, new...do....               | 17,891                | 778                                | 363              | 556                | 5,054              | 1,500              | 7,096                | <u>2,544</u>         | (D)                  | -                        | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left. n.e.c. Not elsewhere classified.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                  | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|---|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |   | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |   | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B.C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |   | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3331      | Primary copper.....1963..                 | 1,245,457          | 1,048,923        | 103,474            | 93,060                 | ( <sup>1</sup> )                     | 1,297,102                          | 1,048,923             | 248,179                  | ( <sup>1</sup> )              |
|           | 1958..                                    | 861,087            | 714,995          | 72,996             | 73,096                 | ( <sup>1</sup> )                     | 877,421                            | (NA)                  | (NA)                     | (NA)                          |
| 3332      | Primary lead.....1963..                   | 265,072            | (D)              | (D)                | 7,036                  | ( <sup>1</sup> )                     | (D)                                | (D)                   | (D)                      | ( <sup>1</sup> )              |
|           | 1958..                                    | 316,934            | (D)              | (D)                | (D)                    | ( <sup>1</sup> )                     | (D)                                | (D)                   | (D)                      | ( <sup>1</sup> )              |
| 3333      | Primary zinc.....1963..                   | 281,537            | 250,997          | 20,706             | 9,834                  | 92                                   | 308,538                            | 250,997               | 57,541                   | <sup>2</sup> 81               |
|           | 1958..                                    | 208,993            | 176,632          | 19,441             | 12,920                 | 90                                   | 232,513                            | 176,632               | 55,881                   | 76                            |
| 3334      | Primary aluminum.....1963..               | 1,089,977          | 1,069,606        | -                  | 20,371                 | 100                                  | 1,420,182                          | 1,069,606             | 350,576                  | <sup>3</sup> 75               |
|           | 1958..                                    | 808,822            | 800,011          | -                  | 8,811                  | 100                                  | 1,057,801                          | 800,011               | 257,790                  | 76                            |
| 3339      | Primary nonferrous metals, n.e.c...1963.. | 212,176            | 170,039          | 34,841             | 7,296                  | 83                                   | 439,385                            | 170,039               | 269,346                  | <sup>4</sup> 39               |
|           | 1958..                                    | 96,565             | 87,131           | 7,536              | 1,898                  | 92                                   | 362,694                            | 87,131                | 275,563                  | 24                            |
| 3341      | Secondary nonferrous metals.....1963..    | 1,045,522          | 813,932          | 54,717             | 176,873                | 94                                   | 3,102,519                          | 813,932               | 2,288,587                | <sup>5</sup> 26               |
|           | 1958..                                    | 724,013            | 563,138          | 45,562             | 115,313                | 93                                   | 1,859,159                          | 563,138               | 1,296,021                | 30                            |

NOTE: See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>Specialization and coverage ratios have not been calculated for industries 3331, Primary Copper, and 3332, Primary Lead, because the shipments of primary products for these industries contain extensive duplication.

<sup>2</sup>Included in this industry is refined zinc which is also primary to industry 3341, Secondary Nonferrous Metals. A coverage ratio computed on the basis of including both industries to which refined zinc is primary would total 96 percent; 81 percent by industry 3333 and 15 percent by industry 3341. The remainder was shipped by establishments in other industries.

<sup>3</sup>Included in this industry are aluminum-base alloys which are also primary to industry 3341, Secondary Nonferrous Metals, and industry 3352, Aluminum Rolling and Drawing. A coverage ratio computed on the basis of including all three industries to which aluminum-base alloys are primary would total 96 percent; 75 percent by industry 3334, 17 percent by industry 3341, and 4 percent by industry 3352. The remainder was shipped by establishments in other industries.

<sup>4</sup>Included in this industry are refined nonferrous alloys, n.e.c., which are also primary to industry 3341, Secondary Nonferrous Metals. A coverage ratio computed on the basis of including both industries to which refined nonferrous alloys, n.e.c., are primary would total 59 percent; 39 percent by industry 3339, and 20 percent by industry 3341. The remaining 41 percent was shipped by establishments classified in other industries.

<sup>5</sup>Included in this industry are refined copper, lead, zinc, aluminum, precious metals, and other nonferrous metals. Each of these product classes is also primary to the comparable primary smelting and refining industry in Group 333. A coverage ratio computed on the basis of including both industries to which the classes are primary would total 89 percent; 26 percent by industry 3341, and 63 percent by primary nonferrous smelters and refiners. The remaining 11 percent was shipped by establishments in other industries.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c)

miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                                   | Class of products and miscellaneous receipts  | All industries           | Primary copper (SIC 3331) | Secondary nonferrous metals (SIC 3341) | Other industries      |
|--|---|--------------------------|---------------------------|--|-----------------------|
| <b>PRIMARY COPPER INDUSTRY</b>                     |   |                          |                           |  |                       |
|  | Total shipments and receipts of the industry.....   | (X)                      | <sup>1</sup> 1,245,457    | (X)                                    | (X)                   |
|  | Primary products.....   | <sup>1</sup> 1,297,102   | <sup>1</sup> 1,048,923    | (D)                                    | (D)                   |
| 33311  | Copper smelter products.....  | 628,508                  | 627,482                   | (D)                                    | (D)                   |
| 33312  | Refined primary copper.....   | <sup>2</sup> 668,594     | 421,441                   | 222,016                                | 25,137                |
|  | Secondary products.....   | (X)                      | 103,474                   | (X)                                    | (X)                   |
| 28199  | Reagent and high purity grades of inorganic chemicals and other inorganic chemicals, n.e.c. | (X)                      | 5,763                     | (X)                                    | (X)                   |
| 33395  | Precious metals (primary smelting).....   | (X)                      | 86,092                    | (X)                                    | (X)                   |
| 33397  | Other primary nonferrous metals, including magnesium, smelted or refined.....               | (X)                      | 6,964                     | (X)                                    | (X)                   |
|  | All other products.....   | (X)                      | <sup>3</sup> 4,655        | (X)                                    | (X)                   |
|  | Miscellaneous receipts.....   | (X)                      | 93,060                    | (X)                                    | (X)                   |
|  | Smelting and refining materials owned by others on a toll basis.....                        | (X)                      | 89,191                    | (X)                                    | (X)                   |
|  | All other receipts.....   | (X)                      | 3,869                     | (X)                                    |                       |
| <b>PRIMARY LEAD INDUSTRY</b>                       |   |                          |                           |  |                       |
|  | Total shipments and receipts of the industry.....   | (X)                      | <sup>1</sup> 265,072      | (X)                                    | (X)                   |
|  | Primary products.....   | (D)                      | (D)                       | (D)                                    | (D)                   |
| 33321  | Lead smelter products.....  | (D)                      | (D)                       | (D)                                    | (D)                   |
| 33323  | Refined lead.....   | <sup>4</sup> 276,388     | 74,457                    | 191,445                                | <sup>5</sup> 10,486   |
|  | Secondary products.....   | (X)                      | (D)                       | (X)                                    | (X)                   |
|  | Miscellaneous receipts.....   | (X)                      | 67,036                    | (X)                                    | (X)                   |
| <b>PRIMARY ZINC INDUSTRY</b>                       |   |                          |                           |  |                       |
|  | Total shipments and receipts of the industry.....   | (X)                      | 281,537                   | (X)                                    | (X)                   |
|  | Primary products.....   | <sup>7</sup> 308,538     | 250,997                   | 45,122                                 | 12,419                |
| 33331  | Zinc residues and other zinc smelter products.....  | 34,798                   | 20,712                    | 1,877                                  | 12,209                |
| 33334  | Refined primary zinc products.....  | <sup>7</sup> 273,740     | 230,285                   | 43,245                                 | 210                   |
|  | Secondary products.....   | (X)                      | 20,706                    | (X)                                    | (X)                   |
| 28193  | Sulfuric acid.....  | (X)                      | 5,655                     | (X)                                    | (X)                   |
| 33397  | Other primary nonferrous metals, including magnesium, smelted or refined.....               | (X)                      | 9,745                     | (X)                                    | (X)                   |
|  | All other products.....   | (X)                      | <sup>8</sup> 5,306        | (X)                                    | (X)                   |
|  | Miscellaneous receipts.....   | (X)                      | 69,834                    | (X)                                    | (X)                   |
| <b>PRIMARY ALUMINUM INDUSTRY</b>                   |   |                          |                           |  |                       |
|  | Total shipments and receipts of the industry.....   | (X)                      | 1,089,977                 | (X)                                    | (X)                   |
|  | Primary products.....   | <sup>9</sup> 1,420,182   | 1,069,606                 | 244,539                                | 106,037               |
| 33347  | Aluminum ingot, produced in primary aluminum reduction plants.....                          | <sup>10</sup> 1,234,704  | 946,808                   | 230,687                                | <sup>11</sup> 57,209  |
| 33348  | Aluminum extrusion billet, produced in primary aluminum reduction plants.....               | <sup>12</sup> 185,478    | 122,798                   | 13,852                                 | <sup>13</sup> 48,828  |
|  | Miscellaneous receipts.....   | (X)                      | <sup>14</sup> 20,371      | (X)                                    | (X)                   |
| <b>PRIMARY NONFERROUS METALS, N.E.C., INDUSTRY</b> |   |                          |                           |  |                       |
|  | Total shipments and receipts of the industry.....   | (X)                      | 212,176                   | (X)                                    | (X)                   |
|  | Primary products.....   | <sup>15</sup> 164,39,385 | 170,039                   | 88,457                                 | 180,889               |
| 33395  | Precious metals (primary smelting).....   | <sup>15</sup> 246,426    | 170,039                   | 58,978<br>29,479                       | <sup>17</sup> 180,889 |
| 33397  | Other primary nonferrous metals, including magnesium, smelted or refined.....               | <sup>16</sup> 192,959    |                           |  |                       |
|  | Secondary products.....   | (X)                      | 34,841                    | (X)                                    | (X)                   |
| 28199  | Reagent and high purity grades of inorganic chemicals and other inorganic chemicals, n.e.c. | (X)                      | 6,042                     | (X)                                    | (X)                   |
| 33560  | Rolled, drawn, and extruded nonferrous metal mill products (except copper and aluminum).... | (X)                      | 7,591                     | (X)                                    | (X)                   |
|  | All other products.....   | (X)                      | <sup>18</sup> 21,208      | (X)                                    | (X)                   |
|  | Miscellaneous receipts.....   | (X)                      | <sup>14</sup> 7,296       | (X)                                    | (X)                   |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code                     | Class of products and miscellaneous receipts  | All industries          | Secondary nonferrous metals (SIC 3341) | Other industries        |
|--------------------------------------|---|-------------------------|--|-------------------------|
| SECONDARY NONFERROUS METALS INDUSTRY |   |                         |  |                         |
|                                      | Total shipments and receipts of the industry.....   | (X)                     | 1,045,522                              | (X)                     |
|                                      | Primary products.....   | 3,102,519               | 813,932                                | 2,288,587               |
| 33412                                | Secondary copper (ingot, shot, etc.).....   | <sup>19</sup> 668,594   | 222,016                                | <sup>20</sup> 446,578   |
| 33413                                | Secondary lead (ingot, shot, etc.).....   | <sup>21</sup> 276,388   | 191,445                                | <sup>22</sup> 184,943   |
| 33414                                | Secondary zinc (ingot, shot, etc.).....   | <sup>23</sup> 273,740   | 43,245                                 | <sup>24</sup> 230,495   |
| 33415                                | Precious metals produced by secondary refineries (pig, ingot, shot, etc.).....              | <sup>25</sup> 246,426   | 58,978                                 | <sup>26</sup> 187,448   |
| 33416                                | Other secondary nonferrous metals (pig, ingot, shot, etc.).....                             | <sup>27</sup> 192,959   | 29,479                                 | <sup>26</sup> 163,480   |
| 33417                                | Aluminum ingot produced by secondary smelters.....  | <sup>28</sup> 1,234,704 | 230,687                                | <sup>29</sup> 1,004,017 |
| 33418                                | Aluminum extrusion billet, produced by secondary smelters.....                              | <sup>30</sup> 185,478   | 13,852                                 | <sup>29</sup> 171,626   |
| 33410                                | Secondary smelting, refining, and alloying of nonferrous metals and alloys.....             | 24,230                  | 24,230                                 | -                       |
|                                      | Secondary products.....   | (X)                     | 54,717                                 | (X)                     |
| 28199                                | Reagent and high purity grades of inorganic chemicals and other inorganic chemicals, n.e.c. | (X)                     | 8,827                                  | (X)                     |
| 33560                                | Nonferrous rolling and drawing, n.e.c.....  | (X)                     | 16,507                                 | (X)                     |
|                                      | All other products.....   | (X)                     | 29,383                                 | (X)                     |
|                                      | Miscellaneous receipts.....   | (X)                     | 176,873                                | (X)                     |
|                                      | Value of resales.....   | (X)                     | 139,311                                | (X)                     |
|                                      | Scrap and salable refuse.....   | (X)                     | 16,882                                 | (X)                     |
|                                      | Receipts for smelting and refining materials owned by others on a toll basis.....           | (X)                     | 13,396                                 | (X)                     |
|                                      | All other receipts.....   | (X)                     | 7,284                                  | (X)                     |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>Value of shipments for this industry, or group of products, includes extensive duplication arising from shipments between establishments in the same industry classification. For further explanation see appendix A, "Value of Shipments."

<sup>2</sup>Includes total for product class 33412, Secondary copper (ingot, shot, etc.), which is primary to industry 3341.

<sup>3</sup>Includes product class 28193, Sulfuric acid, which totals \$2 million or more but is withheld to avoid disclosing individual company figures.

<sup>4</sup>Includes total for product class 33413, Secondary lead (ingot, shot, etc.), which is primary to industry 3341.

<sup>5</sup>Represents mainly industry 3356, Rolling and Drawing, N.E.C.

<sup>6</sup>Represents mainly receipts received for smelting or refining metal on a toll basis.

<sup>7</sup>Includes total for product class 33414, Secondary zinc (ingot, shot, etc.), which is primary to industry 3341.

<sup>8</sup>Includes product class 28162, Other white opaque pigments, which totals \$2 million or more, but is withheld to avoid disclosing individual company figures.

<sup>9</sup>Includes total for product class 33417, Aluminum ingot produced by secondary smelters, which is primary to industry 3341; and product class 33527, Aluminum ingot, produced in aluminum rolling mills, which is primary to industry 3352.

<sup>10</sup>Includes total for product class 33417, Aluminum ingot produced by secondary smelters which is primary to industry 3341; and product class 33527, Aluminum ingot produced in aluminum rolling mills, which is primary to industry 3352.

<sup>11</sup>Includes \$49,024 thousand shipped by industry 3352, Aluminum Rolling and Drawing.

<sup>12</sup>Includes total for product class 33418, Aluminum extrusion billet, produced by secondary refiners, which is primary to industry 3341; and product class 33528, Aluminum extrusion billet, produced in aluminum rolling mills, which is primary to industry 3352.

<sup>13</sup>Includes \$48,745 thousand shipped by industry 3352, Aluminum Rolling and Drawing.

<sup>14</sup>Represents mainly resales.

<sup>15</sup>Includes total for product class 33415, Precious metals, produced by secondary refiners (pig, ingot, shot, etc.) primary to industry 3341.

<sup>16</sup>Includes total for product class 33416, Other secondary nonferrous metals (pig, ingot, shot, etc.), which is primary to industry 3341.

<sup>17</sup>Includes \$2.6 million shipped by industry 2819, Inorganic Chemicals, N.E.C.; \$2.8 million shipped by industry 3356, Rolling and Drawing, N.E.C.; \$93 million shipped by industry 3331, Primary Copper; and \$9.7 million shipped by industry 3333, Primary Zinc. In addition, industry 3332, Primary Lead, had shipments which totaled \$2 million or more, but is withheld to avoid disclosing figures for individual companies.

<sup>18</sup>Includes the following product classes which total \$2 million or more, but are withheld to avoid disclosing individual company figures: 33412, Secondary copper (ingot, shot, etc.); and 33417, Aluminum ingot produced by secondary smelters.

<sup>19</sup>Includes total for product class 33312, Refined primary copper, made in Primary Copper Industry, which is primary to industry 3331.

<sup>20</sup>See also industry 3331 above.

<sup>21</sup>Includes total for product class 33334, Refined primary lead, made in Primary Lead Industry, which is primary to industry 3332.

<sup>22</sup>See also industry 3332 above.

<sup>23</sup>Includes total for product class 33334, Refined primary zinc products, made in Primary Zinc Industry, which is primary to industry 3333.

<sup>24</sup>See also industry 3333 above.

<sup>25</sup>Includes total for product class 33395, Precious metals (primary smelting), made in Primary Nonferrous Metals, N.E.C., Industry, which is primary to industry 3339.

<sup>26</sup>See also industry 3339 above.

<sup>27</sup>Includes total for product class 33397, Other primary nonferrous metals, including magnesium, smelted or refined, made in Primary Nonferrous Metals, N.E.C., Industry, which is primary to industry 3339.

<sup>28</sup>Includes total for product class 33347, Aluminum ingot, produced in primary aluminum reduction plants, which is primary to industry 3334, and product class 33527, Aluminum ingot, produced in aluminum rolling mills, which is primary to industry 3352.

<sup>29</sup>See also industry 3334 above.

<sup>30</sup>Includes total for product class 33348, Aluminum extrusion billet, produced in primary aluminum reduction plants, which is primary to industry 3334, and product class 33528, Aluminum extrusion billet, produced in aluminum rolling mills which is primary to industry 3352.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product  | Total production <sup>2</sup><br>(gross weight) | Shipments including interplant transfers <sup>1</sup> |                    |                                  |                    |   |                    | Shipments of products made from materials owned by others <sup>3</sup><br>(gross weight) | Produced and consumed in the same plant in manufacture of other products<br>(gross weight) |
|--------------|--|---|---|--------------------|----------------------------------|--------------------|---|--------------------|--|--|
|              |  |   | Total   |                    | Shipments to all other companies |                    | Transfers to other plants of the same company |                    |  |  |
|              |  |   | Quantity<br>(gross weight)                            | Value<br>(\$1,000) | Quantity<br>(gross weight)       | Value<br>(\$1,000) | Quantity<br>(gross weight)                    | Value<br>(\$1,000) |  |  |
|              | 1963   | (short tons)                                    | (short tons)  |                    |                                  | (short tons)       |   | (short tons)       | (short tons)   |  |
| 3331- --     | PRIMARY COPPER, TOTAL.....   | (X)   | (X)   | 1,297,102          |                                  | (X)                | (X)   | (X)                | (X)  |  |
| 33311 --     | Copper smelter products.....   | (X)   | (X)   | 628,508            |                                  | (D)                | (D)   | (D)                | (X)  |  |
| 33311 11     | Blister or anode copper.....   | 1,497,106                                       | 1,068,929   | 614,640            | 439,875                          | 259,859            | 629,054                                       | 354,781            | 360,106  |  |
| 33311 51     | Matte, speiss, flue dust, residues, etc.....                         | 92,812  | 33,655  | 13,868             | (D)                              | (D)                | (D)   | (D)                | 4,562  |  |
| 33312 --     | Refined copper.....  | (X)   | (X)   | 668,594            | (D)                              | (D)                | (D)   | (D)                | (X)  |  |
| 33312 --     | Made by primary copper refiners (industry 3331).....                 | 1,796,830                                       | 640,657   | 421,441            | (D)                              | (D)                | (D)   | (D)                | (X)  |  |
| 33412 --     | Made by secondary refiners (industry 3341) and other industries..... | (X)   | (X)   | 247,153            | (D)                              | (D)                | (D)   | (D)                | (X)  |  |
| 33312 11     | Copper unalloyed.....  | 1,858,784                                       | 725,392   | 470,328            | 725,392                          | 470,328            | -   | -                  | 1,180,224  |  |
| 33312 15     | Copper-base alloys.....  | 290,447   | 305,325   | 196,778            | (D)                              | (D)                | (D)   | (D)                | 3,561  |  |
| 33412 31     | Refined primary copper, n.s.k..                                      | (X)   | (X)   | 1,488              | (X)                              | 1,488              | (X)   | -                  | (X)  |  |
| 33312 00     | Refined primary copper, n.s.k..                                      | (X)   | (X)   | 1,488              | (X)                              | 1,488              | (X)   | -                  | (X)  |  |
| 3332- --     | PRIMARY LEAD, TOTAL.....   | (NA)  | (NA)  | (D)                | (NA)                             | (NA)               | (NA)  | (NA)               | (NA)   |  |
| 33321 --     | Lead smelter products.....   | (D)   | (D)   | (D)                | (D)                              | (D)                | (D)   | (D)                | (D)  |  |
| 33321 11     | Base bullion.....  | 279,728   | (D)   | (D)                | (D)                              | (D)                | (D)   | (D)                | (D)  |  |
| 33321 51     | Matte speiss, etc.....   | 132,374   | (D)   | (D)                | (D)                              | (D)                | (D)   | (D)                | (D)  |  |
| 33323 --     | Refined lead.....  | (X)   | (X)   | 276,388            | (X)                              | 256,683            | (X)   | 19,705             | (D)  |  |
| 33323 --     | Made by primary lead refiners (industry 3332).....                   | (X)   | (X)   | 74,457             | (X)                              | (D)                | (X)   | (D)                | (D)  |  |
| 33413 --     | Made by secondary refiners (industry 3341).....                      | (X)   | (X)   | 191,445            | (X)                              | (D)                | (X)   | (D)                | (D)  |  |
| 33413 --     | All other industries.....  | (X)   | (X)   | 10,486             | (X)                              | (D)                | (X)   | (D)                | (D)  |  |
| 33323 11     | Refined unalloyed lead.....  | 629,806   | 443,713   | 98,461             | 421,737                          | 93,685             | 21,976  | 4,776              | (D)  |  |
| 33323 11     | Made in industry 3332.....   | 492,674   | 312,097   | 68,589             | 421,737                          | 93,685             | 21,976  | 4,776              | (D)  |  |
| 33413 11     | All other industries.....  | 137,132   | 131,616   | 29,872             |                                  |                    |   |                    | (D)  |  |
| 33413 11     | Made in industry 3341.....   |   |   |                    |                                  |                    |   |                    | (D)  |  |
| 33323 11     | Lead- and tin-base alloys <sup>4</sup> .....                         | 519,513   | 478,981   | 172,842            | (D)                              | (D)                | (D)   | (D)                | (D)  |  |
| 33323 11     | Made in industry 3332.....   | 519,513   | 478,981   | 172,842            | (D)                              | (D)                | (D)   | (D)                | (D)  |  |
| 33413 11     | Made in industry 3341.....   |   |   |                    |                                  |                    |   |                    | (D)  |  |
| 33413 11     | All other industries.....  |   |   |                    |                                  |                    |   |                    | (D)  |  |
| 33323 31     | Antimonial lead.....   | 329,344   | 306,686   | 72,720             | 265,217                          | 62,657             | 41,469  | 10,063             | 18,508   |  |
| 33413 21     | Antimonial lead.....   |   |   |                    |                                  |                    |   |                    | (D)  |  |
| 33323 33     | Babbitt metal.....   | 14,389  | 13,423  | 9,171              | (D)                              | (D)                | (D)   | (D)                | (D)  |  |
| 33413 33     | Babbitt metal.....   |   |   |                    |                                  |                    |   |                    | (D)  |  |
| 33323 51     | Solder.....  | 102,265   | 100,907   | 69,783             | (D)                              | (D)                | (D)   | (D)                | 1,141  |  |
| 33413 51     | Solder.....  |   |   |                    |                                  |                    |   |                    | (D)  |  |
| 33323 71     | Type metal.....  | 39,363  | 34,522  | 12,479             | (D)                              | (D)                | (D)   | (D)                | (D)  |  |
| 33413 71     | Type metal.....  |   |   |                    |                                  |                    |   |                    | (D)  |  |
| 33323 98     | Other lead and tin-base alloys                                       | 34,152  | 23,443  | 8,689              | (D)                              | (D)                | (D)   | (D)                | (D)  |  |
| 33413 98     | Other lead and tin-base alloys                                       |   |   |                    |                                  |                    |   |                    | (D)  |  |
| 33323 00     | Refined lead, n.s.k.....   | (X)   | (X)   | 5,085              | (X)                              | 5,085              | (X)   | -                  | (X)  |  |
| 33413 00     | Refined lead, n.s.k.....   |   |   |                    |                                  |                    |   |                    | (X)  |  |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Total production <sup>2</sup><br>(gross weight) | Shipments including interplant transfers <sup>1</sup> |                    |                                  |                    |   |                    | Shipments of products made from materials owned by others <sup>3</sup><br>(gross weight) | Produced and consumed in the same plant in manufacture of other products<br>(gross weight) |                            |         |         |         |
|--------------|---|---|---|--------------------|----------------------------------|--------------------|---|--------------------|--|--|----------------------------|---------|---------|---------|
|              |   |   | Total   |                    | Shipments to all other companies |                    | Transfers to other plants of the same company |                    |  |  |                            |         |         |         |
|              |   |   | Quantity<br>(gross weight)                            | Value<br>(\$1,000) | Quantity<br>(gross weight)       | Value<br>(\$1,000) | Quantity<br>(gross weight)                    | Value<br>(\$1,000) |  |  |                            |         |         |         |
|              | 1963—Continued  | (Short tons)                                    | (Short tons)  |                    |                                  | (Short tons)       |   | (Short tons)       | (Short tons)   |  |                            |         |         |         |
| 3333- --     | PRIMARY ZINC, TOTAL.....  | 1,741,183                                       | 1,621,907   | 308,538            | 1,437,333                        | 289,781            | 184,574                                       | 18,757             | 83,185   | (D)  |                            |         |         |         |
| 33331 11     | Zinc residues and other zinc smelter products.....                                      | 478,209   | 492,220   | 34,798             | (D)                              | (D)                | (D)   | (D)                | (D)  | (D)  |                            |         |         |         |
| 33334 --     | } Refined zinc.....   | 1,262,974                                       | 1,129,687   | 273,740            | 1,092,941                        | 265,166            | 36,746  | 8,574              | 75,400   | 96,467   |                            |         |         |         |
| 33414 --     |   |   |   |                    |                                  |                    |   |                    |  |  |                            |         |         |         |
| 33334 --     | Made by primary zinc refiners (industry 3333).....                                      | 1,079,297                                       | 975,017   | 230,285            | 1,092,941                        | 265,166            | 36,746  | 8,574              | 75,400   | 96,467   |                            |         |         |         |
| 33414 --     | Made by secondary refiners (industry 3341).....   | 183,677   | 154,670   | 43,455             |                                  |                    |   |                    |  |  |                            |         |         |         |
|              | All other industries.....   |   |   |                    |                                  |                    |   |                    |  |  |                            |         |         |         |
|              | Unalloyed zinc:   |   |   |                    |                                  |                    |   |                    |  |  |                            |         |         |         |
| 33334 13     | } Zinc slab, including remelt zinc  | 971,688   | 864,571   | 202,004            | 836,588                          | 195,432            | 27,983  | 6,572              | 46,465   | (D)  |                            |         |         |         |
| 33414 01     |   |   |   |                    |                                  |                    |   |                    |  |  | Made in industry 3341..... | 23,366  | 5,624   |         |
| 33334 13     |   |   |   |                    |                                  |                    |   |                    |  |  | Made in industry 3333..... | 971,688 | 841,205 | 196,380 |
|              | All other industries.....   |   |   |                    |                                  |                    |   |                    |  |  |                            |         |         |         |
| 33334 51     | } Zinc dust.....  | 43,066  | 44,481  | 12,899             | (D)                              | (D)                | (D)   | (D)                | (D)  | (D)  |                            |         |         |         |
| 33414 05     |   |   |   |                    |                                  |                    |   |                    |  |  | Made in industry 3341..... | 16,393  | 16,278  | 5,190   |
| 33334 51     |   |   |   |                    |                                  |                    |   |                    |  |  | Made in industry 3333..... | 26,673  | 28,203  | 7,709   |
| 33334 61     | } Zinc-base alloys.....   | 248,220   | 220,635   | 58,837             | (D)                              | (D)                | (D)   | (D)                | (D)  | (D)  |                            |         |         |         |
| 33414 11     |   |   |   |                    |                                  |                    |   |                    |  |  | Made in industry 3341..... | 106,145 | 106,448 | 26,387  |
| 33334 61     |   |   |   |                    |                                  |                    |   |                    |  |  | Made in industry 3333..... | 142,075 | 114,187 | 32,450  |
| 33414 11     | All other industries.....   |   |   |                    |                                  |                    |   |                    |  |  |                            |         |         |         |
| 3334- --     | REFINED ALUMINUM, TOTAL.....  | 3,740,087                                       | 3,168,977   | 1,420,182          | 1,833,981                        | 807,409            | 1,334,996                                     | 612,773            | 67,940   | 738,728  |                            |         |         |         |
| 33347 --     | } Aluminum ingot.....   | 3,135,646                                       | 2,754,944   | 1,234,704          | 1,543,225                        | 680,625            | 1,211,719                                     | 554,079            | 24,260   | 515,259  |                            |         |         |         |
| 33417 --     |   |   |   |                    |                                  |                    |   |                    |  |  |                            |         |         |         |
| 33527 --     |   |   |   |                    |                                  |                    |   |                    |  |  |                            |         |         |         |
| 33347 11     | Made in primary aluminum industry (industry 3334).....                                  | 2,008,627                                       | 2,118,607   | 946,808            | 965,303                          | 426,741            | 1,153,304                                     | 520,067            | 24,260   | 515,259  |                            |         |         |         |
| 33527 11     | Made in aluminum rolling mills (industry 3352) <sup>6</sup> .....                       | 561,950   | 86,242  | 49,024             | 577,922                          | 253,884            | 58,415  | 34,012             |  |  |                            |         |         |         |
| 33417 11     | Made in secondary nonferrous metals industry (industry 3341). All other industries..... | 565,069   | 540,522   | 230,687            |                                  |                    |   |                    |  |  |                            |         |         |         |
| 33348 --     | } Aluminum extrusion billet.....  | 604,441   | 414,033   | 185,478            | 290,756                          | 126,784            | 123,277                                       | 58,694             | 43,680   | 223,469  |                            |         |         |         |
| 33528 --     |   |   |   |                    |                                  |                    |   |                    |  |  |                            |         |         |         |
| 33418 --     |   |   |   |                    |                                  |                    |   |                    |  |  |                            |         |         |         |
| 33348 11     | Made in primary aluminum industry (industry 3334).....                                  | 254,500   | 272,092   | 122,798            | 193,561                          | 86,244             | 78,531  | 36,554             | -  | -  |                            |         |         |         |
| 33528 11     | Made in aluminum rolling mills (industry 3352) <sup>6</sup> .....                       | 288,722   | 108,965   | 48,745             | 64,219                           | 26,605             | 44,746  | 22,140             | 16,249   | 223,469  |                            |         |         |         |
| 33418 11     | Made in secondary nonferrous metals industry (industry 3341). All other industries..... | 61,219  | 32,976  | 13,935             | 32,976                           | 13,935             | -   | -                  | 27,431   | -  |                            |         |         |         |
|              |   | (Troy ounces)                                   | (Troy ounces)   |                    | (Troy ounces)                    |                    | (Troy ounces)                                 |                    | (Troy ounces)  | (Troy ounces)  |                            |         |         |         |
| 3339- --     | PRIMARY NONFERROUS METALS, N.E.C., TOTAL.....   | (NA)  | (NA)  | 439,385            | (D)                              | (D)                | (D)   | (D)                | (X)  | (X)  |                            |         |         |         |
| 33395 --     | } Precious metals.....  | (NA)  | (NA)  | 246,426            | (D)                              | (D)                | (D)   | (D)                | (X)  | (X)  |                            |         |         |         |
| 33415 --     |   |   |   |                    |                                  |                    |   |                    |  |  |                            |         |         |         |
|              | Unalloyed:  |   |   |                    |                                  |                    |   |                    |  |  |                            |         |         |         |
| 33395 11     | } Gold.....   | 2,505,513                                       | 1,493,771   | 53,592             | (D)                              | (D)                | (D)   | (D)                | 957,941  | (D)  |                            |         |         |         |
| 33415 11     |   |   |   |                    |                                  |                    |   |                    |  |  |                            |         |         |         |
| 33395 51     | } Silver.....   | (NA)  | (NA)  | 107,405            | (D)                              | (D)                | (D)   | (D)                | (NA)   | (D)  |                            |         |         |         |
| 33415 31     |   |   |   |                    |                                  |                    |   |                    |  |  |                            |         |         |         |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Total production <sup>2</sup><br>(gross weight)   | Shipments including interplant transfers <sup>1</sup> |                    |                                  |                    |   |                    | Shipments of products made from materials owned by others <sup>3</sup><br>(gross weight) | Produced and consumed in the same plant in manufacture of other products<br>(gross weight) |
|--------------|--|---|---|--------------------|----------------------------------|--------------------|---|--------------------|--|--|
|              |  |   | Total   |                    | Shipments to all other companies |                    | Transfers to other plants of the same company |                    |  |  |
|              |  |   | Quantity<br>(gross weight)                            | Value<br>(\$1,000) | Quantity<br>(gross weight)       | Value<br>(\$1,000) | Quantity<br>(gross weight)                    | Value<br>(\$1,000) |  |  |
|              | 1963—Continued   | (Troy ounces)   | (Troy ounces)   |                    |                                  | (Troy ounces)      |   | (Troy ounces)      | (Troy ounces)  |  |
| 3339- --     | PRIMARY NONFERROUS METALS,<br>N.E.C.—Continued   |   |   |                    |                                  |                    |   |                    |  |  |
| 33395 --     | Precious metals—Continued  |   |   |                    |                                  |                    |   |                    |  |  |
| 33415 --     |  | Unalloyed:—Continued  |   |                    |                                  |                    |   |                    |  |  |
| 33395 31     | Platinum, including platinum-<br>group metals.....   | (NA)  | (NA)  | 25,049             | (D)                              | (D)                | (D)   | (D)                | (NA)   |  |
| 33415 51     |  | (NA)  | (NA)  | 22,717             | (D)                              | (D)                | (D)   | (D)                | (NA)   |  |
|              |  | Made in primary nonferrous<br>metals, n.e.c. industry<br>(industry 3339) and other<br>industries..... | (NA)  | (NA)               | 2,332                            | (D)                | (D)   | (D)                | (D)  | (NA)   |
|              | Alloys:  |   |   |                    |                                  |                    |   |                    |  |  |
| 33395 61     | Silver-base.....   |   |   |                    |                                  |                    |   |                    |  |  |
| 33415 71     |  |   |   |                    |                                  |                    |   |                    |  |  |
| 33395 65     | Gold-base.....   |   |   |                    |                                  |                    |   |                    |  |  |
| 33415 81     |  |   |   |                    |                                  |                    |   |                    |  |  |
| 33395 69     |  | Other precious metal,<br>including platinum-group.....  | (NA)  | (NA)               | 60,380                           | (NA)               | 60,380  | -                  | -  | (NA)   |
| 33415 89     |  |   |   |                    |                                  |                    |   |                    |  |  |
| 33415 00     | Precious metals, n.s.k.....  |   |   |                    |                                  |                    |   |                    |  |  |
|              |  | (Short tons)  | (Short tons)  |                    |                                  | (Short tons)       |   | (Short tons)       | (Short tons)   |  |
| 33397 --     | Other nonferrous metals.....   | (NA)  | (NA)  | 192,959            | (D)                              | (D)                | (D)   | (D)                | (X)  |  |
| 33416 --     |  | Unalloyed:  |   |                    |                                  |                    |   |                    |  |  |
| 33397 21     | Cadmium.....   | 4,054   | 4,308   | 17,926             | (D)                              | (D)                | (D)   | (D)                | (D)  |  |
| 33416 51     |  |   |   |                    |                                  |                    |   |                    |  |  |
| 33397 11     | Magnesium.....   | 80,744  | 56,794  | 39,470             | (D)                              | (D)                | (D)   | (D)                | -  |  |
| 33416 61     |  |   |   |                    |                                  |                    |   |                    |  |  |
| 33397 51     | Nickel.....  | 1,518   | 1,087   | 1,740              | 1,087                            | 1,740              | -   | -                  | -  |  |
| 33416 69     |  |   |   |                    |                                  |                    |   |                    |  |  |
| 33397 61     | Tin.....   | (NA)  | (NA)  | 7,881              | (D)                              | (D)                | (D)   | (D)                | (D)  |  |
| 33416 71     |  |   |   |                    |                                  |                    |   |                    |  |  |
| 33397 71     | Titanium sponge.....   |   |   |                    |                                  |                    |   |                    |  |  |
| 33416 81     |  |   |   |                    |                                  |                    |   |                    |  |  |
| 33397 79     | Other unalloyed nonferrous<br>metals, (including metal<br>bearing furnace residues and<br>other metal products which<br>have to be further refined<br>before sale to customers)..... | (NA)  | (NA)  | 84,968             | (NA)                             | 65,429             | (NA)  | 19,539             | (NA)   |  |
| 33416 89     |  |   |   |                    |                                  |                    |   |                    |  |  |
|              | Alloyed:   |   |   |                    |                                  |                    |   |                    |  |  |
| 33397 92     | Magnesium-base alloys.....   | 31,682  | 26,723  | 17,286             | (D)                              | (D)                | (D)   | (D)                | -  |  |
| 33416 21     |  |   |   |                    |                                  |                    |   |                    |  |  |
| 33397 93     | Nickel-base alloys.....  | 3,782   | 3,685   | 10,651             | 3,685                            | 10,651             | -   | -                  | (D)  |  |
| 33416 31     |  |   |   |                    |                                  |                    |   |                    |  |  |
| 33397 98     | Other nonferrous metal alloys..  | (NA)  | (NA)  | 7,723              | (D)                              | (D)                | (D)   | (D)                | -  |  |
| 33416 43     |  |   |   |                    |                                  |                    |   |                    |  |  |
| 33397 00     | Other nonferrous metals, n.s.k...  | (X)   | (X)   | 5,314              | (NA)                             | 5,314              | -   | -                  | (X)  |  |
| 33416 00     |  |   |   |                    |                                  |                    |   |                    |  |  |
| 3341- --     | SECONDARY SMELTING, REFINING,<br>AND ALLOYING OF NONFERROUS<br>METALS, TOTAL.....  | (X)   | (X)   | 3,102,519          | (D)                              | (D)                | (D)   | (D)                | (X)  |  |
| 33417 --     | Aluminum ingot.....  | 3,135,646   | 2,754,944   | 71,234,704         | 1,543,225                        | 680,625            | 1,211,719                                     | 554,079            | 24,260   |  |
| 33347 --     |  |   |   |                    |                                  |                    |   |                    |  |  |
| 33527 --     |  |   |   |                    |                                  |                    |   |                    |  |  |
| 33418 --     | Aluminum extrusion billet.....   | 604,441   | 414,033   | 7185,478           | 290,756                          | 126,784            | 123,277                                       | 58,694             | 43,680   |  |
| 33348 --     |  |   |   |                    |                                  |                    |   |                    |  |  |
| 33528 --     |  |   |   |                    |                                  |                    |   |                    |  |  |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code         | Product   | Total production <sup>2</sup><br>(gross weight) | Shipments including interplant transfers <sup>1</sup> |                               |                                  |                    |   |                    | Shipments of products made from materials owned by others <sup>3</sup><br>(gross weight) | Produced and consumed in the same plant in manufacture of other products<br>(gross weight) |
|----------------------|---|---|---|-------------------------------|----------------------------------|--------------------|---|--------------------|--|--|
|                      |   |   | Total   |                               | Shipments to all other companies |                    | Transfers to other plants of the same company |                    |  |  |
|                      |   |   | Quantity<br>(gross weight)                            | Value<br>(\$1,000)            | Quantity<br>(gross weight)       | Value<br>(\$1,000) | Quantity<br>(gross weight)                    | Value<br>(\$1,000) |  |  |
|                      | 1963—Continued  | (Short tons)                                    | (Short tons)  |                               |                                  | (Short tons)       | (Short tons)                                  | (Short tons)       | (Short tons)   |  |
| 3341- --             | SECONDARY SMELTING, REFINING, AND ALLOYING OF NONFERROUS METALS—Continued             |   |   |                               |                                  |                    |   |                    |  |  |
| 33412 --<br>33312 -- | Refined copper.....   | (X)   | (X)   | <sup>8</sup> 668,594          | (D)                              | (D)                | (D)   | (D)                | (X) (D)  |  |
| 33413 --<br>33323 -- | Refined lead.....   | (X)   | (X)   | <sup>9</sup> 276,388          | (X)                              | 256,683            | (X)   | 19,705             | (D) (D)  |  |
| 33414 --<br>33334 -- | Refined zinc.....   | 1,262,974                                       | 1,129,687   | <sup>10</sup> 273,740         | 1,092,941                        | 265,166            | 36,746  | 8,574              | 75,400 96,467  |  |
| 33415 --<br>33395 -- | Refined precious metals.....  | (NA)  | (NA)  | <sup>11</sup> 246,426         | (D)                              | (D)                | (D)   | (D)                | (X) (X)  |  |
| 33416 --<br>33397 -- | Other nonferrous metals, smelted and refined.....                                     | (NA)  | (NA)  | <sup>12</sup> 192,959         | (D)                              | (D)                | (D)   | (D)                | (X) (X)  |  |
| 33410 00             | Refined nonferrous metals, n.s.k....  | (X)   | (X)   | 24,230                        | (X)                              | 24,230             | -   | -                  | (X) (X)  |  |
|                      | 1958  |   |   |                               |                                  |                    |   |                    |  |  |
| 3331- --             | PRIMARY COPPER, TOTAL.....  | (X)   | (X)   | 877,421                       | (X)                              | 565,480            | (X)   | 311,941            | (X) (X)  |  |
| 33311 --             | Copper smelter products.....  | (X)   | (X)   | 397,681                       | (X)                              | 96,910             | (X)   | 300,771            | 353,443 62,915   |  |
| 33311 11<br>33311 51 | Blister or anode copper.....<br>Matte, speiss, flue dust, residues, etc.....          | 1,107,345<br>55,459                             | 723,278<br>50,159                                     | 390,539<br>7,142              | 182,638<br>11,541                | 95,399<br>1,511    | 540,640<br>38,618                             | 295,140<br>5,631   | 353,443 }<br>- }<br>62,915   |  |
| 33312 --<br>33412 -- | Refined copper.....   | (X)   | (X)   | 479,740                       | (X)                              | 468,570            | (X)   | 11,170             | (X) (X)  |  |
| 33312 --             | Made by primary copper refiners (industry 3331).....                                  | (X)   | (X)   | 320,496                       | (X)                              | (D)                | (X)   | (D)                | (X) (X)  |  |
| 33412 --             | Made by secondary refiners (industry 3341).....                                       | (X)   | (X)   | 151,929                       | (X)                              | (D)                | (X)   | (D)                | (X) (X)  |  |
|                      | All other industries.....   | (X)   | (X)   | 7,315                         | (X)                              | (D)                | (X)   | (D)                | (X) (X)  |  |
| 33312 11<br>33412 11 | Refined unalloyed copper.....   | 1,595,257                                       | 649,257   | 344,188                       | (D)                              | (D)                | (D)   | (D)                | 1,032,241 4,960  |  |
| 33412 11<br>33312 11 | Made in industry 3341.....<br>Made in industry 3331.....                              | 40,148<br>1,555,109                             | 59,328<br>589,929                                     | 31,248<br>312,940             | (D)<br>589,929                   | (D)<br>312,940     | (D)<br>-                                      | (D)<br>-           | - }<br>1,032,241 }<br>4,960  |  |
| 33312 15<br>33412 31 | Copper-base alloys.....   | 318,437   | 254,543   | 135,552                       | (D)                              | (D)                | (D)   | (D)                | 3,433 (D)  |  |
| 33312 15<br>33412 31 | Made in industry 3331.....<br>Made in industry 3341.....<br>All other industries..... | 318,437   | { 10,888<br>234,766<br>8,889 }                        | { 7,556<br>120,681<br>7,315 } | (D)                              | (D)                | (D)   | (D)                | 3,433 (D)  |  |
| 3332- --             | PRIMARY LEAD, TOTAL.....  | (X)   | (X)   | (D)                           | (X)                              | (D)                | (X)   | (D)                | (X) (X)  |  |
| 33321 --             | Lead smelter products.....  | (X)   | (X)   | (D)                           | (X)                              | (D)                | (X)   | (D)                | (X) (X)  |  |
| 33321 11<br>33321 51 | Base bullion.....<br>Matte, speiss, etc.....  | 479,846<br>118,562                              | (D)   | (D)                           | (D)                              | (D)                | (D)   | (D)                | (D) 209,754  |  |
| 33323 --<br>33413 -- | Refined lead.....   | (X)   | (X)   | 280,937                       | (X)                              | (D)                | (X)   | (D)                | (X) (X)  |  |
| 33323 --             | Made by primary lead refiners (industry 3332).....                                    | (X)   | (X)   | 104,788                       | (X)                              | (D)                | (X)   | (D)                | (X) (X)  |  |
| 33413 --             | Made in industry 3341.....  | (X)   | (X)   | 137,446                       | (X)                              | (D)                | (X)   | (D)                | (X) (X)  |  |
|                      | All other industries.....   | (X)   | (X)   | 38,703                        | (X)                              | (D)                | (X)   | (D)                | (X) (X)  |  |
| 33323 11<br>33413 11 | Refined unalloyed lead.....   | 658,569   | 521,108   | 120,116                       | 509,074                          | 117,286            | 12,034  | 2,830              | 104,431 (D)  |  |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code         | Product  | Total production <sup>2</sup><br>(gross weight)    | Shipments including interplant transfers <sup>1</sup> |                    |                                  |                    |   |                    | Shipments of products made from materials owned by others <sup>3</sup><br>(gross weight) | Produced and consumed in the same plant in manufacture of other products<br>(gross weight) |
|----------------------|--|--|---|--------------------|----------------------------------|--------------------|---|--------------------|--|--|
|                      |  |  | Total   |                    | Shipments to all other companies |                    | Transfers to other plants of the same company |                    |  |  |
|                      |  |  | Quantity<br>(gross weight)                            | Value<br>(\$1,000) | Quantity<br>(gross weight)       | Value<br>(\$1,000) | Quantity<br>(gross weight)                    | Value<br>(\$1,000) |  |  |
|                      | 1958—Continued                                     | (Short tons)                                       | (Short tons)  |                    |                                  | (Short tons)       |   | (Short tons)       | (Short tons)   |  |
| 3331- --             | PRIMARY LEAD—Continued                             |  |   |                    |                                  |                    |   |                    |  |  |
| 33323 --<br>33413 -- | Refined lead—Continued                             |  |   |                    |                                  |                    |   |                    |  |  |
| 33323 11<br>33413 11 |  | Refined unalloyed lead—Continued                   |   |                    |                                  |                    |   |                    |  |  |
| 33413 11<br>33323 11 | Made in industry 3341.....                         |  | 134,252   | 118,238            | 28,536                           | (D)                | (D)   | (D)                | (D)  | (D)  |
|                      | Made in industry 3332.....                         | 524,317  | 402,870   | 91,580             | (D)                              | (D)                | (D)   | (D)                | (D)  |  |
|                      | Lead-base and tin-base alloys <sup>4</sup> ...     | 413,510  | 410,709   | 154,805            | (D)                              | (D)                | (D)   | (D)                | 16,123 995   |  |
|                      | Made in industry 3332.....                         | 48,854   | 50,026  | 13,208             | 50,026                           | 13,208             | -   | -                  | 16,123 995   |  |
|                      | Made in industry 3341.....                         | 293,395  | 290,195   | 104,458            | (D)                              | (D)                | (D)   | (D)                |  |  |
|                      | All other industries.....                          | 71,261   | 70,488  | 37,139             | (D)                              | (D)                | (D)   | (D)                |  |  |
| 33323 31<br>33413 21 | Antimonial lead.....                               | 244,259  | 242,594   | 61,489             | (D)                              | (D)                | (D)   | (D)                | 8,412 (D)  |  |
|                      | Babbitt metal:                                     |  |   |                    |                                  |                    |   |                    |  |  |
| 33323 32<br>33413 31 | Lead-base.....                                     | 23,833   | 22,144  | 9,837              | (D)                              | (D)                | (D)   | (D)                | (D) 242  |  |
| 33323 35<br>33413 35 |  | Tin-base.....                                      | 2,990   | 2,364              | 3,959                            | (D)                | (D)   | (D)                | (D)  | (D)  |
| 33323 51<br>33413 51 | Solder.....  | 70,047   | 70,483  | 51,518             | (D)                              | (D)                | (D)   | (D)                | 2,357 502  |  |
| 33323 71<br>33413 71 |  | Type metal.....                                    | 42,871  | 39,802             | 14,682                           | (D)                | (D)   | (D)                | (D)  | (D)  |
| 33323 98<br>33413 98 | Other lead and tin-base alloys.                    | 29,510   | 33,322  | 13,320             | (D)                              | (D)                | (D)   | (D)                | 3,489 (D)  |  |
| 33413 00             | Refined lead, n.s.k.....                           | (X)  | (X)   | 136,016            | (X)                              | 6,016              | (X)   | -                  | (X) (X)  |  |
| 3333- --             | PRIMARY ZINC, TOTAL.....                           | (X)  | (X)   | 232,513            | (X)                              | 214,899            | (X)   | 17,614             | (X) (X)  |  |
| 33331 11             | Zinc residues and other zinc smelter products..... | 438,014  | 425,564   | 25,822             | 210,939                          | 13,448             | 214,625                                       | 12,374             | 8,620 (D)  |  |
| 33334 --<br>33414 -- | Refined zinc.....                                  | (X)  | (X)   | 206,691            | (X)                              | 201,451            | (X)   | 5,240              | (X) (X)  |  |
| 33334 pt<br>33414 pt |  | Made by primary zinc refiners (industry 3333)..... | (X)   | (X)                | 158,137                          | (X)                | 201,451                                       | (X)                | 5,240  | (X) (X)  |
| 33334 pt<br>33414 pt | Made in industry 3341.....                         | (X)  | (X)   | 39,206             |                                  |                    |   |                    |  |  |
|                      | All other industries.....                          | (X)  | (X)   | 9,348              |                                  |                    |   |                    |  |  |
| 33334 13<br>33414 01 | Zinc slab, including remelt zinc.                  | 863,317  | 776,667   | 158,713            | 752,670                          | 153,639            | 23,997  | 5,074              | 76,334 43,180  |  |
| 33414 01<br>33334 13 | Made in industry 3341.....                         | 20,323   | 20,181  | 4,549              | 20,181                           | 4,549              | -   | -                  | 76,334 43,180  |  |
|                      | Made in industry 3333.....                         | 842,994  | 756,486   | 154,164            | 732,489                          | 149,090            | 23,997  | 5,074              |  |  |
|                      | All other industries.....                          |  |   |                    |                                  |                    |   |                    |  |  |
| 33334 51<br>33414 05 | Zinc dust.....                                     | 25,792   | 25,518  | 7,070              | 25,518                           | 7,070              | -   | -                  | (D) (D)  |  |
| 33414 05<br>33334 51 | Made in industry 3341.....                         | 25,792   | 25,518  | 7,070              | 25,518                           | 7,070              | -   | -                  | (D) (D)  |  |
|                      | Made in industry 3333.....                         |  |   |                    |                                  |                    |   |                    |  |  |
|                      | All other industries.....                          |  |   |                    |                                  |                    |   |                    |  |  |
| 33334 61<br>33414 11 | Zinc-base alloys.....                              | 148,440  | 130,347   | 40,908             | 129,715                          | 40,742             | 632   | 166                | 11,506 -   |  |
| 33334 61<br>33414 11 | Made in industry 3333.....                         | 148,440  | 130,347   | 40,908             | 129,715                          | 40,742             | 632   | 166                | 11,506 -   |  |
|                      | Made in industry 3341.....                         |  |   |                    |                                  |                    |   |                    |  |  |
|                      | All other industries.....                          |  |   |                    |                                  |                    |   |                    |  |  |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code   | Product  | Total production <sup>2</sup><br>(gross weight) | Shipments including interplant transfers <sup>3</sup> |                    |                                  |                    |   |                    | Shipments of products made from materials owned by others <sup>2</sup><br>(gross weight) | Produced and consumed in the same plant in manufacture of other products<br>(gross weight) |
|--|--|---|---|--------------------|----------------------------------|--------------------|---|--------------------|--|--|
|  |  |   | Total   |                    | Shipments to all other companies |                    | Transfers to other plants of the same company |                    |  |  |
|  |  |   | Quantity<br>(gross weight)                            | Value<br>(\$1,000) | Quantity<br>(gross weight)       | Value<br>(\$1,000) | Quantity<br>(gross weight)                    | Value<br>(\$1,000) |  |  |
|  | 1958—Continued   | (Short tons)                                    | (Short tons)  |                    | (Short tons)                     |                    | (Short tons)                                  |                    | (Short tons)   | (Short tons)   |
| 3334--   | PRIMARY ALUMINUM, TOTAL.....   | 2,091,821                                       | 2,146,805   | 1,057,801          | 1,141,380                        | 551,404            | 1,005,425                                     | 506,397            | (X)  | (X)  |
| 33341 11<br>33520 11<br>33411 11   | Aluminum-base alloys.....  | 1,498,961                                       | 1,017,043   | 507,695            | 570,880                          | 277,198            | 446,163                                       | 230,497            | 23,175   | 145,105  |
| 33341 11<br>33520 11   | Made in primary aluminum refineries (industry 3334).....   | 481,424   | 508,189   | 260,838            | 156,525                          | 82,463             | 351,664                                       | 178,375            | 23,175   | 145,105  |
| 33411 11   | Made in aluminum rolling mills (industry 3352) <sup>6</sup> .....  | 1,418,592                                       | 186,791   | 101,739            | 101,615                          | 54,343             | 85,176  | 47,396             |  |  |
| 33411 11   | Made in industry 3341.....   | 312,280   | 311,359   | 140,471            | 302,036                          | 135,745            | 9,323   | 4,726              |  |  |
| 33411 11   | All other industries.....  | 9,336   | 10,704  | 4,647              | 10,704                           | 4,647              | -   | -                  |  |  |
| 33342 11   | Refined unalloyed aluminum.....  | 1,102,860                                       | 1,129,762   | 550,106            | 570,500                          | 274,206            | 559,262                                       | 275,900            | (D)  | (D)  |
|  | Made in industry 3334.....   | 1,077,861                                       | 1,105,216   | 539,173            | 545,954                          | 263,273            | 559,262                                       | 275,900            | (D)  | (D)  |
|  | Made in industry 3341.....   | 24,999  | 24,546  | 10,933             | 24,546                           | 10,933             | -   | -                  | (D)  | (D)  |
|  |  | (Troy ounces)                                   | (Troy ounces)   |                    | (Troy ounces)                    |                    | (Troy ounces)                                 |                    | (Troy ounces)  | (Troy ounces)  |
| 3339--   | PRIMARY NONFERROUS METALS, N.E.C., TOTAL.....  | (X)   | (X)   | 362,694            | (X)                              | (NA)               | (X)   | (NA)               | (X)  | (X)  |
| 33395 --<br>33415 --   | Precious metals.....   | (X)   | (X)   | 198,587            | (X)                              | (NA)               | (X)   | (NA)               | (X)  | (X)  |
| 33415 pt<br>33395 --   | Made in industry 3341.....   | (X)   | (X)   | 52,956             | (X)                              | (NA)               | (X)   | (NA)               | (X)  | (X)  |
| 33395 --   | Made in primary nonferrous metals, n.e.c., industry and other industries.....  | (X)   | (X)   | 145,631            | (X)                              | (NA)               | (X)   | (NA)               | (X)  | (X)  |
| 33395 11<br>33415 11<br>33395 31<br>33415 51<br>33395 51<br>33415 31           | Unalloyed gold, platinum and silver.....   | (NA)  | (NA)  | 182,799            | (NA)                             | (NA)               | (NA)  | (NA)               | (NA)   | (NA)   |
| 33395 61<br>33415 71<br>33395 65<br>33415 81                                   | Alloys:<br>Silver and silver-base alloys.....  | (NA)  | (NA)  | 3,753              | (NA)                             | (NA)               | (NA)  | (NA)               | (NA)   | -  |
|  | Gold and gold-base alloys.....   | (NA)  | (NA)  | 12,035             | (NA)                             | (NA)               | (NA)  | (NA)               | (NA)   | -  |
|  |  | (Short tons)                                    | (Short tons)  |                    | (Short tons)                     |                    | (Short tons)                                  |                    | (Short tons)   | (Short tons)   |
| 33397 --<br>33416 --   | Other nonferrous metals, smelted or refined.....   | (X)   | (X)   | 163,326            | (X)                              | (NA)               | (X)   | (NA)               | (X)  | (X)  |
| 33416 pt<br>33416 pt<br>33397 --   | Made in industry 3341.....   | (X)   | (X)   | 21,798             | (X)                              | (NA)               | (X)   | (NA)               | (X)  | (X)  |
|  | Made in industry 3339 and other industries.....  | (X)   | (X)   | 141,528            | (X)                              | (NA)               | (X)   | (NA)               | (X)  | (X)  |
| 33397 11,<br>21, 51,<br>61, 71,<br>79<br>33416 61,<br>51, 69,<br>71, 81,<br>89 | Other unalloyed metals (including magnesium, cadmium, nickel, tin, titanium sponge, antimony, cobalt, molybdenum, etc.).....   | (NA)  | (NA)  | 113,900            | (NA)                             | (NA)               | (NA)  | (NA)               | (NA)   | (NA)   |
| 33397 89<br>33416 98   | Other unrefined nonferrous metals (including metal bearing furnace residues and other metal products which have to be further refined before sale to customers)..... |   |   |                    |                                  |                    |   |                    |  |  |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code                                 | Product   | Total production <sup>2</sup><br>(gross weight) | Shipments including interplant transfers <sup>1</sup> |                    |                                  |                    |   |                    | Shipments of products made from materials owned by others <sup>3</sup><br>(gross weight) | Produced and consumed in the same plant in manufacture of other products<br>(gross weight) |
|--|---|---|---|--------------------|----------------------------------|--------------------|---|--------------------|--|--|
|  |   |   | Total   |                    | Shipments to all other companies |                    | Transfers to other plants of the same company |                    |  |  |
|  |   |   | Quantity<br>(gross weight)                            | Value<br>(\$1,000) | Quantity<br>(gross weight)       | Value<br>(\$1,000) | Quantity<br>(gross weight)                    | Value<br>(\$1,000) |  |  |
|  | 1958—Continued  | (Short tons)                                    | (Short tons)  |                    |                                  | (Short tons)       |   | (Short tons)       | (Short tons)   |  |
| 3339- --                                     | PRIMARY NONFERROUS METALS, N.E.C.—Continued   |   |   |                    |                                  |                    |   |                    |  |  |
| 33397 --<br>33416 --                         | Other nonferrous metals, smelted or refined—Continued   |   |   |                    |                                  |                    |   |                    |  |  |
|  | Metal alloys:   |   |   |                    |                                  |                    |   |                    |  |  |
| 33397 92<br>33416 21                         | Magnesium-base alloys.....  | (NA)  | 11,040  | 9,764              | (NA)                             | (NA)               | (NA)  | (NA)               | (NA)   |  |
| 33397 93<br>33416 31<br>33397 94<br>33416 41 | Other nonferrous metal alloys (including nickel-base alloys).   | (X)   | (X)   | 33,219             | (X)                              | (NA)               | (X)   | (NA)               | (X)  |  |
| 33397 00<br>33416 00                         | Other nonferrous metals, n.e.c., n.s.k.....   | (X)   | (X)   | 6,443              | (X)                              | (NA)               | (X)   | (NA)               | (X)  |  |
| 33390 00                                     | Primary nonferrous metals, n.e.c., n.s.k.....   | (X)   | (X)   | 781                | (X)                              | (NA)               | (X)   | (NA)               | (X)  |  |
| 3341- --                                     | SECONDARY SMELTING, REFINING, AND ALLOYING OF NONFERROUS METALS, TOTAL.....   | (X)   | (X)   | 1,859,159          | (X)                              | (NA)               | (X)   | (NA)               | (X)  |  |
| 33411 --<br>33341 --<br>33520 pt             | Aluminum-base alloys.....   | (X)   | (X)   | 7507,695           | (X)                              | 277,198            | (X)   | 230,497            | (X)  |  |
| 33412 --<br>33312 --                         | Refined copper.....   | (X)   | (X)   | 479,740            | (X)                              | 468,570            | (X)   | 11,170             | (X)  |  |
| 33413 --<br>33323 --                         | Refined lead.....   | (X)   | (X)   | 9280,937           | (X)                              | (D)                | (X)   | (D)                | (X)  |  |
| 33414 --<br>33334 --                         | Refined zinc.....   | (X)   | (X)   | 10206,691          | (X)                              | 201,451            | (X)   | 5,240              | (X)  |  |
| 33415 --<br>33395 --                         | Refined precious metals.....  | (X)   | (X)   | 11198,587          | (X)                              | (NA)               | (X)   | (NA)               | (X)  |  |
| 33416 --<br>33397 --<br>33410 00             | Other nonferrous metals, smelted and refined.....<br>Secondary smelting, refining, and alloying, of nonferrous metals, n.s.k..... | (X)   | (X)   | 12163,326          | (X)                              | (NA)               | (X)   | (NA)               | (X)  |  |
|  |   | (X)   | (X)   | 22,183             | (X)                              | (NA)               | (X)   | (NA)               | (X)  |  |

Note: For each product included in this table, data were collected on the quantity of metal "received" from toll processors either for (1) consumption in producing other products; (2) shipment to customers; or (3) shipment to customers directly from the toll processor. However, these figures cannot be published without revealing the operations of individual companies, except for aluminum ingot and aluminum extrusion billet for which such receipts totaled 15,025 and 44,794 short tons, respectively.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Includes shipments of these products produced on a toll basis by others. Where data are shown separately for the various industries producing these products, such shipments are included in the industry for the establishment owning the material. However, production data are included in the industry of the toll processor.

<sup>2</sup>Includes toll production. For 1963 toll production was separately measured. However, since the differences between toll production and toll shipments (shipments of products made from materials owned by others) are minor, toll production is not shown separately.

<sup>3</sup>Includes shipments to other smelters and refiners, shipments to consumers and to some nonmanufacturing companies which sell direct to consumers.

<sup>4</sup>Includes antimonial lead, babbitt metal, solder, type metal and other lead- and tin-base alloys.

<sup>5</sup>Of this amount, \$4,155 thousand was reported by industry 3341, Secondary Nonferrous Metals, and \$930 thousand by other industries.

<sup>6</sup>Most of the aluminum ingot and billet (alloys) produced by aluminum rolling mills represent duplication of tonnages reported by the primary aluminum industry in that the metal produced by the rolling mills is made from ingot produced in primary aluminum plants.

<sup>7</sup>Aluminum ingot and aluminum extrusion billet are primary to the primary aluminum industry, aluminum rolling mills, and secondary smelters and refiners. Detail is shown under product classes 33347 and 33348 in 1963. For 1958, the comparable product classes are 33341 in industry 3334 and 33411 in industry 3341.

<sup>8</sup>Refined copper is primary to both primary copper and secondary smelters and refiners. Detail is shown under product class 33312.

<sup>9</sup>Refined lead is primary to both primary lead and secondary smelters and refiners. Detail is shown under product class 33323.

<sup>10</sup>Refined zinc is primary to both primary zinc and secondary smelters and refiners. Detail is shown under product class 33334.

<sup>11</sup>Refined precious metals are primary to both primary nonferrous metals, n.e.c., and secondary smelters and refiners. Detail is shown under product class 33395.

<sup>12</sup>Other nonferrous metals, smelted or refined, are primary to both primary nonferrous metals, n.e.c., and secondary smelters and refiners. Detail is shown under product class 33397.

<sup>13</sup>Of this amount \$4,452 thousand was reported by industry 3341, Secondary Nonferrous Metals, and \$1,564 thousand by other industries.

<sup>14</sup>Excludes ingot and billet produced and consumed in rolling mills.

TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year                                  | Indexes (1954 = 100)    |                  |                  |
|--------------|---|-------------------------|------------------|------------------|
|              |   | Production              | Unit value       |                  |
| 333          | Primary nonferrous metals <sup>1</sup> .....      | 1963 <sup>1</sup> ..... | 128              | 98               |
|              |   | 1958..                  | 110              | 98               |
| 3331         | Primary copper.....                               | 1963..                  | 140              | 105              |
|              |   | 1958..                  | 112              | 90               |
| 33311        | Copper smelter products.....                      | 1963..                  | 153              | 97               |
|              |   | 1958..                  | 113              | 87               |
| 33312        | Refined copper <sup>2</sup> .....                 | 1963..                  | 124              | 113              |
| 33412        |   | 1958..                  | 111              | 93               |
| 33323        | Refined lead <sup>2</sup> .....                   | 1963..                  | 103              | 85               |
| 33413        |   | 1958..                  | 96               | 88               |
| 3333         | Primary zinc.....                                 | 1963..                  | 125              | 96               |
|              |   | 1958..                  | 101              | 92               |
| 33331        | Zinc residues and other zinc smelter products.... | 1963..                  | 150              | 94               |
|              |   | 1958..                  | 138              | 96               |
| 33334        | Refined zinc <sup>2</sup> .....                   | 1963..                  | 121              | 99               |
| 33414        |   | 1958..                  | 97               | 91               |
| 3334         | Refined aluminum <sup>2</sup> .....               | 1963..                  | 201              | 109              |
| 33417        |   |                         |                  |                  |
| 33418        |   |                         |                  |                  |
| 33527        |   |                         |                  |                  |
| 33528        |   |                         |                  |                  |
| 3341-        | Secondary nonferrous metals <sup>3</sup> .....    | 1963..                  | ( <sup>3</sup> ) | ( <sup>3</sup> ) |
|              |   | 1958..                  | ( <sup>3</sup> ) | ( <sup>3</sup> ) |

<sup>1</sup>Adjusted to include products not shown separately below, namely primary nonferrous metals, n.e.c. (products of industry 3339) and lead smelter products (product class 33321).

<sup>2</sup>These indexes have been computed on an all-industry or "wherever-made" basis - that is, they include the production (including toll production) not only of primary refiners classified in Group 333, but also of secondary refiners (industry 3341) and, in the case of aluminum, aluminum rolling mills (industry 3352) as well.

<sup>3</sup>No separate indexes are shown for secondary refiners, since their production and shipments data have entered into the computation of the indexes for the respective refined metals shown above - see footnote 2.



TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class  | 1963      | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958      | 1954      | 1947    |
|-------|--|-----------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|---------|
| 3331- | Primary copper <sup>2</sup> .....  | 1,297,102 | 1,279,708         | 1,235,809         | 1,202,371         | 824,812           | 877,421   | 892,285   | (NA)    |
| 33311 | Copper smelter products.....   | 628,508   | 642,753           | 620,288           | 599,587           | 350,237           | 397,681   | 369,431   | 237,105 |
| 33312 | Refined primary copper <sup>2</sup> .....  | 668,594   | 636,955           | 615,521           | 602,784           | 474,575           | 479,740   | 522,854   | (NA)    |
| 3332- | Primary lead.....  | (D)       | (D)               | (D)               | (D)               | (D)               | (D)       | 433,686   | (NA)    |
| 33321 | Lead smelter products.....   | (D)       | (D)               | (D)               | (D)               | (D)               | (D)       | 118,926   | 124,796 |
| 33323 | Refined primary lead <sup>3</sup> .....  | 276,388   | 260,103           | 275,539           | 279,721           | 277,633           | 280,937   | 314,760   | (NA)    |
| 3333- | Primary zinc <sup>4</sup> .....  | 308,538   | 278,171           | 278,492           | 272,570           | 265,741           | 232,513   | 251,469   | (NA)    |
| 33331 | Zinc residues and other zinc smelter products.....   | 34,798    | 34,487            | 25,604            | 25,957            | 27,925            | 25,822    | 20,481    | (NA)    |
| 33334 | Refined primary zinc products <sup>4</sup> .....   | 273,740   | 243,684           | 252,888           | 246,613           | 237,816           | 206,691   | 230,988   | (NA)    |
| 3334- | Primary aluminum <sup>5, 6</sup> .....   | 1,420,182 | 1,304,551         | 1,293,828         | 1,261,576         | 1,285,023         | 1,057,801 | 767,512   | (NA)    |
| 33347 | Aluminum ingot produced in primary aluminum reduction plants <sup>5</sup> .....              | 1,234,704 | 1,304,551         | 1,293,828         | 1,261,576         | 1,285,023         | 1,057,801 | 767,512   | (NA)    |
| 33348 | Aluminum extrusion billet, produced in primary aluminum reduction plants <sup>6</sup> .....  | 185,478   |                   |                   |                   |                   |           |           |         |
| 3339- | Primary nonferrous metals, n.e.c. <sup>7, 8</sup> .....                                      | 439,385   | (S)               | (S)               | (S)               | (S)               | 362,694   | 480,604   | (NA)    |
| 33395 | Precious metals (primary smelting) <sup>7</sup> .....  | 246,426   | (S)               | (S)               | (S)               | 147,564           | 198,587   | 192,760   | (NA)    |
| 33397 | Other primary nonferrous metals, including magnesium, smelted or refined <sup>8</sup> .....  | 192,959   | 238,939           | 216,842           | 215,638           | 168,402           | 163,326   | 287,844   | (NA)    |
| 33390 | Nonferrous metals, n.e.c., n.s.k.....  | -         | (S)               | (S)               | (S)               | (S)               | 781       | -         | (NA)    |
| 3341- | Secondary nonferrous metals <sup>9</sup> .....   | 3,102,519 | (S)               | (S)               | (S)               | (S)               | 2,409,265 | 2,316,718 | (NA)    |
| 33412 | Secondary copper (ingot, shot, etc.) <sup>9</sup> .....                                      | 668,594   | 636,955           | 615,521           | 602,784           | 474,575           | 479,740   | 522,854   | (NA)    |
| 33413 | Secondary lead (ingot, shot, etc.) <sup>9</sup> .....  | 276,388   | 260,103           | 275,539           | 279,721           | 277,633           | 280,937   | 314,760   | (NA)    |
| 33414 | Secondary zinc (ingot, shot, etc.) <sup>9</sup> .....  | 273,740   | 243,684           | 252,888           | 246,613           | 237,816           | 206,691   | 230,988   | (NA)    |
| 33417 | Aluminum ingot produced by secondary smelters <sup>9</sup> .....                             | 1,234,704 | 1,304,551         | 1,293,828         | 1,261,576         | 1,285,023         | 1,057,801 | 767,512   | (NA)    |
| 33418 | Aluminum extrusion billet, produced by secondary smelters <sup>9</sup> .....                 | 185,478   |                   |                   |                   |                   |           |           |         |
| 33415 | Precious metals produced by secondary refineries (pig, ingot, shot, etc.) <sup>9</sup> ..... | 246,426   | (S)               | (S)               | (S)               | 147,564           | 198,587   | 192,760   | (NA)    |
| 33416 | Other secondary nonferrous metals (pig, ingot, shot, etc.) <sup>9</sup> .....                | 192,959   | 238,939           | 216,842           | 215,638           | 168,402           | 163,326   | 287,844   | (NA)    |
| 33410 | Secondary smelting, refining, and alloying of nonferrous metals and alloys, n.s.k.....       | 24,230    | (S)               | (S)               | (S)               | (S)               | 22,183    | -         | -       |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>2</sup>Includes product class 33412, Secondary copper, (ingot, shot, etc.), made by secondary smelters, which is primary to industry 3341.

<sup>3</sup>Includes product class 33413, Secondary lead (ingot, shot, etc.), made by secondary smelters, which is primary to industry 3341.

<sup>4</sup>Includes product class 33414, Secondary zinc (ingot, shot, etc.), made by secondary smelters, which is primary to industry 3341.

<sup>5</sup>Includes product class 33417, Aluminum ingot, produced by secondary nonferrous smelters, which is primary to industry 3341 and product class 33527, Aluminum ingot, produced in aluminum rolling mills, which is primary to industry 3352.

<sup>6</sup>Includes product class 33418, Aluminum extrusion billet, produced by secondary smelters, which is primary to industry 3341, and 33528, Aluminum extrusion billet, produced in aluminum rolling mills, which is primary to industry 3352.

<sup>7</sup>Includes product class 33415, Precious metals, produced by secondary refineries (pig ingot, shot, etc.), which is primary to industry 3341.

<sup>8</sup>Includes product class 33416, Other secondary nonferrous metals (pig, ingot, shot, etc.), shipped by secondary smelters, which is primary to industry 3341.

<sup>9</sup>The product classes within industry 3341 include the values for the comparable product class for the specified metal for Industry Group 333- as listed below. The total for 3341- includes all such product classes. Also, product class 33417 includes 33527, Aluminum ingot, and product class 33418 includes 33528, Aluminum extrusion billet, both made in aluminum rolling mills which are primary to industry 3352.

33412 comparable to 33312  
33413 comparable to 33323  
33414 comparable to 33334  
33415 comparable to 33395  
33416 comparable to 33397  
33417 comparable to 33347  
33418 comparable to 33348

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area     | Value of shipments | Product class and geographic area                      | Value of shipments | Product class and geographic area                                     | Value of shipments |
|---------------------------------------|--------------------|--|--------------------|---|--------------------|
|                                       | 1963 <sup>1</sup>  |  | 1963 <sup>2</sup>  |   | 1963 <sup>1</sup>  |
| SECONDARY COPPER<br>(33312 and 33412) |                    | SECONDARY ZINC<br>(33334 and 33414)                    |                    | OTHER SECONDARY NONFERROUS<br>METALS (33397 and 33416)--<br>Continued |                    |
| U.S. total.....                       | 668,594            | U.S. total.....  | 273,740            | North Central.....  | 47,164             |
| New England.....                      | 9,525              | Northeast.....   | 74,381             | Ohio.....   | 27,834             |
| Middle Atlantic.....                  | 193,051            | Pennsylvania.....                                      | 62,844             | Indiana.....  | 3,999              |
| Pennsylvania.....                     | 48,890             | North Central.....                                     | 44,613             | Illinois.....   | 8,507              |
| North Central.....                    | 148,771            | Illinois.....  | 37,661             | South Atlantic.....   | 7,127              |
| Ohio.....                             | 17,100             | South.....   | 111,830            | East South Central.....   | 13,021             |
| Illinois.....                         | 68,495             | Oklahoma.....  | 46,009             | West South Central.....   | 57,026             |
| Michigan.....                         | 52,146             | West.....  | 42,916             | Texas.....  | 50,132             |
| South.....                            | 39,310             | California.....  | 5,464              | Mountain.....   | 16,375             |
| West.....                             | 277,937            |  |                    | Pacific.....  | 10,710             |
| SECONDARY LEAD<br>(33323 and 33413)   |                    | PRECIOUS METALS<br>(33395 and 33415)                   |                    | ALUMINUM INGOT<br>(33347, 33417 and 33527)                            |                    |
| U.S. total.....                       | 276,388            | U.S. total.....  | 246,426            | U.S. total.....   | 1,234,704          |
| Northeast.....                        | 58,985             | New England.....                                       | 9,580              | Northeast.....  | 173,619            |
| New York.....                         | 16,310             | Middle Atlantic.....                                   | 97,321             | New York.....   | 145,374            |
| New Jersey.....                       | 29,959             | New York.....  | 7,770              | New Jersey.....   | 8,156              |
| East North Central.....               | 78,282             | North Central.....                                     | 44,403             | Pennsylvania.....   | 15,259             |
| Ohio.....                             | 13,568             | South and West.....                                    | 95,122             | East North Central.....   | 225,825            |
| Illinois.....                         | 45,163             |  |                    | Ohio.....   | 149,612            |
| Michigan.....                         | 7,034              | OTHER SECONDARY NONFERROUS<br>METALS (33397 and 33416) |                    | Indiana.....  | 33,056             |
| West North Central.....               | 48,992             | U.S. total.....  | 192,959            | Illinois.....   | 41,264             |
| South Atlantic.....                   | 14,637             | New England.....                                       | 4,569              | West North Central.....   | 10,977             |
| North Carolina.....                   | 2,152              | Middle Atlantic.....                                   | 36,967             | South.....  | 515,399            |
| East South Central.....               | 2,249              | New York.....  | 11,865             | West.....   | 308,884            |
| West South Central.....               | 19,408             | New Jersey.....  | 5,772              | Washington.....   | 211,730            |
| West.....                             | 53,835             | Pennsylvania.....                                      | 19,330             | California.....   | 18,012             |
| California.....                       | 27,762             |  |                    | ALUMINUM EXTRUSION BILLET<br>(33348, 33418, and 33528)                |                    |
|                                       |                    |  |                    | U.S. total.....   | 185,478            |
|                                       |                    |  |                    | Northeast and North Central   | 71,979             |
|                                       |                    |  |                    | South and West.....   | 113,499            |
|                                       |                    |  |                    | Washington.....   | 22,829             |

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosures of individual company figures: Product classes 33312 and 33412, Massachusetts, New York, New Jersey, Indiana, Kansas, Delaware, Maryland, Tennessee, Alabama, Texas, Montana, New Mexico, Arizona, Utah, Washington, and California; 33323 and 33413, Pennsylvania, Indiana, Wisconsin, Minnesota, Missouri, Nebraska, Delaware, Maryland, Florida, Tennessee, Louisiana, Texas, Idaho, Washington and Oregon; 33334 and 33414, New York, New Jersey, Ohio, Delaware, West Virginia, Arkansas, Texas, Montana, and Idaho; 33347, 33417 and 33527, Connecticut, Michigan, Iowa, Missouri, Nebraska, Kansas, Delaware, Virginia, West Virginia, North Carolina, Kentucky, Tennessee, Alabama, Arkansas, Louisiana, Texas, Montana, and Oregon; 33348, 33418 and 33528, New York, New Jersey, Pennsylvania, Ohio, Indiana, Florida, Kentucky, Arkansas, Louisiana, Texas, Oregon, and California; 33395, 33415, Massachusetts, Rhode Island, New Jersey, Pennsylvania, Illinois, Nebraska, Maryland, Oklahoma, Texas, Idaho, Utah, Washington, and California; 33397 and 33416, New Hampshire, Michigan, Wisconsin, Nebraska, Maryland, Florida, Tennessee, Alabama, Mississippi, Oklahoma, Montana, Idaho, Colorado, Nevada, Oregon, and California.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code  | Material  | Unit of measure              | 1963       |                          | 1958      |                          |
|---|---|------------------------------|------------|--------------------------|-----------|--------------------------|
|   |   |                              | Quantity   | Delivered cost (\$1,000) | Quantity  | Delivered cost (\$1,000) |
| INDUSTRY 3331.—PRIMARY COPPER <sup>1</sup>              |   |                              |            |                          |           |                          |
|   | Materials, containers and supplies, total <sup>2</sup> .....                                |                              | (X)        | 928,334                  | (X)       | 662,392                  |
| 102100  | Copper:   |                              |            |                          |           |                          |
|   | Ores, concentrates and precipitates <sup>3</sup> .....                                      | Gross weight short tons..... | 11,084,813 | 496,250                  | 7,139,653 | 324,142                  |
| 333111  | Elister or anode copper <sup>4</sup> .....  | Short tons.....              | 544,211    | 299,166                  | 512,086   | 256,134                  |
| 999812  | Copper and copper-base alloy scrap (purchased scrap only).....                              | ...do.....                   | 13,853     | 10,099                   | 13,742    | 5,072                    |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....           |                              | -          | 122,819                  | -         | 77,044                   |
| INDUSTRY 3332.—PRIMARY LEAD <sup>1</sup>                |   |                              |            |                          |           |                          |
|   | Materials, containers and supplies, total <sup>2</sup> .....                                |                              | (X)        | 222,289                  | (X)       | 279,109                  |
| 103200  | Lead:   |                              |            |                          |           |                          |
|   | Ores and concentrates.....  | Gross weight short tons..... | 866,615    | 131,682                  | 980,541   | 121,644                  |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....           |                              | -          | 90,607                   | -         | 157,465                  |
| INDUSTRY 3333.—PRIMARY ZINC <sup>1</sup>                |   |                              |            |                          |           |                          |
|   | Materials, containers and supplies, total.....  |                              | (X)        | 151,884                  | (X)       | 113,813                  |
| 103300  | Zinc:   |                              |            |                          |           |                          |
|   | Ores and concentrates.....  | Gross weight short tons..... | 1,878,788  | 118,433                  | 1,441,946 | 86,156                   |
| 333341  | Refined unalloyed zinc.....   | Short tons.....              | 16,077     | 3,628                    | -         | -                        |
| 999814  | Zinc and zinc-base alloy scrap, including drosses and skimmings (purchased scrap only)..... | ...do.....                   | 106,439    | 12,891                   | 38,149    | 4,417                    |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....           |                              | -          | 16,932                   | -         | 23,240                   |
| INDUSTRY 3334.—PRIMARY ALUMINUM <sup>1</sup>            |   |                              |            |                          |           |                          |
|   | Materials, containers and supplies total.....   |                              | (X)        | 434,328                  | (X)       | 319,639                  |
| 281951  | Alumina.....  | Gross weight short tons..... | 4,461,636  | 291,119                  | 2,978,027 | 216,759                  |
| 999812  | Copper and copper-base alloy scrap (purchased scrap only).....                              | Short tons.....              | 4,566      | 2,622                    | (NA)      | (NA)                     |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....           |                              | (X)        | 140,587                  | -         | 102,880                  |
| INDUSTRY 3341.—SECONDARY NONFERROUS METALS <sup>1</sup> |   |                              |            |                          |           |                          |
|   | Materials, containers and supplies, total.....  |                              | (X)        | 676,580                  | (X)       | 495,744                  |
| 333471  | Aluminum ingot.....   | Short tons.....              | 86,949     | 33,268                   | 20,931    | 10,199                   |
| 999809-999810   | Aluminum and aluminum-base alloy scrap (purchased scrap only):                              |                              |            |                          |           |                          |
|   | From other establishments of the same company.....  | ...do.....                   | 229,830    | 63,690                   | 308,666   | 95,858                   |
|   | From all other sources.....   | ...do.....                   | 333,691    | 82,335                   |           |                          |
| 333121-999812   | Copper:   |                              |            |                          |           |                          |
|   | Refined unalloyed copper (cathodes, ingot, cakes, slabs, etc.)...                           | ...do.....                   | 6,378      | 3,585                    | 3,729     | 2,030                    |
|   | Copper and copper-base alloy scrap (purchased scrap only).....                              | ...do.....                   | 357,494    | 159,015                  | 346,565   | 123,370                  |
| 333233-999813   | Lead:   |                              |            |                          |           |                          |
|   | Refined unalloyed lead.....   | ...do.....                   | 122,903    | 26,455                   | 25,446    | 5,980                    |
|   | Lead and lead-base alloy scrap (purchased scrap only).....                                  | ...do.....                   | 524,080    | 77,249                   | 376,711   | 70,498                   |
| 333341-999814   | Zinc:   |                              |            |                          |           |                          |
|   | Refined unalloyed zinc.....   | ...do.....                   | 68,769     | 17,248                   | 65,346    | 14,284                   |
|   | Zinc and zinc-base alloy scrap (purchased scrap only).....                                  | ...do.....                   | 81,781     | 11,536                   | 79,667    | 10,759                   |

See footnotes at end of table.

TABLE 7A. **Materials by Kind: 1963 and 1958**—Continued

| Code   | Material   | Unit of measure | 1963   |                             | 1958     |                             |
|--------|--|-----------------|--|-----------------------------|----------|-----------------------------|
|        |  |                 | Quantity   | Delivered cost<br>(\$1,000) | Quantity | Delivered cost<br>(\$1,000) |
|        |  |                 | INDUSTRY 3341.—SECONDARY NONFERROUS METALS <sup>1</sup> —Continued |                             |          |                             |
| 333976 | Tin:<br>Refined unalloyed tin.....   | Short tons..... | 13,558   | 31,202                      | 8,945    | 17,012                      |
| 999815 | Tin plate scrap (purchased scrap only).....                                      | ...do.....      | 352,630  | 9,094                       | 501,288  | 11,832                      |
| 970099 | All other materials and components, parts, containers and supplies consumed..... | .....           | -  | 161,903                     | -        | 133,922                     |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>Smelting and refining establishments were instructed to include in their reports the quantity and cost of purchased materials which they processed or furnished to others for toll processing, but to exclude materials processed on a toll basis for others. Accordingly, the data shown in this table excludes considerable quantities of materials consumed by establishments in these industries in the production of the products shown in table 6A.

<sup>2</sup>The cost of materials for this industry includes extensive duplication. This duplication arises because the products of some establishments are used as materials by other establishments in the same industry.

<sup>3</sup>Includes leaching ores received in crude form from mines by leaching plants operated in conjunction with smelting and refining operations. Such ores represent about half the total quantity of ores, concentrates and precipitates consumed but about 15 percent of the value of these materials.

<sup>4</sup>Excludes materials consumed by establishments producing copper by leaching or from Lake Superior ores as no distinct blister stage exists in the production at these establishments.



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Primary copper<br>(SIC 3331) | Primary lead<br>(SIC 3332) | Primary zinc<br>(SIC 3333) | Primary aluminum<br>(SIC 3334) | Primary nonferrous metals, n.e.c.<br>(SIC 3339) | Secondary nonferrous metals<br>(SIC 3341) |
|---|------------------------------|----------------------------|----------------------------|--------------------------------|---|---|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 27,404                       | 5,698                      | 18,758                     | 116,390                        | 9,084   | 11,612                                    |
| Total cost of purchased fuels.....do....  | 19,627                       | 4,909                      | 11,183                     | 27,222                         | 2,768   | 8,675                                     |
| Bituminous coal, lignite, and anthracite:   |                              |                            |                            |                                |   |   |
| Quantity.....1,000 short tons..   | 181                          | (S)                        | 404                        | (S)                            | (S)   | 26  |
| Cost.....\$1,000..  | 1,745                        | (S)                        | 3,277                      | (S)                            | (S)   | 154                                       |
| Coke and breeze:  |                              |                            |                            |                                |   |   |
| Quantity.....1,000 short tons..   | 103                          | (S)                        | 129                        | -                              | (S)   | 33  |
| Cost.....\$1,000..  | 2,232                        | (S)                        | 1,626                      | -                              | (S)   | 821                                       |
| Fuel oil (distillate and residual):   |                              |                            |                            |                                |   |   |
| Quantity.....1,000 barrels of 42 gallons..  | 2,123                        | (S)                        | 17                         | (S)                            | 121   | 794                                       |
| Cost.....\$1,000..  | 5,258                        | (S)                        | 65                         | (S)                            | 463   | 2,895                                     |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |                              |                            |                            |                                |   |   |
| Quantity.....million cu.ft..  | 32,774                       | 4,145                      | 26,541                     | 108,615                        | 8,584   | 7,820                                     |
| Cost.....\$1,000..  | 10,231                       | 1,485                      | 6,195                      | 19,632                         | 2,061   | 3,951                                     |
| Other fuels.....do....  | 161                          | (S)                        | (S)                        | 280                            | 46  | 854                                       |
| Electric energy:  |                              |                            |                            |                                |   |   |
| Purchased:  |                              |                            |                            |                                |   |   |
| Quantity.....million kw.-hrs..  | 969                          | 95                         | 1,364                      | 26,883                         | 1,156   | 193                                       |
| Cost.....\$1,000..  | 7,777                        | 789                        | 7,575                      | 89,168                         | 6,316   | 2,937                                     |
| Generated less sold.....million kw.-hrs..   | 378                          | (S)                        | 649                        | 10,104                         | (S)   | -   |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 538                          | 63                         | 458                        | 2,339                          | 103   | 139                                       |
| Prime movers, total.....do....  | 304                          | 11                         | 194                        | 1,843                          | 6   | 42  |
| Driving generators.....do....   | 219                          | 3                          | 174                        | 1,787                          | 3   | 8   |
| Not driving generators.....do....   | 85                           | 8                          | 20                         | 56                             | 3   | 34  |
| Electric motors, total.....do....   | 319                          | 54                         | 305                        | 724                            | 97  | 97  |
| Driven by purchased energy.....do....   | 234                          | 52                         | 264                        | 497                            | 97  | 97  |
| Driven by energy generated at establishment.....do....  | 85                           | 2                          | 41                         | 228                            | (Z)   | -   |
| Aggregate horsepower per 100 production workers.....  | 4,205                        | 3,063                      | 6,645                      | 17,102                         | 2,817   | 1,119                                     |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization                                       | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3339-                          | PRIMARY NONFERROUS METALS, N.E.C.  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 35                      | 5,064          | 34,807            | 3,782              | 8,148             | 24,701          | 103,830  | 115,519                     | 212,176                      | 6,435                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 27                      | 3,435          | 23,877            | 2,722              | 5,774             | 17,847          | 64,994   | 90,797                      | 150,472                      | 4,740                               |
| 3341-                          | SECONDARY NONFERROUS METALS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 459                     | 15,445         | 96,302            | 11,336             | 23,779            | 60,510          | 228,190  | 823,132                     | 1,045,522                    | 17,891                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 387                     | 12,506         | 79,008            | 9,083              | 19,093            | 48,774          | 174,128  | 692,594                     | 864,543                      | 15,242                              |
|                                | 75-89% specialization.....   | 20                      | 708            | 3,907             | 565                | 1,191             | 2,970           | 14,293   | 40,671                      | 53,725                       | 283                                 |
| 33412                          | Secondary copper (primary product class of estab.).....                                      | 66                      | 3,617          | 23,274            | 2,662              | 5,444             | 14,633          | 44,176   | 249,732                     | 291,467                      | 3,613                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 40                      | 1,579          | 10,252            | 1,128              | 2,400             | 6,101           | 17,504   | 124,738                     | 142,097                      | 2,350                               |
|                                | 75-89% specialization.....   | 9                       | 1,058          | 6,977             | 822                | 1,662             | 4,816           | 14,284   | 73,104                      | 85,618                       | 1,119                               |
| 33413                          | Secondary lead (primary product class of estab.).....  | 106                     | 4,176          | 25,333            | 3,074              | 6,497             | 15,862          | 62,663   | 213,790                     | 271,940                      | 2,775                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 71                      | 2,240          | 13,538            | 1,660              | 3,520             | 8,450           | 32,983   | 94,975                      | 125,673                      | 1,719                               |
|                                | 75-89% specialization.....   | 17                      | 820            | 4,820             | 615                | 1,294             | 3,245           | 10,799   | 50,241                      | 60,884                       | 152                                 |
| 33414                          | Secondary zinc (primary product class of estab.).....  | 41                      | 713            | 4,592             | 554                | 1,145             | 3,007           | 13,124   | 25,813                      | 38,416                       | 308                                 |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 30                      | 352            | 2,185             | 273                | 577               | 1,392           | 5,536  | 11,658                      | 16,884                       | 123                                 |
| 33415                          | Precious metals produced by secondary refiners (primary product class of estab.).....        | 42                      | 1,041          | 6,318             | 634                | 1,260             | 3,308           | 22,729   | 57,404                      | 86,396                       | 1,235                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 34                      | 523            | 3,416             | 305                | 645               | 1,656           | 14,762   | 45,563                      | 66,700                       | 1,119                               |
| 33416                          | Other secondary nonferrous metals, (primary product class of estab.)                         | 28                      | 701            | 5,180             | 380                | 839               | 2,466           | 17,110   | 22,949                      | 38,961                       | 2,799                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 20                      | 606            | 4,510             | 324                | 717               | 2,142           | 12,633   | 17,599                      | 29,199                       | 2,671                               |
| 33417                          | Aluminum ingot, produced by secondary smelters (primary product class of estab.).....        | 76                      | 3,916          | 24,691            | 3,007              | 6,416             | 16,426          | 49,834   | 211,707                     | 258,687                      | 5,272                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 60                      | 2,861          | 17,974            | 2,261              | 4,846             | 12,358          | 36,145   | 150,531                     | 186,040                      | 4,723                               |
|                                | 75-89% specialization.....   | 9                       | 599            | 3,775             | 397                | 787               | 2,113           | 8,140  | 31,531                      | 38,218                       | 439                                 |
| 33418                          | Aluminium extrusion billet, produced by secondary smelters (primary product class of estab.) | 8                       | 243            | 1,364             | 191                | 401               | 944             | 3,095  | 13,955                      | 16,976                       | 116                                 |



## NONFERROUS METAL MILL AND FOUNDRY PRODUCTS

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3351—Rolling, Drawing, and Extruding of Copper
- 3352—Rolling, Drawing, and Extruding of Aluminum
- 3356—Rolling, Drawing, and Extruding of Nonferrous Metals, Except Copper and Aluminum
- 3357—Drawing and Insulating of Nonferrous Wire
- 3361—Aluminum Castings
- 3362—Brass, Bronze, Copper, Copper-Base Alloy Castings
- 3369—Nonferrous Castings, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3351—ROLLING, DRAWING, AND EXTRUDING OF COPPER

This industry comprises establishments primarily engaged in rolling, drawing, and extruding copper, brass, bronze, and other copper base alloy basic shapes, such as plate, sheet, strip, bar, and tubing. Establishments primarily engaged in recovering copper and its alloys from scrap or dross are classified in industry 3341. For a detailed list of products of industry 3351, refer to table 6A-1 product codes 3351111 to 3351288.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Copper Rolling and Drawing Industry totaled \$1,657 million. This amount included shipments of rolled, drawn, and extruded copper (primary products) valued at \$1,409 million, shipments of other products (secondary products) valued at \$154 million, and miscellaneous receipts at \$94 million.

This industry's shipments of rolled, drawn, and extruded copper represented 90 percent of its total product shipments. The industry specialization ratio in 1958 was 88 percent.

Shipments of rolled, drawn, and extruded copper by this industry represented 91 percent of all shipments of these products (\$1,545 million) by all industries. In 1958 the coverage ratio was 94 percent.

The production index for the primary products of the industry increased to 129 in 1963 from the 1958 level of 88. The unit value index for 1963 was 100 compared to 99 in 1958. Both indexes were computed on a basis of 1954 = 100.

This industry includes a variety of operations ranging from rod, wire, tube, and flat products mills to machine shop and fabricating activities. Accordingly, in order to provide a measure of the relative importance of these departments, data were collected on man-hours worked and production worker wages paid for each of several departments. The resulting data are shown in table 9A.

Also, based on the data reported for these various departmental operations, it was possible to further classify the establishments of this industry into two "subindustries," i.e., establishments with casting facilities and establishments without casting facilities.

Separate data are shown for these subindustries in tables 1, 2, 3, 4, 5B, 7A, 8, and 9A.

### 3352—ROLLING, DRAWING, AND EXTRUDING OF ALUMINUM

This industry comprises establishments primarily engaged in rolling, drawing, and extruding aluminum and aluminum base alloy basic shapes, such as plate, sheet, strip, bar, tubing, and foil. For a detailed list of products of industry 3352, refer to table 6A-1, product codes 33521111 to 3352811.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Aluminum Rolling and Drawing Industry totaled \$2,196 million. This amount included shipments of rolled, drawn, and extruded aluminum (primary products) valued at \$1,758 million, shipments of other products (secondary products) valued at \$304 million, and miscellaneous receipts at \$134 million.

This industry's shipments of rolled, drawn, and extruded aluminum represented 85 percent of its total product shipments. The industry specialization ratio in 1958 was 91 percent. Secondary products shipped by this industry in 1963 included sheet metal roofing and siding and roof drainage equipment (\$30 million), and metal foil and leaf (\$121 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 49 percent of the total industry shipments are represented by plants specializing in product class 33522, aluminum plate and sheet (including foil stock).

Shipments of rolled, drawn, and extruded aluminum by this industry represented 93 percent of all shipments of these products (\$1,899 million) by all industries. In 1958 the coverage ratio was 92 percent.

The production index for the primary products of the industry increased to 214 in 1963 from the 1958 level of 136. The unit value index for 1963 was 98 compared to 112 in 1958. Both indexes were computed on a basis of 1954 = 100.

This industry includes a variety of operations ranging from melting (except foundry) through mills such as sheet and plate; foil rolling; wire, rod and bar; extrusion; and tube to fabricating activities. Accordingly, in order to provide a measure of the relative importance of these departments, data were collected on man-hours worked and production worker wages paid, for each of several departments. The resulting data are shown in table 9A.



In addition, companies with establishments classified in this industry were queried as to whether or not the company also operated aluminum reduction facilities. Based on this inquiry, it was possible to further classify the establishments into two "subindustries," i.e., establishments operated by primary (integrated) producers, and establishments operated by nonintegrated producers. This subindustry classification system differs significantly from the subindustry definitions used in industries 3312, Blast Furnaces and Steel Mills; 3351, Copper Rolling and Drawing; and 3357, Nonferrous Wire Drawing, Etc., in that the definition for these other primary metal industries are based on the types of facilities existing at each separate establishment.

Separate data are shown for the subindustries of this industry in tables 1, 3, 4, and 9A.

#### 3356—ROLLING, DRAWING, AND EXTRUDING OF NONFERROUS METALS, EXCEPT COPPER AND ALUMINUM

This industry comprises establishments primarily engaged in rolling, drawing, and extruding nonferrous metals other than copper (industry 3351), and aluminum (industry 3352). The products of this industry are produced in the form of basic shapes such as plate, sheet, strip, bar, and tubing. Establishments primarily engaged in recovering nonferrous metals and alloys from scrap or dross are classified in industry 3341; in manufacturing gold, silver, tin, and other foils, except aluminum, in industry 3497; and aluminum foil in industry 3352. For a detailed list of products of industry 3356, refer to table 6A-1, product codes 3356043 to 3356098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Rolling and Drawing, N.E.C., Industry totaled \$641 million. This amount included shipments of rolled, drawn, and extruded nonferrous metals, n.e.c. (primary products) valued at \$511 million, shipments of other products (secondary products) valued at \$99 million, and miscellaneous receipts (mainly resales) at \$30 million.

This industry's shipments of rolled, drawn, and extruded nonferrous metals, n.e.c., represented 84 percent of its total product shipments. The industry specialization ratio in 1958 was 77 percent.

Shipments of rolled, drawn, and extruded nonferrous metals, n.e.c., by this industry represented 81 percent of all shipments of these products (\$631 million) by all industries. In 1958 the coverage ratio was 82 percent. Other industries shipping rolled, drawn, and extruded nonferrous metals, n.e.c., included industry 3351, Copper Rolling and Drawing, \$19 million; and industry 3341, Secondary Nonferrous Metals, \$17 million.

The production index for the primary products of the industry increased to 168 in 1963 from the 1958 level of 116. The unit value index for 1963 was 104 compared to 103 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3357—DRAWING AND INSULATING OF NONFERROUS WIRE

This industry comprises establishments primarily engaged in drawing, drawing and insulating, and insulating wire and cable of nonferrous metals from purchased wire bars, rods, or wire. For a detailed list of products of industry 3357, refer to table 6A-1, product codes 3357111 to 3357998.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Since this industry includes both wire drawing (including wire redrawing) establishments, and establishments insulating wire and cable from purchased wire, some duplication of value exists in both the value of shipments and cost of materials, etc., for the industry. However, as shown in the data on materials consumed in table 7A for copper and aluminum wire for redrawing, and copper and aluminum bare wire, such duplication approximates \$160 million, less than 15 percent of the total cost of materials, etc., for the industry.

Value of shipments and other receipts of the Nonferrous Wire Drawing, Etc., Industry totaled \$2,118 million. This amount included shipments of drawn and insulated nonferrous wire (primary products) valued at \$1,885 million, shipments of other products (secondary products) valued at \$176 million, and miscellaneous receipts at \$56 million.

This industry's shipments of drawn and insulated nonferrous wire represented 91 percent of its total product shipments. The industry specialization ratio in 1958 was 95 percent.

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 36 percent of the total industry shipments are represented by plants specializing in product class 33574, communication wire and cable, and 23 percent in product class 33579, other insulated wire and cable, n.e.c.

Shipments of drawn and insulated nonferrous wire by this industry represented 86 percent of all shipments of these products (\$2,185 million) by all industries. In 1958 the coverage ratio was 83 percent.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3357, e.g., aluminum and aluminum-base alloy wire and cable (including ACSR), 52 percent; other bare nonferrous metal wire made in nonferrous wire drawing plants, 57 percent; nonferrous wire cloth and other woven wire products, 30 percent; and appliance wire and cord and flexible cord sets, 61 percent.

The production index for the primary products of the industry increased to 146 in 1963 from the 1958 level of 112. The unit value index for 1963 was 103 compared to 102 in 1958. Both indexes were computed on a basis of 1954 = 100.

This industry includes a variety of operations ranging from rod mill, and wire drawing mill through insulating to fabricating activities. Accordingly, in order to provide a measure of the relative importance of these departments, data were collected on man-hours worked and production worker wages paid, for each of several departments. The resulting data are shown in table 9A.

Also, based on the data reported for these various departmental operations, it was possible to further classify the establishments into four "subindustries," i.e., establishments with wire drawing department and rod mill, establishments with wire drawing department with neither a rod mill nor an insulating department, establishments with wire drawing and insulating departments but without rod mill, and establishments without a wire drawing department.

The subindustry data shown in tables 1, 2, 3, 4, 5B, 7A, 8, and 9A are based on this system of classification.

#### NONFERROUS FOUNDRIES

This group is comprised of three foundry industries, namely industry 3361, Aluminum Castings, industry 3362, Brass, Bronze, Copper Castings, and industry 3369, Nonferrous Castings, N.E.C. These foundry industries comprise establishments primarily engaged



in manufacturing aluminum castings, including cast aluminum cooking utensils (3361), brass, bronze, and copper castings including unmachined bearings and bushings (3362), and other nonferrous castings (3369).

For these industries, captive production (that is, the tonnage of castings produced for incorporation into the final product of the plant or company) is a particularly important factor. Distinction is made between rough castings and castings which are machined or further processed and incorporated into other products. The removal of gates, risers, sprues, and tumbling, dipping, and sand blasting do not constitute machining. Plants primarily engaged in manufacturing castings are included in the foundry industries; plants primarily engaged in further processing castings into parts for metal products or machinery are classified in other major groups.

For the 1963 and 1958 Census of Manufactures separate establishment reports were received from all commercial (jobbing) foundries and from those captive foundries which were operated as separate establishments by the reporting companies. These two groups comprise the types of establishments included in industries 3361, 3362, and 3369. However, where the captive foundry operation was completely integrated with the operations of the entire plant, no separate establishment report was received for the foundry activity. In these instances data were obtained on the tonnage of castings produced and consumed and on the number of employees usually engaged in the captive foundry operation. However, establishments with such foundry departments were classified on the basis of the plant's final product and accordingly, the general statistics on employment, payrolls, cost of materials, etc., are included in the data for such industries as Plumbing Fittings, Brass Goods (3432) and Valves and Pipe Fittings (3494), etc.

The data shown in table 6A-1 for nonferrous castings represent total shipments and transfers including the quantity of castings shipped by establishments classified in industries other than the foundry industries (3361, 3362, and 3369). For those industries where captive foundry departments are particularly important, data on the tonnage of castings produced and consumed are shown in table 7A of the individual industry reports covering the specific industries.

During 1963 and 1958 the Bureau of the Census also collected and published monthly data on shipments of nonferrous castings. These monthly data were derived from a sample survey and were published in Current Industrial Reports Series M33E, Nonferrous Castings. The M33E series includes data for both commercial and captive foundry production and shows separately shipments "for sale" and shipments "for own use."

It should be specifically noted that the quantity and value data on shipments of nonferrous castings in table 6A-1 do not include the quantity and value of the large quantity of castings produced by establishments classified in other industries which produce castings only for incorporation into their own products or for internal use but not for sale as such.

### 3361—ALUMINUM CASTINGS

This industry comprises establishments primarily engaged in manufacturing castings and die castings of aluminum. For a detailed list of products of industry 3361, refer to table 6A-1, product codes 3361011 to 3361075.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Aluminum Castings Industry totaled \$640 million. This amount included shipments of aluminum and aluminum-base alloy castings (primary products) valued at \$505 million, shipments of other products (secondary products) valued at \$122 million, and miscellaneous receipts at \$14 million.

This industry's shipments of aluminum and aluminum-base alloys castings represented 81 percent of its total product shipments. The industry specialization ratio in 1958 was 79 percent. Secondary products shipped by this industry in 1963 consisted mainly of nonferrous castings, n.e.c. (\$60 million), and special dies and tools, die sets, jigs and fixtures (\$18 million).

Shipments of aluminum and aluminum-base alloy castings by this industry represented 83 percent of all shipments of these products (\$607 million) by all industries. In 1958 the coverage ratio was 81 percent. Other industries shipping aluminum and aluminum-base alloy castings included industry 3362, Brass, Bronze, Copper Castings, \$18 million; and industry 3369, Nonferrous Castings, N.E.C., \$39 million.

The production index for the primary products of the industry increased to 174 in 1963 from the 1958 level of 103. The unit value index for 1963 was 92 compared to 102 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3362—BRASS, BRONZE, COPPER, COPPER-BASE ALLOY CASTINGS

This industry comprises establishments primarily engaged in manufacturing castings and die castings of copper and copper-base alloy. For a detailed list of products of industry 3362, refer to table 6A-1, product codes 3362011 to 3362071.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Brass, Bronze, Copper Castings Industry totaled \$288 million. This amount included shipments of copper and copper-base alloy castings (primary products) valued at \$235 million, shipments of other products (secondary products) valued at \$44 million, and miscellaneous receipts at \$9 million.

This industry's shipments of copper and copper-base alloy castings represented 84 percent of its total product shipments. The industry specialization ratio in 1958 was 85 percent. Secondary products shipped by this industry in 1963 consisted mainly of aluminum and aluminum-base alloy castings (\$18 million), and steel castings (\$6 million).

Shipments of copper and copper-base alloy castings by this industry represented 78 percent of all shipments of these products (\$300 million) by all industries. In 1958 the coverage ratio was 81 percent. Other industries shipping copper and copper-base alloy castings included industry 3361, Aluminum Castings, \$16 million; and industry 3321, Gray Iron Foundries, \$10 million.

The production index for the primary products of the industry increased to 99 in 1963 from the 1958 level of 77. The unit value index for 1963 was 129 compared to 123 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3369—NONFERROUS CASTINGS, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing castings and die castings of nonferrous materials, except aluminum, copper, and copper-base alloys. For a detailed list of products of industry 3369, refer to table 6A-1, product codes 3369011 to 3369098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Nonferrous Castings, N.E.C., industry totaled \$303 million. This amount included shipments of nonferrous castings, n.e.c. (primary



products) valued at \$229 million, shipments of other products (secondary products) valued at \$64 million, and miscellaneous receipts (mainly resales) at \$9 million.

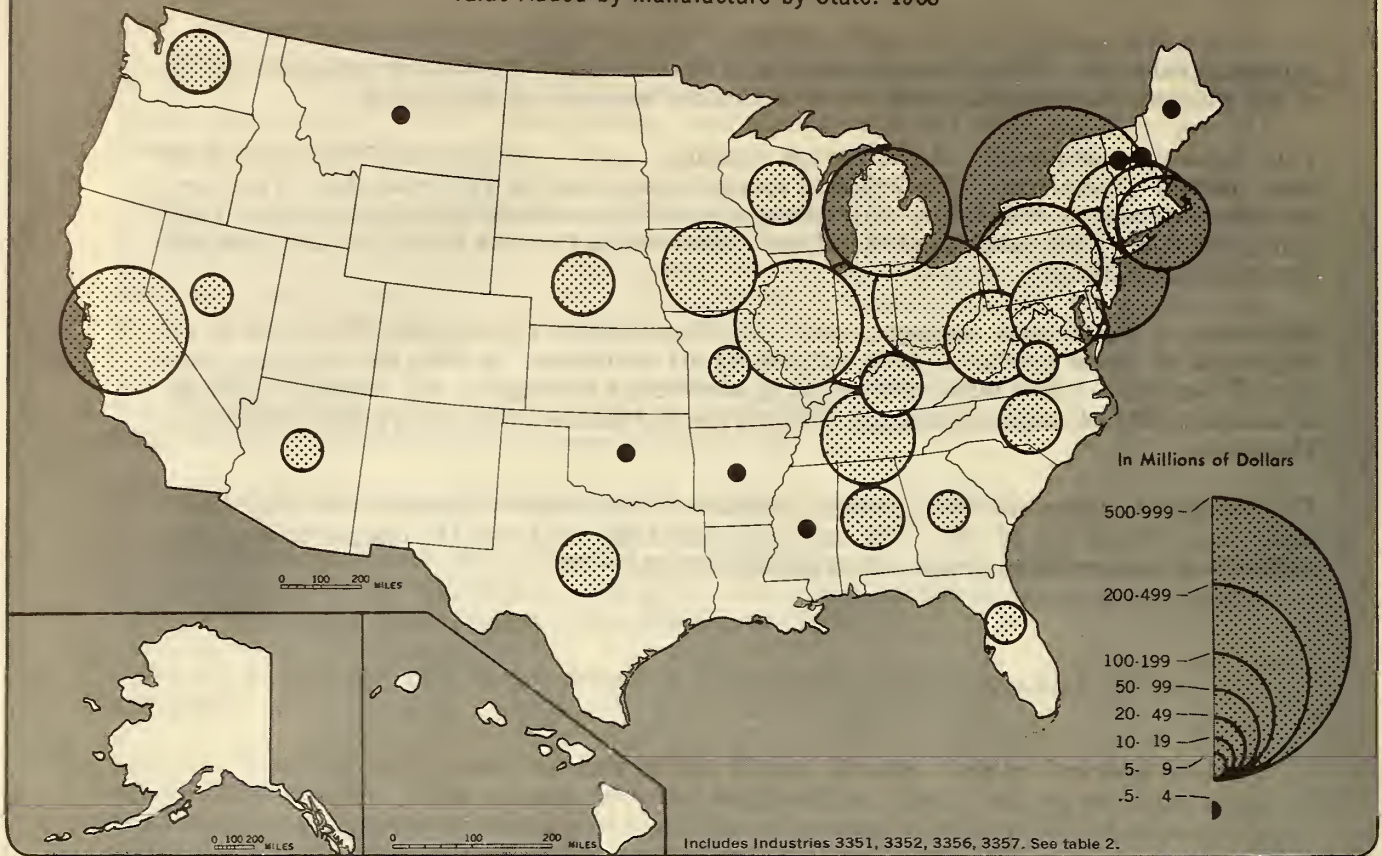
This industry's shipments of nonferrous castings, n.e.c., represented 78 percent of its total product shipments. The industry specialization ratio in 1958 was also 78 percent. Secondary products shipped by this industry in 1963 consisted mainly of aluminum and aluminum-base alloy castings (\$39 million), and special dies and tools, die sets, jigs and fixtures (\$10 million).

Shipments of nonferrous castings, n.e.c., by this industry represented 75 percent of all shipments of these products (\$306 million) by all industries. In 1958 the coverage ratio was 77 percent. Other industries shipping nonferrous castings, n.e.c., consisted mainly of industry 3361, Aluminum Castings, \$60 million; and industry 3321, Gray Iron Foundries, \$3 million.

The production index for the primary products of the industry increased to 125 in 1963 from the 1958 level of 95. The unit value index for 1963 was 110 compared to 111 in 1958. Both indexes were computed on a basis of 1954 = 100.

# NONFERROUS ROLLING AND DRAWING: SIC 335

Value Added by Manufacture by State: 1963



# NONFERROUS FOUNDRIES: SIC 336

Value Added by Manufacture by State: 1963

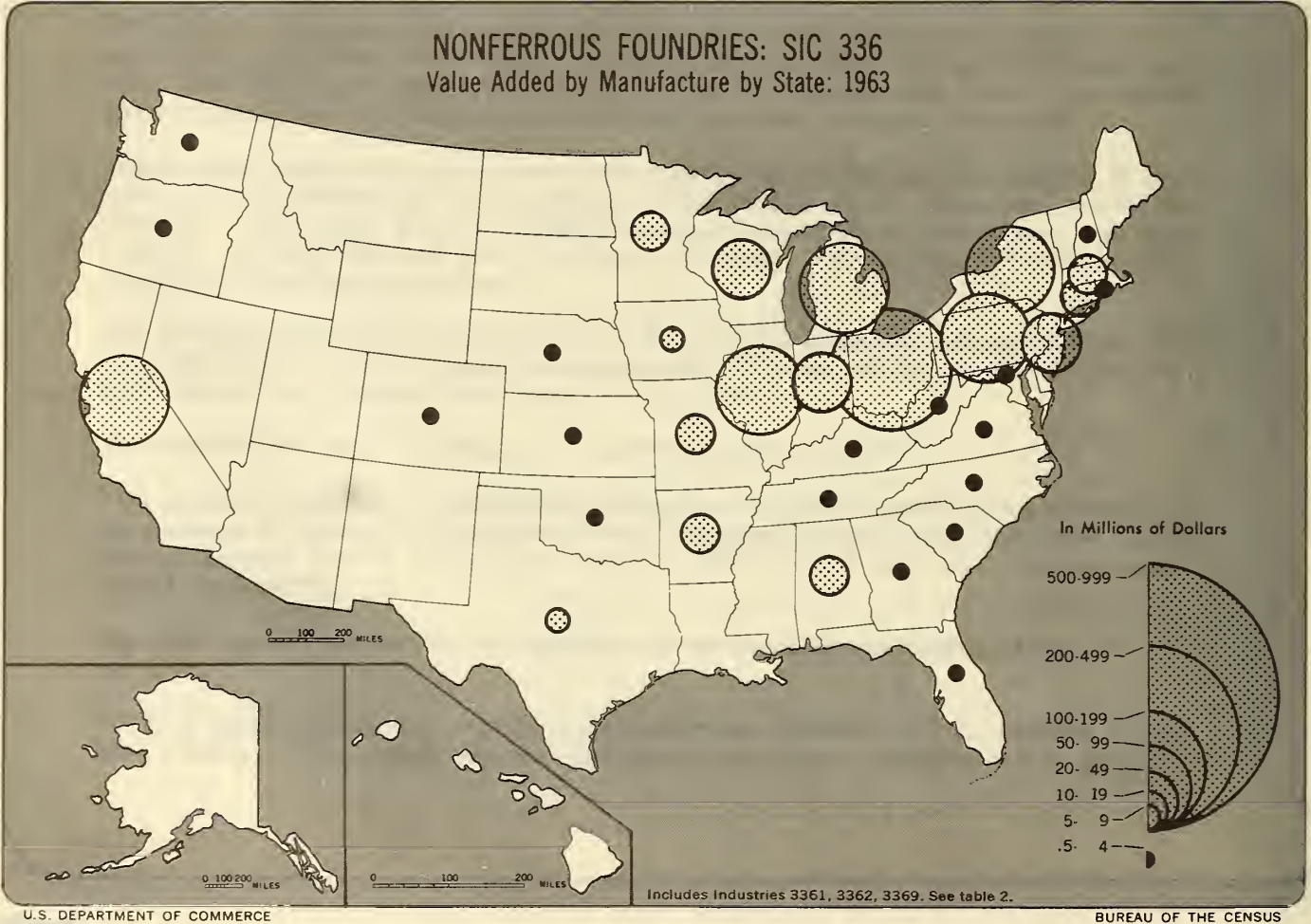




TABLE 1. General Statistics: 1963 and Earlier Years

| Year   | Com-panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted<br>(\$1,000) | Cost of materials<br>(\$1,000) | Value of shipments<br>(\$1,000) | Capital expenditures, new<br>(\$1,000) | Special-ization ratio (per-cent) | Cov-erage ratio (per-cent) |
|--|------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|---|--------------------------------|---------------------------------|--|----------------------------------|----------------------------|
|  |                        | Total<br>(number) | With 20 employ-ees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                |                                 |  |                                  |                            |
| INDUSTRY 3351.—COPPER ROLLING AND DRAWING                                    |                        |                   |  |                   |                      |                    |                      |                    |   |                                |                                 |  |                                  |                            |
| 1963.....  | 81                     | 112               | 92                                     | 38,949            | 260,320              | 31,481             | 65,746               | 200,171            | 478,393   | 1,188,548                      | 1,657,526                       | 43,462                                 | 90                               | 91                         |
| 1962 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 41,223            | 269,614              | 32,404             | 67,202               | 192,235            | 476,731   | 1,177,344                      | 1,654,423                       | 39,407                                 | (NA)                             | (NA)                       |
| 1961 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 39,417            | 250,060              | 30,854             | 62,931               | 175,081            | 473,525   | 1,017,457                      | 1,479,605                       | (26,401)                               | (NA)                             | (NA)                       |
| 1960 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 39,589            | 237,445              | 31,786             | 62,989               | 165,294            | 452,485   | 994,832                        | 1,416,889                       | 17,421                                 | (NA)                             | (NA)                       |
| 1959 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 43,122            | 260,085              | 34,598             | 72,492               | 198,973            | 553,938   | 1,092,183                      | 1,639,306                       | 25,326                                 | (NA)                             | (NA)                       |
| 1958 (new).....  | 75                     | 105               | 89                                     | 40,329            | 222,259              | 31,792             | 63,291               | 165,367            | 445,371   | 775,650                        | 1,209,926                       | 44,080                                 | 88                               | 94                         |
| 1958 (old) <sup>2</sup> .....  | (NA)                   | 103               | 90                                     | 41,283            | 227,697              | 32,641             | 65,116               | 170,205            | 458,328   | 819,162                        | 1,267,722                       | 30,757                                 | 89                               | 89                         |
| 1957 <sup>2</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 42,559            | 224,258              | 34,148             | 66,279               | 167,647            | 459,292   | 920,696                        | 1,385,642                       | 42,123                                 | (NA)                             | (NA)                       |
| 1956 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 45,485            | 239,589              | 36,760             | 75,622               | 182,937            | 522,448   | 1,368,856                      | 1,876,612                       | 28,964                                 | (NA)                             | (NA)                       |
| 1955 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 45,009            | 231,737              | 36,618             | 77,566               | 178,686            | 513,129   | 1,288,475                      | 1,788,036                       | 32,874                                 | (NA)                             | (NA)                       |
| 1954.....  | 64                     | 89                | 77                                     | 41,906            | 195,225              | 34,072             | 68,017               | 147,874            | 422,916   | 912,290                        | 1,334,360                       | 30,540                                 | 95                               | 90                         |
| 1947.....  | 56                     | 79                | 72                                     | 53,891            | 166,148              | 45,946             | 93,741               | 134,019            | 302,687   | 761,346                        | 1,064,033                       | 21,617                                 | (NA)                             | (NA)                       |
| 1939 <sup>3</sup> .....  | (NA)                   | 57                | (NA)                                   | (NA)              | (NA)                 | 33,597             | (NA)                 | 48,288             | 135,642   | 214,503                        | 350,145                         | (NA)                                   | (NA)                             | (NA)                       |
| 1963.....  | 81                     | 112               | 92                                     | 38,949            | 260,320              | 31,481             | 65,746               | 200,171            | 478,393   | 1,188,548                      | 1,657,526                       | 43,462                                 | 90                               | 91                         |
| Establishments with casting department <sup>4</sup> .....                    | (NA)                   | 36                | 36                                     | 25,752            | 174,972              | 20,774             | 43,765               | 135,769            | 305,113   | 687,401                        | 985,609                         | 26,965                                 | (NA)                             | (NA)                       |
| Establishments without casting department <sup>4</sup> .....                 | (NA)                   | 76                | 56                                     | 13,197            | 85,348               | 10,707             | 21,981               | 64,402             | 173,280   | 501,147                        | 671,917                         | 16,497                                 | (NA)                             | (NA)                       |
| INDUSTRY 3352.—ALUMINUM ROLLING AND DRAWING                                  |                        |                   |  |                   |                      |                    |                      |                    |   |                                |                                 |  |                                  |                            |
| 1963.....  | 166                    | 212               | 153                                    | 54,263            | 376,647              | 42,750             | 89,868               | 278,469            | 721,171   | 1,524,841                      | 2,196,439                       | 81,282                                 | 85                               | 93                         |
| 1962 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 54,432            | 343,649              | 42,796             | 89,649               | 252,826            | 611,241   | 1,423,470                      | 2,016,613                       | 76,588                                 | (NA)                             | (NA)                       |
| 1961 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 52,100            | 321,342              | 40,726             | 86,251               | 233,497            | 564,573   | 1,338,321                      | 1,881,669                       | 60,020                                 | (NA)                             | (NA)                       |
| 1960 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 52,646            | 310,465              | 40,896             | 86,124               | 224,027            | 536,779   | 1,230,249                      | 1,737,734                       | 76,053                                 | (NA)                             | (NA)                       |
| 1959 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 55,379            | 323,355              | 44,347             | 93,911               | 239,686            | 615,176   | 1,366,497                      | 1,939,580                       | 80,988                                 | (NA)                             | (NA)                       |
| 1958 (new).....  | 145                    | 185               | 129                                    | 46,879            | 272,168              | 36,443             | 75,323               | 199,643            | 537,086   | 1,057,370                      | 1,562,381                       | 131,817                                | 91                               | 92                         |
| 1958 (old) <sup>2</sup> .....  | (NA)                   | 168               | 112                                    | 42,375            | 246,067              | 32,979             | 68,114               | 180,502            | 475,331   | 930,844                        | 1,375,501                       | 109,657                                | 87                               | 91                         |
| 1957 <sup>2</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 44,458            | 235,851              | 34,645             | 69,529               | 171,134            | 451,393   | 892,350                        | 1,335,676                       | 178,265                                | (NA)                             | (NA)                       |
| 1956 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 44,953            | 228,898              | 36,227             | 74,764               | 172,751            | 534,694   | 896,609                        | 1,366,128                       | 121,852                                | (NA)                             | (NA)                       |
| 1955 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 42,924            | 204,847              | 35,235             | 72,841               | 158,403            | 485,217   | 794,200                        | 1,261,721                       | 35,743                                 | (NA)                             | (NA)                       |
| 1954.....  | 77                     | 94                | 70                                     | 36,803            | 164,938              | 29,795             | 60,652               | 125,617            | 352,349   | 537,180                        | 877,033                         | 21,402                                 | 92                               | 93                         |
| 1953 <sup>3</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 39,064            | 165,888              | 32,292             | 64,562               | 127,278            | 366,830   | 591,003                        | 957,833                         | (NA)                                   | (NA)                             | (NA)                       |
| 1952 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 31,483            | 128,143              | 25,749             | 53,471               | 99,506             | 283,093   | 444,272                        | 929,365                         | (NA)                                   | (NA)                             | (NA)                       |
| 1951 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 29,268            | 106,144              | 23,910             | 49,051               | 82,313             | 255,188   | 404,455                        | 659,643                         | (NA)                                   | (NA)                             | (NA)                       |
| 1950 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 27,303            | 90,328               | 22,693             | 46,781               | 71,719             | 208,045   | 359,873                        | 567,918                         | (NA)                                   | (NA)                             | (NA)                       |
| 1949 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 22,116            | 67,721               | 17,542             | 34,662               | 50,445             | 143,669   | 252,069                        | 345,738                         | (NA)                                   | (NA)                             | (NA)                       |
| 1947.....  | 15                     | 29                | 27                                     | 27,365            | 73,665               | 22,786             | 45,334               | 57,544             | 150,697   | 254,069                        | 404,766                         | 9,897                                  | (NA)                             | (NA)                       |
| 1939 <sup>3</sup> .....  | (NA)                   | 13                | (NA)                                   | (NA)              | (NA)                 | 9,926              | (NA)                 | 14,848             | 34,331  | 81,012                         | 115,343                         | (NA)                                   | (NA)                             | (NA)                       |
| 1963.....  | 166                    | 212               | 153                                    | 54,263            | 376,647              | 42,750             | 89,868               | 278,469            | 721,171   | 1,524,841                      | 2,196,439                       | 81,282                                 | 85                               | 93                         |
| Establishments operated by primary (integrated) producers <sup>5</sup> ..... | (NA)                   | 44                | 43                                     | 40,183            | 293,862              | 31,713             | 66,472               | 221,720            | 547,840   | 1,199,955                      | 1,711,616                       | 64,735                                 | (NA)                             | (NA)                       |
| Establishments operated by nonintegrated producers <sup>5</sup> .....        | (NA)                   | 163               | 110                                    | 14,080            | 82,785               | 11,045             | 23,396               | 56,749             | 173,331   | 324,886                        | 484,823                         | 16,547                                 | (NA)                             | (NA)                       |
| INDUSTRY 3356.—ROLLING AND DRAWING, N.E.C.                                   |                        |                   |  |                   |                      |                    |                      |                    |   |                                |                                 |  |                                  |                            |
| 1963.....  | (NA)                   | 125               | 67                                     | 17,375            | 117,454              | 12,275             | 25,367               | 74,052             | 250,589   | 405,011                        | 640,962                         | 22,154                                 | 84                               | 81                         |
| 1962 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 18,580            | 124,556              | 12,919             | 26,910               | 82,147             | 216,562   | 480,425                        | 687,713                         | 24,640                                 | (NA)                             | (NA)                       |
| 1961 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 18,411            | 119,969              | 12,707             | 25,967               | 74,689             | 222,859   | 452,341                        | 660,990                         | 22,560                                 | (NA)                             | (NA)                       |
| 1960 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 17,504            | 110,716              | 12,154             | 24,420               | 67,671             | 185,239   | 423,091                        | 608,175                         | 14,141                                 | (NA)                             | (NA)                       |
| 1959 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 17,764            | 108,813              | 12,608             | 25,672               | 68,224             | 216,887   | 395,030                        | 596,196                         | (13,531)                               | (NA)                             | (NA)                       |
| 1958.....  | (NA)                   | 143               | 73                                     | 16,571            | 94,713               | 11,467             | 22,542               | 57,446             | 174,633   | 306,634                        | 486,308                         | 14,984                                 | 77                               | 82                         |
| 1954 <sup>6</sup> .....  | (NA)                   | 105               | 67                                     | 11,954            | 57,481               | 8,798              | 18,277               | 36,788             | 126,018   | 278,275                        | 403,359                         | 13,564                                 | (NA)                             | (NA)                       |
| 1953 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 12,272            | 58,535               | 9,470              | 20,720               | 41,141             | 132,190   | ( <sup>4</sup> )               | ( <sup>4</sup> )                | (NA)                                   | (NA)                             | (NA)                       |
| 1952 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 9,784             | 45,701               | 7,539              | 16,173               | 31,864             | 98,291  | ( <sup>4</sup> )               | ( <sup>4</sup> )                | (NA)                                   | (NA)                             | (NA)                       |
| 1951 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 9,101             | 40,686               | 7,199              | 15,386               | 28,901             | 100,352   | ( <sup>4</sup> )               | ( <sup>4</sup> )                | (NA)                                   | (NA)                             | (NA)                       |
| 1950 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 9,241             | 36,908               | 7,563              | 16,373               | 27,164             | 73,787  | ( <sup>4</sup> )               | ( <sup>4</sup> )                | (NA)                                   | (NA)                             | (NA)                       |
| 1949 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 6,224             | 22,780               | 4,704              | 9,349                | 14,580             | 48,781  | ( <sup>4</sup> )               | ( <sup>4</sup> )                | (NA)                                   | (NA)                             | (NA)                       |
| 1947.....  | 41                     | 54                | (NA)                                   | 7,568             | 24,304               | 6,064              | 12,443               | 18,094             | 49,979  | ( <sup>4</sup> )               | ( <sup>4</sup> )                | (NA)                                   | (NA)                             | (NA)                       |
| 1939 <sup>3</sup> .....  | (NA)                   | 31                | (NA)                                   | (NA)              | (NA)                 | 2,786              | (NA)                 | 4,398              | 15,224  | ( <sup>4</sup> )               | ( <sup>4</sup> )                | (NA)                                   | (NA)                             | (NA)                       |
| INDUSTRY 3357.—NONFERROUS WIRE DRAWING, ETC.                                 |                        |                   |  |                   |                      |                    |                      |                    |   |                                |                                 |  |                                  |                            |
| 1963.....  | 210                    | 299               | 227                                    | 56,418            | 339,935              | 43,905             | 90,368               | 240,904            | 677,535   | 1,452,095                      | 2,117,943                       | 44,478                                 | 91                               | 86                         |
| 1962 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 54,722            | 329,730              | 42,437             | 87,841               | 230,674            | 649,343   | 1,253,894                      | 1,895,947                       | 45,478                                 | (NA)                             | (NA)                       |
| 1961 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 52,895            | 301,952              | 40,494             | 83,147               | 210,264            | 482,937   | 1,122,004                      | 1,862,140                       | 43,524                                 | (NA)                             | (NA)                       |
| 1960 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 55,252            | 311,303              | 42,081             | 87,850               | 217,791            | 619,750   | 1,126,789                      | 1,744,782                       | 42,930                                 | (NA)                             | (NA)                       |
| 1959 <sup>1</sup> .....  | (NA)                   | (NA)              | (NA)                                   | 55,023            | 302,743              | 44,490             | 89,711               | 215,982            | 629,933   | 1,125,890                      | 1,750,480                       | 42,057                                 | (NA)                             | (NA)                       |
| 1958 <sup>1</sup> .....  | 217                    | 278               | 182                                    | 51,900            | 271,910              | 39,762             | 81,711               | 190,988            | 530,105   | 941,347                        | 1,465,999                       | 35,359                                 | 95                               | 83                         |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3357.—NONFERROUS WIRE DRAWING, ETC.—Continued   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 210                        | 299               | 227  | 56,418            | 339,935              | 43,905             | 90,368               | 240,904            | 677,535  | 1,452,095                         | 2,117,943                          | 44,478  | 91  | 86                                       |
| Wire drawing establishments<br>with rod mill, 335711.....  | (NA)                       | 32                | 32   | 9,258             | 57,042               | 7,537              | 15,672               | 43,801             | 133,749  | 368,424                           | 498,611                            | 7,643   | (NA)  | (NA)                                     |
| Wire drawing establishments<br>with neither rod mill nor<br>insulating department<br>335712.....                       | (NA)                       | 41                | 30   | 4,359             | 27,807               | 3,524              | 7,382                | 19,624             | 50,923   | 98,082                            | 147,864                            | 6,441   | (NA)  | (NA)                                     |
| Wire drawing establishments<br>without rod mill but with<br>insulating department<br>335713.....                       | (NA)                       | 72                | 70   | 30,347            | 187,718              | 23,241             | 47,731               | 132,664            | 350,789  | 735,320                           | 1,083,475                          | 24,064  | (NA)  | (NA)                                     |
| Wire insulating<br>establishments with<br>neither rod mill nor wire<br>drawing department<br>335714 <sup>8</sup> ..... | (NA)                       | 154               | 96   | 12,454            | 67,368               | 9,603              | 19,583               | 44,815             | 142,074  | 250,269                           | 387,993                            | 6,324   | (NA)  | (NA)                                     |
| INDUSTRY 3361.—ALUMINUM CASTINGS   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 926                        | 954               | 321  | 36,216            | 222,771              | 30,746             | 63,432               | 174,155            | 343,863  | 299,398                           | 640,193                            | 18,374  | 81  | 83                                       |
| 1962 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 38,392            | 228,893              | 32,697             | 66,239               | 178,912            | 363,372  | 295,004                           | 656,368                            | 17,689  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 34,517            | 194,827              | 28,612             | 58,618               | 147,858            | 283,416  | 271,316                           | 555,992                            | 14,913  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 35,737            | 198,514              | 29,725             | 61,940               | 151,159            | 286,691  | 273,337                           | 564,307                            | 24,655  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 36,394            | 197,025              | 30,479             | 61,582               | 151,262            | 291,850  | 264,274                           | 552,754                            | 23,397  | (NA)  | (NA)                                     |
| 1958.....  | 934                        | 955               | 283  | 30,045            | 158,915              | 24,626             | 48,683               | 119,166            | 225,686  | 198,560                           | 422,041                            | 12,220  | 79  | 81                                       |
| INDUSTRY 3362.—BRASS, BRONZE, COPPER CASTINGS  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 535                        | 549               | 193  | 15,341            | 86,350               | 12,835             | 26,052               | 65,095             | 144,092  | 144,433                           | 287,534                            | 5,394   | 84  | 78                                       |
| 1962 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 17,829            | 97,613               | 14,633             | 28,777               | 71,024             | 155,233  | 150,157                           | 304,380                            | 5,298   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 17,173            | 89,020               | 13,991             | 27,258               | 64,819             | 149,576  | 137,588                           | 283,832                            | 3,843   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 16,809            | 85,690               | 13,641             | 26,551               | 62,258             | 137,386  | 133,383                           | 274,488                            | 4,908   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 16,388            | 81,015               | 13,799             | 27,340               | 61,939             | 131,703  | 136,591                           | 267,367                            | 4,539   | (NA)  | (NA)                                     |
| 1958.....  | 647                        | 665               | 209  | 14,861            | 70,512               | 12,294             | 23,538               | 52,786             | 109,744  | 111,609                           | 220,955                            | 5,103   | 85  | 81                                       |
| INDUSTRY 3369.—NONFERROUS CASTINGS, N.E.C.   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 386                        | 391               | 165  | 17,686            | 102,929              | 14,845             | 30,320               | 78,447             | 168,530  | 134,318                           | 302,731                            | 6,803   | 78  | 75                                       |
| 1962 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 15,779            | 90,380               | 13,218             | 27,145               | 69,432             | 149,768  | 110,485                           | 259,438                            | 5,780   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 14,574            | 81,744               | 11,953             | 24,226               | 60,862             | 127,825  | 94,058                            | 222,190                            | (4,106)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 17,079            | 92,640               | 14,221             | 28,718               | 69,036             | 150,157  | 108,993                           | 260,157                            | 7,830   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 18,309            | 98,083               | 15,477             | 31,343               | 74,685             | 151,623  | 116,862                           | 267,699                            | 6,655   | (NA)  | (NA)                                     |
| 1958.....  | 337                        | 345               | 136  | 17,253            | 89,239               | 14,330             | 27,617               | 66,339             | 135,311  | 98,678                            | 234,649                            | 5,013   | 78  | 77                                       |
| INDUSTRIES 3361, 3362, 3369.—NONFERROUS FOUNDRIES (OLD SIC 3361)   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963 <sup>9</sup> .....  | (NA)                       | 1,894             | 679  | 69,243            | 412,050              | 58,426             | 119,804              | 317,697            | 656,485  | 578,149                           | 1,230,458                          | 30,571  | (NA)  | (NA)                                     |
| 1962 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 72,000            | 416,886              | 60,548             | 122,161              | 319,368            | 668,373  | 555,646                           | 1,220,186                          | 28,767  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 66,264            | 365,591              | 54,556             | 110,102              | 273,539            | 560,817  | 502,962                           | 1,062,014                          | 22,862  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 69,625            | 376,844              | 57,587             | 117,209              | 282,453            | 574,234  | 515,713                           | 1,098,952                          | 37,393  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 71,091            | 376,123              | 59,755             | 120,265              | 287,886            | 575,176  | 517,727                           | 1,087,820                          | 34,591  | (NA)  | (NA)                                     |
| 1958.....  | (NA)                       | 1,965             | 628  | 62,159            | 318,666              | 51,250             | 99,838               | 238,291            | 470,741  | 408,847                           | 877,645                            | 22,336  | (NA)  | (NA)                                     |
| 1957 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 78,328            | 379,506              | 66,424             | 132,187              | 294,301            | 577,240  | 502,766                           | 1,080,396                          | 39,025  | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 82,084            | 393,563              | 69,900             | 141,448              | 305,518            | 608,181  | 578,225                           | 1,174,240                          | 38,110  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 81,950            | 377,569              | 70,232             | 141,128              | 295,741            | 584,846  | 554,202                           | 1,126,816                          | 26,011  | (NA)  | (NA)                                     |
| 1954.....  | 1,863                      | 1,920             | 611  | 73,487            | 327,906              | 61,573             | 124,041              | 251,374            | 472,431  | 405,640                           | 884,576                            | 24,779  | 90  | 92                                       |
| 1953 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 83,703            | 365,263              | 71,225             | 147,492              | 294,570            | 572,377  | 480,511                           | 1,052,888                          | 31,499  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 74,154            | 308,760              | 63,107             | 130,347              | 248,034            | 466,939  | 435,566                           | 902,416                            | 21,777  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 71,498            | 280,672              | 61,413             | 125,288              | 223,728            | 437,592  | 463,455                           | 901,047                            | 23,093  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 65,182            | 231,180              | 55,615             | 111,959              | 183,129            | 371,634  | 336,865                           | 708,499                            | 16,197  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 56,504            | 189,303              | 47,402             | 97,074               | 144,355            | 280,715  | 228,073                           | 505,017                            | 11,829  | (NA)  | (NA)                                     |
| 1947.....  | 1,675                      | 1,724             | 551  | 66,798            | 203,314              | 58,609             | (NA)                 | 166,697            | 300,628  | 272,562                           | 573,190                            | 19,017  | 93  | 92                                       |
| 1939 <sup>2</sup> .....  | (NA)                       | 776               | (NA)   | (NA)              | (NA)                 | 23,362             | (NA)                 | 32,444             | 67,590   | 65,092                            | 132,682                            | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: **All employees:** For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** For 1947 and prior years figures represent an average of 12 monthly figures. **Value added:** Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. **Cost of materials:** Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. **Value of shipments:** Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Footnotes continued on next page.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

Footnotes for Table 1-33D—Continued

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. The 1957 and earlier figures are on the old SIC definition of the industry.

<sup>3</sup>No comparable figures are available for earlier years.

<sup>4</sup>The subindustry separation for industry 3351 is based on the presence or lack of presence of the department described as "casting (except foundry)." See table 9A.

<sup>5</sup>Integrated producers represent companies which operate primary aluminum reduction facilities.

<sup>6</sup>Data for 1954 have been revised to include establishments originally classified in other industries. Accordingly, data for 1953 and earlier years are not comparable with 1954 and 1958. Selected data for 1954 and 1958 on a basis comparable with earlier years are as follows: number of establishments, 98; total employment, 10,381; and unadjusted value added by manufacture, \$99,907 thousand. Since the effect of this revision has more significance on the cost of materials and value of shipments, data for these items are not shown for 1953 and earlier years.

<sup>7</sup>Due to revision in the Standard Industrial Classification in 1957, data prior to 1958 are not available.

<sup>8</sup>Prior to 1958, these establishments were treated as a separate industry, SIC 3631, Insulated Wire and Cable. Selected data are available for 1958 as follows: Total number of establishments, 172; number of establishments with 20 or more employees, 91; number of employees, 17,105; adjusted value added by manufacture, \$154,248 thousand.

<sup>9</sup>The three industries shown above were a single industry in 1957 and earlier years. They are shown combined so that historical data may be presented.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>  | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3351.—COPPER ROLLING AND DRAWING   |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....  | 112            | 92                                 | 38,949         | 260,320           | 31,481             | 65,746            | 200,171         | 478,393                              | 1,188,548         | 1,657,526          | 43,462                    | 40,329           | 445,371                              |
| New England.....  | 33             | 30                                 | 12,107         | 81,676            | 9,829              | 20,145            | 63,539          | 145,184                              | 308,045           | 454,718            | 9,430                     | 13,653           | 142,116                              |
| Connecticut.....  | 26             | 24                                 | 10,422         | 71,854            | 8,509              | 17,576            | 56,251          | 126,890                              | 282,503           | 411,084            | 9,296                     | 11,942           | 124,971                              |
| Middle Atlantic....   | 39             | 28                                 | 10,406         | 68,703            | 8,242              | 17,275            | 51,297          | 126,704                              | 378,695           | 503,131            | 12,847                    | 11,146           | 118,458                              |
| New York.....   | 9              | 7                                  | 3,517          | 22,102            | 2,820              | 5,450             | 16,772          | 45,859                               | 137,313           | 182,072            | 1,415                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| New Jersey.....   | 15             | 10                                 | 3,024          | 19,960            | 2,477              | 5,134             | 15,862          | 29,350                               | 151,542           | 181,551            | 1,881                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pennsylvania.....   | 15             | 11                                 | 3,865          | 26,641            | 2,945              | 6,691             | 18,663          | 51,495                               | 89,840            | 139,508            | 9,551                     | 5,122            | 46,538                               |
| North Central, South, and West....  | 40             | 34                                 | 16,436         | 109,941           | 13,410             | 28,326            | 85,335          | 206,505                              | 501,808           | 699,677            | 21,185                    | 15,530           | 184,797                              |
| Ohio.....   | 6              | 6                                  | 2,767          | 17,520            | 2,407              | 4,820             | 14,542          | 34,317                               | 69,008            | 102,666            | 1,273                     | 2,731            | 30,246                               |
| Illinois.....   | 5              | 4                                  | 3,688          | 24,368            | 2,976              | 6,254             | 18,112          | 33,382                               | 75,940            | 106,243            | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Michigan.....   | 11             | 10                                 | 4,069          | 27,790            | 3,285              | 7,128             | 21,292          | 58,361                               | 101,254           | 156,132            | 1,924                     | 4,043            | 45,859                               |
| California.....   | 6              | 5                                  | 1,259          | 8,555             | 993                | 2,064             | 6,483           | 15,964                               | 33,029            | 47,601             | 309                       | 1,105            | 10,313                               |
| Subindustry 3351-21.—Copper Rolling and Drawing—ESTABLISHMENTS WITH CASTING DEPARTMENTS <sup>3</sup>    |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....  | 36             | 36                                 | 25,752         | 174,972           | 20,774             | 43,765            | 135,769         | 305,113                              | 687,401           | 985,609            | 26,965                    | (NA)             | (NA)                                 |
| New England.....  | 14             | 14                                 | 7,914          | 54,207            | 6,395              | 13,044            | 41,996          | 94,378                               | 209,171           | 304,106            | 4,815                     | (NA)             | (NA)                                 |
| Middle Atlantic....   | 7              | 7                                  | 5,350          | 35,579            | 4,260              | 9,232             | 27,470          | 56,610                               | 177,626           | 232,619            | 3,482                     | (NA)             | (NA)                                 |
| North Central, South, and West....  | 15             | 15                                 | 12,488         | 85,186            | 10,119             | 21,489            | 66,303          | 154,125                              | 300,604           | 448,884            | 18,668                    | (NA)             | (NA)                                 |
| Subindustry 3351-22.—Copper Rolling and Drawing—ESTABLISHMENTS WITHOUT CASTING DEPARTMENTS <sup>3</sup> |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....  | 76             | 56                                 | 13,197         | 85,348            | 10,707             | 21,981            | 64,402          | 173,280                              | 501,147           | 671,917            | 16,497                    | (NA)             | (NA)                                 |
| New England.....  | 19             | 16                                 | 4,193          | 27,469            | 3,434              | 7,101             | 21,543          | 50,806                               | 98,874            | 150,612            | 4,615                     | (NA)             | (NA)                                 |
| Middle Atlantic....   | 32             | 21                                 | 5,056          | 33,124            | 3,982              | 8,043             | 23,827          | 70,094                               | 201,069           | 270,512            | 9,365                     | (NA)             | (NA)                                 |
| North Central, South, and West....  | 25             | 19                                 | 3,948          | 24,755            | 3,291              | 6,837             | 19,032          | 52,380                               | 201,204           | 250,793            | 2,517                     | (NA)             | (NA)                                 |
| INDUSTRY 3352.—ALUMINUM ROLLING AND DRAWING   |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....  | 212            | 153                                | 54,263         | 376,647           | 42,750             | 89,868            | 278,469         | 721,171                              | 1,524,841         | 2,196,439          | 81,282                    | 46,879           | 537,086                              |
| New England.....  | 11             | 10                                 | 549            | 3,784             | 439                | 946               | 2,392           | 7,337                                | 11,786            | 18,912             | 482                       | 471              | 4,992                                |
| Middle Atlantic....   | 40             | 31                                 | 9,146          | 62,634            | 6,765              | 13,793            | 41,667          | 119,463                              | 200,715           | 314,100            | 10,423                    | 8,997            | 87,038                               |
| New York.....   | 15             | 12                                 | 3,207          | 20,651            | 2,423              | 4,910             | 14,211          | 48,613                               | 92,830            | 141,958            | 2,041                     | 2,978            | 32,174                               |
| New Jersey.....   | 15             | 11                                 | 2,139          | 14,723            | 1,602              | 3,250             | 9,749           | 30,806                               | 33,352            | 61,344             | 1,698                     | 1,991            | 20,921                               |
| Pennsylvania.....   | 10             | 8                                  | 3,800          | 27,260            | 2,740              | 5,633             | 17,707          | 40,044                               | 74,533            | 110,798            | 6,714                     | 4,028            | 33,943                               |
| North Central.....  | 78             | 56                                 | 17,526         | 125,063           | 13,409             | 28,451            | 89,911          | 246,082                              | 563,365           | 796,480            | 25,238                    | 13,320           | 182,165                              |
| Ohio.....   | 23             | 19                                 | 4,224          | 28,588            | 3,175              | 6,535             | 20,282          | 56,206                               | 194,883           | 251,574            | 7,017                     | 3,138            | 56,854                               |
| Illinois.....   | 15             | 9                                  | 4,479          | 32,346            | 3,513              | 7,294             | 24,316          | 50,035                               | 134,722           | 182,966            | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Michigan.....   | 21             | 15                                 | 2,381          | 14,771            | 1,822              | 3,704             | 9,926           | 22,584                               | 41,693            | 64,643             | 1,290                     | 2,319            | 20,915                               |
| South Atlantic.....   | 26             | 18                                 | 6,657          | 42,941            | 5,312              | 11,108            | 32,049          | 85,451                               | 228,490           | 310,113            | 14,710                    |                  |                                      |
| East South Central.   | 15             | 11                                 | 9,602          | 68,601            | 8,111              | 17,013            | 56,342          | 139,471                              | 300,193           | 422,807            | 18,606                    |                  |                                      |
| West South Central.   | 7              | 6                                  | 1,079          | 6,040             | 854                | 1,899             | 4,455           | 10,884                               | 23,644            | 34,168             | 1,141                     |                  |                                      |
| West.....   | 35             | 21                                 | 9,704          | 67,584            | 7,820              | 16,658            | 51,653          | 112,483                              | 196,648           | 299,859            | 10,667                    |                  |                                      |
| California.....   | 27             | 16                                 | 5,594          | 38,327            | 4,389              | 10,043            | 28,966          | 70,865                               | 80,372            | 148,772            | 5,191                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| INDUSTRY 3356.—ROLLING AND DRAWING, N.E.C.  |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....  | 125            | 67                                 | 17,375         | 117,454           | 12,275             | 25,367            | 74,052          | 250,589                              | 405,011           | 640,962            | 22,154                    | 16,571           | 174,633                              |
| New England.....  | 21             | 14                                 | 1,767          | 10,066            | 1,367              | 2,914             | 6,791           | 22,881                               | 71,066            | 92,465             | 1,174                     | 1,686            | 16,645                               |
| Massachusetts....   | 9              | 7                                  | 890            | 4,671             | 695                | 1,511             | 3,226           | 7,720                                | 22,080            | 29,785             | 484                       | 762              | 6,780                                |
| Middle Atlantic....   | 41             | 20                                 | 4,049          | 27,817            | 2,661              | 5,491             | 16,172          | 61,300                               | 124,287           | 182,287            | 2,327                     | 4,198            | 37,663                               |
| New York.....   | 23             | 10                                 | 800            | 5,439             | 559                | 1,157             | 3,270           | 15,186                               | 52,572            | 66,479             | 441                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| New Jersey.....   | 10             | 6                                  | 1,562          | 10,400            | 1,027              | 1,989             | 6,353           | 19,616                               | 53,527            | 70,892             | 626                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pennsylvania.....   | 8              | 4                                  | 1,687          | 11,978            | 1,075              | 2,345             | 6,549           | 26,498                               | 18,188            | 44,916             | 1,260                     | 2,069            | 16,706                               |
| North Central, South, and West....  | 63             | 33                                 | 11,559         | 79,571            | 8,247              | 16,962            | 51,089          | 166,408                              | 209,658           | 366,210            | 18,653                    | 10,687           | 120,325                              |
| Ohio.....   | 7              | 5                                  | 2,614          | 18,265            | 1,665              | 3,337             | 10,950          | 33,933                               | 72,842            | 117,775            | 1,775                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Illinois.....   | 10             | 5                                  | 1,326          | 7,804             | 945                | 1,545             | 4,761           | 18,339                               | 30,599            | 50,559             | 362                       | 1,540            | 17,440                               |
| Michigan.....   | 9              | 7                                  | 792            | 6,367             | 573                | 1,193             | 3,980           | 13,547                               | 17,716            | 31,080             | 688                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>   | 1963           |                           |               |          |                    |           |           |                                      |                   |                    | 1958                      |                  |                                      |
|--|----------------|---------------------------|---------------|----------|--------------------|-----------|-----------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                           | All employees |          | Production workers |           |           | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total          | With 20 employees or more | Total         | Payroll  | Total              | Man-hours | Wages     |                                      |                   |                    |                           |                  |                                      |
| (number)   | (number)       | (number)                  | (\$1,000)     | (number) | (1,000)            | (\$1,000) | (\$1,000) | (\$1,000)                            | (\$1,000)         | (\$1,000)          | (number)                  | (\$1,000)        |                                      |
| INDUSTRY 3357.—NONFERROUS WIRE DRAWING, ETC.   |                |                           |               |          |                    |           |           |                                      |                   |                    |                           |                  |                                      |
| Total.....   | 299            | 227                       | 56,418        | 339,935  | 43,905             | 90,368    | 240,904   | 677,535                              | 1,452,095         | 2,117,943          | 44,478                    | 51,900           | 530,105                              |
| New England.....   | 78             | 64                        | 16,336        | 86,455   | 12,958             | 25,727    | 59,952    | 158,884                              | 247,945           | 400,875            | 10,223                    | 15,174           | 133,528                              |
| New Hampshire.....   | 4              | 4                         | 349           | 2,125    | 231                | 446       | 1,036     | 4,152                                | 6,262             | 9,468              | 280                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Vermont.....   | 3              | 3                         | 405           | 2,189    | 299                | 596       | 1,293     | 3,092                                | 7,322             | 10,953             | 222                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Massachusetts.....   | 31             | 26                        | 6,198         | 31,475   | 4,900              | 9,352     | 21,395    | 52,234                               | 70,813            | 122,046            | 3,836                     | 5,084            | 40,867                               |
| Rhode Island.....  | 14             | 12                        | 5,385         | 27,055   | 4,480              | 9,034     | 20,194    | 49,158                               | 100,336           | 146,133            | 3,381                     | 5,030            | 42,137                               |
| Connecticut.....   | 26             | 19                        | 3,999         | 23,611   | 3,048              | 6,299     | 16,034    | 50,248                               | 63,212            | 112,275            | 2,504                     | 4,061            | 38,619                               |
| Middle Atlantic.....   | 87             | 67                        | 18,924        | 117,557  | 14,342             | 29,532    | 82,153    | 201,141                              | 481,223           | 674,554            | 15,210                    | 19,794           | 206,667                              |
| New York.....  | 38             | 26                        | 9,522         | 60,362   | 7,241              | 14,566    | 41,995    | 101,557                              | 237,143           | 339,830            | 7,308                     | 8,439            | 84,104                               |
| New Jersey.....  | 35             | 28                        | 6,977         | 44,902   | 5,094              | 10,762    | 30,967    | 81,193                               | 204,646           | 278,220            | 6,503                     | 8,711            | 99,712                               |
| Pennsylvania.....  | 14             | 13                        | 2,425         | 12,293   | 2,007              | 4,204     | 9,191     | 18,391                               | 39,434            | 56,504             | 1,399                     | 2,644            | 22,851                               |
| East North Central..   | 65             | 51                        | 12,588        | 79,654   | 9,943              | 20,904    | 58,807    | 186,180                              | 428,379           | 611,451            | 8,145                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Indiana.....   | 14             | 12                        | 5,403         | 34,666   | 4,446              | 9,384     | 27,554    | 86,615                               | 214,050           | 298,858            | 2,698                     | 4,901            | 54,698                               |
| Illinois.....  | 30             | 24                        | 4,379         | 28,362   | 3,213              | 6,979     | 18,874    | 74,830                               | 147,589           | 220,395            | 3,543                     | 3,020            | 40,476                               |
| West North Central..   | 9              | 5                         | 1,633         | 11,199   | 1,264              | 2,792     | 8,172     | 34,963                               | 72,790            | 107,761            | 1,466                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South.....   | 22             | 16                        | 4,355         | 29,178   | 3,415              | 7,222     | 21,101    | 64,886                               | 151,890           | 221,529            | 6,706                     | 3,370            | 41,404                               |
| Texas.....   | 5              | 4                         | 653           | 3,712    | 569                | 1,323     | 3,067     | 13,415                               | 26,869            | 39,958             | 810                       | 420              | 5,556                                |
| Pacific.....   | 38             | 24                        | 2,582         | 15,892   | 1,983              | 4,191     | 10,719    | 31,481                               | 69,868            | 101,773            | 2,728                     | 2,674            | 24,810                               |
| Subindustry 3357-11.—Nonferrous Wire Drawing, Etc.—WIRE DRAWING ESTABLISHMENTS WITH ROD MILL                                   |                |                           |               |          |                    |           |           |                                      |                   |                    |                           |                  |                                      |
| Total.....   | 32             | 32                        | 9,258         | 57,042   | 7,537              | 15,672    | 43,801    | 133,749                              | 368,424           | 498,611            | 7,643                     | (NA)             | (NA)                                 |
| New England.....   | 5              | 5                         | 2,443         | 12,410   | 2,005              | 4,260     | 9,482     | 25,158                               | 45,941            | 70,267             | 2,925                     | (NA)             | (NA)                                 |
| Middle Atlantic.....   | 10             | 10                        | 2,211         | 13,185   | 1,841              | 3,804     | 10,374    | 27,167                               | 74,879            | 100,941            | 2,092                     | (NA)             | (NA)                                 |
| North Central and West.....  | 17             | 17                        | 4,604         | 31,447   | 3,691              | 7,608     | 23,945    | 81,424                               | 247,604           | 327,403            | 2,626                     | (NA)             | (NA)                                 |
| Indiana.....   | 6              | 6                         | 1,745         | 12,255   | 1,455              | 3,031     | 9,803     | 36,855                               | 120,979           | 156,672            | 959                       | (NA)             | (NA)                                 |
| Subindustry 3357-12.—Nonferrous Wire Drawing, Etc.—WIRE DRAWING ESTABLISHMENTS WITHOUT ROD MILL OR INSULATING DEPARTMENT       |                |                           |               |          |                    |           |           |                                      |                   |                    |                           |                  |                                      |
| Total.....   | 41             | 30                        | 4,359         | 27,807   | 3,524              | 7,382     | 19,624    | 50,923                               | 98,082            | 147,864            | 6,447                     | (NA)             | (NA)                                 |
| New England.....   | 8              | 5                         | 727           | 4,513    | 605                | 1,269     | 3,314     | 8,388                                | 6,468             | 14,917             | 547                       | (NA)             | (NA)                                 |
| Middle Atlantic.....   | 15             | 13                        | 2,414         | 15,087   | 1,924              | 4,041     | 10,690    | 25,786                               | 57,464            | 83,148             | 3,399                     | (NA)             | (NA)                                 |
| New York.....  | 8              | 8                         | 1,145         | 6,893    | 945                | 1,948     | 5,073     | 12,423                               | 20,370            | 32,398             | 402                       | (NA)             | (NA)                                 |
| North Central, South, and West.....  | 18             | 12                        | 1,218         | 8,207    | 995                | 2,072     | 5,620     | 16,749                               | 34,150            | 49,799             | 2,501                     | (NA)             | (NA)                                 |
| Subindustry 3357-13.—Nonferrous Wire Drawing, Etc.—WIRE DRAWING ESTABLISHMENTS WITHOUT ROD MILL BUT WITH INSULATING DEPARTMENT |                |                           |               |          |                    |           |           |                                      |                   |                    |                           |                  |                                      |
| Total.....   | 72             | 70                        | 30,347        | 187,718  | 23,241             | 47,731    | 132,664   | 350,789                              | 735,320           | 1,083,475          | 24,064                    | (NA)             | (NA)                                 |
| New England.....   | 23             | 22                        | 8,403         | 46,900   | 6,601              | 13,085    | 32,214    | 82,311                               | 136,818           | 215,488            | 5,213                     | (NA)             | (NA)                                 |
| Rhode Island.....  | 8              | 8                         | 4,059         | 20,948   | 3,398              | 6,950     | 15,661    | 34,653                               | 66,229            | 98,306             | 2,117                     | (NA)             | (NA)                                 |
| Connecticut.....   | 7              | 6                         | 1,511         | 9,474    | 1,112              | 2,240     | 6,302     | 18,515                               | 26,960            | 45,002             | 780                       | (NA)             | (NA)                                 |
| Middle Atlantic.....   | 22             | 22                        | 11,831        | 76,319   | 8,711              | 17,916    | 52,562    | 113,243                              | 284,184           | 395,230            | 8,443                     | (NA)             | (NA)                                 |
| New York.....  | 9              | 9                         | 7,203         | 46,387   | 5,439              | 10,810    | 32,262    | 73,086                               | 178,756           | 253,660            | 6,163                     | (NA)             | (NA)                                 |
| North Central.....   | 17             | 16                        | 6,407         | 38,321   | 5,151              | 11,008    | 29,639    | 100,905                              | 189,158           | 286,989            | 4,836                     | (NA)             | (NA)                                 |
| Illinois.....  | 7              | 6                         | 1,614         | 9,836    | 1,283              | 2,788     | 7,421     | 28,976                               | 51,786            | 80,144             | 1,710                     | (NA)             | (NA)                                 |
| South and West.....  | 10             | 10                        | 3,706         | 26,170   | 2,778              | 5,722     | 18,249    | 54,330                               | 125,160           | 185,768            | 5,572                     | (NA)             | (NA)                                 |
| Subindustry 3357-14.—Nonferrous Wire Drawing, Etc.—ESTABLISHMENTS WITHOUT WIRE DRAWING DEPARTMENTS                             |                |                           |               |          |                    |           |           |                                      |                   |                    |                           |                  |                                      |
| Total.....   | 154            | 95                        | 12,454        | 67,368   | 9,603              | 19,583    | 44,815    | 142,074                              | 250,269           | 387,993            | 6,324                     | (NA)             | (NA)                                 |
| New England.....   | 42             | 32                        | 4,763         | 22,624   | 3,747              | 7,113     | 14,942    | 43,027                               | 58,718            | 100,203            | 1,538                     | (NA)             | (NA)                                 |
| Massachusetts.....   | 23             | 18                        | 2,278         | 9,653    | 1,838              | 3,303     | 6,423     | 15,162                               | 24,520            | 39,755             | 312                       | (NA)             | (NA)                                 |
| Connecticut.....   | 12             | 8                         | 1,336         | 7,641    | 1,014              | 2,114     | 5,193     | 18,727                               | 21,359            | 39,312             | 749                       | (NA)             | (NA)                                 |
| Middle Atlantic.....   | 40             | 22                        | 2,468         | 12,966   | 1,866              | 3,771     | 8,527     | 34,945                               | 64,696            | 95,235             | 1,276                     | (NA)             | (NA)                                 |
| New Jersey.....  | 18             | 12                        | 1,175         | 6,355    | 886                | 1,747     | 4,390     | 19,531                               | 41,592            | 56,760             | 413                       | (NA)             | (NA)                                 |
| North Central.....   | 34             | 20                        | 2,691         | 17,079   | 1,951              | 4,236     | 10,798    | 31,422                               | 64,094            | 97,078             | 1,272                     | (NA)             | (NA)                                 |
| Illinois.....  | 14             | 11                        | 1,238         | 7,621    | 852                | 1,870     | 4,019     | 15,524                               | 17,860            | 33,872             | 546                       | (NA)             | (NA)                                 |
| South.....   | 11             | 7                         | 1,075         | 5,804    | 926                | 2,085     | 4,638     | 16,683                               | 38,822            | 55,351             | 1,181                     | (NA)             | (NA)                                 |
| Pacific.....   | 27             | 14                        | 1,457         | 8,895    | 1,113              | 2,378     | 5,910     | 15,997                               | 23,939            | 40,126             | 1,057                     | (NA)             | (NA)                                 |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                  | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3361.—ALUMINUM CASTINGS              |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 954            | 321                                | 36,216         | 222,771           | 30,746             | 63,432            | 174,155         | 343,863                              | 299,398           | 640,193            | 18,374                    | 30,045           | 225,686                              |
| New England.....                              | 76             | 18                                 | 2,131          | 12,081            | 1,840              | 3,761             | 9,205           | 19,117                               | 11,863            | 31,020             | 728                       | 1,677            | 10,949                               |
| Massachusetts....                             | 36             | 7                                  | 624            | 3,386             | 544                | 1,121             | 2,565           | 5,322                                | 3,052             | 8,371              | 232                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Connecticut.....                              | 30             | 8                                  | 1,194          | 7,253             | 1,018              | 2,119             | 5,414           | 10,801                               | 7,939             | 18,770             | 431                       | 1,118            | 7,587                                |
| Middle Atlantic....                           | 153            | 52                                 | 6,964          | 45,070            | 5,826              | 12,033            | 35,351          | 68,845                               | 51,112            | 119,734            | 2,733                     | 6,093            | 47,116                               |
| New York.....                                 | 57             | 25                                 | 3,284          | 21,535            | 2,700              | 5,658             | 16,848          | 33,364                               | 29,341            | 62,465             | 1,477                     | 2,223            | 17,215                               |
| New Jersey.....                               | 38             | 11                                 | 1,349          | 9,199             | 1,141              | 2,384             | 7,163           | 12,389                               | 8,707             | 21,201             | 632                       | 1,269            | 9,389                                |
| Pennsylvania....                              | 58             | 16                                 | 2,331          | 14,336            | 1,985              | 3,991             | 11,340          | 23,092                               | 13,064            | 36,068             | 624                       | 2,601            | 20,512                               |
| East North Central.                           | 354            | 137                                | 17,551         | 111,384           | 14,907             | 30,762            | 86,850          | 166,561                              | 155,024           | 318,815            | 9,770                     | 14,562           | 110,132                              |
| Ohio.....                                     | 122            | 40                                 | 7,301          | 47,902            | 6,131              | 12,712            | 37,392          | 77,546                               | 59,531            | 135,593            | 2,593                     | 5,986            | 45,950                               |
| Indiana.....                                  | 31             | 16                                 | 2,349          | 17,212            | 1,973              | 4,349             | 13,526          | 22,614                               | 33,359            | 55,609             | 3,741                     | 1,515            | 9,941                                |
| Illinois.....                                 | 90             | 35                                 | 3,424          | 19,700            | 2,899              | 5,728             | 14,847          | 28,167                               | 23,454            | 51,169             | 1,461                     | 2,407            | 17,863                               |
| Michigan.....                                 | 73             | 25                                 | 2,163          | 13,100            | 1,867              | 3,748             | 10,300          | 18,911                               | 20,703            | 39,503             | 936                       | 2,908            | 24,974                               |
| Wisconsin.....                                | 38             | 21                                 | 2,314          | 13,470            | 2,037              | 4,225             | 10,785          | 19,323                               | 17,977            | 36,941             | 1,039                     | 1,746            | 11,404                               |
| West North Central.                           | 68             | 32                                 | 2,522          | 13,454            | 2,234              | 4,661             | 11,061          | 21,126                               | 16,458            | 37,304             | 784                       | 2,544            | 17,792                               |
| Minnesota.....                                | 18             | 11                                 | 872            | 5,202             | 788                | 1,693             | 4,378           | 6,709                                | 6,319             | 12,963             | 229                       | 678              | 4,584                                |
| Iowa.....                                     | 15             | 4                                  | 250            | 1,287             | 209                | 459               | 999             | 2,529                                | 1,548             | 4,047              | 116                       | 327              | 2,011                                |
| Missouri.....                                 | 24             | 12                                 | 1,152          | 5,827             | 1,013              | 2,064             | 4,774           | 9,671                                | 7,013             | 16,500             | 288                       | 1,443            | 10,572                               |
| South Atlantic....                            | 49             | 10                                 | 768            | 3,386             | 663                | 1,337             | 2,609           | 4,962                                | 3,616             | 8,543              | 406                       | 471              | 2,538                                |
| Maryland.....                                 | 3              | 1                                  | 125            | 634               | 97                 | 188               | 422             | 956                                  | 388               | 1,370              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| North Carolina..                              | 7              | 2                                  | 114            | 432               | 101                | 203               | 359             | 462                                  | 502               | 925                | 17                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Florida.....                                  | 16             | 1                                  | 131            | 478               | 120                | 214               | 406             | 691                                  | 750               | 1,405              | 55                        | 149              | 961                                  |
| East South Central.                           | 21             | 5                                  | 1,387          | 10,017            | 1,154              | 2,505             | 7,940           | 15,753                               | 22,282            | 38,143             | 1,830                     | 643              | 3,208                                |
| West South Central.                           | 54             | 15                                 | 1,087          | 5,600             | 910                | 1,839             | 4,260           | 11,619                               | 12,806            | 24,282             | 939                       | 807              | 6,513                                |
| Arkansas.....                                 | 7              | 6                                  | 512            | 3,111             | 411                | 844               | 2,321           | 7,265                                | 9,165             | 16,256             | 760                       | 302              | 3,067                                |
| Texas.....                                    | 40             | 7                                  | 452            | 1,879             | 392                | 771               | 1,484           | 3,330                                | 3,076             | 6,437              | 167                       | 440              | 2,984                                |
| Mountain.....                                 | 15             | 1                                  | 107            | 497               | 91                 | 171               | 387             | 714                                  | 535               | 1,255              | 16                        | 126              | 879                                  |
| Pacific.....                                  | 164            | 51                                 | 3,699          | 21,282            | 3,121              | 6,363             | 16,492          | 35,166                               | 25,702            | 61,097             | 1,168                     | 3,122            | 26,559                               |
| Oregon.....                                   | 9              | 3                                  | 169            | 976               | 154                | 310               | 902             | 1,498                                | 1,402             | 2,888              | 34                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                               | 150            | 47                                 | 3,463          | 19,842            | 2,908              | 5,916             | 15,196          | 32,932                               | 23,543            | 56,718             | 1,107                     | 2,998            | 25,683                               |
| INDUSTRY 3362.—BRASS, BRONZE, COPPER CASTINGS |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 549            | 193                                | 15,341         | 86,350            | 12,835             | 26,052            | 65,095          | 144,092                              | 144,433           | 287,534            | 5,394                     | 14,861           | 109,744                              |
| New England.....                              | 59             | 23                                 | 1,473          | 7,368             | 1,263              | 2,482             | 5,712           | 11,994                               | 11,299            | 23,222             | 414                       | 1,496            | 10,377                               |
| Massachusetts....                             | 27             | 11                                 | 791            | 3,964             | 681                | 1,307             | 3,152           | 6,795                                | 7,044             | 13,821             | 240                       | 766              | 4,919                                |
| Connecticut.....                              | 21             | 8                                  | 435            | 2,254             | 362                | 740               | 1,685           | 3,387                                | 2,733             | 6,064              | 132                       | 373              | 2,660                                |
| Middle Atlantic....                           | 150            | 49                                 | 5,162          | 29,088            | 4,335              | 8,885             | 21,836          | 46,689                               | 39,997            | 86,214             | 1,191                     | 4,480            | 32,167                               |
| New York.....                                 | 53             | 18                                 | 1,247          | 6,929             | 1,071              | 2,108             | 5,542           | 11,699                               | 11,222            | 22,798             | 146                       | 1,571            | 10,865                               |
| New Jersey.....                               | 32             | 10                                 | 758            | 4,428             | 603                | 1,204             | 3,089           | 7,053                                | 5,895             | 12,594             | 148                       | 638              | 4,852                                |
| Pennsylvania....                              | 65             | 21                                 | 3,157          | 17,731            | 2,661              | 5,573             | 13,205          | 27,937                               | 22,880            | 50,822             | 897                       | 2,271            | 16,450                               |
| East North Central.                           | 191            | 73                                 | 5,459          | 33,580            | 4,505              | 9,139             | 24,905          | 54,673                               | 56,331            | 110,684            | 2,350                     | 5,712            | 44,471                               |
| Ohio.....                                     | 57             | 25                                 | 1,624          | 9,440             | 1,321              | 2,747             | 7,073           | 15,946                               | 15,695            | 32,054             | 749                       | 1,977            | 13,948                               |
| Illinois.....                                 | 54             | 21                                 | 1,302          | 7,709             | 1,107              | 2,247             | 5,999           | 11,430                               | 12,027            | 23,422             | 523                       | 1,442            | 10,515                               |
| Michigan.....                                 | 36             | 12                                 | 1,066          | 7,444             | 883                | 1,764             | 5,471           | 13,069                               | 13,375            | 25,932             | 542                       | 982              | 10,860                               |
| West North Central.                           | 29             | 12                                 | 714            | 3,611             | 597                | 1,215             | 2,838           | 8,416                                | 10,285            | 18,669             | 365                       | 848              | 6,803                                |
| Missouri.....                                 | 12             | 4                                  | 243            | 1,311             | 202                | 409               | 1,016           | 3,038                                | 4,273             | 7,312              | 160                       | 522              | 5,069                                |
| Nebraska.....                                 | 4              | 4                                  | 256            | 1,270             | 207                | 415               | 943             | 3,855                                | 4,316             | 8,025              | 147                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South.....                                    | 44             | 15                                 | 1,289          | 5,756             | 1,079              | 2,224             | 4,336           | 10,613                               | 12,288            | 22,986             | 715                       | 769              | 4,803                                |
| Alabama.....                                  | 3              | 3                                  | 125            | 573               | 107                | 212               | 419             | 997                                  | 1,361             | 2,413              | 14                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Texas.....                                    | 11             | 5                                  | 253            | 1,314             | 213                | 488               | 978             | 2,140                                | 3,236             | 5,388              | 113                       | 183              | 1,263                                |
| Mountain.....                                 | 7              | 3                                  | 179            | 844               | 160                | 316               | 693             | 918                                  | 1,216             | 2,124              | 24                        | 1,556            | 11,123                               |
| Pacific.....                                  | 69             | 18                                 | 1,065          | 6,103             | 896                | 1,791             | 4,775           | 10,789                               | 13,017            | 23,635             | 335                       |                  |                                      |
| California.....                               | 55             | 17                                 | 978            | 5,583             | 821                | 1,648             | 4,329           | 9,746                                | 11,458            | 20,997             | 275                       | 1,212            | 9,505                                |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>               | 1963           |                                    |                |                   |                    |                   |                 | 1958   |                             |                              |                                     |                        |  |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|------------------------|--|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |                        |  |
| INDUSTRY 3369.—NONFERROUS CASTINGS, N.E.C. |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| Total.....                                 | 391            | 165                                | 17,686         | 102,929           | 14,845             | 30,320            | 78,447          | 168,530  | 134,318                     | 302,731                      | 6,803                               | 17,253                 | 135,311  |
| New England.....                           | 34             | 9                                  | 529            | 2,711             | 449                | 923               | 1,989           | 4,478  | 3,108                       | 7,585                        | 259                                 | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| Massachusetts.....                         | 13             | 4                                  | 198            | 1,027             | 166                | 342               | 758             | 1,627  | 1,146                       | 2,768                        | 101                                 | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| Connecticut.....                           | 11             | 5                                  | 245            | 1,280             | 214                | 451               | 970             | 2,224  | 1,587                       | 3,819                        | 89                                  | 319                    | 2,416  |
| Middle Atlantic.....                       | 98             | 37                                 | 3,810          | 21,224            | 3,181              | 6,541             | 16,065          | 33,126   | 18,760                      | 52,270                       | 938                                 | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| New York.....                              | 53             | 19                                 | 1,648          | 8,759             | 1,366              | 2,852             | 6,312           | 14,833   | 8,674                       | 23,708                       | 444                                 | 1,613                  | 10,695   |
| New Jersey.....                            | 29             | 13                                 | 1,677          | 9,737             | 1,386              | 2,802             | 7,482           | 14,494   | 7,288                       | 21,874                       | 440                                 | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| Pennsylvania.....                          | 16             | 5                                  | 485            | 2,728             | 429                | 887               | 2,271           | 3,799  | 2,798                       | 6,688                        | 54                                  | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| East North Central..                       | 144            | 75                                 | 9,416          | 57,221            | 7,968              | 16,229            | 43,759          | 92,363   | 85,858                      | 177,385                      | 3,835                               | 9,563                  | 78,280   |
| Ohio.....                                  | 28             | 13                                 | 1,689          | 9,230             | 1,386              | 2,836             | 6,800           | 15,906   | 14,848                      | 30,549                       | 419                                 | 2,066                  | 16,176   |
| Illinois.....                              | 49             | 23                                 | 2,828          | 17,881            | 2,454              | 5,170             | 14,294          | 28,101   | 25,824                      | 53,481                       | 1,403                               | 3,168                  | 23,720   |
| Michigan.....                              | 56             | 31                                 | 3,965          | 24,275            | 3,344              | 6,674             | 18,366          | 38,301   | 39,426                      | 77,439                       | 1,978                               | 3,639                  | 33,217   |
| West North Central..                       | 21             | 9                                  | 938            | 5,146             | 787                | 1,565             | 3,942           | 8,025  | 7,577                       | 15,590                       | 430                                 | 754                    | 6,702  |
| Missouri.....                              | 10             | 4                                  | 390            | 2,230             | 323                | 626               | 1,776           | 3,205  | 3,615                       | 6,810                        | 155                                 | 597                    | 5,374  |
| South.....                                 | 34             | 9                                  | 650            | 2,961             | 554                | 1,074             | 2,298           | 4,774  | 3,361                       | 8,148                        | 323                                 | 317                    | 1,595  |
| Florida.....                               | 7              | 2                                  | 150            | 481               | 124                | 210               | 386             | 563  | 529                         | 1,143                        | 52                                  | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| Texas.....                                 | 10             | 2                                  | 214            | 1,132             | 182                | 360               | 896             | 1,748  | 1,214                       | 2,964                        | 169                                 | 216                    | 1,094  |
| Mountain.....                              | 4              | -                                  | 15             | 65                | 12                 | 24                | 53              | 149  | 103                         | 252                          | 11                                  | 1,844                  | 16,001   |
| Pacific.....                               | 56             | 26                                 | 2,328          | 13,601            | 1,894              | 3,964             | 10,341          | 25,615   | 15,551                      | 41,501                       | 1,007                               | 1,731                  | 15,019   |
| California.....                            | 52             | 25                                 | 2,241          | 13,130            | 1,815              | 3,809             | 9,919           | 24,975   | 15,142                      | 40,067                       | 910                                 |                        |  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3351, Copper Rolling and Drawing: New England—Massachusetts, 2 (500-999); Rhode Island, 5 (500-999); East North Central—Indiana, 2 (1,000-2,499); Wisconsin, 3 (1,411); West North Central—Minnesota, 2 (20-99); South Atlantic—Maryland, 1 (1,000-2,499); West Virginia, 1 (1-19); East South Central—Tennessee, 1 (20-99); Alabama, 1 (500-999); Mountain—Montana, 1 (100-249).

SIC 3351-21, Establishments with casting departments: New England—Massachusetts, 1 (100-249); Rhode Island, 2 (500-999); Connecticut, 11 (5,000-9,999); Middle Atlantic—New York, 1 (1,000-2,499); New Jersey, 3 (1,000-2,499); Pennsylvania, 3 (1,000-2,499); East North Central—Ohio, 1 (1,000-2,499); Indiana, 1 (1,000-2,499); Illinois, 4 (2,500-4,999); Michigan, 3 (1,000-2,499); Wisconsin, 1 (1,000-2,499); South Atlantic—Maryland, 1 (1,000-2,499); East South Central—Alabama, 1 (500-999); Pacific—California, 3 (500-999).

SIC 3351-22, Establishments without casting departments: New England—Massachusetts, 1 (500-999); Rhode Island, 3 (100-249); Connecticut, 15 (2,500-4,999); Middle Atlantic—New York, 8 (1,000-2,499); New Jersey, 12 (500-999); Pennsylvania, 12 (1,000-2,499); East North Central—Ohio, 5 (1,000-2,499); Indiana, 1 (20-99); Illinois, 1 (1-19); Michigan, 8 (1,000-2,499); Wisconsin, 2 (100-249); West North Central—Minnesota, 2 (20-99); South Atlantic—West Virginia—1 (1-19); East South Central—Tennessee, 1 (20-99); Mountain—Montana, 1 (100-249); Pacific—California, 3 (250-499);

SIC 3352, Aluminum Rolling and Drawing: New England—New Hampshire, 1 (20-99); Massachusetts, 5 (100-249); Rhode Island, 1 (20-99); Connecticut, 4 (291); East North Central—Indiana, 11 (2,992); Wisconsin, 1 (100-249); West North Central—Iowa, 2 (2,500-4,999); Missouri, 2 (250-499); Nebraska, 1 (1-19); Kansas, 2 (20-99); South Atlantic—Maryland, 2 (500-999); Virginia, 6 (1,000-2,499); West Virginia, 2 (1,000-2,499); North Carolina, 4 (818); South Carolina, 1 (20-99); Georgia, 4 (835); Florida, 7 (488); East South Central—Kentucky, 7 (1,000-2,499); Tennessee, 3 (4,773); Alabama, 3 (3,221); Mississippi, 2 (100-249); West South Central—Arkansas, 2 (250-499); Texas, 5 (500-999); Mountain—Arizona, 4 (1,000-2,499); Pacific—Washington, 4 (2,500-4,999).

SIC 3356, Rolling and Drawing, N.E.C.: New England—Maine, 1 (100-249); Rhode Island, 5 (100-249); Connecticut, 6 (538); East North Central—Indiana, 6 (2,500-4,999); Wisconsin, 1 (1-19); South Atlantic—Virginia, 1 (1-19); West Virginia, 1 (1,000-2,499); North Carolina, 3 (150); Georgia, 3 (20-99); Florida, 2 (20-99); East South Central—Tennessee, 1 (1-19); Alabama, 1 (20-99); West South Central—Oklahoma, 1 (20-99); Texas, 5 (100-249); Mountain—Colorado, 1 (1-19); Arizona, 1 (1-19); Nevada, 1 (500-999); Pacific—California, 9 (250).

SIC 3357, Nonferrous Wire Drawings, Etc.: East North Central—Ohio, 9 (250-499); Michigan, 11 (1,000-2,499); West North Central—Minnesota, 1 (1-19); Iowa, 1 (100-249); Missouri, 5 (500-999); Nebraska, 2 (500-999); South Atlantic—Delaware, 1 (20-99); Maryland, 3 (2,601); West Virginia, 1 (1-19); North Carolina 3 (381); Georgia, 4 (359); Florida, 1 (100-249); East South Central—Kentucky, 1 (20-99); Tennessee, 1 (20-99); Alabama, 1 (1-19); West South Central—Oklahoma, 1 (1-19); Pacific—Washington, 2 (100-249); Oregon, 1 (1-19); California, 35 (2,333).

SIC 3357-11, Wire drawing with rod mill: New England—Massachusetts, 1 (1,000-2,499); Rhode Island, 2 (500-999); Connecticut, 2 (500-999); Middle Atlantic—New York, 2 (250-499); New Jersey, 4 (1,000-2,499); Pennsylvania, 4 (500-999); East North Central—Ohio, 1 (100-249); Illinois, 5 (1,000-2,499); Michigan, 3 (500-999); West North Central—Missouri, 1 (250-499); Pacific—California, 1 (1,000-2,499).

SIC 3357-12, Wire drawing with neither rod mill nor insulating department: New England—Massachusetts, 2 (250-499); Rhode Island, 1 (1-19); Connecticut, 5 (250-499); Middle Atlantic—New Jersey, 4 (500-999); Pennsylvania, 3 (250-499); East North Central—Illinois, 4 (100-249); Michigan, 1 (1-19); Wisconsin, 1 (250-499); West North Central—Iowa, 1 (100-249); South Atlantic—North Carolina, 1 (1-19); Georgia, 3 (100-249); East South Central—Kentucky, 1 (20-99); West South Central—Texas, 1 (1-19); Pacific—Washington, 1 (100-249); California, 4 (100-249).

SIC 3357-13, Wire drawing without rod mill but with insulating department: New England—New Hampshire, 1 (20-99); Vermont, 2 (100-249); Massachusetts, 5 (2,500-4,999); Middle Atlantic—New Jersey, 9 (2,500-4,999); Pennsylvania, 4 (500-999); East North Central—Ohio, 1 (20-99); Indiana, 4 (2,500-4,999); Michigan, 4 (1,000-2,499); West North Central—Nebraska, 1 (500-999); South Atlantic—Maryland, 1 (1,000-2,499); North Carolina, 1 (250-499); Georgia, 1 (100-249); Florida, 1 (100-249); West South Central—Texas, 1 (100-249); Pacific—California, 5 (500-999).

SIC 3357-14, Establishments without wire drawing department: New England—New Hampshire, 3 (250-499); Vermont, 1 (100-249); Rhode Island, 3 (500-999); Middle Atlantic—New York, 19 (500-999); Pennsylvania, 3 (250-499); East North Central—Ohio, 7 (100-249); Indiana, 4 (500-999); Michigan, 3 (100-249); West North Central—Minnesota, 1 (1-19); Missouri, 4 (250-499); Nebraska, 1 (1-19); South Atlantic—Delaware, 1 (20-99); Maryland, 2 (250-499); West Virginia, 1 (1-19); North Carolina, 1 (20-99); East South Central—Tennessee, 1 (20-99); Alabama, 1 (1-19); West South Central—Oklahoma, 1 (1-19); Texas, 3 (500-999); Pacific—Washington, 1 (100-249); Oregon, 1 (1-19); California, 25 (1,000-2,499).

SIC 3361, Aluminum Castings: New England—New Hampshire, 3 (231); Rhode Island, 7 (20-99); West North Central—Nebraska, 3 (20-99); Kansas, 8 (100-249); South Atlantic—Delaware, 2 (1-19); Virginia, 3 (100-249); South Carolina, 5 (20-99); Georgia, 13 (100-249); East South Central—Kentucky, 4 (250-499); Tennessee, 12 (20-99); Alabama, 4 (500-999); Mississippi, 1 (1-19); West South Central—Louisiana, 1 (1-19); Oklahoma, 6 (100-249); Mountain—Colorado, 10 (20-99); New Mexico, 2 (1-19); Arizona, 2 (1-19); Utah, 1 (1-19); Pacific—Washington, 5 (20-99).

Footnotes continued on next page.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

## Footnotes for Table 2-33D—Continued

SIC 3362, Brass, Bronze, Copper Castings: New England—Maine, 3 (20-99); New Hampshire, 2 (100-249); Rhode Island, 6 (20-99); East North Central—Indiana, 20 (411); Wisconsin, 24 (1,056); West North Central—Minnesota, 6 (119); Iowa, 4 (20-99); Kansas, 3 (20-99); South Atlantic—Maryland, 3 (20-99); West Virginia, 5 (20-99); North Carolina, 2 (1-19); South Carolina, 1 (1-19); Georgia, 2 (20-99); Florida, 4 (20-99); East South Central—Kentucky, 1 (1-19); Tennessee, 1 (1-19); West South Central—Arkansas, 2 (500-999); Louisiana, 2 (1-19); Oklahoma, 7 (20-99); Mountain—Colorado, 5 (100-249); Arizona, 1 (1-19); Utah, 1 (20-99); Pacific—Washington, 8 (20-99); Oregon, 6 (20-99).

SIC 3369, Nonferrous Castings, N.E.C.: New England—New Hampshire, 1 (1-19); Vermont, 1 (1-19); Rhode Island, 8 (20-99); East North Central—Indiana, 5 (648); Wisconsin, 6 (286); West North Central—Minnesota, 7 (228); Iowa, 4 (320); South Atlantic—Delaware, 1 (1-19); Maryland, 1 (20-99); Virginia, 1 (1-19); West Virginia, 2 (20-99); North Carolina, 2 (20-99); East South Central—Tennessee, 4 (20-99); Alabama, 1 (1-19); Mississippi, 2 (1-19); West South Central—Louisiana, 1 (1-19); Oklahoma, 2 (20-99); Mountain—Colorado, 3 (1-19); Arizona, 1 (1-19); Pacific—Washington, 2 (1-19); Oregon, 2 (20-99).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.

<sup>3</sup>See footnote 4, table 1 for subindustry definitions.



TABLE 3. Detailed Statistics: 1963

| Item   | Copper rolling and drawing (SIC 3351) |  |   | Aluminum rolling and drawing (SIC 3352) |   |  | Rolling and drawing, n.e.c. (SIC 3356) |
|--|---------------------------------------|--|---|---|---|--|--|
|  | Total                                 | Establishments                                 |   | Total                                   | Establishments operated by--                          |  |  |
|  |                                       | With casting department <sup>1</sup> (3351-21) | Without casting department <sup>1</sup> (3351-22) |   | Primary (integrated) producers <sup>2</sup> (3352-11) | Nonintegrated producers <sup>2</sup> (3352-12 and 3352-13) |  |
| Primary product specialization ratio <sup>3</sup> .....        | .90                                   | (NA)   | (NA)  | .85                                     | (NA)  | (NA)   | .84                                    |
| Coverage ratio <sup>4</sup> .....                              | .91                                   | (NA)   | (NA)  | .93                                     | (NA)  | (NA)   | .81                                    |
| Establishments, total.....number..                             | 112                                   | 36   | 76  | 212                                     | 44  | 167  | 125                                    |
| With 1 to 19 employees.....do....                              | 20                                    | -  | 20  | 59                                      | 1   | 58   | 58                                     |
| With 20 to 99 employees.....do....                             | 28                                    | 2  | 26  | 74                                      | 6   | 68   | 35                                     |
| With 100 employees or more.....do....                          | 64                                    | 34   | 30  | 79                                      | 37  | 42   | 32                                     |
| Proprietors and working partners.....do....                    | 3                                     | (NA)   | (NA)  | 24                                      | (NA)  | (NA)   | 26                                     |
| All employees (average for the year).....do....                | 38,949                                | 25,752   | 13,197  | 54,263                                  | 40,183  | 14,080   | 17,375                                 |
| Payroll (all employees), total for year.....\$1,000..          | 260,320                               | 174,972  | 85,348  | 376,647                                 | 293,862   | 82,785   | 117,454                                |
| Production workers:  |                                       |  |   |   |   |  |  |
| Average for the year.....number..                              | 31,481                                | 20,774   | 10,707  | 42,758                                  | 31,713  | 11,045   | 12,275                                 |
| March.....do....   | 31,373                                | 20,707   | 10,666  | 42,045                                  | 31,444  | 10,601   | 12,146                                 |
| May.....do....   | 31,607                                | 21,079   | 10,528  | 43,221                                  | 32,033  | 11,188   | 12,275                                 |
| August.....do....  | 31,914                                | 21,099   | 10,815  | 43,280                                  | 31,848  | 11,432   | 12,564                                 |
| November.....do....  | 31,033                                | 20,215   | 10,818  | 42,448                                  | 31,489  | 10,959   | 12,115                                 |
| Man-hours.....1,000..  | 65,746                                | 43,765   | 21,981  | 89,867                                  | 66,472  | 23,396   | 25,367                                 |
| January-March.....do....                                       | 16,575                                | 11,080   | 5,495   | 21,860                                  | 16,457  | 5,403  | 6,391                                  |
| April-June.....do....  | 16,935                                | 11,348   | 5,587   | 23,060                                  | 17,097  | 5,963  | 6,669                                  |
| July-September.....do....                                      | 15,982                                | 10,688   | 5,294   | 22,485                                  | 16,365  | 6,120  | 6,119                                  |
| October-December.....do....                                    | 16,254                                | 10,649   | 5,605   | 22,463                                  | 16,553  | 5,910  | 6,188                                  |
| Wages.....\$1,000..  | 200,171                               | 135,769  | 64,402  | 278,469                                 | 221,720   | 56,749   | 74,052                                 |
| Cost of materials, etc., total.....do....                      | 1,188,548                             | 687,401  | 501,147   | 1,524,841                               | 1,199,955   | 324,886  | 405,011                                |
| Materials, parts, containers, and supplies consumed.....do.... | 1,120,641                             | 652,927  | 467,714   | 1,414,580                               | 1,112,676   | 301,904  | 368,372                                |
| Cost of resales.....do....                                     | 35,588                                | 13,062   | 22,526  | 56,194                                  | 47,543  | 8,651  | 15,648                                 |
| Fuels consumed.....do....                                      | 11,353                                | 8,095  | 3,258   | 20,581                                  | 17,138  | 3,443  | 4,749                                  |
| Electric energy:   |                                       |  |   |   |   |  |  |
| Purchased:   |                                       |  |   |   |   |  |  |
| Quantity.....million kw.-hrs..                                 | 1,307                                 | 924  | 384   | 2,842                                   | 2,442   | 400  | 643                                    |
| Cost.....\$1,000..   | 14,727                                | 9,879  | 4,848   | 22,244                                  | 17,167  | 5,077  | 6,016                                  |
| Generated less sold.....million kw.-hrs..                      | 121                                   | (D)  | (D)   | (D)                                     | (D)   | (D)  | (D)                                    |
| Contract work.....\$1,000..                                    | 6,239                                 | 3,438  | 2,801   | 11,242                                  | 5,434   | 5,808  | 10,226                                 |
| Value of shipments (including resales), total.....do....       | 1,657,526                             | 985,609  | 671,917   | 2,196,439                               | 1,711,616   | 484,823  | 640,962                                |
| Value of resales.....do....                                    | 36,884                                | 14,216   | 22,668  | 61,306                                  | 51,410  | 9,896  | 18,026                                 |
| Value added by manufacture, adjusted.....do....                | 478,393                               | 305,113  | 173,280   | 721,171                                 | 547,840   | 173,331  | 250,589                                |
| Manufacturers' inventories:                                    |                                       |  |   |   |   |  |  |
| Beginning of year, total.....do....                            | 208,685                               | 140,451  | 68,234  | 455,537                                 | 392,826   | 62,711   | 192,684                                |
| Finished products.....do....                                   | 52,761                                | 33,111   | 19,650  | 101,138                                 | 78,610  | 22,528   | 57,713                                 |
| Work-in-process.....do....                                     | 87,747                                | 61,690   | 26,057  | 259,463                                 | 243,966   | 15,497   | 84,697                                 |
| Materials, supplies, fuel, etc.....do....                      | 68,177                                | 45,650   | 22,527  | 94,936                                  | 70,250  | 24,686   | 50,274                                 |
| End of year, total.....do....                                  | 218,431                               | 150,220  | 68,211  | 511,902                                 | 427,225   | 84,677   | 205,905                                |
| Finished products.....do....                                   | 58,449                                | 36,950   | 21,499  | 120,801                                 | 90,977  | 29,824   | 61,827                                 |
| Work-in-process.....do....                                     | 91,474                                | 64,756   | 26,718  | 289,297                                 | 267,778   | 21,519   | 95,221                                 |
| Materials, supplies, fuel, etc.....do....                      | 68,508                                | 48,514   | 19,994  | 101,804                                 | 68,470  | 33,334   | 48,857                                 |
| Expenditures for plant and equipment, total.....do....         | 44,944                                | 27,944   | 17,000  | 87,386                                  | (D)   | (D)  | 22,668                                 |
| New, total.....do....  | 43,462                                | 26,965   | 16,497  | 81,282                                  | 64,735  | 16,547   | 22,154                                 |
| New structures and additions to plant.....do....               | 2,776                                 | 1,319  | 1,457   | 10,985                                  | 7,960   | 3,025  | 3,367                                  |
| New machinery and equipment.....do....                         | 40,686                                | 25,646   | 15,040  | 70,297                                  | 56,775  | 13,522   | 18,787                                 |
| Used plant and equipment.....do....                            | 1,482                                 | 979  | 503   | 6,104                                   | (D)   | (D)  | 514                                    |
| Selected operating ratios:                                     |                                       |  |   |   |   |  |  |
| Payroll/Total employment.....                                  | 6,684                                 | 6,795  | 6,467   | 6,941                                   | 7,313   | 5,880  | 6,760                                  |
| Production workers/Total employment.....                       | .81                                   | .81  | .81   | .79                                     | .79   | .78  | .71                                    |
| Man-hours/Production workers.....                              | 2,088                                 | 2,107  | 2,053   | 2,102                                   | 2,096   | 2,118  | 2,067                                  |
| Production worker wages/Man-hours.....                         | 3.04                                  | 3.10   | 2.93  | 3.10                                    | 3.34  | 2.43   | 2.92                                   |
| Cost of materials and payrolls/Total value of shipments.....   | .87                                   | .87  | .86   | .87                                     | .87   | .84  | .82                                    |
| Cost of materials/Total value of shipments.....                | .72                                   | .70  | .74   | .69                                     | .70   | .67  | .63                                    |
| Adjusted value added/Total employment.....                     | 12,164                                | 11,848   | 13,130  | 13,289                                  | 13,634  | 12,310   | 14,422                                 |
| Salaries and wages/Adjusted value added.....                   | .55                                   | .57  | .49   | .52                                     | .54   | .48  | .47                                    |

See footnotes at end of table.

TABLE 3. Detailed Statistics: 1963—Continued

| Item   | Nonferrous wire drawing, etc. (SIC 3357) |                             |  |                                |  | Aluminum castings (SIC 3361) | Brass, bronze, copper castings (SIC 3362) | Nonferrous castings, n.e.c. (SIC 3369) |
|--|--|-----------------------------|--|--------------------------------|--|------------------------------|---|--|
|  | Total                                    | Wire drawing establishments |  | Wire insulating establishments |  |                              |   |  |
|  |  | With rod mill (3357-11)     | Without rod mill or insulating (3357-12) | Wire wire drawing (3357-13)    | With neither wire rod nor wire drawing (3357-14) |                              |   |  |
| Primary product specialization ratio <sup>3</sup> .....        | .91                                      | (NA)                        | (NA)                                     | (NA)                           | (NA)   | .81                          | .84                                       | .78                                    |
| Coverage ratio <sup>4</sup> .....                              | .86                                      | (NA)                        | (NA)                                     | (NA)                           | (NA)   | .83                          | .78                                       | .75                                    |
| Establishments, total.....number..                             | 299                                      | 32                          | 41                                       | 72                             | 154  | 954                          | 549                                       | 391                                    |
| With 1 to 19 employees.....do....                              | 72                                       | -                           | 11                                       | 2                              | 59   | 633                          | 356                                       | 226                                    |
| With 20 to 99 employees.....do....                             | 86                                       | 4                           | 14                                       | 12                             | 56   | 252                          | 163                                       | 125                                    |
| With 100 employees or more.....do....                          | 141                                      | 28                          | 16                                       | 58                             | 39   | 69                           | 30  | 40                                     |
| Proprietors and working partners.....do....                    | 39                                       | (NA)                        | 4,359                                    | (NA)                           | (NA)   | 481                          | 239                                       | 143                                    |
| All employees (average for the year).....do....                | 56,418                                   | 9,258                       | 4,359                                    | 30,347                         | 12,454   | 36,216                       | 15,341                                    | 17,686                                 |
| Payroll (all employees), total for year.....\$1,000..          | 339,935                                  | 57,042                      | 27,807                                   | 187,718                        | 67,368   | 222,771                      | 86,350                                    | 102,929                                |
| Production workers:  |  |                             |  |                                |  |                              |   |  |
| Average for the year.....number..                              | 43,905                                   | 7,537                       | 3,524                                    | 23,241                         | 9,603  | 30,746                       | 12,835                                    | 14,845                                 |
| March.....do....   | 43,579                                   | 7,597                       | 3,498                                    | 23,033                         | 9,451  | 30,621                       | 12,775                                    | 14,572                                 |
| May.....do....   | 44,721                                   | 7,424                       | 3,445                                    | 24,252                         | 9,595  | 30,732                       | 12,883                                    | 14,608                                 |
| August.....do....  | 43,446                                   | 7,602                       | 3,566                                    | 22,645                         | 9,633  | 30,536                       | 13,039                                    | 14,815                                 |
| November.....do....  | 43,876                                   | 7,524                       | 3,586                                    | 23,035                         | 9,731  | 31,095                       | 12,643                                    | 15,385                                 |
| Man-hours.....1,000..  | 90,368                                   | 15,672                      | 7,382                                    | 47,731                         | 19,583   | 63,432                       | 26,052                                    | 30,320                                 |
| January-March.....do....                                       | 22,922                                   | 3,970                       | 1,889                                    | 12,204                         | 4,859  | 16,011                       | 6,373                                     | 7,491                                  |
| April-June.....do....  | 22,947                                   | 3,986                       | 1,823                                    | 12,190                         | 4,948  | 16,251                       | 6,609                                     | 7,504                                  |
| July-September.....do....                                      | 21,347                                   | 3,653                       | 1,781                                    | 11,135                         | 4,778  | 15,311                       | 6,542                                     | 7,354                                  |
| October-December.....do....                                    | 23,182                                   | 4,063                       | 1,889                                    | 12,196                         | 5,034  | 15,859                       | 6,528                                     | 7,971                                  |
| Wages.....\$1,000..  | 240,904                                  | 43,801                      | 19,624                                   | 132,664                        | 44,815   | 174,155                      | 65,095                                    | 78,447                                 |
| Cost of materials, etc., total.....do....                      | 1,452,095                                | 368,424                     | 98,082                                   | 735,320                        | 250,269  | 299,398                      | 144,433                                   | 134,318                                |
| Materials, parts, containers, and supplies consumed.....do.... | 1,405,424                                | 362,207                     | 94,234                                   | 706,321                        | 242,662  | 262,003                      | 132,061                                   | 104,619                                |
| Cost of resales.....do....                                     | 16,547                                   | (D)                         | 1,558                                    | (D)                            | 3,515  | 4,224                        | 2,926                                     | 3,503                                  |
| Fuels consumed.....do....                                      | 6,400                                    | 1,691                       | 458                                      | 3,270                          | 991  | 8,405                        | 3,267                                     | 2,880                                  |
| Electric energy:   |  |                             |  |                                |  |                              |   |  |
| Purchased:   |  |                             |  |                                |  |                              |   |  |
| Quantity.....million kw.-hrs..                                 | 1,338                                    | 303                         | 103                                      | 760                            | 180  | 659                          | 162                                       | 221                                    |
| Cost.....\$1,000..   | 15,996                                   | 3,550                       | 1,165                                    | 8,880                          | 2,401  | 7,080                        | 2,658                                     | 3,416                                  |
| Generated less sold.....million kw.-hrs..                      | (D)                                      | -                           | -  | (D)                            | -  | (D)                          | -   | -                                      |
| Contract work.....\$1,000..                                    | 7,728                                    | (D)                         | 677                                      | (D)                            | 700  | 17,686                       | 3,521                                     | 19,900                                 |
| Value of shipments (including resales), total.....do....       | 2,117,943                                | 498,611                     | 147,864                                  | 1,083,475                      | 387,993  | 640,193                      | 287,534                                   | 302,731                                |
| Value of resales.....do....                                    | 22,257                                   | (D)                         | 2,176                                    | (D)                            | 5,509  | 5,629                        | 3,616                                     | 5,496                                  |
| Value added by manufacture, adjusted.....do....                | 677,535                                  | 133,749                     | 50,923                                   | 350,789                        | 142,074  | 343,863                      | 144,092                                   | 168,530                                |
| Manufacturers' inventories:                                    |  |                             |  |                                |  |                              |   |  |
| Beginning of year, total.....do....                            | 327,648                                  | 55,801                      | 20,286                                   | 199,100                        | 52,461   | 44,185                       | 31,176                                    | 22,233                                 |
| Finished products.....do....                                   | 123,459                                  | 22,931                      | 5,654                                    | 74,718                         | 20,156   | 7,013                        | 7,779                                     | 4,808                                  |
| Work-in-process.....do....                                     | 115,999                                  | 18,558                      | 7,235                                    | 75,787                         | 14,419   | 15,199                       | 11,417                                    | 8,791                                  |
| Materials, supplies, fuel, etc.....do....                      | 88,190                                   | 14,312                      | 7,397                                    | 48,595                         | 17,886   | 21,973                       | 11,980                                    | 8,634                                  |
| End of year, total.....do....                                  | 339,256                                  | 60,135                      | 21,348                                   | 200,686                        | 57,087   | 46,898                       | 32,634                                    | 23,320                                 |
| Finished products.....do....                                   | 138,665                                  | 24,929                      | 6,451                                    | 81,639                         | 25,646   | 7,796                        | 8,090                                     | 5,227                                  |
| Work-in-process.....do....                                     | 112,580                                  | 20,122                      | 7,679                                    | 71,500                         | 13,279   | 17,484                       | 12,097                                    | 8,489                                  |
| Materials, supplies, fuel, etc.....do....                      | 88,011                                   | 15,084                      | 7,218                                    | 47,547                         | 18,162   | 21,618                       | 12,447                                    | 9,604                                  |
| Expenditures for plant and equipment, total.....do....         | 46,016                                   | 7,887                       | 6,513                                    | 25,003                         | 6,613  | 19,951                       | 6,402                                     | 7,650                                  |
| New, total.....do....  | 44,478                                   | 7,643                       | 6,447                                    | 24,064                         | 6,324  | 18,374                       | 5,394                                     | 6,803                                  |
| New structures and additions to plant.....do....               | 10,085                                   | 1,409                       | 1,490                                    | 6,347                          | 839  | 3,272                        | 1,507                                     | 1,501                                  |
| New machinery and equipment.....do....                         | 34,393                                   | 6,234                       | 4,957                                    | 17,717                         | 5,485  | 15,102                       | 3,887                                     | 5,302                                  |
| Used plant and equipment.....do....                            | 1,538                                    | 244                         | 66                                       | 939                            | 289  | 1,577                        | 1,008                                     | 847                                    |
| Selected operating ratios:                                     |  |                             |  |                                |  |                              |   |  |
| Payroll/Total employment.....                                  | 6,025                                    | 6,161                       | 6,378                                    | 6,186                          | 5,409  | 6,151                        | 5,629                                     | 5,820                                  |
| Production workers/Total employment.....                       | .78                                      | .82                         | .81                                      | .77                            | .77  | .85                          | .84                                       | .84                                    |
| Man-hours/Production workers.....                              | 2,058                                    | 2,079                       | 2,095                                    | 2,054                          | 2,039  | 2,063                        | 2,030                                     | 2,042                                  |
| Production worker wages/Man-hours.....                         | 2.67                                     | 2.79                        | 2.66                                     | 2.78                           | 2.29   | 2.75                         | 2.50                                      | 2.59                                   |
| Cost of materials and payrolls/Total value of shipments.....   | .85                                      | .85                         | .85                                      | .85                            | .82  | .82                          | .80                                       | .78                                    |
| Cost of materials/Total value of shipments.....                | .69                                      | .74                         | .68                                      | .68                            | .65  | .47                          | .50                                       | .44                                    |
| Adjusted value added/Total employment.....                     | 12,009                                   | 14,447                      | 11,682                                   | 11,559                         | 11,408   | 9,395                        | 9,393                                     | 9,529                                  |
| Salaries and wages/Adjusted value added.....                   | .50                                      | .43                         | .55                                      | .54                            | .47  | .65                          | .60                                       | .61                                    |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>See footnote 4, table 1 for subindustry definitions.

<sup>2</sup>See footnote 5, table 1 for subindustry definitions.

<sup>3</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>4</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item   | Establishments, total | Establishments with an average of- |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3351.—COPPER ROLLING AND DRAWING  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..  | 112                   | 9                                  | 4                | 7                  | 15                 | 13                 | 18                   | 21                   | 11                   | 14                       | -                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 38,949                | 40                                 | (D)              | 85                 | 507                | 994                | 2,881                | 7,315                | 7,811                | 19,316                   | -                        |
| Payroll.....\$1,000..  | 260,320               | 284                                | (D)              | 522                | 3,159              | 6,262              | 18,133               | 48,995               | 51,774               | 131,191                  | -                        |
| Value added, adjusted.....do....   | 478,393               | 805                                | (D)              | 2,306              | 6,827              | 18,242             | 35,965               | 90,836               | 101,216              | 222,196                  | -                        |
| Value of shipments.....do....  | 1,657,526             | 2,340                              | (D)              | 5,454              | 119,017            | 75,734             | 151,075              | 291,144              | 292,124              | 720,638                  | -                        |
| Capital expenditures, new...do....   | 43,462                | 113,079                            | (D)              | (D)                | (D)                | (D)                | (D)                  | 4,810                | 3,139                | 22,434                   | -                        |
| Subindustry 3351-21.—Copper Rolling and Drawing—ESTABLISHMENTS WITH CASTING DEPARTMENT <sup>2</sup>                        |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..  | 36                    | -                                  | -                | -                  | -                  | 2                  | 5                    | 8                    | 10                   | 11                       | -                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 25,752                | -                                  | -                | -                  | -                  | 840                | (D)                  | 2,942                | 21,970               | (D)                      | -                        |
| Payroll.....\$1,000..  | 174,972               | -                                  | -                | -                  | -                  | 5,371              | (D)                  | 20,134               | 149,467              | (D)                      | -                        |
| Value added, adjusted.....do....   | 305,113               | -                                  | -                | -                  | -                  | 11,693             | (D)                  | 30,276               | 263,144              | (D)                      | -                        |
| Value of shipments.....do....  | 985,609               | -                                  | -                | -                  | -                  | 33,085             | (D)                  | 113,585              | 838,939              | (D)                      | -                        |
| Capital expenditures, new...do....   | 26,965                | -                                  | -                | -                  | -                  | 296                | (D)                  | 2,745                | 23,924               | (D)                      | -                        |
| Subindustry 3351-22.—Copper Rolling and Drawing—ESTABLISHMENTS WITHOUT CASTING DEPARTMENT <sup>2</sup>                     |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..  | 76                    | 9                                  | 4                | 7                  | 15                 | 11                 | 13                   | 13                   | 1                    | 3                        | -                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 13,197                | 40                                 | (D)              | 85                 | 507                | 3,035              | (D)                  | 4,373                | 5,157                | (D)                      | -                        |
| Payroll.....\$1,000..  | 85,343                | 284                                | (D)              | 522                | 3,159              | 19,024             | (D)                  | 28,861               | 33,498               | (D)                      | -                        |
| Value added, adjusted.....do....   | 173,280               | 805                                | (D)              | 2,306              | 6,827              | 42,514             | (D)                  | 60,560               | 60,268               | (D)                      | -                        |
| Value of shipments.....do....  | 671,917               | 2,340                              | (D)              | 5,454              | 119,017            | 193,724            | (D)                  | 177,559              | 173,823              | (D)                      | -                        |
| Capital expenditures, new...do....   | 16,497                | 112,783                            | (D)              | (D)                | (D)                | (D)                | (D)                  | 2,065                | 1,649                | (D)                      | -                        |
| INDUSTRY 3352.—ALUMINUM ROLLING AND DRAWING  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..  | 212                   | 26                                 | 19               | 14                 | 42                 | 32                 | 37                   | 17                   | 9                    | 11                       | 5                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 54,263                | 56                                 | 128              | 188                | 1,442              | 2,317              | 5,948                | 6,051                | 5,590                | 32,543                   | (D)                      |
| Payroll.....\$1,000..  | 376,647               | 242                                | 691              | 926                | 7,998              | 13,078             | 34,682               | 42,335               | 35,534               | 241,161                  | (D)                      |
| Value added, adjusted.....do....   | 721,171               | 1,481                              | 2,506            | 3,674              | 18,622             | 28,244             | 71,008               | 73,839               | 86,105               | 435,692                  | (D)                      |
| Value of shipments.....do....  | 2,196,439             | 2,188                              | 4,710            | 9,928              | 57,946             | 87,526             | 232,737              | 279,742              | 238,842              | 1,282,820                | (D)                      |
| Capital expenditures, new...do....   | 81,282                | 3,446                              | 87               | 191                | 2,112              | 2,768              | 4,866                | 9,247                | 7,834                | 53,731                   | (D)                      |
| Subindustry 3352-11.—Aluminum Rolling and Drawing—ESTABLISHMENTS OPERATED BY PRIMARY (INTEGRATED) PRODUCERS <sup>4</sup>   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..  | 44                    | 1                                  | -                | -                  | 3                  | 3                  | 5                    | 12                   | 4                    | 11                       | 5                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 40,183                | 258                                | -                | -                  | (D)                | (D)                | 838                  | 6,544                | (D)                  | 32,543                   | (D)                      |
| Payroll.....\$1,000..  | 293,862               | 1,605                              | -                | -                  | (D)                | (D)                | 5,036                | 46,060               | (D)                  | 241,161                  | (D)                      |
| Value added, adjusted.....do....   | 547,840               | 2,014                              | -                | -                  | (D)                | (D)                | 14,227               | 95,907               | (D)                  | 435,692                  | (D)                      |
| Value of shipments.....do....  | 1,711,616             | 10,691                             | -                | -                  | (D)                | (D)                | 59,595               | 358,510              | (D)                  | 1,282,820                | (D)                      |
| Capital expenditures, new...do....   | 64,735                | 3,936                              | -                | -                  | (D)                | (D)                | 639                  | 9,429                | (D)                  | 53,731                   | (D)                      |
| Subindustries 3352-12 and-13.—Aluminum Rolling and Drawing—ESTABLISHMENTS OPERATED BY NONINTEGRATED PRODUCERS <sup>4</sup> |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..  | 168                   | 25                                 | 19               | 14                 | 39                 | 29                 | 32                   | 5                    | 5                    | -                        | -                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 14,080                | 3,873                              | (D)              | (D)                | (D)                | (D)                | 5,110                | 5,097                | (D)                  | -                        | -                        |
| Payroll.....\$1,000..  | 82,785                | 21,330                             | (D)              | (D)                | (D)                | (D)                | 29,646               | 31,809               | (D)                  | -                        | -                        |
| Value added, adjusted.....do....   | 173,331               | 52,513                             | (D)              | (D)                | (D)                | (D)                | 56,781               | 64,037               | (D)                  | -                        | -                        |
| Value of shipments.....do....  | 484,823               | 151,607                            | (D)              | (D)                | (D)                | (D)                | 173,142              | 160,074              | (D)                  | -                        | -                        |
| Capital expenditures, new...do....   | 16,547                | 4,668                              | (D)              | (D)                | (D)                | (D)                | 4,227                | 7,652                | (D)                  | -                        | -                        |
| INDUSTRY 3356.—ROLLING AND DRAWING, N.E.C.   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..  | 125                   | 26                                 | 15               | 17                 | 19                 | 16                 | 17                   | 6                    | 6                    | 2                        | 1                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 17,375                | 52                                 | 103              | 256                | 632                | 1,088              | 2,565                | 2,170                | 4,586                | 5,923                    | (D)                      |
| Payroll.....\$1,000..  | 117,454               | 330                                | 623              | 1,674              | 3,636              | 6,116              | 16,556               | 15,552               | 29,405               | 43,562                   | (D)                      |
| Value added, adjusted.....do....   | 250,589               | 886                                | 2,181            | 5,609              | 7,147              | 12,458             | 30,729               | 36,603               | 71,995               | 82,981                   | (D)                      |
| Value of shipments.....do....  | 640,962               | 3,982                              | 4,963            | 33,892             | 30,580             | 59,033             | 85,093               | 113,142              | 142,079              | 168,198                  | (D)                      |
| Capital expenditures, new...do....   | 22,154                | 47                                 | 68               | 134                | 503                | 512                | 1,678                | 1,241                | 2,320                | 15,651                   | (D)                      |

See footnotes at end of table.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963—Continued

| Item   | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3357.—NONFERROUS WIRE DRAWING, ETC.   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..  | 299                   | 36                                 | 11               | 25                 | 57                 | 29                 | 67                   | 44                   | 23                   | 7                        | -                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 56,418                | 126                                | (D)              | 341                | 1,949              | 1,993              | 10,507               | 15,191               | 16,158               | 10,153                   | -                        |
| Payroll.....\$1,000..  | 339,935               | 729                                | (D)              | 1,690              | 11,066             | 10,119             | 60,783               | 92,114               | 98,839               | 64,595                   | -                        |
| Value added, adjusted.....do....   | 677,525               | 1,429                              | (D)              | 4,430              | 26,366             | 18,926             | 127,438              | 183,139              | 201,503              | 114,304                  | -                        |
| Value of shipments.....do....  | 2,117,943             | 3,584                              | (D)              | 10,378             | 79,744             | 64,800             | 398,430              | 640,801              | 591,892              | 328,314                  | -                        |
| Capital expenditures, new...do....   | 44,478                | 133                                | (D)              | 230                | 1,450              | 2,227              | 8,052                | 8,821                | 10,987               | 12,578                   | -                        |
| Subindustry 3357-11.—Nonferrous Wire Drawing, etc.—WIRE DRAWING ESTABLISHMENTS WITH ROD MILL                           |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..  | 32                    | -                                  | -                | -                  | 2                  | 2                  | 16                   | 7                    | 4                    | 1                        | -                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 9,258                 | -                                  | -                | -                  | 189                | (D)                | 2,508                | 2,683                | 3,878                | (D)                      | -                        |
| Payroll.....\$1,000..  | 57,042                | -                                  | -                | -                  | 1,155              | (D)                | 14,768               | 17,639               | 23,480               | (D)                      | -                        |
| Value added, adjusted.....do....   | 133,749               | -                                  | -                | -                  | 2,005              | (D)                | 34,629               | 48,681               | 48,434               | (D)                      | -                        |
| Value of shipments.....do....  | 498,611               | -                                  | -                | -                  | 9,382              | (D)                | 108,680              | 234,692              | 145,857              | (D)                      | -                        |
| Capital expenditures, new...do....   | 7,643                 | -                                  | -                | -                  | 595                | (D)                | 3,038                | 1,703                | 2,307                | (D)                      | -                        |
| Subindustry 3357-12.—Nonferrous Wire Drawing, etc.—WIRE DRAWING ESTABLISHMENTS WITHOUT ROD MILL OR INSULATING          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..  | 41                    | 3                                  | 3                | 5                  | 6                  | 8                  | 12                   | 3                    | 1                    | -                        | -                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 4,359                 | 21                                 | (D)              | 274                | (D)                | 539                | 1,791                | 1,734                | (D)                  | -                        | -                        |
| Payroll.....\$1,000..  | 27,807                | 138                                | (D)              | 1,618              | (D)                | 2,873              | 11,054               | 12,124               | (D)                  | -                        | -                        |
| Value added, adjusted.....do....   | 50,923                | 301                                | (D)              | 3,418              | (D)                | 7,286              | 18,828               | 21,090               | (D)                  | -                        | -                        |
| Value of shipments.....do....  | 147,864               | 638                                | (D)              | 10,777             | (D)                | 21,595             | 75,142               | 39,712               | (D)                  | -                        | -                        |
| Capital expenditures, new...do....   | 6,447                 | 26                                 | (D)              | 394                | (D)                | 924                | 1,155                | 3,948                | (D)                  | -                        | -                        |
| Subindustry 3357-13.—Nonferrous Wire Drawing, etc.—WIRE DRAWING ESTABLISHMENTS WITHOUT ROD MILL BUT WITH INSULATING    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..  | 72                    | -                                  | -                | 2                  | 6                  | 6                  | 18                   | 18                   | 16                   | 6                        | -                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 30,347                | -                                  | -                | 662                | (D)                | (D)                | 3,033                | 6,233                | 20,419               | (D)                      | -                        |
| Payroll.....\$1,000..  | 187,718               | -                                  | -                | 3,334              | (D)                | (D)                | 17,014               | 38,953               | 128,417              | (D)                      | -                        |
| Value added, adjusted.....do....   | 350,789               | -                                  | -                | 6,431              | (D)                | (D)                | 37,973               | 58,552               | 247,833              | (D)                      | -                        |
| Value of shipments.....do....  | 1,083,475             | -                                  | -                | 28,153             | (D)                | (D)                | 131,528              | 198,940              | 724,854              | (D)                      | -                        |
| Capital expenditures, new...do....   | 24,064                | -                                  | -                | 420                | (D)                | (D)                | 1,871                | 3,664                | 18,109               | (D)                      | -                        |
| Subindustry 3357-14.—Nonferrous Wire Drawing, etc.—WIRE INSULATING ESTABLISHMENTS WITH NEITHER ROD MILL NOR INSULATING |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..  | 154                   | 33                                 | 8                | 18                 | 43                 | 13                 | 21                   | 16                   | 2                    | -                        | -                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 12,454                | 105                                | (D)              | 247                | 1,436              | 936                | 3,175                | 6,555                | (D)                  | -                        | -                        |
| Payroll.....\$1,000..  | 67,368                | 591                                | (D)              | 1,204              | 8,253              | 4,438              | 17,947               | 34,935               | (D)                  | -                        | -                        |
| Value added, adjusted.....do....   | 142,074               | 1,131                              | (D)              | 3,457              | 20,061             | 7,061              | 36,008               | 74,356               | (D)                  | -                        | -                        |
| Value of shipments.....do....  | 387,993               | 2,946                              | (D)              | 7,303              | 53,282             | 24,430             | 83,080               | 216,952              | (D)                  | -                        | -                        |
| Capital expenditures, new...do....   | 6,324                 | 107                                | (D)              | 166                | 782                | 626                | 1,988                | 2,655                | (D)                  | -                        | -                        |
| INDUSTRY 3361.—ALUMINUM CASTINGS   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..  | 954                   | 292                                | 173              | 168                | 179                | 73                 | 39                   | 21                   | 6                    | 3                        | -                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 36,216                | 550                                | 1,164            | 2,300              | 5,527              | 5,397              | 6,240                | 6,964                | 4,611                | 3,463                    | -                        |
| Payroll.....\$1,000..  | 222,771               | 2,425                              | 5,544            | 11,547             | 29,318             | 29,842             | 37,003               | 45,496               | 34,823               | 26,773                   | -                        |
| Value added, adjusted.....do....   | 343,863               | 5,049                              | 9,553            | 18,279             | 46,082             | 50,931             | 60,412               | 60,864               | 59,171               | 33,522                   | -                        |
| Value of shipments.....do....  | 640,193               | 8,699                              | 16,101           | 32,190             | 82,686             | 90,251             | 111,302              | 119,103              | 110,615              | 69,246                   | -                        |
| Capital expenditures, new...do....   | 18,374                | 273                                | 397              | 662                | 2,284              | 1,987              | 3,898                | 1,968                | 3,105                | 3,800                    | -                        |
| INDUSTRY 3362.—BRASS, BRONZE, COPPER CASTINGS  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..  | 549                   | 119                                | 97               | 140                | 128                | 35                 | 21                   | 8                    | 1                    | -                        | -                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 15,341                | 236                                | 659              | 1,957              | 3,837              | 2,289              | 3,029                | 3,334                | (D)                  | -                        | -                        |
| Payroll.....\$1,000..  | 86,350                | 1,192                              | 3,280            | 9,851              | 20,625             | 12,977             | 17,695               | 20,730               | (D)                  | -                        | -                        |
| Value added, adjusted.....do....   | 144,092               | 2,327                              | 5,451            | 15,189             | 32,403             | 23,396             | 30,915               | 34,411               | (D)                  | -                        | -                        |
| Value of shipments.....do....  | 287,534               | 4,054                              | 9,913            | 31,149             | 68,060             | 52,889             | 60,166               | 61,303               | (D)                  | -                        | -                        |
| Capital expenditures, new...do....   | 5,394                 | 132                                | 163              | 428                | 1,327              | 661                | 805                  | 1,878                | (D)                  | -                        | -                        |

See footnotes at end of table.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963—Continued

| Item                                       | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3369.—NONFERROUS CASTINGS, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                | 391                   | 102                                | 55               | 69                 | 77                 | 48                 | 24                   | 13                   | 3                    | -                        | -                        |
| All employees:                             |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                           | 17,686                | 164                                | 392              | 976                | 2,573              | 3,388              | 3,902                | <u>6,291</u>         | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                      | 102,929               | 986                                | 1,926            | 4,926              | 13,462             | 19,089             | 22,302               | <u>40,238</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....           | 168,530               | 1,974                              | 4,178            | 8,267              | 23,546             | 32,693             | 36,308               | <u>61,564</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....              | 302,731               | 3,548                              | 7,313            | 14,733             | 45,746             | 60,850             | 64,151               | <u>106,390</u>       | (D)                  | -                        | -                        |
| Capital expenditures, new...do....         | 6,803                 | 194                                | 287              | 517                | 1,157              | 1,541              | 1,574                | <u>1,533</u>         | (D)                  | -                        | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left. n.e.c. Not elsewhere classified.

<sup>1</sup>Includes capital expenditures of approximately \$5-\$10 million for plants under construction but not in operation.

<sup>2</sup>See footnote 4, table 1 for subindustry definitions.

<sup>3</sup>Includes capital expenditures of approximately \$200-\$500 thousand for plants under construction but not in operation.

<sup>4</sup>See footnote 5, table 1 for subindustry definition.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                         |
|-----------|---|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------|
|           |   | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio          |
|           |   | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B Col. B+C (percent)            | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B Col. F (percent) |
|           |   | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                       |
| 3351      | Copper rolling and drawing.....1963..   | 1,657,526          | 1,409,059        | 154,432            | 94,035                 | 90                                   | 1,544,505                          | 1,409,059             | 135,446                  | 91                      |
|           | 1958..                                  | 1,209,926          | 975,762          | 134,063            | 100,101                | 88                                   | 1,034,397                          | 975,762               | 58,635                   | 94                      |
| 3352      | Aluminum rolling and drawing.....1963.. | 2,196,439          | 1,758,267        | 303,751            | 134,421                | 85                                   | 1,898,885                          | 1,758,267             | 140,618                  | 193                     |
|           | 1958..                                  | 1,562,381          | 1,360,661        | 131,338            | 70,382                 | 91                                   | 1,472,252                          | 1,360,661             | 111,591                  | 192                     |
| 3356      | Rolling and drawing, n.e.c.....1963..   | 640,962            | 511,329          | 99,471             | 30,162                 | 84                                   | 630,536                            | 511,329               | 119,207                  | 281                     |
|           | 1958..                                  | 486,308            | 352,879          | 105,163            | 28,266                 | 77                                   | 428,210                            | 352,879               | 75,331                   | 282                     |
| 3357      | Nonferrous wire drawing, etc.....1963.. | 2,117,943          | 1,885,334        | 176,272            | 56,337                 | 91                                   | 2,185,011                          | 1,885,334             | 299,677                  | 386                     |
|           | 1958..                                  | 1,465,999          | 1,357,662        | 69,735             | 38,602                 | 95                                   | 1,634,961                          | 1,357,662             | 277,299                  | 383                     |
| 3361      | Aluminum castings.....1963..            | 640,193            | 504,783          | 121,685            | 13,725                 | 81                                   | 607,028                            | 504,783               | 102,245                  | 83                      |
|           | 1958..                                  | 422,041            | 324,538          | 86,497             | 11,006                 | 79                                   | 399,605                            | 324,538               | 75,067                   | 81                      |
| 3362      | Brass, bronze, copper castings...1963.. | 287,534            | 234,622          | 43,901             | 9,011                  | 84                                   | 299,769                            | 234,622               | 65,147                   | 78                      |
|           | 1958..                                  | 220,955            | 180,459          | 33,052             | 7,464                  | 85                                   | 222,755                            | 180,459               | 42,296                   | 81                      |
| 3369      | Nonferrous castings, n.e.c.....1963..   | 302,731            | 229,121          | 64,434             | 9,176                  | 78                                   | 306,484                            | 229,121               | 77,363                   | 75                      |
|           | 1958..                                  | 234,649            | 179,536          | 50,381             | 4,732                  | 78                                   | 233,236                            | 179,536               | 53,700                   | 77                      |

Note: See Introduction for an explanation of terms used.

n.e.c. Not elsewhere classified.

Included in this industry is aluminum and aluminum-base alloy wire (including ACSR) which is also primary to industry 3357, Nonferrous Wire Drawing, Etc. A coverage ratio computed on the basis of including both industries to which aluminum and aluminum-base alloy wire (including ACSR) is primary, in 1963 would total 96 percent; 93 percent by industry 3352, and 3 percent by industry 3357. The remaining 4 percent was shipped by establishments in other industries. For 1958 the comparable percentages were: 96 percent; 92 percent by industry 3352, and 4 percent by industry 3357.

<sup>2</sup>Included in this industry is other nonferrous metal wire, which is also primary to industry 3357, Nonferrous Wire Drawing, Etc. A coverage ratio computed on the basis of including both industries to which nonferrous metal wire is primary in 1963 would total 85 percent; 81 percent by industry 3356, and 4 percent by industry 3357. The remaining 15 percent was shipped by establishments in other industries. For 1958 the comparable percentages were: 87 percent; 82 percent by industry 3356, and 5 percent by industry 3357. The remaining 13 percent was shipped by establishments in other industries.

<sup>3</sup>Included in this industry are aluminum and aluminum-base alloy wire (including ACSR), other nonferrous metal wire, nonferrous woven wire products, and appliance wire and cord and flexible cord sets which are also primary, respectively, to industries 3352, Aluminum Rolling and Drawing; 3356, Rolling and Drawing, Etc.; 3481, Fabricated Wire Products, N.E.C.; and 3699, Electrical Products, N.E.C. A coverage ratio computed on the basis of including the industries to which these products are primary in 1963 would total 94 percent; 76 percent by industry 3357, and 8 percent by industries 3352, 3356, 3481, and 3699. The remaining 6 percent was shipped by establishments in other industries. For 1958 the comparable percentages were: 93 percent; 84 percent by industry 3357, and 9 percent by industries 3352, 3356, 3481, and 3699. The remaining 7 percent was shipped by establishments in other industries.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars except for ranges (shown in parentheses) which are expressed in millions of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous

receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                             | Class of products and miscellaneous receipts   | All industries       | Copper rolling and drawing (SIC 3351) |   |  | Other industries    |
|--|--|----------------------|---------------------------------------|---|--|---------------------|
|  |  |                      | Total                                 | Establishments with casting department <sup>1</sup> | Establishments without casting department <sup>2</sup> |                     |
| <b>COPPER ROLLING AND DRAWING INDUSTRY</b>   |  |                      |                                       |   |  |                     |
|  | Total shipments and receipts of the industry.....  | (X)                  | 1,657,526                             | 985,609   | 671,917  | (X)                 |
|  | Primary products.....  | 1,544,505            | 1,409,059                             | 846,740   | 562,319  | 135,446             |
| 33511  | Copper and copper-base alloy wire, bare and tinned for purposes other than electrical transmission.....                    | 73,150               | 59,514                                | 41,940  | 17,574   | 13,636              |
| 33512  | Rolled, drawn and extruded copper and copper-base alloy mill products.....   | 1,471,355            | 1,349,545                             | 804,800   | 544,745  | 121,810             |
|  | Secondary products.....  | (X)                  | 154,432                               | 93,399  | 61,033   | (X)                 |
| 33412  | Secondary copper (ingot, shot, etc.).....  | (X)                  | (over 2)                              | (over 2)  | (under 2)  | (X)                 |
| 33522  | Aluminum plate and sheet (including foil stock).....   | (X)                  | (over 2)                              | (over 2)  | (under 2)  | (X)                 |
| 33524  | Rolled aluminum rod, bar (including continuous cast) and structural shapes....   | (X)                  | (over 2)                              | -   | (over 2)   | (X)                 |
| 33525  | Extruded aluminum rod, bar, and other extruded shapes excluding tube.....  | (X)                  | 9,836                                 | (over 2)  | (over 2)   | (X)                 |
| 33526  | Aluminum tube and other rolled, drawn or extruded mill products.....   | (X)                  | 10,409                                | 7,294   | 3,115  | (X)                 |
| 33560  | Rolled, drawn, and extruded nonferrous metal mill products (except copper and aluminum).....                               | (X)                  | 18,876                                | 10,779  | 8,097  | (X)                 |
| 33571  | Aluminum and aluminum-base alloy wire and cable (including ACSR) (produced in nonferrous wire drawing establishments)..... | (X)                  | (over 2)                              | (under 2)   | (over 2)   | (X)                 |
| 33572  | Copper and copper-base alloy wire (including strand and cable) bare and tinned for electrical transmission.....            | (X)                  | (over 2)                              | (over 2)  | (over 2)   | (X)                 |
| 33620  | Copper and copper-base alloy castings.....   | (X)                  | (over 2)                              | (over 2)  | (over 2)   | (X)                 |
| 33920  | Nonferrous forgings.....   | (X)                  | 14,063                                | (over 2)  | (over 2)   | (X)                 |
| 34613  | Job stampings, automotive.....   | (X)                  | (over 2)                              | -   | (over 2)   | (X)                 |
| 35552  | Other printing trades machinery, including parts and attachments.....  | (X)                  | (over 2)                              | -   | (over 2)   | (X)                 |
| 35855  | Condensing units, all refrigerants.....  | (X)                  | (over 2)                              | -   | (over 2)   | (X)                 |
| 36216  | Parts and supplies for motors, generators, and motor generator sets, except land transportation.....                       | (X)                  | (over 2)                              | (under 2)   | (over 2)   | (X)                 |
| 36232  | Arc welding electrodes, metal.....   | (X)                  | (over 2)                              | (over 2)  | -  | (X)                 |
| 36442  | Electrical conduit and conduit fittings.....   | (X)                  | (over 2)                              | -   | (over 2)   | (X)                 |
|  | Miscellaneous receipts.....  | (X)                  | 94,035                                | 45,470  | 48,565   | (X)                 |
|  | Contract work.....   | (X)                  | 26,218                                | 13,199  | 13,019   | (X)                 |
|  | Resales.....   | (X)                  | 36,884                                | 14,216  | 22,668   | (X)                 |
|  | Other miscellaneous receipts.....  | (X)                  | 30,933                                | 18,055  | 12,878   | (X)                 |
|  | Listing of other industries with over \$2 million shipments of each primary product class:                                 |                      |                                       |   |  |                     |
| 33511  | 3357 Nonferrous wire drawing, etc.....   | (X)                  | (X)                                   | (X)   | (X)  | 8,708               |
| 33512  | 3312 Blast furnaces and steel mills.....   | (X)                  | (X)                                   | (X)   | (X)  | (over 2)            |
|  | 3352 Aluminum rolling and drawing.....   | (X)                  | (X)                                   | (X)   | (X)  | (10-20)             |
|  | 3357 Nonferrous wire drawing, etc.....   | (X)                  | (X)                                   | (X)   | (X)  | (50-100)            |
|  | 3511 Steam engines and turbines.....   | (X)                  | (X)                                   | (X)   | (X)  | (over 2)            |
|  | 3661 Telephone; telegraph apparatus.....   | (X)                  | (X)                                   | (X)   | (X)  | (over 2)            |
|  |  |                      |                                       |   |  |                     |
|  |  |                      | All industries                        | Aluminum rolling and drawing (SIC 3352)             |  | Other industries    |
| <b>ALUMINUM ROLLING AND DRAWING INDUSTRY</b> |  |                      |                                       |   |  |                     |
|  | Total shipments and receipts of the industry.....  | (X)                  |                                       | 2,196,439   |  | (X)                 |
|  | Primary products.....  | 1,898,885            |                                       | 1,758,267   |  | 140,618             |
| 33521  | Aluminum and aluminum-base alloy wire (including ACSR).....  | <sup>2</sup> 127,948 |                                       | 56,929  |  | <sup>2</sup> 71,019 |
| 33522  | Aluminum plate and sheet (including foil stock).....   | 850,459              |                                       | 827,259   |  | 23,200              |
| 33523  | Plain aluminum foil.....   | <sup>3</sup> 129,381 |                                       | 129,381   |  | ( <sup>3</sup> )    |
| 33524  | Rolled aluminum rod, bare (including continuous cast) and structural shapes....  | 145,157              |                                       | 137,073   |  | 8,084               |
| 33525  | Extruded aluminum rod, bar, and other aluminum shapes, excluding tube.....   | 397,295              |                                       | 375,552   |  | 21,743              |
| 33526  | Aluminum tube and other rolled, drawn or extruded mill products.....   | 139,172              |                                       | 122,939   |  | 16,233              |
| 33527  | Aluminum ingot, produced in aluminum rolling mills.....  | <sup>4</sup> 49,024  |                                       | 49,024  |  | -                   |
| 33528  | Aluminum extrusion billet, produced in aluminum rolling mills.....   | <sup>4</sup> 48,745  |                                       | 48,745  |  | -                   |
| 33520  | Aluminum rolling and drawing, n.s.k.....   | 11,704               |                                       | <sup>3</sup> 11,704                                 |  | ( <sup>3</sup> )    |
|  | Secondary products.....  | (X)                  |                                       | 303,751   |  | (X)                 |
| 19610  | Small arms ammunition, 30 mm. and under (or 1.18 inches and under).....  | (X)                  |                                       | (over 2)  |  | (X)                 |
| 25912  | Venetian blinds.....   | (X)                  |                                       | (over 2)  |  | (X)                 |
| 26415  | Laminated or coated wrappers, except waxed (rolls and sheets).....   | (X)                  |                                       | (over 2)  |  | (X)                 |
| 26416  | Other coated and processed paper, except wrappers.....   | (X)                  |                                       | (over 2)  |  | (X)                 |
| 26510  | Folding paperboard boxes and cartons (except ice cream, butter, mayonnaise, frozen food, etc.).....                        | (X)                  |                                       | (over 2)  |  | (X)                 |
| 33512  | Rolled, drawn and extruded copper and copper-base alloy mill products.....   | (X)                  |                                       | (10-20)   |  | (X)                 |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963 and 1958—Continued

| Prod. class code   | Class of products and miscellaneous receipts  | All industries       | Aluminum rolling and drawing (SIC 3352) | Other industries     |
|--|---|----------------------|---|----------------------|
| ALUMINUM ROLLING AND DRAWING INDUSTRY—Continued  |   |                      |   |                      |
| Secondary products—Continued   |   |                      |   |                      |
| 33560  | Rolled, drawn, and extruded nonferrous metal mill products (except copper and aluminum).....                    | (X)                  | 9,692                                   | (X)                  |
| 33572  | Copper and copper-base alloy wire (including strand and cable) bare and tinned for electrical transmission..... | (X)                  | (over 2)                                | (X)                  |
| 33574  | Communication wire and cable.....   | (X)                  | (2-5)                                   | (X)                  |
| 33578  | Power wire and cable.....   | (X)                  | (over 2)                                | (X)                  |
| 33579  | Other insulated wire and cable, n.e.c.....  | (X)                  | 15,688                                  | (X)                  |
| 33920  | Nonferrous forgings.....  | (X)                  | (10-20)                                 | (X)                  |
| 34320  | Plumbing fixture fittings and trim (brass goods).....   | (X)                  | (over 2)                                | (X)                  |
| 34422  | Metal window sash and frames (except storm sash).....   | (X)                  | (5-10)                                  | (X)                  |
| 34423  | Metal molding and trim, and store fronts.....   | (X)                  | (over 2)                                | (X)                  |
| 34441  | Sheet, metal roofing and siding and roof drainage equipment.....  | (X)                  | 30,074                                  | (X)                  |
| 34492  | Prefabricated and portable metal buildings and parts.....   | (X)                  | (over 2)                                | (X)                  |
| 34612  | Job stampings, except automotive.....   | (X)                  | (2-5)                                   | (X)                  |
| 34613  | Job stampings, automotive.....  | (X)                  | (over 2)                                | (X)                  |
| 34811  | Noninsulated ferrous wire rope, cable and strand not produced by wire drawers..                                 | (X)                  | (over 2)                                | (X)                  |
| 34970  | Metal foil and leaf (except plain aluminum foil).....   | (X)                  | 120,990                                 | (X)                  |
| 35990  | Carburetors, pistons, and other machine shop products.....  | (X)                  | (over 2)                                | (X)                  |
| 36442  | Electrical conduit and conduit fittings.....  | (X)                  | (10-20)                                 | (X)                  |
|  | Other secondary products.....   | (X)                  | 23,950                                  | (X)                  |
|  | Miscellaneous receipts.....   | (X)                  | 134,421                                 | (X)                  |
| 93000  | Contract work, including toll processing.....   | (X)                  | 19,141                                  | (X)                  |
| 99980  | Sales of scrap and refuse.....  | (X)                  | 49,487                                  | (X)                  |
| 99989  | Resales.....  | (X)                  | 61,306                                  | (X)                  |
| 99980  | All other miscellaneous receipts.....   | (X)                  | 4,487                                   | (X)                  |
| Listing of other industries with over \$2 million shipments of each primary product class: |   |                      |   |                      |
| 33522  | 3351 Copper rolling and drawing.....  | (X)                  | (X)                                     | (over 2)             |
|  | 3356 Rolling and drawing, n.e.c.....  | (X)                  | (X)                                     | (5-10)               |
| 33524  | 3351 Copper rolling and drawing.....  | (X)                  | (X)                                     | (over 2)             |
| 33525  | 3351 Copper rolling and drawing.....  | (X)                  | (X)                                     | 9,836                |
|  | 3356 Rolling and drawing, n.e.c.....  | (X)                  | (X)                                     | (over 2)             |
|  | 3442 Metal doors, sash, and trim.....   | (X)                  | (X)                                     | 2,240                |
| 33526  | 3351 Copper rolling and drawing.....  | (X)                  | (X)                                     | 10,409               |
|  | 3442 Metal doors, sash, and trim.....   | (X)                  | (X)                                     | (2-5)                |
|  |   | All industries       | Rolling and drawing, n.e.c. (SIC 3356)  | Other industries     |
| ROLLING AND DRAWING, N.E.C., INDUSTRY  |   |                      |   |                      |
| Total shipments and receipts of the industry.....  |   | (X)                  | 640,962                                 | (X)                  |
| 33560  | Rolled, drawn and extruded nonferrous metal mill products (except copper and aluminum).....                     | <sup>5</sup> 630,536 | 511,329                                 | <sup>5</sup> 119,207 |
| Secondary products.....  |   |                      |   |                      |
| 28199  | Reagent and high purity grades of inorganic chemicals and other inorganic chemicals, n.e.c.....                 | (X)                  | 3,640                                   | (X)                  |
| 33416  | Other secondary nonferrous metals (pig, ingot, shot, etc.).....   | (X)                  | 2,576                                   | (X)                  |
| 33991  | Metal powders and paste.....  | (X)                  | 5,744                                   | (X)                  |
|  | All other secondary products.....   | (X)                  | 87,511                                  | (X)                  |
| 28993  | Essential oils, fireworks, and pyrotechnics, chemicals and chemical preparations, n.e.c.....                    | (X)                  | (over 2)                                | (X)                  |
| 33167  | Cold rolled steel sheet and strip (not made in steel mills).....  | (X)                  | (over 2)                                | (X)                  |
| 33413  | Secondary lead (ingot, shot, etc.).....   | (X)                  | (5-10)                                  | (X)                  |
| 33522  | Aluminum plate and sheet (including foil stock).....  | (X)                  | (5-10)                                  | (X)                  |
| 33525  | Extruded aluminum rod, bar, and other extruded shapes, excluding tube.....                                      | (X)                  | (5-10)                                  | (X)                  |
| 35595  | Other special industry machinery, and equipment.....  | (X)                  | (over 2)                                | (X)                  |
| 36232  | Arc welding electrodes, metal.....  | (X)                  | (over 2)                                | (X)                  |
| 36430  | Current carrying devices, including lightning rods.....   | (X)                  | (over 2)                                | (X)                  |
| 36920  | Primary batteries, dry and wet.....   | (X)                  | (over 2)                                | (X)                  |
| 37224  | Aircraft engine parts and accessories.....  | (X)                  | (10-20)                                 | (X)                  |
| 37291  | Other aircraft parts and auxiliary equipment.....   | (X)                  | (over 2)                                | (X)                  |
| 37292  | Guided missile components and subassemblies, n.e.c.....   | (X)                  | (over 2)                                | (X)                  |
| Miscellaneous receipts.....  |   |                      |   |                      |
|  | Receipts for toll processing.....   | (X)                  | 3,149                                   | (X)                  |
|  | Other contract work.....  | (X)                  | 4,219                                   | (X)                  |
|  | Value of resales.....   | (X)                  | 18,026                                  | (X)                  |
|  | Other miscellaneous receipts.....   | (X)                  | 4,768                                   | (X)                  |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963 and 1958—Continued

| Prod. class code   | Class of products and miscellaneous receipts   | All industries                           | Rolling and drawing, n.e.c. (SIC 3356)      |                  | Other industries                               |                  |           |                     |
|--|--|--|---|------------------|--|------------------|-----------|---------------------|
|  |  |  |   |                  |  |                  |           |                     |
| ROLLING AND DRAWING, N.E.C., INDUSTRY—Continued  |  |  |   |                  |  |                  |           |                     |
| Listing of other industries with over \$2 million shipments of product class 33560:        |  |  |   |                  |  |                  |           |                     |
| 33560  | 3312 Blast furnaces and steel mills.....   | (X)                                      | (X)   | (X)              | 6,681 (over 2)                                 |                  |           |                     |
|  | 3315 Steel wire drawing, etc.....  | (X)                                      | (X)   | (X)              | (2-5)  |                  |           |                     |
|  | 3317 Steel pipe and tube.....  | (X)                                      | (X)   | (X)              | (over 2)                                       |                  |           |                     |
|  | 3323 Steel foundries.....  | (X)                                      | (X)   | (X)              | (5-12)   |                  |           |                     |
|  | 3339 Primary nonferrous metals, n.e.c.....   | (X)                                      | (X)   | (X)              | 16,507   |                  |           |                     |
|  | 3341 Secondary nonferrous metals.....  | (X)                                      | (X)   | (X)              | 18,876   |                  |           |                     |
|  | 3351 Copper rolling and drawing.....   | (X)                                      | (X)   | (X)              | 9,692  |                  |           |                     |
|  | 3352 Aluminum rolling and drawing.....   | (X)                                      | (X)   | (X)              | (over 2)                                       |                  |           |                     |
|  | 3545 Machine tool accessories.....   | (X)                                      | (X)   | (X)              | (over 2)                                       |                  |           |                     |
|  | 3661 Telephone; telegraph apparatus.....   | (X)                                      | (X)   | (X)              | (over 2)                                       |                  |           |                     |
|  | 3694 Engine electrical equipment.....  | (X)                                      | (X)   | (X)              | (over 2)                                       |                  |           |                     |
|  | 3871 Watches and clocks.....   | (X)                                      | (X)   | (X)              | (over 2)                                       |                  |           |                     |
| Class of products and miscellaneous receipts   | All industries   | Nonferrous wire drawing, etc. (SIC 3357) |   |                  |  | Other industries |           |                     |
|  |  | Total                                    | Establishments with wire drawing department |                  | Establishments without wire drawing department |                  |           |                     |
|  |  |  | With rod mill                               | Without rod mill |  |                  |           |                     |
|  |  | Without insulating department            | With insulating department                  |                  |  |                  |           |                     |
| NONFERROUS WIRE DRAWING, ETC., INDUSTRY  |  |  |   |                  |  |                  |           |                     |
|  | Total shipments and receipts of the industry.....  | (X)                                      | 2,117,943                                   | 498,611          | 147,864  | 1,083,475        | 387,993   | (X)                 |
|  | Primary products.....  | 2,185,011                                | 1,885,334                                   | 381,774          | 125,077  | 1,011,205        | 367,278   | 299,677             |
| 33571  | Aluminum and aluminum-base alloy wire and cable (including ACSR).....  | <sup>6</sup> 127,948                     | 66,365                                      | (D)              | 24,435   | (D)              | -         | <sup>6</sup> 61,583 |
| 33572  | Copper and copper-base alloy wire (including strand and cable) bare and tinned, for electrical transmission.....                                       | 244,979                                  | 217,060                                     | 117,980          | 65,438   | (D)              | (D)       | 27,919              |
| 33573  | Other bare nonferrous metal wire.....  | <sup>7</sup> 45,600                      | 25,831                                      | (D)              | 11,437   | (D)              | -         | <sup>7</sup> 19,769 |
| 33574  | Communication wire and cable.....  | 581,781                                  | 579,287                                     | 72,455           | -  | 366,453          | 140,379   | 2,494               |
| 33575  | Nonferrous wire cloth and other woven wire products.....   | <sup>8</sup> 70,487                      | 21,231                                      | -                | 21,231   | -                | -         | <sup>8</sup> 49,256 |
| 33576  | Appliance wire and cord and flexible cord sets.....  | <sup>9</sup> 167,664                     | 101,667                                     | 12,726           | (D)  | 57,833           | (D)       | <sup>9</sup> 65,997 |
| 33577  | Magnet wire.....   | 258,308                                  | 216,427                                     | 94,674           | -  | (D)              | (D)       | 41,881              |
| 33578  | Power wire and cable.....  | 218,810                                  | 216,363                                     | 17,593           | -  | 172,279          | 26,491    | 2,447               |
| 33579  | Other insulated wire and cable, n.e.c.....   | 454,071                                  | 425,740                                     | 53,577           | (D)  | 259,426          | (D)       | 28,331              |
| 33570  | Nonferrous wire drawing, etc., n.s.k.....  | 15,363                                   | 15,363                                      | -                | (D)  | (D)              | 10,631    | -                   |
|  | Secondary products.....  | (X)                                      | 176,262                                     | 103,768          | 16,130   | 43,138           | 13,236    | (X)                 |
| 33155  | Steel wire not produced in steel mills.....  | (X)                                      | (2-5)                                       | (under 2)        | (2-5)  | (under 2)        | -         | (X)                 |
| 33511  | Copper and copper base alloy wire, bare and tinned for purposes other than electrical transmission.....  | (X)                                      | 8,708                                       | (over 2)         | (2-5)  | (under 2)        | (under 2) | (X)                 |
| 33512  | Rolled, drawn, and extruded copper and copper-base alloy mill products.....  | (X)                                      | (50-100)                                    | (50-100)         | -  | (under 2)        | -         | (X)                 |
| 34815  | Nonferrous wire cloth and other woven nonferrous wire products, not made by wire drawers.....  | (X)                                      | (over 2)                                    | -                | (over 2)                                       | -                | -         | (X)                 |
| 36442  | Electrical conduit and conduit fittings.....   | (X)                                      | (over 2)                                    | -                | -  | (over 2)         | (under 2) | (X)                 |
| 36612  | Other telephone and telegraph (wire) apparatus, equipment and components.....  | (X)                                      | (over 2)                                    | -                | -  | (over 2)         | -         | (X)                 |
| 36621  | Commercial industrial and military electronic communication equipment (except broadcast equipment, space satellite-borne communication equipment)..... | (X)                                      | (over 2)                                    | -                | -  | -                | (over 2)  | (X)                 |
| 36795  | Other electronic components and accessories, n.e.c., including parts for electron tubes (except glass blanks).....                                     | (X)                                      | (over 2)                                    | (over 2)         | -  | -                | (under 2) | (X)                 |
|  | Miscellaneous receipts.....  | (X)                                      | 56,337                                      | 13,069           | 6,657  | 29,132           | 7,479     | (X)                 |
|  | Contract work.....   | (X)                                      | 5,613                                       | 4,919            | 265  | 14,288           | 713       | (X)                 |
|  | Resales.....   | (X)                                      | 22,257                                      | 8,150            | 2,176  | 5,509            | 1,257     | (X)                 |
|  | Other miscellaneous receipts.....  | (X)                                      | 28,467                                      | 8,150            | 4,216  | 14,844           | 1,257     | (X)                 |
| Listing of other industries with over \$2 million shipments of each primary product class: |  |  |   |                  |  |                  |           |                     |
| 33571  | 3351 Copper rolling and drawing.....   | (X)                                      | (X)   | (X)              | (X)  | (X)              | (X)       | (over 2)            |
| 33572  | 3351 Copper rolling and drawing.....   | (X)                                      | (X)   | (X)              | (X)  | (X)              | (X)       | (over 2)            |
|  | 3352 Aluminum rolling and drawing.....   | (X)                                      | (X)   | (X)              | (X)  | (X)              | (X)       | (2-5)               |
| 33573  | 3315 Steel wire drawing, etc.....  | (X)                                      | (X)   | (X)              | (X)  | (X)              | (X)       | (over 2)            |
| 33575  | 3442 Metal doors, sash, and trim.....  | (X)                                      | (X)   | (X)              | (X)  | (X)              | (X)       | (over 2)            |
| 33576  | 3643 Current carrying devices.....   | (X)                                      | (X)   | (X)              | (X)  | (X)              | (X)       | 12,624              |
| 33577  | 3612 Transformers.....   | (X)                                      | (X)   | (X)              | (X)  | (X)              | (X)       | (over 2)            |
|  | 3621 Motors and generators.....  | (X)                                      | (X)   | (X)              | (X)  | (X)              | (X)       | (over 2)            |
|  | 3717 Motor vehicles and parts.....   | (X)                                      | (X)   | (X)              | (X)  | (X)              | (X)       | (over 2)            |
| 33579  | 3352 Aluminum rolling and drawing.....   | (X)                                      | (X)   | (X)              | (X)  | (X)              | (X)       | 15,688              |
|  | 3717 Motor vehicles and parts.....   | (X)                                      | (X)   | (X)              | (X)  | (X)              | (X)       | (over 2)            |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963 and 1958—Continued

| Prod. class code   | Class of products and miscellaneous receipts  | All industries | Aluminum castings (SIC 3361) | Brass, bronze, copper castings (SIC 3362) | Nonferrous castings, n.e.c. (SIC 3369) | Gray iron foundries (SIC 3321) | Other industries |
|--|---|----------------|------------------------------|---|--|--------------------------------|------------------|
| NONFERROUS FOUNDRIES INDUSTRIES  |   |                |                              |   |  |                                |                  |
|  | Total shipments and receipts of the industry.....   | (X)            | 640,193                      | 287,534                                   | 302,731                                | (X)                            | (X)              |
| 336--  | Nonferrous castings.....  | 1,213,281      | 580,955                      | 254,458                                   | 270,807                                | 30,869                         | 76,192           |
| 33610  | Aluminum and aluminum-base alloy castings.....  | 607,028        | 504,783                      | 18,430                                    | 39,265                                 | 17,369                         | 27,181           |
| 33620  | Copper and copper-base alloy castings.....  | 299,769        | 15,995                       | 234,622                                   | 2,421                                  | 10,487                         | 36,244           |
| 33690  | Nonferrous castings, n.e.c.....   | 306,484        | 60,177                       | 1,406                                     | 229,121                                | 3,013                          | 12,767           |
|  | Other products.....   | (X)            | 45,513                       | 24,065                                    | 22,748                                 | (X)                            | (X)              |
| 33230  | Steel castings.....   | (X)            | 5,702                        | 6,469                                     | 577                                    | (X)                            | (X)              |
| 35441  | Special dies and tools, die sets, jigs and fixtures.....  | (X)            | 18,369                       | 570                                       | 10,240                                 | (X)                            | (X)              |
| 35650  | Industrial patterns, except shoe (of wood, metal, etc.).....  | (X)            | 5,785                        | 908                                       | 1,925                                  | (X)                            | (X)              |
| 35661  | Plain bearings.....   | (X)            | (under 2)                    | 3,783                                     | (under 2)                              | (X)                            | (X)              |
| 35990  | Carburetors, pistons, and other machine shop products.....  | (X)            | 2,183                        | (under 2)                                 | -                                      | (X)                            | (X)              |
| 37175  | Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufacturers..... | (X)            | (under 2)                    | (under 2)                                 | (over 2)                               | (X)                            | (X)              |
|  | All other products.....   | (X)            | 13,474                       | 12,335                                    | 10,006                                 | (X)                            | (X)              |
|  | Miscellaneous receipts.....   | (X)            | 13,725                       | 9,011                                     | 9,176                                  | (X)                            | (X)              |
|  | Contract and commission work.....   | (X)            | 2,069                        | 1,667                                     | 1,879                                  | (X)                            | (X)              |
|  | Value of resales.....   | (X)            | 5,629                        | 3,616                                     | 5,496                                  | (X)                            | (X)              |
|  | Scrap and salable refuse.....   | (X)            | 4,251                        | 2,122                                     | 1,801                                  | (X)                            | (X)              |
|  | Other miscellaneous receipts.....   | (X)            | 1,776                        | 1,606                                     |  |                                |                  |
| Listing of other industries with over \$2 million shipments of each primary product class: |   |                |                              |   |  |                                |                  |
| 33610  | 3322 Malleable iron foundries.....  | (X)            | (X)                          | (X)                                       | (X)                                    | (X)                            | 2,485            |
|  | 3323 Steel foundries.....   | (X)            | (X)                          | (X)                                       | (X)                                    | (X)                            | 2,959            |
|  | 3599 Miscellaneous machinery.....   | (X)            | (X)                          | (X)                                       | (X)                                    | (X)                            | 4,253            |
|  | 3634 Electric housewares and fans.....  | (X)            | (X)                          | (X)                                       | (X)                                    | (X)                            | (over 2)         |
|  | 3635 Household vacuum cleaners.....   | (X)            | (X)                          | (X)                                       | (X)                                    | (X)                            | (over 2)         |
| 33620  | 3322 Malleable iron foundries.....  | (X)            | (X)                          | (X)                                       | (X)                                    | (X)                            | 1,785            |
|  | 3323 Steel foundries.....   | (X)            | (X)                          | (X)                                       | (X)                                    | (X)                            | 3,089            |
|  | 3351 Copper rolling and drawing.....  | (X)            | (X)                          | (X)                                       | (X)                                    | (X)                            | (5-10)           |
|  | 3562 Ball and roller bearings.....  | (X)            | (X)                          | (X)                                       | (X)                                    | (X)                            | (2-5)            |
|  | 3566 Power transmission equipment.....  | (X)            | (X)                          | (X)                                       | (X)                                    | (X)                            | 2,655            |
|  | 3585 Refrigeration machinery.....   | (X)            | (X)                          | (X)                                       | (X)                                    | (X)                            | (over 2)         |
|  | 3662 Radio, TV communications equipment.....  | (X)            | (X)                          | (X)                                       | (X)                                    | (X)                            | (over 2)         |
|  | 3717 Motor vehicles and parts.....  | (X)            | (X)                          | (X)                                       | (X)                                    | (X)                            | (over 2)         |
| 33690  | 3494 Valves and pipe fittings.....  | (X)            | (X)                          | (X)                                       | (X)                                    | (X)                            | 2,346            |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

- <sup>1</sup>See footnote 4, table 1 for subindustry definition.
- <sup>2</sup>Includes total for product class 33571, Aluminum and aluminum-base alloy wire and cable (including ACSR), which is primary to industry 3352.
- <sup>3</sup>Figures for "other industries" included with industry 3352 to avoid disclosing figures for individual companies.
- <sup>4</sup>These figures exclude the values for aluminum ingot and aluminum extrusion billet produced by industries other than 3352, Aluminum Rolling and Drawing. (See industries 3334, Primary Aluminum, and 3341, Secondary Nonferrous Metals, in final industry report MC63(2)-33C, Smelting and Refining of Nonferrous Metals and Alloys.)
- <sup>5</sup>Includes total for product class 33573, Other bare nonferrous metal wire, which is primary to industry 3356.
- <sup>6</sup>Includes total for product class 33521, Aluminum and aluminum-base alloy wire (including ACSR), which is primary to industry 3357.
- <sup>7</sup>Includes part of product class 33560, Rolled, drawn, and extruded nonferrous metal mill products (except copper and aluminum), which is primary to industry 3357.
- <sup>8</sup>Includes total for product class 34815, Nonferrous wire cloth and other woven nonferrous wire products, which is primary to industry 3357.
- <sup>9</sup>Includes total for product class 36996, Appliance wire and cord, and flexible cord sets, which is primary to industry 3357.

TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Receipts <sup>1</sup><br>(short tons)                     | Total shipments including interplant transfers <sup>2</sup> |                     | Commercial shipments     |                    | Interplant transfers     |                    | Produced and consumed in the same plant in the manufacture of other products<br>(short tons) | Shipments of products manufactured from materials owned by others<br>(short tons) |     |
|--------------|---|---|---|---------------------|--------------------------|--------------------|--------------------------|--------------------|--|---|-----|
|              |   |   | Quantity<br>(short tons)                                    | Value<br>(\$1,000)  | Quantity<br>(short tons) | Value<br>(\$1,000) | Quantity<br>(short tons) | Value<br>(\$1,000) |  |   |     |
| 1963         |   |   |   |                     |                          |                    |                          |                    |  |   |     |
| 3351- --     | COPPER ROLLING AND DRAWING, TOTAL <sup>3</sup> .                            | (NA)  | (NA)  | 1,544,505           | (NA)                     | 1,230,441          | (NA)                     | 314,064            | (NA)   | (D)   |     |
| 33511 --     | Copper wire, bare and tinned (non-electrical).....                          | (NA)  | 67,896  | 73,150              | 63,368                   | 68,372             | 4,528                    | 4,778              | (NA)   | (D)   |     |
| 33511 11     | Unalloyed.....  | (NA)  | 12,976  | 13,051              | 63,368                   | 68,372             | 4,528                    | 4,778              | (NA)   | (D)   |     |
| 33511 31     | Alloyed.....  | (NA)  | 54,920  | 60,099              |                          |                    |                          |                    |  |   |     |
| 33512 --     | Copper mill shapes.....   | (NA)  | (NA)  | 1,471,355           | (NA)                     | 1,162,069          | (NA)                     | 309,286            | (NA)   | 207,609   |     |
| Unalloyed:   |   |   |   |                     |                          |                    |                          |                    |  |   |     |
| 33512 11     | Rod, bar, and shapes.....   | (NA)  | 548,811   | 380,080             | 192,285                  | 141,879            | 356,526                  | 238,201            | (NA)   | 164,117   |     |
| 33512 13     | Flat products (sheet, strip, plate, etc.).....                              | (NA)  | 122,570   | 122,366             | 118,774                  | 119,118            | 3,796                    | 3,248              | (NA)   | 8,675   |     |
| 33512 16     | Pipe and tube, plumbing.....  | (NA)  | 234,998   | 245,697             | 225,744                  | 235,466            | 9,254                    | 10,231             | (NA)   | 1,902   |     |
| 33512 18     | Other pipe and tube.....  | (NA)  | 136,584   | 147,137             | 132,462                  | 143,278            | 4,122                    | 3,859              | (NA)   |   |     |
| Alloyed:     |   |   |   |                     |                          |                    |                          |                    |  |   |     |
| 33512 32     | Rod, bar, and shapes.....   | (NA)  | 222,573   | 167,502             | 211,063                  | 160,606            | 11,510                   | 6,896              | (NA)   | 32,915  |     |
| 33512 35     | Flat products (sheet, strip, plate), including military cups and disks..... | (NA)  | 308,910   | 303,786             | 260,352                  | 263,331            | 48,434                   | 40,455             | (NA)   |   |     |
| 33512 36     | Pipe and tube, plumbing.....  | (NA)  | 15,545  | 19,456              | 15,489                   | 19,415             | 56                       | 41                 | (NA)   |   |     |
| 33512 38     | Other pipe and tube.....  | (NA)  | 66,492  | 82,344              | 59,849                   | 75,989             | 6,643                    | 6,355              | (NA)   |   |     |
| 33512 00     | Copper mill shapes, n.s.k.....  | (NA)  | (NA)  | 2,987               | (NA)                     | 2,987              | -                        | -                  | -  | -   |     |
| 3352- --     | ALUMINUM ROLLING AND DRAWING, TOTAL <sup>4</sup> .....                      | (NA)  | (X)   | 1,898,885           | (X)                      | (X)                | (X)                      | (X)                | (X)  | (X)   |     |
| 33521 --     | Aluminum and aluminum-base alloy wire (including ACSR).....                 | (NA)  | 191,794   | 127,948             | 180,819                  | 118,814            | 10,975                   | 9,134              | (NA)   | (D)   |     |
| 33571 --     |   |   |   |                     |                          |                    |                          |                    |  |   |     |
| 33521 --     | Made in aluminum rolling mills (SIC 3352).....                              | (NA)  | 81,114  | 56,929              | 75,218                   | 51,424             | 5,896                    | 5,505              | (NA)   | (D)   |     |
| 33571 --     | Made in nonferrous wire drawing (SIC 3357) and other industries.....        | (NA)  | 110,680   | 71,019              | 105,601                  | 67,390             | 5,079                    | 3,629              | (NA)   | -   |     |
| 33521 11     | Bare wire, conductor.....   | (NA)  | 19,456  | 11,597              | 15,095                   | 8,126              | 4,361                    | 3,471              | (NA)   | -   |     |
| 33571 11     |   | Made in aluminum rolling mills...                         | (NA)  | 6,239               | 4,228                    | 15,095             | 8,126                    | 4,361              | 3,471  | (NA)  | -   |
| 33571 11     |   | Made in nonferrous wire drawing and other industries..... | (NA)  | 13,217              | 7,369                    |                    |                          |                    |  | (NA)  | -   |
| 33521 51     | Bare wire, other than conductor....   | (NA)  | 23,238  | 23,756              | 19,441                   | 19,787             | 3,795                    | 3,969              | (NA)   | (D)   |     |
| 33571 51     |   | Made in aluminum rolling mills...                         | (NA)  | 17,683              | 18,111                   | 19,441             | 19,787                   | 3,795              | 3,969  | (NA)  | (D) |
| 33571 51     |   | Made in nonferrous wire drawing and other industries..... | (NA)  | 5,555               | 5,645                    |                    |                          |                    |  | (NA)  | -   |
| 33521 62     | Aluminum cable-steel reinforced (ACSR).....                                 | (NA)  | <sup>5</sup> 130,351  | 81,254              | 146,282                  | 90,901             | 2,818                    | 1,694              | (NA)   | -   |     |
| 33571 61     |   |   | (NA)  | <sup>5</sup> 18,749 |                          |                    |                          |                    | 11,341   | (NA)  | -   |
| 33521 69     |   | Other aluminum cable, bare.....                           | (NA)  |                     |                          |                    |                          |                    |  |   |     |

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code    | Product   | Receipts <sup>1</sup><br><br>(short tons) | Total shipments including interplant transfers <sup>2</sup> |           | Commercial shipments |           | Interplant transfers |           | Produced and consumed in the same plant in the manufacture of other products<br><br>(short tons) | Shipments of products manufactured from materials owned by others<br><br>(short tons) |
|-----------------|---|---|---|-----------|----------------------|-----------|----------------------|-----------|--|---|
|                 |   |   | Quantity  | Value     | Quantity             | Value     | Quantity             | Value     |  |   |
|                 |   |   | (short tons)  | (\$1,000) | (short tons)         | (\$1,000) | (short tons)         | (\$1,000) |  |   |
| 1963--Continued |   |   |   |           |                      |           |                      |           |  |   |
| 3352- --        | ALUMINUM ROLLING AND DRAWING—<br>Continued                                      |   |   |           |                      |           |                      |           |  |   |
| 33522 --        | Aluminum plate and sheet (including foil stock).....                            | (NA)                                      | (X)   | 850,459   | (X)                  | 714,391   | (X)                  | 136,068   | (NA)   | } 23,120  |
| 33522 13        | Plate, heat-treatable.....  | (NA)                                      | 44,157  | 51,811    | } 101,669            | 104,334   | 5,485                | 6,308     | (NA)   |   |
| 33522 15        | Plate, nonheat-treatable.....   | (NA)                                      | 62,997  | 58,831    |                      |           |                      |           | (NA)   |   |
|                 | Sheet:  |   |   |           |                      |           |                      |           |  |   |
| 33522 23        | Flat, heat-treatable.....   | (NA)                                      | 82,518  | 80,092    | 79,276               | 77,751    | 3,242                | 2,341     | (NA)   |   |
| 33522 24        | Flat, nonheat-treatable.....  | (NA)                                      | } 297,082   | 230,064   | 272,021              | 210,919   | 25,061               | 19,145    | (NA)   |   |
| 33522 26        | Flat, nonheat-treatable, precoated (D)  | (D)                                       |   |           |                      |           |                      |           |  |   |
| 33522 27        | Coiled, heat-treatable.....   | (NA)                                      | 20,141  | 18,256    | 18,113               | 16,986    | 2,028                | 1,270     | (NA)   |   |
| 33522 31        | Coiled, nonheat-treatable, bare...  | (NA)                                      | 539,593   | 366,337   | } 440,209            | 302,948   | 156,296              | 107,004   | (NA)   |   |
| 33522 33        | Coiled, nonheat-treatable, pre-coated.....                                      | (NA)                                      | 56,912  | 43,615    |                      |           |                      |           | (NA)   |   |
| 33522 00        | Aluminum plate and sheet, n.s.k....   | (NA)                                      | (X)   | 1,453     | (X)                  | 1,453     | -                    | -         | (NA)   |   |
| 33523 51        | Plain aluminum foil.....  | (NA)                                      | 6103,876  | 129,381   | 60,192               | 78,415    | 43,684               | 50,966    | (NA)   |   |
| 33524 --        | Rolled aluminum rod, bar (including continuous cast) and structural shapes..... | (NA)                                      | (X)   | 145,157   | (X)                  | 61,615    | (X)                  | 83,542    | (NA)   |   |
| 33524 21        | Rod and bar, rolled.....  | (NA)                                      | } 203,637   | 139,511   | } 77,669             | 61,461    | 132,005              | 83,542    | (NA)   |   |
| 33524 25        | Rod and bar, continuous cast.....   | (NA)                                      |   |           |                      |           |                      |           |  |   |
| 33524 31        | Rolled structural shapes.....   | (NA)                                      | 6,037   | 5,492     | (NA)                 |           |                      |           |  |   |
| 33524 00        | Rolled aluminum rod, bar, and shapes, n.s.k.....                                | (NA)                                      | (X)   | 154       | (X)                  | 154       | -                    | -         | (NA)   |   |
| 33525 --        | Extruded aluminum rod, bar, and other extruded shapes, except tube.....         | (NA)                                      | (X)   | 397,295   | (X)                  | 373,884   | (X)                  | 23,411    | (NA)   |   |
|                 | Extruded rod and bar:   |   |   |           |                      |           |                      |           |  |   |
| 33525 15        | Alloys other than 2,000 and 7,000 series.....                                   | (NA)                                      | 37,090  | 32,268    | } 40,658             | 36,977    | 6,827                | 4,812     | (NA)   |   |
| 33525 18        | Alloys in 2,000 and 7,000 series..  | (NA)                                      | 10,395  | 9,521     |                      |           |                      |           | (NA)   |   |
|                 | Other extruded shapes, except tube:   |   |   |           |                      |           |                      |           |  |   |
| 33525 25        | Alloys other than 2,000 and 7,000 series.....                                   | (NA)                                      | 364,473   | 310,784   | } 365,158            | 334,831   | 22,032               | 18,599    | (NA)   |   |
| 33525 28        | Alloys in 2,000 and 7,000 series..  | (NA)                                      | 22,717  | 42,646    |                      |           |                      |           | (NA)   |   |
| 33525 00        | Extruded rod, bar, and other extruded shapes, except tube,n.s.k.                | (NA)                                      | (X)   | 2,076     | (X)                  | 2,076     | -                    | -         | (NA)   |   |
| 33526 --        | Aluminum tube.....  | (NA)                                      | (X)   | 139,172   | (X)                  | 127,535   | (X)                  | 11,637    | (NA)   |   |
|                 | Extruded.....   | (NA)                                      | 75,087  | 64,396    | } 133,437            | 126,716   | 9,843                | 11,637    | (NA)   |   |
| 33526 51        | Drawn.....  | (NA)                                      | 44,697  | 55,070    |                      |           |                      |           |  |   |
| 33526 53        | Drawn.....  | (NA)                                      | 23,496  | 18,887    |                      |           |                      |           |  |   |
| 33526 55        | Welded.....   | (NA)                                      | (X)   | 819       |                      |           |                      |           | (X)  | 819   |
| 33526 00        | Aluminum tube, n.s.k.....   | (NA)                                      |   |           |                      |           |                      |           | (NA)   |   |
| 33527 11        | Aluminum ingot <sup>7 8</sup> .....   | (NA)                                      | 86,242  | 49,024    | (D)                  | (D)       | (D)                  | (D)       | (NA)   | (D)   |
| 33528 11        | Aluminum extrusion billet <sup>7 8</sup> .....                                  | (NA)                                      | 108,965   | 48,745    | 64,219               | 26,605    | 44,746               | 22,140    | (NA)   | 16,249  |
| 33520 00        | Aluminum rolling and drawing, n.s.k...  | (NA)                                      | (X)   | 11,704    | (X)                  | 11,704    | -                    | -         | (NA)   | (X)   |
| 1958            |   |   |   |           |                      |           |                      |           |  |   |
| 3351- --        | COPPER ROLLING AND DRAWING (BRASS MILL SHAPES), TOTAL <sup>3</sup> .....        | (X)                                       | (NA)  | 1,034,397 | (X)                  | (NA)      | (X)                  | (NA)      | (X)  | (X)   |
| 33511 --        | Copper wire, bare and tinned (non-electrical).....                              | (D)                                       | 45,383  | 47,864    | 39,733               | 42,988    | 5,650                | 4,858     | (D)  | (D)   |
| 33511 11        | Unalloyed.....  | (D)                                       | 8,836   | 7,386     | 6,697                | 5,673     | 2,139                | 1,695     | (D)  | (D)   |
| 33511 31        | Alloyed.....  | (D)                                       | 36,547  | 40,478    | 33,036               | 37,315    | 3,511                | 3,163     | (D)  | (D)   |

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code    | Product   | Receipts <sup>1</sup><br>(short tons) | Total shipments including interplant transfers <sup>2</sup> |                    | Commercial shipments     |                    | Interplant transfers     |                    | Produced and consumed in the same plant in the manufacture of other products<br>(short tons) | Shipments of products manufactured from materials owned by others<br>(short tons) |
|-----------------|---|---------------------------------------|---|--------------------|--------------------------|--------------------|--------------------------|--------------------|--|---|
|                 |   |                                       | Quantity<br>(short tons)                                    | Value<br>(\$1,000) | Quantity<br>(short tons) | Value<br>(\$1,000) | Quantity<br>(short tons) | Value<br>(\$1,000) |  |   |
| 1958--Continued |   |                                       |   |                    |                          |                    |                          |                    |  |   |
| 3351- --        | COPPER ROLLING AND DRAWING (BRASS MILL SHAPES)—Continued                    |                                       |   |                    |                          |                    |                          |                    |  |   |
| 33512 --        | Copper mill shapes.....   | (NA)                                  | (NA)  | 986,551            | (NA)                     | (NA)               | (NA)                     | (NA)               | (NA)   | (NA)  |
|                 | Unalloyed:  |                                       |   |                    |                          |                    |                          |                    |  |   |
| 33512 11        | Rod, bar, and shapes.....   | 498,313                               | 272,562   | 170,294            | 164,498                  | 109,625            | 108,064                  | 60,669             | } 3,131  | } 262,420   |
| 33512 13        | Flat products (sheet, strip, plate, etc.).....                              | (D)                                   | 64,911  | 64,421             | 60,783                   | 62,106             | 4,128                    | 2,315              |  |   |
| 33512 16        | Pipe and tube, plumbing.....  | } 19,507                              | } 221,503   | } 260,807          | } 210,694                | } 251,952          | } 10,809                 | } 8,855            |  |   |
| 33512 18        | Other pipe and tube.....  |                                       |   |                    |                          |                    |                          |                    |  |   |
|                 | Alloyed:  |                                       |   |                    |                          |                    |                          |                    |  |   |
| 33512 32        | Rod, bar, and shapes.....   | (NA)                                  | 249,036   | 169,706            | 204,225                  | 141,677            | 44,811                   | 28,029             | } 3,131  | } (NA)  |
| 33512 35        | Flat products (sheet, strip, plate), including military cups and disks..... | (D)                                   | 223,408   | 213,310            | 194,788                  | 189,730            | 28,620                   | 23,580             |  |   |
| 33512 36        | Pipe and tube, plumbing.....  | } 11,697                              | } 82,599  | } 104,979          | } 79,908                 | } 102,378          | } 2,691                  | } 2,601            |  |   |
| 33512 38        | Other pipe and tube.....  |                                       |   |                    |                          |                    |                          |                    |  |   |
| 33512 00        | Copper mill shapes, n.s.k.....  | (NA)                                  | (NA)  | 3,034              | (NA)                     | (NA)               | (NA)                     | (NA)               | (NA)   | (NA)  |
| 3352- --        | ALUMINUM ROLLING AND DRAWING, TOTAL <sup>4</sup> .....                      | (X)                                   | (X)   | 1,472,252          | (X)                      | (NA)               | (X)                      | (NA)               | (X)  | (X)   |
| 33521 --        | } Aluminum and aluminum-base alloy wire and cable (including ACSR).....     | (NA)                                  | 131,130   | 100,921            | (NA)                     | (NA)               | (NA)                     | (NA)               | (NA)   | (D)   |
| 33571 --        |   |                                       |   |                    |                          |                    |                          |                    |  |   |
| 33521 --        | Made in aluminum rolling mills (industry 3352).....                         | (NA)                                  | 55,440  | 46,896             | 53,460                   | 44,625             | 1,980                    | 2,271              | (NA)   | (D)   |
| 33571 --        | Made in nonferrous wire drawing (industry 3357) and other industries.....   | (NA)                                  | 75,690  | 54,025             | 67,266                   | 46,826             | 8,424                    | 7,199              | (NA)   | (D)   |
| 33521 11        | } Bare wire conductor.....  | (NA)                                  | 17,776  | 13,395             | 9,479                    | 6,346              | 8,297                    | 7,049              | (NA)   | (D)   |
| 33571 11        |   |                                       |   |                    |                          |                    |                          |                    |  |   |
| 33521 51        | } Bare wire, other than conductor...  | (NA)                                  | 20,746  | 25,134             | 18,639                   | 22,713             | 2,107                    | 2,421              | (NA)   | -   |
| 33571 51        |   |                                       |   |                    |                          |                    |                          |                    |  |   |
|                 | Made in aluminum rolling mills:   |                                       |   |                    |                          |                    |                          |                    |  |   |
| 33521 11        | Bare wire conductor.....  | } (NA)                                | } 14,087  | } 17,372           | } 12,107                 | } 15,101           | } 1,980                  | } 2,271            | (NA)   | (D)   |
| 33521 51        | Bare wire, other than conductor.  |                                       |   |                    |                          |                    |                          |                    |  |   |
|                 | Made in nonferrous wire drawing and other industries:                       |                                       |   |                    |                          |                    |                          |                    |  |   |
| 33571 11        | Bare wire conductor.....  | } (NA)                                | } 24,435  | } 21,157           | } 16,011                 | } 13,958           | } 8,424                  | } 7,199            | (NA)   | (D)   |
| 33571 51        | Bare wire, other than conductor.  |                                       |   |                    |                          |                    |                          |                    |  |   |
| 33521 61        | } Aluminum cable-steel reinforced (ACSR) and other bare aluminum cable..... | (NA)                                  | 5 92,608  | 62,392             | (NA)                     | (NA)               | (NA)                     | (NA)               | (NA)   | (D)   |
| 33571 81        |   |                                       |   |                    |                          |                    |                          |                    |  |   |
| 33521 61        | Made in aluminum rolling mills..  | (NA)                                  | 41,353  | 29,524             | (NA)                     | (NA)               | (NA)                     | (NA)               | (NA)   | (D)   |
| 33571 81        | Made in nonferrous wire drawing and other industries.....                   | (NA)                                  | 51,255  | 32,868             | (NA)                     | (NA)               | (NA)                     | (NA)               | (NA)   | (D)   |

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code    | Product  | Receipts <sup>1</sup><br><br>(short tons) | Total shipments including interplant transfers <sup>2</sup> |           | Commercial shipments |           | Interplant transfers |           | Produced and consumed in the same plant in the manufacture of other products<br><br>(short tons) | Shipments of products manufactured from materials owned by others<br><br>(short tons) |
|-----------------|--|---|---|-----------|----------------------|-----------|----------------------|-----------|--|---|
|                 |  |   | Quantity  | Value     | Quantity             | Value     | Quantity             | Value     |  |   |
|                 |  |   | (short tons)  | (\$1,000) | (short tons)         | (\$1,000) | (short tons)         | (\$1,000) |  |   |
| 1958--Continued |  |   |   |           |                      |           |                      |           |  |   |
| 3352- --        | ALUMINUM ROLLING AND DRAWING—Continued   |   |   |           |                      |           |                      |           |  |   |
| 33522 --        | Aluminum plate and sheet (including foil stock).....   | (NA)                                      | (NA)  | 646,064   | (NA)                 | (NA)      | (NA)                 | (NA)      | (NA)   | } 31,747  |
|                 | Plate (.250" and over):  |   |   |           |                      |           |                      |           |  |   |
| 33522 13        | Heat-treatable.....  | (NA)                                      | 32,641  | 36,227    | 27,513               | 31,604    | 5,128                | 4,623     | (NA)   |   |
| 33522 15        | Nonheat-treatable.....   | (NA)                                      | 20,378  | 19,353    | 15,747               | 15,687    | 4,631                | 3,666     | (NA)   |   |
|                 | Sheet:   |   |   |           |                      |           |                      |           |  |   |
| 33522 23        | Flat, heat-treatable.....  | (NA)                                      | 59,217  | 67,004    | (D)                  | (D)       | (D)                  | (D)       | (NA)   |   |
| 33522 25        | Flat, nonheat-treatable.....   | (NA)                                      | 179,290   | 163,938   | 160,290              | 147,792   | 19,000               | 16,146    | (NA)   |   |
| 33522 27        | Coiled, heat-treatable.....  | (NA)                                      | 5,917   | 5,893     | 5,917                | 5,893     | -                    | -         | (NA)   |   |
| 33522 28        | Coiled, nonheat-treatable.....   | (NA)                                      | 335,017   | 276,002   | 286,766              | 238,232   | 48,251               | 37,770    | (NA)   |   |
| 33522 51        | Foil stock.....  | (NA)                                      | 105,696   | 74,545    | 22,404               | 16,177    | 83,292               | 58,368    | (NA)   |   |
| 33522 00        | Aluminum plate and sheet, n.s.k.....   | (NA)                                      | (NA)  | 3,102     | (NA)                 | (NA)      | (NA)                 | (NA)      | (NA)   |   |
| 33523 --        | Plain aluminum foil <sup>10</sup> .....  | (NA)                                      | 692,756   | 140,472   | (X)                  | (X)       | (X)                  | (X)       | (X)  |   |
| 33523 11        | Condenser foil.....  | (NA)                                      | 3,457   | 7,104     | (X)                  | (X)       | (X)                  | (X)       | (X)  |   |
| 33523 15        | All other plain foil.....  | (NA)                                      | 68,998  | 96,581    | (X)                  | (X)       | (X)                  | (X)       | (X)  |   |
| 33523 21        | Foil in lamination.....  | (NA)                                      | 1120,301  | 1136,787  | (X)                  | (X)       | (X)                  | (X)       | (X)  |   |
| 33524 --        | Rolled aluminum rod, bar (includes continuous cast) and structural shapes...                                   | (NA)                                      | 135,610   | 110,523   | (D)                  | (D)       | (D)                  | (D)       | (NA)   |   |
| 33524 11        | Aluminum rod and bar, rolled and continuous cast.....  | (NA)                                      | 130,210   | 104,286   | 72,377               | 63,521    | 57,833               | 40,765    | (NA)   |   |
| 33524 31        | Aluminum rolled structural shapes...   | (NA)                                      | 5,400   | 6,237     | (D)                  | (D)       | (D)                  | (D)       | (NA)   |   |
| 33525 11        | Extruded aluminum rod and bar and other extruded aluminum shapes (except tube)                                 | (NA)                                      | 268,954   | 272,107   | 245,086              | 251,180   | 23,868               | 20,927    | (NA)   |   |
| 33526 --        | Aluminum tube and other rolled, drawn, or extruded mill products.....  | (NA)                                      | 72,115  | 89,555    | (D)                  | (D)       | (D)                  | (D)       | (NA)   |   |
| 33526 51        | Extruded.....  | (NA)                                      | 33,185  | 38,869    | (D)                  | (D)       | (D)                  | (D)       | (NA)   |   |
| 33526 53        | Drawn.....   | (NA)                                      | 31,832  | 44,240    | (D)                  | (D)       | (D)                  | (D)       | (NA)   |   |
| 33526 55        | Welded.....  | (NA)                                      | 7,098   | 6,446     | (D)                  | (D)       | (D)                  | (D)       | (NA)   |   |
| 33520 --        | Aluminum-base alloys and aluminum and aluminum-base alloy mill products (rolled, drawn, and extruded), n.s.k.. | (NA)                                      | (X)   | 112,610   | (X)                  | (NA)      | (X)                  | (NA)      | (X)  | (NA)  |
| 33520 11        | Aluminum-base alloys <sup>8 12</sup> .....   | (NA)                                      | 186,791   | 101,739   | 101,615              | 54,343    | 85,176               | 47,396    | (X)  | (NA)  |
| 33520 00        | Aluminum and aluminum-base alloy mill products, n.s.k.....   | (X)                                       | (X)   | 10,871    | (X)                  | (NA)      | (X)                  | (NA)      | (X)  | (X)   |
|                 |  |   | Total shipments including interplant transfers <sup>2</sup> |           | Commercial shipments |           | Interplant transfers |           |  |   |
|                 |  |   | Quantity  | Value     | Quantity             | Value     | Quantity             | Value     |  |   |
|                 |  |   | (short tons)  | (\$1,000) | (short tons)         | (\$1,000) | (short tons)         | (\$1,000) |  |   |
| 1963            |  |   |   |           |                      |           |                      |           |  |   |
| 3356- --        | ROLLING, DRAWING, AND EXTRUDING OF NONFERROUS METALS, EXCEPT COPPER AND ALUMINUM, TOTAL.....                   |   | (X)   | 630,536   | (X)                  | (NA)      | (X)                  | (NA)      | (X)  | (NA)  |
| 33560 43        | Magnesium and magnesium-base alloy mill shapes: <sup>13</sup><br>Extruded shapes, including rod and bar.....   | }   | 12,775  | 20,719    | (D)                  | (D)       | (D)                  | (D)       | (D)  | (D)   |
| 33560 44        | Other (sheet, plate, etc.), excluding powder.....  |   |   |           |                      |           |                      |           |  |   |

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code    | Product  | Total shipments including interplant transfers <sup>2</sup> |                      | Commercial shipments     |                    | Interplant transfers     |                    |
|-----------------|--|---|----------------------|--------------------------|--------------------|--------------------------|--------------------|
|                 |  | Quantity<br>(short tons)                                    | Value<br>(\$1,000)   | Quantity<br>(short tons) | Value<br>(\$1,000) | Quantity<br>(short tons) | Value<br>(\$1,000) |
| 1963--Continued |  |   |                      |                          |                    |                          |                    |
| 3356- --        | ROLLING, DRAWING, AND EXTRUDING OF NONFERROUS METALS, EXCEPT COPPER AND ALUMINUM—Continued             |   |                      |                          |                    |                          |                    |
|                 | Lead and lead-base alloy mill shapes:  |   |                      |                          |                    |                          |                    |
| 33560 51        | Plate, sheet, and strip.....   | 24,295  | 7,643                | (D)                      | (D)                | (D)                      | (D)                |
| 33560 55        | Pipe and tubing, traps and bends....   | 17,493  | 6,955                | (D)                      | (D)                | (D)                      | (D)                |
| 33560 59        | Other rolled, drawn, or extruded lead products.....  | 22,287  | 12,810               | (D)                      | (D)                | (D)                      | (D)                |
|                 | Nickel and nickel-base alloy mill shapes including monel:  |   |                      |                          |                    |                          |                    |
| 33560 61        | Plate, sheet, and strip, excluding monel.....  | 10,669  | 35,574               | (D)                      | (D)                | (D)                      | (D)                |
| 33560 63        | Pipe and tubing, excluding monel....   | 5,334   | 23,570               | (D)                      | (D)                | (D)                      | (D)                |
| 33560 65        | Monel, all shapes and forms.....   | 37,090  | 103,416              | (D)                      | (D)                | (D)                      | (D)                |
| 33560 69        | Rod, bar, and other, excluding monel. }  |   |                      |                          |                    |                          |                    |
| 33560 71        | Zinc and zinc-base alloy mill shapes, including plate, sheet, strip, rods, bars, pipe, and tubing..... | 34,945  | 16,042               | (D)                      | (D)                | (D)                      | (D)                |
|                 | Titanium: <sup>14</sup>  |   |                      |                          |                    |                          |                    |
| 33560 74        | Forging and extrusion billet.....  | 2,348   | 14,496               | (D)                      | (D)                | (D)                      | (D)                |
| 33560 72        | Ingot.....   | (NA)  | 66,888               | (D)                      | (D)                | (D)                      | (D)                |
| 33560 79        | Other titanium mill products (sheet, plate, tubing, bar, etc.)..... }                                  |   |                      |                          |                    |                          |                    |
| 33560 83        | Precious metal mill shapes, including gold, silver, and platinum.....                                  | (NA)  | 193,439              | (D)                      | (D)                | (D)                      | (D)                |
| 33560 92        | } Other nonferrous metal wire, total.....  | (NA)  | 45,600               | (D)                      | (D)                | (D)                      | (D)                |
| 33573 11        |  |   |                      |                          |                    |                          |                    |
| 33560 92        | Made in rolling and drawing, n.e.c. (industry 3356).....   | (NA)  | 12,415               | (D)                      | (D)                | (D)                      | (D)                |
| 33573 11        | Made in nonferrous wire drawing (industry 3357) and other industries                                   | (NA)  | <sup>15</sup> 33,185 | (D)                      | (D)                | (D)                      | (D)                |
| 33560 98        | Other nonferrous metals.....   | (NA)  | 67,193               | (D)                      | (D)                | (D)                      | (D)                |
| 33560 00        | Rolling and drawing, n.e.c., n.s.k.....  | (X)   | 16,191               | (X)                      | (NA)               | (X)                      | (NA)               |
| 1958            |  |   |                      |                          |                    |                          |                    |
| 3356- --        | ROLLING, DRAWING, AND EXTRUDING OF NONFERROUS METALS, EXCEPT COPPER AND ALUMINUM, TOTAL.....           | (NA)  | 428,210              | (NA)                     | (NA)               | (NA)                     | (NA)               |
|                 | Magnesium and magnesium-base alloys: <sup>13</sup>   |   |                      |                          |                    |                          |                    |
| 33560 41        | Plate, sheet, and strip.....   | 9,564   | 19,879               | 5,336                    | 10,465             | 4,228                    | 9,414              |
| 33560 45        | Extruded shapes (including forging stock)..... }   |   |                      |                          |                    |                          |                    |
|                 | Lead and lead-base alloys:   |   |                      |                          |                    |                          |                    |
| 33560 51        | Plate, sheet, and strip.....   | 19,005  | 6,432                | (D)                      | (D)                | (D)                      | (D)                |
| 33560 55        | Pipe and tubing, traps, and bends....  | 21,580  | 7,992                | (D)                      | (D)                | (D)                      | (D)                |
| 33560 59        | Other rolled, drawn, or extruded lead products.....  | 8,067   | 5,491                | (D)                      | (D)                | (D)                      | (D)                |
|                 | Nickel and nickel-base alloys (including monel):   |   |                      |                          |                    |                          |                    |
| 33560 61        | Plate, sheet, and strip (excluding monel).....   | 8,124   | 29,086               | (D)                      | (D)                | (D)                      | (D)                |
| 33560 63        | Pipe and tubing (excluding monel)....  | 3,543   | 12,386               | (D)                      | (D)                | (D)                      | (D)                |
| 33560 65        | Monel, all shapes and forms.....   | 28,183  | 69,987               | (D)                      | (D)                | (D)                      | (D)                |
| 33560 69        | Other, excluding monel (including rods and bars)..... }  |   |                      |                          |                    |                          |                    |
| 33560 71        | Zinc and zinc-base alloys (including plate, sheet, strip, rods, bars, pipe, and tubing).....           | 36,536  | 15,614               | 34,973                   | 15,137             | 1,563                    | 477                |
|                 | Titanium: <sup>14</sup>  |   |                      |                          |                    |                          |                    |
| 33560 72        | Ingot.....   | (NA)  | 14,765               | (D)                      | (D)                | (D)                      | (D)                |
| 33560 75        | Mill products (sheet, plate, tubing, bar, etc.).....   | (NA)  | 55,916               | (D)                      | (D)                | (D)                      | (D)                |

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code                                 | Product  | Total shipments including interplant transfers <sup>2</sup> |   | Commercial shipments            |                                 | Interplant transfers           |                                | Produced and consumed in the same plant in the manufacture of other products | Shipments of products manufactured from materials owned by others |      |                 |      |      |      |      |      |      |
|--|--|---|---|---------------------------------|---------------------------------|--------------------------------|--------------------------------|--|---|------|-----------------|------|------|------|------|------|------|
|  |  | Quantity<br>(short tons)                                    | Value<br>(\$1,000)  | Quantity<br>(short tons)        | Value<br>(\$1,000)              | Quantity<br>(short tons)       | Value<br>(\$1,000)             |  |   |      |                 |      |      |      |      |      |      |
| 1958--Continued                              |  |   |   |                                 |                                 |                                |                                |  |   |      |                 |      |      |      |      |      |      |
| 3356- --                                     | ROLLING, DRAWING, AND EXTRUDING OF NONFERROUS METALS, EXCEPT COPPER AND ALUMINUM—Continued   |   |   |                                 |                                 |                                |                                |  |   |      |                 |      |      |      |      |      |      |
| 33560 81<br>33573 11                         | Other nonferrous metal wire.....   | (NA)  | 33,177  | (NA)                            | (D)                             | (NA)                           | (D)                            |  |   |      |                 |      |      |      |      |      |      |
| 33560 81<br>33573 11                         | Made in rolling and drawing, n.e.c., (industry 3356).....<br>Made in nonferrous wire drawing (industry 3357) and other industries  | (NA)  | 7,850   | (D)                             | (D)                             | (D)                            | (D)                            |  |   |      |                 |      |      |      |      |      |      |
| 33560 91<br>33560 00                         | Other nonferrous metals.....<br>Other nonferrous metals, n.s.k.....  | (NA)  | 1625,327  | (NA)                            | (D)                             | (NA)                           | (D)                            |  |   |      |                 |      |      |      |      |      |      |
|  |  | (NA)  | 143,205   | (NA)                            | (NA)                            | (NA)                           | (D)                            |  |   |      |                 |      |      |      |      |      |      |
|  |  | (NA)  | 14,280  | (NA)                            | (NA)                            | (NA)                           | (NA)                           |  | (NA)  |      |                 |      |      |      |      |      |      |
|  |  | Total shipments including interplant transfers <sup>2</sup> |   | Commercial shipments            |                                 | Interplant transfers           |                                |  |   |      |                 |      |      |      |      |      |      |
|  | Receipts <sup>1</sup>  | Quantity  | Value   | Quantity                        | Value                           | Quantity                       | Value                          |  |   |      |                 |      |      |      |      |      |      |
|  |  | (short tons)  | (short tons) (\$1,000)  | (short tons)                    | (short tons) (\$1,000)          | (short tons)                   | (short tons) (\$1,000)         | (short tons)   | (short tons)  |      |                 |      |      |      |      |      |      |
| 1963   |  |   |   |                                 |                                 |                                |                                |  |   |      |                 |      |      |      |      |      |      |
| 3357- --                                     | NONFERROUS WIRE DRAWING, ETC., TOTAL.....  | (NA)  | (NA) 2,185,011  | (NA)                            | (NA)                            | (NA)                           | (NA)                           | (NA)   | (NA)  |      |                 |      |      |      |      |      |      |
| 33571 --<br>33521 --                         | Aluminum and aluminum-base alloy wire and cable (including ACSR) <sup>17</sup> .....   | (NA)  | 191,794 127,948   | 180,819                         | 118,814                         | 10,975                         | 9,134                          | (D)  | (D)   |      |                 |      |      |      |      |      |      |
| 33572 --                                     | Copper and copper-base alloy wire (including strand and cable) bare, and tinned for electrical transmission....  | (X)   | (X) 244,979   | (X)                             | (X)                             | (X)                            | (X)                            | (X)  | (X)   |      |                 |      |      |      |      |      |      |
| 33572 11<br>33572 51<br>33572 71<br>33572 00 | Wire, unalloyed for electrical transmission <sup>18</sup> .....<br>Wire, alloyed for electrical transmission <sup>18</sup> .....<br>Strand and cable.....<br>Copper and copper-base alloy wire, n.s.k..... | 23,302  | { 230,082 181,298<br>(NA) 7,221<br>62,135 55,926<br>(X) (X) 534 | 145,845<br>(D)<br>45,036<br>(X) | 114,900<br>(D)<br>41,637<br>(X) | 84,237<br>(D)<br>17,099<br>(X) | 66,398<br>(D)<br>14,289<br>(X) | 365,474  | 7,496   |      |                 |      |      |      |      |      |      |
| 1958   |  |   |   |                                 |                                 |                                |                                |  |   |      |                 |      |      |      |      |      |      |
| 3357- --                                     | NONFERROUS WIRE DRAWING, ETC., TOTAL.....  |   |   |                                 |                                 |                                |                                |  |   | (NA) | (NA) 1,634,961  | (NA) | (NA) | (NA) | (NA) | (NA) | (NA) |
| 33571 --<br>33521 --                         | Aluminum and aluminum-base alloy wire and cable (including ACSR) <sup>17</sup> .....   |   |   |                                 |                                 |                                |                                |  |   | (NA) | 131,130 100,921 | (NA) | (NA) | (NA) | (NA) | (NA) | (D)  |
| 33572 --                                     | Copper and copper-base alloy wire (including strand and cable), bare, and tinned, for electrical transmission  | (NA)  | (NA) 156,493  | (D)                             | (D)                             | (D)                            | (D)                            | (D)  | (D)   |      |                 |      |      |      |      |      |      |
| 33572 11<br>33572 51<br>33572 71<br>33572 00 | Wire, unalloyed for electrical transmission.....<br>Wire, alloyed, for electrical transmission.....<br>Strand and cable.....<br>Other copper and copper-base alloy wire, n.s.k.....                        | 3,887   | 172,920 131,117   | 89,477                          | 74,243                          | 83,443                         | 56,874                         | 438,061  | 4,355   |      |                 |      |      |      |      |      |      |
|  |  | (NA)  | 5,185 4,575   | 4,376                           | 3,818                           | 809                            | 757                            | 28,350   | -   |      |                 |      |      |      |      |      |      |
|  |  | (NA)  | 23,874 20,375   | 9,664                           | 9,665                           | 14,210                         | 10,710                         | (D)  | (D)   |      |                 |      |      |      |      |      |      |
|  |  | (X)   | (X) 426   | (X)                             | (NA)                            | (X)                            | (NA)                           | (X)  | (X)   |      |                 |      |      |      |      |      |      |

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code           | Product  | Unit of measure | Total shipments including interplant transfers |                       |                     |                 |                      |
|------------------------|--|-----------------|--|-----------------------|---------------------|-----------------|----------------------|
|                        |  |                 | 1963   |                       | 1958                |                 |                      |
|                        |  |                 | Quantity                                       | Value (\$1,000)       | Quantity            | Value (\$1,000) |                      |
| 3357- --               | NONFERROUS WIRE DRAWING, ETC.—Continued  |                 |  |                       |                     |                 |                      |
| 33573 pt.<br>33560 pt. | Other bare nonferrous metal wire, except insulated <sup>19</sup> .....                         |                 | (NA)   | 45,600                | (X)                 |                 | 33,177               |
| 33575 --<br>34815 --   | Nonferrous wire cloth and other woven nonferrous wire products....                             |                 | (X)  | 70,487                | (X)                 |                 | <sup>20</sup> 59,096 |
| 33575 --               | Made in industry 3357 (nonferrous wire drawing, etc.).....                                     |                 | (X)  | 21,231                | (X)                 |                 | 9,983                |
| 34815 --               | Made in fabricated wire products, n.e.c., (industry 3481) and other industries.....            |                 | (X)  | 49,256                | (X)                 |                 | 49,113               |
|                        | Insect wire screening:   |                 |  |                       |                     |                 |                      |
| 33575 25<br>34815 15   | Aluminum.....  | 1,000 sq. ft..  | 459,123  | 21,216                | 305,356             |                 | 18,239               |
| 33575 25               | Made in industry 3357.....   | ..do.....       | 188,096  | 7,256                 | 107,875             |                 | 6,478                |
| 34815 15               | Made in industry 3481 and other industries.....  | ..do.....       | 271,027  | 13,960                | 197,481             |                 | 11,761               |
| 33575 23<br>34815 13   | Copper and copper-base alloy.....  | ..do.....       |  | 804                   | (NA)                |                 | 2,921                |
| 33575 29<br>34815 19   | All other nonferrous metal.....  | ..do.....       | (NA)   |                       | ( <sup>20</sup> )   |                 | ( <sup>20</sup> )    |
| 33575 51<br>34815 51   | Paper machine wire cloth (fourdrinier and cylinder).....                                       | ..do.....       | 24,600   | 36,586                | 22,976              |                 | 30,902               |
| 33575 65<br>34816 65   | Industrial wire cloth, nonferrous.....   | ..do.....       | 12,484   | 8,836                 | <sup>21</sup> 8,496 |                 | 7,034                |
| 33575 00<br>34815 00   | Nonferrous wire cloth and other woven nonferrous wire products, n.s.k.....                     |                 | (X)  | 3,045                 | (X)                 |                 | ( <sup>22</sup> )    |
| 33574 --               | Communication wire and cable.....  |                 | (X)  | <sup>23</sup> 581,781 | (X)                 |                 | 365,373              |
|                        | Metal content of the conductors in communication wire and cable reported by detail type below: |                 |  |                       |                     |                 |                      |
| 33574 01               | Copper.....  | 1,000 lbs.....  | 376,653  | (X)                   | (NA)                |                 | (X)                  |
| 33574 05               | Aluminum.....  | ..do.....       | 14,176   | (X)                   | (NA)                |                 | (X)                  |
|                        | Coaxial cable (armored and nonarmored):  |                 |  |                       |                     |                 |                      |
| 33574 11               | Rigid plus semiflexible.....   |                 | (X)  | 32,086                |                     |                 |                      |
| 33574 12               | Flexible.....  |                 | (X)  | 46,791                | (X)                 |                 | 15,133               |
| 33574 22               | Lead-in wire.....  |                 | (X)  | 9,310                 |                     |                 |                      |
|                        | Hook-up wire (single and multiconductor):  |                 |  |                       |                     |                 |                      |
| 33574 24               | 200°C and over temperature rating.....   |                 | (X)  | 24,353                |                     |                 |                      |
| 33574 26               | Under 200°C temperature rating.....  |                 | (X)  | 15,187                |                     |                 |                      |
| 33574 41               | Jumper and distributing frame wire, including bank, handformed, pushback.....                  |                 | (X)  | 5,874                 | (X)                 |                 | 12,186               |
| 33574 52               | Inside wiring cable.....   |                 | (X)  | 14,778                | (X)                 |                 | 25,138               |
| 33574 55               | Drop and bridle and duct wire and cable.....   |                 | (X)  | 12,605                | (X)                 |                 | 22,629               |
| 33574 71               | Switchboard wire and cable.....  |                 | (X)  | 42,831                | (X)                 |                 |                      |
|                        | Lead-covered telephone cable, except coaxial:  |                 |  |                       |                     |                 |                      |
| 33574 73               | Paper and pulp insulated.....  |                 | (X)  | 11,035                | (X)                 |                 | 52,438               |
| 33575 75               | Polyethylene insulated.....  |                 |  |                       |                     |                 |                      |
|                        | Polyethylene covered telephone cable and telegraph cable, excluding coaxial:                   |                 |  |                       |                     |                 |                      |
| 33574 81               | Paper and pulp insulated.....  |                 | (X)  | 244,576               | (X)                 |                 | 60,890               |
| 33574 85               | Polyethylene insulated.....  |                 |  |                       | (X)                 |                 | 92,945               |
| 33574 27               | Instrumentation wire and cable.....  |                 | (X)  | 18,295                |                     |                 |                      |
| 33574 68               | Rural and urban distribution wire and cable.....   |                 | (X)  | 19,841                |                     |                 |                      |
| 33574 43               | Station wire and cable.....  |                 | (X)  | 81,529                |                     |                 |                      |
| 33574 98               | Other communication wire and cable.....  |                 |  |                       |                     |                 |                      |
| 33574 00               | Communication wire and cable, n.s.k.....   |                 | (X)  | 2,670                 | (X)                 |                 | 2,486                |
| 33577 --               | Magnet wire.....   |                 | (X)  | <sup>23</sup> 258,308 | (X)                 |                 | 183,382              |
|                        | Metal content of magnet wire reported by detail type below:                                    |                 |  |                       |                     |                 |                      |
| 33577 01               | Copper.....  | 1,000 lbs.....  | 372,847  | (X)                   | (NA)                |                 | (X)                  |
| 33577 05               | Aluminum.....  | ..do.....       | (D)  | (X)                   | (NA)                |                 | (X)                  |

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure           | Total shipments including interplant transfers |                 |          |                 |  |
|--------------|---|---------------------------|--|-----------------|----------|-----------------|--|
|              |   |                           | 1963   |                 | 1958     |                 |  |
|              |   |                           | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |  |
| 3357- --     | NONFERROUS WIRE DRAWING, ETC.—Continued   |                           |  |                 |          |                 |  |
| 33577 --     | Magnet wire--continued  |                           |  |                 |          |                 |  |
| 33577 11     | Round enameled, under 180°C.....  | 1,000 lbs. gross weight.. | 113,743  | 67,642          |          |                 |  |
| 33577 13     | Round enameled, 180°C and over, including aromatic polyimide but excluding fluorocarbon and ceramic.....    | ..do.....                 | 20,295   | 12,730          |          |                 |  |
| 33577 15     | Round textile covered-bare and enameled, including synthetic.....   | ..do.....                 | 8,186  | 7,739           |          |                 |  |
| 33577 17     | Round asbestos or glass insulated-bare and enameled, including synthetic.....                               | ..do.....                 | 2,119  | 2,508           |          |                 |  |
| 33577 18     | Round class A 105C (vinyl acetal, vinyl acetal with nylon and acrylic).....                                 | ..do.....                 | 98,241   | 58,187          |          |                 |  |
| 33577 31     | Round classes B and F, 130-155C (polyester, epoxy, and acrylic).....  | ..do.....                 | 42,125   | 24,499          | (X)      | 179,354         |  |
| 33577 33     | Round solderable class A 105C (nylon polyurethane and cellulose acetate).....                               | ..do.....                 | 51,526   | 34,320          |          |                 |  |
| 33577 35     | Round self-bonding class A 105C (vinyl acetal plus a bonding thermoplastic).....                            | ..do.....                 | 12,234   | 8,761           |          |                 |  |
| 33577 37     | Rectangular and square film coated with or without covering.....  | ..do.....                 | 34,732   | 18,641          |          |                 |  |
| 33577 38     | Rectangular and square paper and/or cotton, no film.....  | ..do.....                 | 17,812   | 8,868           |          |                 |  |
| 33577 41     | Rectangular and square glass, dacron glass, or asbestos, no film.....                                       | ..do.....                 | 10,040   | 6,570           |          |                 |  |
| 33577 43     | Ceramic and fluorocarbon magnet wire.....   | ..do.....                 | 44   | 488             |          |                 |  |
| 33577 98     | Other magnet wire.....  | ..do.....                 | (X)  | 7,355           | (X)      | 4,028           |  |
| 33577 00     | Magnet wire, n.s.k.....   | ..do.....                 | (X)  | 7,355           | (X)      | 4,028           |  |
| 33578 --     | Power wire and cable.....   |                           | (X)  | 23218,810       | (X)      | 194,761         |  |
|              | Metal content of power wire and cable reported by detailed type below:                                      |                           |  |                 |          |                 |  |
| 33578 01     | Copper.....   | 1,000 lbs.....            | 179,452  | (X)             | (NA)     | (X)             |  |
| 33578 05     | Aluminum.....   | ..do.....                 | (D)  | (D)             | (NA)     | (X)             |  |
|              | Under 601 volts:  |                           |  |                 |          |                 |  |
| 33578 11     | Portable power cable.....   | ..do.....                 | (X)  | 28,417          | (X)      | 19,705          |  |
| 33578 13     | Varnished cloth insulated, including glass.....   | ..do.....                 | (X)  | 2,169           | (X)      | 3,280           |  |
| 33578 15     | Thermoplastic.....  | ..do.....                 | (X)  | 18,123          | (X)      | 11,202          |  |
| 33578 17     | Rubber.....   | ..do.....                 | (X)  | 46,558          | (X)      | 55,808          |  |
| 33578 18     | Asbestos and asbestos-varnished cloth.....  | ..do.....                 | (X)  | 7,643           | (X)      | 5,737           |  |
| 33578 14     | Thermosetting insulated.....  | ..do.....                 | (X)  | 10,591          | (X)      | 1,740           |  |
| 33578 19     | Other, including machine tool wire.....   | ..do.....                 | (X)  | 5,668           | (X)      | 1,740           |  |
|              | 601 volts and higher:   |                           |  |                 |          |                 |  |
| 33578 31     | Portable power cable.....   | ..do.....                 | (X)  | 5,958           | (X)      | 5,751           |  |
| 33578 33     | Varnished cloth insulated, including glass.....   | ..do.....                 | (X)  | 3,120           | (X)      | 6,581           |  |
| 33578 35     | Paper insulated.....  | ..do.....                 | (X)  | 48,621          | (X)      | 39,146          |  |
| 33578 37     | Rubber.....   | ..do.....                 | (X)  | 22,357          | (X)      | 37,903          |  |
| 33578 38     | Thermoplastic.....  | ..do.....                 | (X)  | 9,129           | (X)      | 5,359           |  |
| 33578 36     | Thermosetting insulated.....  | ..do.....                 | (X)  | 7,096           | (X)      | 2,549           |  |
| 33578 39     | Other power wire and cable, 601 volts and higher.....   | ..do.....                 | (X)  | 1,458           | (X)      | 2,549           |  |
| 33578 00     | Power wire and cable, n.s.k.....  | ..do.....                 | (X)  | 1,902           | (X)      | -               |  |
| 33579 --     | Other insulated wire and cable.....   |                           | (X)  | 23454,071       | (X)      | 404,512         |  |
|              | Metal content of other insulated wire and cable reported by detail type below:                              |                           |  |                 |          |                 |  |
| 33579 01     | Copper.....   | 1,000 lbs.....            | 422,280  | (X)             | (NA)     | (X)             |  |
| 33579 05     | Aluminum.....   | ..do.....                 | 56,312   | (X)             | (NA)     | (X)             |  |
| 33579 08     | Service cable, including self supports but excluding service entrance and service drop cable.....           | ..do.....                 | (X)  | 8,660           | (X)      | 28,053          |  |
| 33579 11     | Signal wire and cable.....  | ..do.....                 | (X)  | 10,290          | (X)      | 7,411           |  |
| 33579 15     | Control wire and cable.....   | ..do.....                 | (X)  | 23,476          | (X)      | 21,742          |  |
|              | Weather-proof and service drop cable:   |                           |  |                 |          |                 |  |
| 33579 31     | Braided.....  | ..do.....                 | (X)  | 9,750           | (X)      | 16,478          |  |
| 33579 37     | Polychloroprene (neoprene).....   | ..do.....                 | (X)  | 9,232           | (X)      | 11,527          |  |
| 33579 38     | Thermoplastic.....  | ..do.....                 | (X)  | 10,388          | (X)      | 9,983           |  |
| 33579 39     | Service drop.....   | ..do.....                 | (X)  | 21,269          | (X)      | 9,983           |  |
|              | Building wire and cable having underwriters' labels (except varnished cambric insulated and service cable): |                           |  |                 |          |                 |  |
| 33579 41     | Rubber insulated.....   | ..do.....                 | (X)  | 50,767          | (X)      | 56,653          |  |
| 33579 42     | Metallic armored cable.....   | ..do.....                 | (X)  | 16,468          | (X)      | 16,610          |  |
| 33579 43     | Nonmetallic sheathed cable.....   | ..do.....                 | (X)  | 81,675          | (X)      | 66,330          |  |
| 33579 46     | Service entrance cable.....   | ..do.....                 | (X)  | 19,952          | (X)      | 18,109          |  |
| 33579 48     | Thermoplastic.....  | ..do.....                 | (X)  | 97,582          | (X)      | 52,844          |  |
| 33579 49     | Other building wire and cable (except varnished cambric insulated).....                                     | ..do.....                 | (X)  | 5,209           | (X)      | 10,118          |  |

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure                                       | Total shipments including interplant transfers |                 |          |                 |  |
|--------------|--|---|--|-----------------|----------|-----------------|--|
|              |  |   | 1963   |                 | 1958     |                 |  |
|              |  |   | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |  |
| 3357- --     | NONFERROUS WIRE DRAWING, ETC.—Continued  |   |  |                 |          |                 |  |
| 33579 --     | Other insulated wire and cable--Continued  |   |  |                 |          |                 |  |
|              | Automotive, airframe, shipboard, and ground support cable, excluding coaxial cable:              |   |  |                 |          |                 |  |
| 33579 89     | Shipboard cable (Navy and Merchant Marine).....  |   | (X) 17,534                                     | }               | (X)      | 10,187          |  |
| 33579 71     | Automotive.....  |   | (X) 15,826                                     |                 |          |                 |  |
| 33579 74     | Airframe and missile.....  |   | (X) 11,195                                     |                 |          |                 |  |
| 33579 91     | Missile ground support cable.....  |   | (X) 9,567                                      |                 |          |                 |  |
| 33579 98     | Other insulated wire and cable.....  |   | (X) 26,590                                     |                 | (X)      | 77,543          |  |
| 33579 00     | Other insulated wire and cable, n.s.k.....   |   | (X) 8,641                                      |                 | (X)      | 924             |  |
| 33576 --     | Appliance wire and cord and flexible cord sets.....  |   | (X) 167,664                                    |                 | (X)      | 127,069         |  |
| 36996 --     |  |   |  |                 |          |                 |  |
| 33576 --     | Made in nonferrous wire drawing etc., (industry 3357).....                                       |   | (X) 101,667                                    |                 | (X)      | 66,199          |  |
| 36996 --     | Made in electric products, n.e.c., (industry 3699) and other industries.....                     |   | (X) 65,997                                     |                 | (X)      | 60,870          |  |
|              | Flexible cord sets (including heater cord):  |   |  |                 |          |                 |  |
| 33576 13     | Rubber insulated.....  |   | (X) 25,794                                     |                 | (X)      | 24,481,69       |  |
| 36996 13     |  |   |  |                 |          |                 |  |
| 33576 13     | Made in nonferrous wire drawing etc., (industry 3357).....                                       |   | (X) 11,221                                     |                 | (X)      | 24,20,881       |  |
| 36996 13     | Made in electric products, n.e.c., (industry 3699) and other industries.....                     |   | (X) 14,573                                     |                 | (X)      | 24,27,288       |  |
| 33576 15     | Thermoplastic insulated.....   |   | (X) 39,957                                     |                 | (X)      | (24)            |  |
| 36996 15     |  |   |  |                 |          |                 |  |
| 33576 15     | Made in nonferrous wire drawing etc., (industry 3357).....                                       |   | (X) 19,027                                     |                 | (X)      | (24)            |  |
| 36996 15     | Made in electric products, n.e.c., (industry 3699) and other industries.....                     |   | (X) 20,933                                     |                 | (X)      | (24)            |  |
|              | Appliance wire and cord:   |   |  |                 |          |                 |  |
| 33576 21     | Fixture wire (including heater resistant).....   |   | (X) 18,153                                     |                 | (X)      | 8,405           |  |
| 36996 21     |  |   |  |                 |          |                 |  |
| 33576 21     | Made in nonferrous wire drawing etc., (industry 3357).....                                       |   | (X) 15,270                                     |                 | (X)      | 6,549           |  |
| 36996 21     | Made in electric products, n.e.c., (industry 3699) and other industries.....                     |   | (X) 2,883                                      |                 | (X)      | 1,846           |  |
|              | Flexible cord (including heater cord):   |   |  |                 |          |                 |  |
| 33576 22     | Rubber insulated.....  |   | (X) 22,766                                     |                 | (X)      | 16,205          |  |
| 36996 22     |  |   |  |                 |          |                 |  |
| 33576 22     | Made in nonferrous wire drawing etc., (industry 3357).....                                       |   | (X) 20,793                                     |                 | (X)      | 14,825          |  |
| 36996 22     | Made in electric products, n.e.c., (industry 3699) and other industries.....                     |   | (X) 1,973                                      |                 | (X)      | 1,380           |  |
| 33576 25     | Thermoplastic insulated.....   |   | (X) 26,862                                     |                 | (X)      | 10,925          |  |
| 36996 25     |  |   |  |                 |          |                 |  |
| 33576 25     | Made in nonferrous wire drawing etc., (industry 3357).....                                       |   | (X) 22,187                                     |                 | (X)      | 9,829           |  |
| 36996 25     | Made in electric products, n.e.c., (industry 3699) and other industries.....                     |   | (X) 4,675                                      |                 | (X)      | 1,096           |  |
| 33576 29     | Other appliance wire and cord.....   |   | (X) 24,276                                     |                 | (X)      | 36,173          |  |
| 36996 29     |  |   |  |                 |          |                 |  |
| 33576 29     | Made in nonferrous wire drawing, etc., (industry 3357).....                                      |   | (X) 7,713                                      |                 | (X)      | 11,481          |  |
| 36996 29     | Made in electric products, n.e.c., (industry 3699) and other industries.....                     |   | (X) 16,563                                     |                 | (X)      | 24,692          |  |
| 33576 00     | Appliance wire and cord and flexible cord sets, n.s.k.....                                       |   | (X) 9,856                                      |                 | (X)      | 7,192           |  |
| 36996 00     |  |   |  |                 |          |                 |  |
| 33576 00     | Made in nonferrous wire drawing etc., (industry 3357).....                                       |   | (X) 5,459                                      |                 | (X)      | 2,634           |  |
| 36996 00     | Made in electric products, n.e.c., (industry 3699) and other industries.....                     |   | (X) 4,397                                      |                 | (X)      | 4,558           |  |
| 33570 00     | Drawn and insulated nonferrous wire, n.s.k.....  |   | (X) 15,363                                     |                 | (X)      | 10,177          |  |
| 3361- --     | ALUMINUM CASTINGS, TOTAL.....  |   | (X) 607,028                                    |                 | (X)      | 399,605         |  |
|              | Aluminum and aluminum-base alloy castings (except cast aluminum cooking utensils): <sup>25</sup> |   |  |                 |          |                 |  |
| 33610 11     | Sand.....  | Short tons.....                                       | 76,149   | 146,317         | 50,569   | 101,680         |  |
| 33610 31     | Permanent and semipermanent mold.....  | ..do.....   | 97,358   | 113,362         | 71,963   | 82,048          |  |
| 33610 41     | Die.....   | ..do.....   | 238,349  | 266,710         | 106,234  | 142,345         |  |
| 33610 51     | Investment.....  | ..do.....   | 688  | 9,703           | 197      | 2,698           |  |
| 33610 61     | Other.....   | .....   | (NA)   | 21,346          | (NA)     | 15,069          |  |
|              | Cast aluminum finished products:   |   |  |                 |          |                 |  |
| 33610 71     | Pressure cookers, household (except electric).....   |   | (X) 10,116                                     |                 | (X)      | 7,633           |  |
| 33610 75     |  | Cast aluminum cooking utensils (except electric)..... |  |                 |          |                 |  |
| 33610 00     | Aluminum and aluminum-base alloy castings, n.s.k.....  |   | (X) 39,474                                     |                 | (X)      | 48,132          |  |

See footnotes at end of table.



**TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued**

| Product code | Product  | Unit of measure | Total shipments including interplant transfers |                 |          |                 |
|--------------|--|-----------------|--|-----------------|----------|-----------------|
|              |  |                 | 1963   |                 | 1958     |                 |
|              |  |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 3362- --     | BRASS, BRONZE, COPPER CASTINGS, TOTAL.....   |                 | (X)  | 299,769         | (X)      | 222,755         |
|              | Copper and copper-base alloy castings (except bearings and bushings): <sup>2,5</sup> |                 |  |                 |          |                 |
| 33620 11     | Sand.....  | Short tons....  | 139,296  | 191,952         | 116,359  | 148,270         |
| 33620 31     | Permanent and semipermanent mold.....  | ..do.....       | 7,225  | 13,912          | 3,584    | 7,301           |
| 33620 41     | Die.....   | ..do.....       | 3,236  | 7,383           | 1,117    | 2,533           |
| 33620 51     | Investment.....  | ..do.....       | (NA)   | 4,013           | 234      | 3,754           |
| 33620 61     | Other.....   | ..do.....       | 14,041   | 21,386          | 4,999    | 10,928          |
| 33620 71     | Copper-base alloy bearings and bushings, nonmachined.....                            |                 | (X)  | 39,052          | (X)      | 21,205          |
| 33620 00     | Copper and copper-base alloy castings, n.s.k.....                                    |                 | (X)  | 22,071          | (X)      | 28,764          |
| 3369- --     | NONFERROUS CASTINGS, N.E.C. TOTAL <sup>2,5</sup> .....                               |                 | (NA)   | 306,484         | (NA)     | 233,236         |
|              | Magnesium and magnesium-base alloy castings:   |                 |  |                 |          |                 |
| 33690 11     | Sand.....  | Short tons....  | 5,018  | 31,256          | 7,782    | 44,353          |
| 33690 31     | Die.....   | .....           | (NA)   | 7,704           | (NA)     | 4,532           |
| 33690 33     | Cast anodes.....   | .....           | (NA)   | 5,195           | (NA)     | 4,577           |
| 33690 41     | Other, including permanent and semipermanent.....                                    | .....           | (NA)   |                 | (NA)     |                 |
|              | Zinc and zinc-base alloy castings:   |                 |  |                 |          |                 |
| 33690 51     | Die.....   | Short tons....  | 186,225  | 201,857         | 119,783  | 132,897         |
| 33690 61     | Other.....   | .....           | (NA)   | 4,518           | (NA)     | 702             |
| 33690 71     | Lead and lead-base alloy die castings.....   |                 | (NA)   | 6,736           | (NA)     | 3,737           |
| 33690 98     | Other nonferrous metal castings, including die castings.....                         |                 | (NA)   | 35,511          | (NA)     | 32,661          |
| 33690 00     | Nonferrous castings, n.e.c., n.s.k.....  |                 | (X)  | 13,707          | (X)      | 9,777           |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Represents receipts for nonferrous metal mills and nonferrous wire drawing establishments.

<sup>2</sup>Includes shipments of these products produced on a toll basis by others.

<sup>3</sup>Data are also shown in Current Industrial Reports Series BDSAF-84, "Shipments of Copper-Base Mill and Foundry Products." See table 6A-2.

<sup>4</sup>Data are also shown in Current Industrial Reports Series M33-2, "Aluminum Ingot and Mill Products." See table 6A-2.

<sup>5</sup>Data for ACSR and aluminum cable, bare, are also published monthly in Current Industrial Reports Series M33-2, "Aluminum Ingot and Mill Products." Net quantity of shipments as reported in this series for the year 1963 and 1958 totaled 136,127, and 87,424 short tons, respectively. However, these quantities represent aluminum content only. The 149,100 short tons and 92,608 short tons reported in the census of manufactures for 1963 and 1958, respectively, represent gross weight.

<sup>6</sup>Differs from quantity data published in Current Industrial Reports Series M33-2, "Aluminum Ingot and Mill Products," in that no data are included in the plain aluminum foil figures for that quantity of plain foil which is produced and converted in the same establishment. As shown in Current Industrial Reports, net shipments of aluminum foil totaled 161 thousand short tons in 1963 and 100 thousand short tons in 1958.

<sup>7</sup>Represents aluminum ingot and aluminum extrusion billet made only by establishments classified in industry 3352, Aluminum Rolling and Drawing. Comparable shipments for plants classified in industries 3334, Primary Aluminum, and 3341, Secondary Nonferrous Metals, and other industries are as follows:

| Item                       | Total shipments       |                 | Other companies       |                 | Interplant transfers  |                 |
|----------------------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------|
|                            | Quantity (short tons) | Value (\$1,000) | Quantity (short tons) | Value (\$1,000) | Quantity (short tons) | Value (\$1,000) |
| Aluminum ingot:            |                       |                 |                       |                 |                       |                 |
| Industry 3334.....         | 2,118,607             | 946,808         | } (NA)                | (NA)            | (NA)                  | (NA)            |
| Industry 3341.....         | 540,522               | 230,687         |                       |                 |                       |                 |
| All other industries.....  | 9,573                 | 8,185           |                       |                 |                       |                 |
| Aluminum extrusion billet: |                       |                 |                       |                 |                       |                 |
| Industry 3334.....         | 272,092               | 122,798         | 193,561               | 86,244          | 78,531                | 36,554          |
| Industry 3341.....         | } 32,976              | 13,935          | 32,976                | 13,935          | -                     | -               |
| All other industries.....  |                       |                 |                       |                 |                       |                 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

The figures in the table above differ significantly from those published in the preliminary report for this industry, in that the latter report included the activities of other industries.

<sup>8</sup>Most of the aluminum ingot and billet (alloys) produced by aluminum rolling mills represent duplication of tonnages reported by the primary aluminum industry in that metal produced by the rolling mills is made from ingot produced in primary aluminum plants.

<sup>9</sup>Excludes an unspecified amount of ACSR produced on a toll basis. This tonnage is included in the Current Industrial Reports.

<sup>10</sup>Quantity figures are shown in terms of metal weight.

<sup>11</sup>Laminated foil made from purchased aluminum foil, totaled 8,113 short tons metal content valued at \$17,497 thousand.

Footnotes continued on next page

**TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued**

Footnotes for Table 6A-1-33D--Continued

<sup>12</sup>Represents aluminum-base alloys made only by establishments classified in industry 3352, Aluminum Rolling and Drawing. Comparable shipments for plants classified in industries 3334, Primary Aluminum, and 3341, Secondary Nonferrous Metals, and other industries are as follows:

| Item                      | Total shipments       |                 | Other companies       |                 | Interplant transfers  |                 |
|---------------------------|-----------------------|-----------------|-----------------------|-----------------|-----------------------|-----------------|
|                           | Quantity (short tons) | Value (\$1,000) | Quantity (short tons) | Value (\$1,000) | Quantity (short tons) | Value (\$1,000) |
| Aluminum-base alloys:     |                       |                 |                       |                 |                       |                 |
| Industry 3334.....        | 508,189               | 260,838         | 156,525               | 82,463          | 351,664               | 178,375         |
| Industry 3341.....        | 311,359               | 140,471         | 302,036               | 135,745         | 9,323                 | 4,726           |
| All other industries..... | 10,704                | 4,647           | 10,704                | 4,647           | -                     | -               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>13</sup>Data are also published in Current Industrial Series M33G, "Magnesium Mill Products." See table 6A-2.

<sup>14</sup>Data are also published in Current Industrial Series BDSAF-263, "Titanium Ingot and Mill Products." See table 6A-2.

<sup>15</sup>Includes \$25,831 thousand produced in industry 3357, Nonferrous Wire Drawing, Etc.

<sup>16</sup>Includes \$20,371 thousand produced in industry 3357, Nonferrous Wire Drawing, Etc.

<sup>17</sup>For detailed data see products of industry 3352, above.

<sup>18</sup>Production, including toll production, for these products totaled as follows: unalloyed wire for electrical transmission, 378,853; strand and cable, 264,151.

<sup>19</sup>For detailed data see products of industry 3356, above.

<sup>20</sup>For 1958, data for product code 3481519, Nonferrous metal insect wire screening, other than copper and copper-base alloy, and aluminum, are included with product code 3481498, Other wire cloth and woven wire products.

<sup>21</sup>This quantity was valued at \$5,599 thousand. The remaining \$1,435 thousand were reported without quantity.

<sup>22</sup>For 1958, data for product code 3481400, Wire cloth and woven wire products, not specified by kind, include data for product code 3481500, Nonferrous wire cloth and other nonferrous woven wire products, not specified by kind.

<sup>23</sup>Of these totals, the following represents the value of shipments of insulated wire and cable transferred from one plant of a company to another plant of the same company:

| Product class code | Thousand dollars |
|--------------------|------------------|
| 33574              | 17,831           |
| 33577              | 67,146           |
| 33578              | 5,458            |
| 33579              | 12,185           |

<sup>24</sup>In 1958, product codes 3357615 and 3699615 are combined with codes 3357613 and 3699613, respectively.

<sup>25</sup>These data differ from the quantities published in Current Industrial Reports Series M33E, "Nonferrous Castings," in that no data are included for castings produced by captive foundry departments of plants classified in other industries. In addition, certain products are reported as castings in the monthly survey which in the census of manufactures are classified as finished products in other industries.



TABLE 6A-2. Net Shipments of Selected Nonferrous Metal Rolled, Drawn, and Extruded Products: 1958 to 1963

(Short tons)

| Product   | 1963      | 1962      | 1961      | 1960      | 1959      | 1958      |
|---|-----------|-----------|-----------|-----------|-----------|-----------|
| Copper-base mill products, total <sup>1 2</sup> .....               | 2,113,500 | 2,020,000 | 1,831,000 | 1,718,000 | 1,925,500 | 1,618,500 |
| Copper mill (brass mill) products, total.....                       | 1,232,500 | 1,178,500 | 1,034,000 | 939,000   | 1,110,500 | 894,500   |
| Copper-base alloy:  |           |           |           |           |           |           |
| Sheet and strip <sup>3</sup> .....                                  | 286,500   | 282,000   | 257,000   | 240,000   | 298,500   | 235,500   |
| Rod, bar, and wire <sup>4</sup> .....                               | 332,000   | 324,000   | 289,000   | 269,500   | 334,500   | 266,000   |
| Tube and pipe.....  | 67,500    | 70,500    | 64,000    | 54,500    | 63,000    | 61,500    |
| Unalloyed copper:   |           |           |           |           |           |           |
| Sheet and strip.....  | 118,500   | 110,500   | 97,500    | 87,500    | 96,000    | 77,500    |
| Rod, bar, and wire.....   | 54,500    | 53,500    | 48,500    | 50,000    | 59,500    | 44,500    |
| Tube and pipe.....  | 373,500   | 338,000   | 278,000   | 237,500   | 259,000   | 209,500   |
| Copper wire mill products, total.....                               | 855,500   | 818,000   | 777,000   | 760,500   | 792,500   | 707,500   |
| Bare wire <sup>5</sup> .....  | 85,500    | 82,000    | 86,500    | 88,500    | 792,500   | 707,500   |
| Insulated communication wire.....                                   | 222,000   | 185,000   | 179,500   | 191,000   |           |           |
| Other insulated wire.....   | 548,000   | 551,000   | 511,000   | 481,000   |           |           |
| Copper-base powder mill products, total.....                        | 25,500    | 23,500    | 20,000    | 18,500    | 22,500    | 16,500    |
| Copper-base alloy:  |           |           |           |           | 22,500    | 16,500    |
| Granular.....   | 8,000     | 7,000     | 6,000     | 6,000     |           |           |
| Flake.....  | 2,000     | 2,000     | 2,000     | 2,000     |           |           |
| Unalloyed copper:   |           |           |           |           |           |           |
| Granular.....   | 14,500    | 13,500    | 10,500    | 10,500    |           |           |
| Flake.....  | 1,000     | 1,000     | 1,500     | 1,000     |           |           |
| Aluminum mill products (including wire), total <sup>1 6</sup> ..... | 2,128,592 | 1,905,630 | 1,672,549 | 1,524,534 | 1,693,026 | 1,298,558 |
| Sheet:  |           |           |           |           |           |           |
| Nonheat-treatable.....  | 813,256   | 680,909   | 7628,149  | 7601,711  | 7642,304  | 7472,202  |
| Heat-treatable.....   | 82,578    | 78,636    | 8118,525  | 892,414   | 8115,646  | 8104,558  |
| Plate:  |           |           |           |           |           |           |
| Nonheat-treatable.....  | 63,278    | 54,442    | (7)       | (7)       | (7)       | (7)       |
| Heat-treatable.....   | 38,563    | 41,441    | (8)       | (8)       | (8)       | (8)       |
| Foil (including foil in lamination).....                            | 161,150   | 148,719   | 135,294   | 124,503   | 126,310   | 99,779    |
| Rolled and continuous cast rod and bar.....                         | 60,820    | 68,202    | 50,384    | 46,460    | 62,293    | 37,812    |
| Wire, bare, conductor and nonconductor.....                         | 28,813    | 27,512    | 26,318    | 27,706    | 32,296    | 22,114    |
| ACSR and aluminum cable, bare.....                                  | 136,127   | 126,581   | 116,400   | 91,538    | 98,358    | 87,423    |
| Wire and cable, insulated or covered.....                           | 44,618    | 38,427    | 34,317    | 30,197    | 30,377    | 25,509    |
| Extruded rod and bar:   |           |           |           |           |           |           |
| Alloys other than 2000 and 7000 series.....                         | 30,547    | 27,398    | 9442,053  | 9406,044  | 9465,657  | 9346,762  |
| Alloys in 2000 and 7000 series.....                                 | 5,123     | 6,298     | 1025,231  | 1019,426  | 1023,953  | 1024,920  |
| Extruded pipe and tube:   |           |           |           |           |           |           |
| Alloys other than 2000 and 7000 series.....                         | 75,131    | 69,734    | (9)       | (9)       | (9)       | (9)       |
| Alloys in 2000 and 7000 series.....                                 | 3,027     | 2,614     | (10)      | (10)      | (10)      | (10)      |
| Extruded shapes:  |           |           |           |           |           |           |
| Alloys other than 2000 and 7000 series <sup>11</sup> .....          | 435,351   | 391,119   | (9)       | (9)       | (9)       | (9)       |
| Alloys in 2000 and 7000 series.....                                 | 27,076    | 22,421    | (10)      | (10)      | (10)      | (10)      |
| Drawn tube:   |           |           |           |           |           |           |
| Alloys other than 2000 and 7000 series.....                         | 32,748    | 39,213    | 32,001    | 30,160    | 36,473    | 29,911    |
| Alloys in 2000 and 7000 series.....                                 |           |           |           |           |           |           |
| Welded tube, nonheat-treatable <sup>12</sup> .....                  | 26,041    | 20,364    | 17,712    | 12,926    | 14,996    | 9,339     |
| Powder and paste:   |           |           |           |           |           |           |
| Atomized.....   | 11,313    | 10,690    | 7,366     | 6,260     | 5,804     | 3,298     |
| Flaked.....   | 2,163     | 2,707     | 2,544     | 2,102     | 2,696     | 1,858     |
| Paste.....  | 8,928     | 8,446     | 8,033     | 8,063     | 8,942     | 7,658     |
| Forgings (including impact extrusions).....                         | 41,988    | 39,702    | 28,225    | 25,028    | 26,924    | 25,415    |

See footnotes at end of table.

TABLE 6A-2. Net Shipments of Selected Nonferrous Metal Rolled, Drawn, and Extruded Products: 1958 to 1963—Continued

| Product  | 1963   | 1962   | 1961                | 1960                | 1959                | 1958                |
|--|--------|--------|---------------------|---------------------|---------------------|---------------------|
| Magnesium mill products <sup>1</sup> .....                             | 12,403 | 11,557 | 10,640              | 10,328              | 11,085              | 9,351               |
| Titanium mill products <sup>1</sup> .....                              | 6,112  | 6,521  | <sup>13</sup> 5,147 | <sup>13</sup> 5,071 | <sup>13</sup> 3,211 | <sup>13</sup> 2,594 |
| Sheet, plate and strip.....  | 1,235  | 1,227  | 1,124               | 1,021               | 934                 | (X)                 |
| Pipe and tubing <sup>14</sup> .....                                    | 90     | 181    | 271                 |                     |                     |                     |
| Forging and extrusion billet.....                                      | 3,625  | 3,973  | 2,657               |                     |                     |                     |
| Rod, bar, wire, and extrusions (other than tubing) <sup>14</sup> ..... | 1,162  | 1,140  | 1,094               |                     |                     |                     |
|  |        |        |                     | 1,215               | 750                 | 647                 |

Note: Net shipments are derived by subtracting receipts of mill shapes at producing mills from shipments (including quantities used at producing mills in the production of fabricated products) by such mills.

<sup>1</sup>Source: These data are derived from the following Current Industrial Reports Series:

| Metal     | Series    | Title                                 |
|-----------|-----------|---------------------------------------|
| Copper    | BDSAF-84  | Copper-Base Mill and Foundry Products |
| Aluminum  | M33-2     | Aluminum Ingot and Mill Products      |
| Magnesium | M33G      | Magnesium Mill Products               |
| Titanium  | BDSAF-263 | Titanium Ingot and Mill Products      |

<sup>2</sup>Data represent metal weight, except for wire products, which are reported in copper content.

<sup>3</sup>Military ammunition cups and discs are included on a net weight basis, i.e., excluding the weight of the webbing scrap generated in the cupping and discing operation.

<sup>4</sup>Excludes electrical wire.

<sup>5</sup>Represents uninsulated, bare wire, tinned and/or alloy coated.

<sup>6</sup>Data represents aluminum and aluminum alloy content.

<sup>7</sup>For 1958-1961, nonheat-treatable plate is included with nonheat-treatable sheet.

<sup>8</sup>For 1958-1961, heat-treatable plate is included with heat-treatable sheet.

<sup>9</sup>For 1958-1961, extruded pipe and tube and extruded shapes of alloys other than 2000 and 7000 series, are included with extruded rod and bar of alloys other than 2000 and 7000 series.

<sup>10</sup>For 1958-1961, extruded pipe and tube and extruded shapes of alloys in the 2000 and 7000 series are included with extruded rod and bar of alloys in the 2000 and 7000 series.

<sup>11</sup>Includes a small amount of rolled structural shapes.

<sup>12</sup>Includes a small amount of heat-treatable welded tube.

<sup>13</sup>Data for 1958-1961 represent gross, rather than net shipments. Differences between gross and net shipments were measured for 1961 and were less than 1 percent for total mill shapes and less than 3 percent for each specific shape.

<sup>14</sup>For 1958-1962 all extrusions are included with pipe and tubing.



TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year   | Indexes (1954 = 100)   |            | Product code | Product and year   | Indexes (1954 = 100)                      |            |  |
|--------------|--|--|------------|--------------|--|---|------------|--|
|              |  | Production   | Unit value |              |  | Production                                | Unit value |  |
| 335--        | Nonferrous rolling and drawing....1963..<br>1958..   | 156<br>111   | 101<br>104 | 3356-        | Rolling, drawing, and extruding of non-ferrous metals, except copper and aluminum.....1963..<br>1958.. | 168<br>116                                | 104<br>103 |  |
| 3351-        | Copper rolling and drawing (brass mill shapes).....1963..<br>1958..                                | 129<br>88  | 100<br>99  | 3357-        | Nonferrous wire drawing, etc <sup>3</sup> .....1963..<br>1958..  | 146<br>112                                | 103<br>102 |  |
| 33511        | Copper wire, bare and tinned (nonelectrical).....1963..<br>1958..                                  | 111<br>74  | 106<br>102 | 33571        | Aluminum and aluminum-base alloy wire and cable (including ACSR) <sup>2</sup> ...1963..<br>1958..      | 160<br>109                                | 104<br>118 |  |
| 33512        | Copper mill shapes.....1963..<br>1958..  | 130<br>89  | 100<br>99  | 33572        |  |   |            | Copper and copper-base alloy wire (including strand and cable), bare, and tinned, for electrical transmission.....1963..<br>1958.. |
| 3352-        | Aluminum rolling and drawing <sup>1</sup> .....1963..<br>1958..                                    | 214<br>136   | 98<br>112  | 33575        | Nonferrous wire cloth and other woven wire products <sup>2</sup> .....1963..<br>1958..                 | 188<br>164                                | 91<br>95   |  |
| 33521        | Aluminum and aluminum-base alloy wire and cable (including ACSR) <sup>2</sup> ....1963..<br>1958.. | 160  | 104        | 34815        |  |   |            | Magnet wire.....1963..<br>1958..   |
| 33522        |  | Aluminum plate and sheet (including foil stock).....1963..<br>1958.. | 192<br>130 | 104<br>119   | 33577  | Power wire and cable.....1963..<br>1958.. | 140<br>126 | 99<br>102  |
| 33523        | Plain aluminum foil (under .006")...1963..<br>1958..   | 290<br>185   | 94<br>109  | 33578        | 336--  |   |            |  |
| 33524        | Rolled aluminum rod, bar (including continuous cast) and structural shapes.....1963..<br>1958..    | 156<br>102   | 104<br>121 | 3361-        | Aluminum castings.....1963..<br>1958..   | 174<br>103                                | 92<br>102  |  |
| 33525        | Extruded aluminum rod, bar and other extruded shapes (except tube).....1963..<br>1958..            | 263<br>163   | 87<br>96   | 3362-        | Brass, bronze, copper castings.....1963..<br>1958..  | 99<br>77                                  | 129<br>123 |  |
| 33526        | Aluminum tube.....1963..<br>1958..   | 221<br>115   | 82<br>101  | 3369-        | Nonferrous castings, n.e.c.....1963..<br>1958..  | 125<br>95                                 | 110<br>111 |  |

n.e.c. Not elsewhere classified.

<sup>1</sup>Adjusted to include aluminum ingot and aluminum extrusion billet made in aluminum rolling mills (product classes 33527 and 33528) which were not separately reported in the 1954-1958 period.

<sup>2</sup>These indexes have been computed on a "wherever-made" basis--that is, they reflect the shipments of these products reported by establishments without regard to their plant specialization (industry classification).

<sup>3</sup>Adjusted to include product classes for which separate indexes are not shown due to lack of adequate quantity information (note particularly the omission of product classes 33574, 33576 and 33579).

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments, 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class   | 1963   | 1962 <sup>1</sup>      | 1961 <sup>1</sup>      | 1960 <sup>1</sup>      | 1959 <sup>1</sup>      | 1958                   | 1954                 | 1947    |         |
|-------|---|--|------------------------|------------------------|------------------------|------------------------|------------------------|----------------------|---------|---------|
| 3351- | Copper rolling and drawing.....   | 1,544,505  | 1,467,563              | 1,314,757              | 1,242,605              | 1,389,282              | 1,034,397              | 1,186,492            | (NA)    |         |
| 33511 | Copper and copper-base alloy wire, bare and tinned for purposes other than electrical transmission..... | 73,150   | 58,870                 | 56,176                 | 54,548                 | 63,843                 | 47,846                 | 62,952               | (NA)    |         |
| 33512 | Rolled drawn and extruded copper and copper-base alloy mill products.....                               | 1,471,355  | 1,408,693              | 1,258,581              | 1,188,057              | 1,325,439              | 986,551                | 1,123,540            | (NA)    |         |
| 3352- | Aluminum rolling and drawing.....   | 1,898,885  | <sup>2</sup> 1,879,150 | <sup>2</sup> 1,704,897 | <sup>2</sup> 1,601,389 | <sup>2</sup> 1,810,018 | <sup>2</sup> 1,472,252 | (NA)                 | (NA)    |         |
| 33521 | Aluminum and aluminum-base alloy wire (including ACSR).....   | 127,948  | 154,908                | 135,292                | 121,203                | 115,498                | 100,921                | 79,023               | (NA)    |         |
| 33571 |   | Aluminum plate and sheet (including foil stock).....   | 850,459                | 836,336                | 746,515                | 701,453                | 798,377                | 646,064              | 420,266 | 293,436 |
| 33522 |   | Plain aluminum foil.....   | 129,381                | <sup>2</sup> 207,668   | <sup>2</sup> 187,722   | <sup>2</sup> 179,390   | <sup>2</sup> 184,660   | <sup>2</sup> 140,472 | 69,874  | (NA)    |
| 33523 | Rolled aluminum rod, bar, (including continuous cast) and structural shapes.....                        | 145,157  | 119,954                | 110,892                | 98,815                 | 137,721                | 110,523                | 89,653               | (NA)    |         |
| 33525 | Extruded aluminum rod, bar, and other extruded shapes, excluding tube.....                              | 397,295  | 340,812                | 333,429                | 314,215                | 348,810                | 272,107                | 173,374              | (NA)    |         |
| 33526 | Aluminum tube and other rolled, drawn or extruded mill products.....                                    | 139,172  | 128,535                | 102,006                | 92,512                 | 111,510                | 89,555                 | 77,123               | (NA)    |         |
| 33527 | Aluminum ingot, produced in aluminum rolling mills.....   | 49,024   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                 | (NA)    |         |
| 33528 | Aluminum extrusion billet, produced in aluminum rolling mills.....                                      | 48,745   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                 | (NA)    |         |
| 33520 | Aluminum rolling and drawing, n.s.k.....  | 11,704   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | (NA)                 | (NA)    |         |
| 33560 | Rolled, drawn, and extruded nonferrous metal mill products (except copper and aluminum).                | 630,536  | <sup>3</sup> 548,587   | <sup>3</sup> 534,685   | <sup>3</sup> 482,901   | <sup>3</sup> 495,360   | 428,210                | 355,602              | 130,612 |         |
| 3357- | Nonferrous wire drawing, etc.....   | 2,185,011  | (NA)                   | (NA)                   | (NA)                   | (NA)                   | 1,634,961              | (NA)                 | (NA)    |         |
| 33521 | Aluminum and aluminum-base alloy wire and cable (including ACSR).....                                   | 127,948  | 154,908                | 135,292                | 121,203                | 115,498                | 100,921                | 79,023               | (NA)    |         |
| 33571 |   | Copper and copper-base alloy wire (including strand and cable) bare and tinned, for electrical transmission..... | 244,979                | 231,470                | 195,267                | 189,661                | 203,675                | 156,493              | 167,168 | (NA)    |
| 33572 |   | Other bare nonferrous metal wire, made in nonferrous wire drawing plants.....                                    | 45,600                 | (NA)                   | (NA)                   | (NA)                   | (NA)                   | <sup>4</sup> 92,273  | (NA)    | (NA)    |
| 33573 | Communication wire and cable.....   | 581,781  | 485,226                | 432,267                | 489,048                | 444,203                | 365,373                | 248,373              | 186,878 |         |
| 33575 | Nonferrous wire cloth and other woven wire products.....  | 70,487   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | ( <sup>4</sup> )       | (NA)                 | (NA)    |         |
| 34815 | Appliance wire and cord and flexible cord sets.....   | 167,664  | 159,215                | 146,659                | 145,129                | 149,809                | 127,069                | 108,609              | (NA)    |         |
| 33576 | Magnet wire.....  | 258,308  | 267,129                | 243,554                | 239,219                | 253,796                | 183,382                | 174,092              | (NA)    |         |
| 36996 | Power wire and cable.....   | 218,810  | 194,202                | 183,513                | 199,224                | 187,742                | 194,761                | 172,680              | (NA)    |         |
| 33577 | Other insulated wire and cable, n.e.c.....  | 454,071  | 460,192                | 454,648                | 432,876                | 471,212                | 404,512                | 431,553              | (NA)    |         |
| 33579 | Nonferrous wire drawing, etc., n.s.k.....   | 15,362   | (NA)                   | (NA)                   | (NA)                   | (NA)                   | 10,177                 | -                    | (NA)    |         |
| 33570 | Aluminum and aluminum-base alloy castings....   | 607,028  | 624,175                | 531,364                | 538,396                | 525,727                | 399,605                | 843,090              | 573,349 |         |
| 33610 | Copper and copper-base alloy castings.....  | 299,769  | 268,763                | 252,984                | 248,297                | 262,724                | 222,755                |                      |         |         |
| 33620 | Nonferrous castings, n.e.c.....   | 306,484  | 282,713                | 244,989                | 261,758                | 272,200                | 233,236                |                      |         |         |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>2</sup>Includes shipments of laminated foil produced in foil mills. In 1958, these shipments were valued at \$36,787 thousand. In 1963, this product is included in product class 34970.

<sup>3</sup>Excludes wire produced in nonferrous wire drawing establishments.

<sup>4</sup>Product class code 33573 includes value for product class code 33575.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area   | Value of shipments                 |                  | Product class and geographic area   | Value of shipments   |                  | Product class and geographic area   | Value of shipments  |                         |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|---|------------------------------------|------------------|---|--|------------------|---|---|-------------------------|---|-------------------|---|---|--------------------|-------------------------|---|-------------------|----------------------|-------------------------|---|------------------|-------------------------|---------|---|--------------------|---------|---|---------|---------|-------------------------|-------------------------|------------------|--------------------|---|-------------------|------------------|-------------------|---------|-------------------|
|   | 1963 <sup>1</sup>                  | 1958             |   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>   | 1958                    |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
| COPPER AND COPPER-BASE ALLOY WIRE, BARE AND TINNED FOR PURPOSES OTHER THAN ELECTRICAL TRANSMISSION (33511)                | 1963 <sup>1</sup>                  |                  | EXTRUDED ALUMINUM ROD, BAR, AND OTHER EXTRUDED SHAPES EXCLUDING TUBE (33525)  | 1963 <sup>1</sup>  | 1958             | COPPER AND COPPER-BASE ALLOY WIRE (INCLUDING STRAND AND CABLE) BARE AND TINNED FOR ELECTRICAL TRANSMISSION (33572)        | 1963 <sup>1</sup>   | 1958                    |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   | United States, total....           | 73,150           |   | United States, total...  | 397,295          |   | 272,107   | United States, total... | 244,979   | 156,493           |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   | New England.....                   | 38,969           |   | New England.....   | 8,528            |   | 2,918   | New England.....        | 24,998  | 15,542            |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   | Connecticut.....                   | 32,263           |   | Massachusetts.....   | 6,323            |   | ( <sup>2</sup> )  | Connecticut.....        | 9,194   | ( <sup>2</sup> )  |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   | Middle Atlantic.....               | 22,524           |   | Middle Atlantic.....   | 80,797           |   | 51,131  | Middle Atlantic.....    | 112,706   | 89,175            |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   | New York.....                      | 2,134            |   | New York.....  | 18,159           |   | ( <sup>2</sup> )  | New Jersey.....         | 61,188  | 53,952            |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   | New Jersey.....                    | 18,626           |   | New Jersey.....  | 12,174           |   | ( <sup>2</sup> )  | North Central.....      | 88,836  | 40,908            |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   | Pennsylvania.....                  | 1,764            |   | Pennsylvania.....  | 50,464           |   | 38,895  | Illinois.....           | 10,102  | ( <sup>2</sup> )  |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   | North Central, South and West..... | 11,657           |   | East North Central.....  | 138,416          |   | ( <sup>2</sup> )  | South.....              | 6,601   | 10,868            |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   | Michigan.....                      | 2,214            |   | Ohio.....  | 35,889           |   | 18,413  | West.....               | 11,838  |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
| ROLLED, DRAWN AND EXTRUDED COPPER AND COPPER-BASE ALLOY MILL PRODUCTS (33512)   | 1963 <sup>1</sup>                  | 1958             | Indiana.....  | 37,506   | ( <sup>2</sup> ) | COMMUNICATION WIRE AND CABLE (33574)  | United States, total...   | 581,781                 | 365,373   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   | United States, total....           | 1,471,355        | 986,551   | Illinois.....  | 27,092           |   |   |                         |   | ( <sup>2</sup> )  |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   | New England.....                   | 344,017          | 273,055   | Michigan.....  | 37,929           |   |   |                         |   | 34,515            |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   | Connecticut.....                   | 311,680          | 239,342   | West North Central.....  | 3,761            |   |   |                         |   | ( <sup>2</sup> )  |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   | Middle Atlantic.....               | 433,937          | 279,529   | South Atlantic.....  | 42,507           |   |   |                         |   | 40,111            |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   | New York.....                      | 171,990          | 107,048   | East South Central.....  | 16,911           |   |   |                         |   | 6,943             |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   | New Jersey.....                    | 152,527          | 97,697  | West South Central.....  | 22,113           |   |   |                         |   | 10,978            |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   | Pennsylvania.....                  | 109,420          | 74,784  | West.....  | 84,262           |   |   |                         |   | 68,244            |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   | North Central.....                 | 571,100          | 346,408   | ALUMINUM TUBE AND OTHER ROLLED, DRAWN, OR EXTRUDED MILL PRODUCTS (33526) | 139,172          |   |   |                         |   | 89,555            | New England.....  | 77,610  | 51,972             |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   | Indiana.....                       | 139,208          | ( <sup>2</sup> )  | United States, total...  |                  |   |   |                         |   |                   | 3,699   | 30,129  | Massachusetts..... | 29,438                  | 15,161  |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
| Illinois.....   | 135,778                            | 87,033           | New England.....  | 33,293   |                  | ( <sup>2</sup> )  | Rhode Island.....   | 13,822                  | ( <sup>2</sup> )  |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
| Michigan.....   | 146,101                            | 94,711           | Pennsylvania.....   | 14,521   |                  | ( <sup>2</sup> )  | Connecticut.....  | 23,142                  | 15,614  |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
| South and West.....   | 122,301                            | 87,559           | North Central.....  | 46,307   |                  | 22,100  | Middle Atlantic.....  | 151,097                 | 124,919   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
| California.....   | 42,015                             | 25,536           | Illinois.....   | 5,251  |                  | ( <sup>2</sup> )  | New York.....   | 77,477                  | ( <sup>2</sup> )  |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
| ALUMINUM AND ALUMINUM-BASE ALLOY WIRE (INCLUDING ACSR) (33521 AND 33571)  | 127,948                            | 100,921          | Michigan.....   | 12,616   |                  | 2,212   | New Jersey.....   | 61,430                  | 71,510  |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  | United States, total....  | 127,948  |                  | 100,921   | South.....  | 28,313                  | 12,776  |                   | Pennsylvania.....   | 12,190  | ( <sup>2</sup> )   |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  | New England.....  | 3,736  |                  | ( <sup>2</sup> )  | West.....   | 27,560                  | 24,550  |                   | North Central.....  | 162,416   | 75,777             |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  | Middle Atlantic.....  | 38,884   |                  | ( <sup>2</sup> )  | ROLLED, DRAWN, AND EXTRUDED NONFERROUS METAL MILL PRODUCTS (EXCEPT COPPER AND ALUMINUM) (33560)                           | 630,536                 | 428,210   |                   | Illinois.....   | 86,602  | ( <sup>2</sup> )   |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  | North Central.....  | 33,218   | 35,532           | United States, total...   | 630,536   |                         |   | 428,210           | South and West.....   | 190,658   | 112,705            |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  | South.....  | 28,728   | ( <sup>2</sup> ) | New England.....  | 96,728  |                         |   | 67,883            | NONFERROUS WIRE CLOTH AND OTHER WOVEN WIRE PRODUCTS (33575 AND 34815) | 1963 <sup>1</sup>   | 70,487             |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  | West.....   | 23,382   | ( <sup>2</sup> ) | Massachusetts.....  | 27,333  |                         |   | 17,789            |   |   |                    | United States, total... |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  | ALUMINUM PLATE AND SHEET (INCLUDING FOIL STOCK) (33522)   | 850,459  | 646,064          | Connecticut.....  | 49,604  |                         |   | 35,922            |   |   |                    | New England.....        | 7,575   | 7,575             |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  |   |  |                  | United States, total....  | 850,459   |                         |   | 646,064           |   |   |                    | United States, total... | 630,536   | 428,210           | Massachusetts.....   | 4,572                   | 4,572   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  |   |  |                  | Northeast.....  | 52,343  |                         |   | 50,974            |   |   |                    | New England.....        | 96,728  | 67,883            | Middle Atlantic..... | 25,689                  | 25,689  |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
| Maine.....  | 11,015                             | 10,969           |   |  |                  | Massachusetts.....  | 27,333  |                         |   | 17,789            |   |   |                    | New Jersey.....         | 12,022  | 12,022            |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
| New Hampshire.....  | 41,328                             | 40,005           |   |  |                  | Connecticut.....  | 49,604  |                         |   | 35,922            |   |   |                    | East North Central..... | 13,312  | 13,312            |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
| North Central.....  | 378,458                            | 227,748          |   |  |                  | Middle Atlantic.....  | 188,283   |                         |   | 125,502           |   |   |                    | South Atlantic.....     | 11,692  | 11,692            |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
| Illinois.....   | 134,924                            | ( <sup>2</sup> ) |   |  |                  | New York.....   | 63,730  | 43,487                  | Florida.....  | 6,504             |   |   |                    | 6,504                   |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
| South and West.....   | 419,658                            | 367,342          |   |  |                  | New Jersey.....   | 66,921  | 43,628                  | East South Central.....   | 6,917             |   |   |                    | 6,917                   |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
| APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664                            | 127,069          |   |  |                  | Pennsylvania.....   | 57,632  | 38,387                  | Pacific.....  | 1,604             | 1,604   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  |   |  |                  | United States, total....  | 167,664   | 127,069                 | All other divisions.....  | 3,698             | 3,698   | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 1963 <sup>1</sup>  | 127,069                 |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  | Northeast.....  | 52,343   | 50,974           | North Central.....  | 185,461   | 139,619                 | United States, total...   | 167,664           | 127,069   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  | Maine.....  | 11,015   | 10,969           | Ohio.....   | 71,982  | 61,936                  | New England.....  | 73,941            | 56,343  |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  | New Hampshire.....  | 41,328   | 40,005           | Illinois.....   | 54,453  | 43,206                  | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 1963 <sup>1</sup> | 127,069   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  | North Central.....  | 378,458  | 227,748          | South.....  | 117,051   | 95,206                  |   |                   |   |   |                    |                         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 1963 <sup>1</sup> | 127,069              |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  | Illinois.....   | 134,924  | ( <sup>2</sup> ) | West.....   | 43,013  |                         |   |                   |   |   |                    |                         |   |                   |                      | United States, total... | 167,664   | 127,069          |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  | South and West.....   | 419,658  | 367,342          | ROLLED, DRAWN, AND EXTRUDED NONFERROUS METAL MILL PRODUCTS (EXCEPT COPPER AND ALUMINUM) (33560)                           | 630,536   | 428,210                 |   |                   |   |   |                    |                         |   |                   |                      | United States, total... | 581,781   | 365,373          |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664  | 127,069          | United States, total...   |   |                         |   |                   |   |   |                    |                         |   |                   |                      | 3,699                   | 30,129  | New England..... | 77,610                  | 51,972  |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  |   |  |                  | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) |   |                         |   |                   |   |   |                    |                         |   |                   |                      | 167,664                 |   | 127,069          | United States, total... | 139,172 | 89,555  | Massachusetts..... | 29,438  | 15,161  |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
| APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664                            | 127,069          |   |  |                  |   |   |                         |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  | United States, total... | 630,536 | 428,210   | Rhode Island.....  | 13,822  | ( <sup>2</sup> )  |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664            | 127,069                 |   |                   |                      |                         | United States, total...   |                  | 139,172                 | 89,555  | Connecticut.....  | 23,142             | 15,614  |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   |   |                    |                         |   |                   |                      |                         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) |                  | 167,664                 | 127,069 | United States, total...   | 630,536            | 428,210 | Middle Atlantic.....  | 151,097 | 124,919 |                         |                         |                  |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664            | 127,069 | United States, total...   | 630,536 | 428,210 | New York.....           | 77,477                  | ( <sup>2</sup> ) |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  |   |  |                  |   |   |                         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664           | 127,069   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         | United States, total...   | 630,536 | 428,210 | New Jersey.....         | 61,430                  | 71,510           |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   |   |                    |                         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664           | 127,069              |                         |   |                  |                         |         |   |                    |         | United States, total...   | 630,536 | 428,210 | Pennsylvania.....       | 12,190                  | ( <sup>2</sup> ) |                    |   |                   |                  |                   |         |                   |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664 | 127,069 | United States, total... | 630,536                 | 428,210          | North Central..... | 162,416   | 75,777            |                  |                   |         |                   |
|   |                                    |                  |   |  |                  |   | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664                 |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         | 127,069                 | United States, total... | 630,536          | 428,210            | Illinois.....   | 86,602            | ( <sup>2</sup> ) |                   |         |                   |
|   |                                    |                  | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664  | 127,069          |   |   |                         |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | South and West.....   | 190,658           | 112,705          |                   |         |                   |
|   |                                    |                  |   |  |                  | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) |   |                         |   |                   |   |   |                    |                         |   |                   |                      | 167,664                 |   | 127,069          |                         |         |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | NONFERROUS WIRE CLOTH AND OTHER WOVEN WIRE PRODUCTS (33575 AND 34815)   | 1963 <sup>1</sup> | 70,487           |                   |         |                   |
| APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664                            | 127,069          |   |  |                  |   |   |                         |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | United States, total...   |                   |                  |                   |         |                   |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664            | 127,069                 |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | New England.....  |                   |                  | 7,575             | 7,575   |                   |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   |   |                    |                         |   |                   |                      |                         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) |                  | 167,664                 | 127,069 |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | Massachusetts.....  |                   |                  | 4,572             | 4,572   |                   |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664            | 127,069 |   |         |         |                         | United States, total... | 630,536          | 428,210            | Middle Atlantic.....  |                   |                  | 25,689            | 25,689  |                   |
|   |                                    |                  |   |  |                  |   |   |                         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664           | 127,069   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | New Jersey.....   |                   |                  | 12,022            | 12,022  |                   |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   |   |                    |                         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664           | 127,069              |                         |   |                  |                         |         |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | East North Central.....   |                   |                  | 13,312            | 13,312  |                   |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664 | 127,069 |                         | United States, total... | 630,536          | 428,210            | South Atlantic.....   |                   |                  | 11,692            | 11,692  |                   |
|   |                                    |                  |   |  |                  |   | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664                 |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         | 127,069                 | United States, total... | 630,536          | 428,210            | Florida.....  |                   |                  | 6,504             | 6,504   |                   |
|   |                                    |                  | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664  | 127,069          |   |   |                         |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | East South Central.....   |                   |                  | 6,917             | 6,917   |                   |
|   |                                    |                  |   |  |                  | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) |   |                         |   |                   |   |   |                    |                         |   |                   |                      | 167,664                 |   | 127,069          |                         |         |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | Pacific.....  | 1,604             | 1,604            |                   |         |                   |
| APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664                            | 127,069          |   |  |                  |   |   |                         |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | All other divisions.....  | 3,698             | 3,698            |                   |         |                   |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664            | 127,069                 |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 1963 <sup>1</sup> | 127,069          |                   |         |                   |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   |   |                    |                         |   |                   |                      |                         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) |                  | 167,664                 | 127,069 |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | United States, total...   |                   |                  | 167,664           | 127,069 |                   |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664            | 127,069 |   |         |         |                         | United States, total... | 630,536          | 428,210            | New England.....  |                   |                  | 73,941            | 56,343  |                   |
|   |                                    |                  |   |  |                  |   |   |                         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664           | 127,069   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) |                   |                  | 1963 <sup>1</sup> | 127,069 |                   |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   |   |                    |                         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664           | 127,069              |                         |   |                  |                         |         |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | United States, total...   |                   |                  |                   |         | 167,664           |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664 | 127,069 |                         | United States, total... | 630,536          | 428,210            | New England.....  |                   |                  |                   |         | 73,941            |
|   |                                    |                  |   |  |                  |   | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664                 |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         | 127,069                 | United States, total... | 630,536          | 428,210            | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) |                   |                  |                   |         | 1963 <sup>1</sup> |
|   |                                    |                  | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664  | 127,069          |   |   |                         |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | United States, total...   |                   |                  |                   |         |                   |
|   |                                    |                  |   |  |                  | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) |   |                         |   |                   |   |   |                    |                         |   |                   |                      | 167,664                 |   | 127,069          |                         |         |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | New England.....  |                   |                  |                   |         |                   |
| APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664                            | 127,069          |   |  |                  |   |   |                         |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) |                   |                  |                   |         |                   |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664            | 127,069                 |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | United States, total...   | 167,664           | 127,069          |                   |         |                   |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   |   |                    |                         |   |                   |                      |                         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) |                  | 167,664                 | 127,069 |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | New England.....  | 73,941            | 56,343           |                   |         |                   |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664            | 127,069 |   |         |         |                         | United States, total... | 630,536          | 428,210            | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 1963 <sup>1</sup> | 127,069          |                   |         |                   |
|   |                                    |                  |   |  |                  |   |   |                         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 167,664           | 127,069   |   |                    |                         |   |                   |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         | United States, total... | 630,536          | 428,210            | United States, total...   |                   |                  | 167,664           | 127,069 |                   |
|   |                                    |                  |   |  |                  |   |   |                         |   |                   |   |   |                    |                         | APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996) | 16                |                      |                         |   |                  |                         |         |   |                    |         |   |         |         |                         |                         |                  |                    |   |                   |                  |                   |         |                   |



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area   | Value of shipments |                  | Product class and geographic area                 | Value of shipments |                  | Product class and geographic area                       | Value of shipments |         |
|---|--------------------|------------------|---|--------------------|------------------|---|--------------------|---------|
|   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958    |
| APPLIANCE WIRE AND CORD AND FLEXIBLE CORD SETS PRODUCED IN ESTABLISHMENTS WHICH INSULATE WIRE AND CABLE (33576 AND 36996)—Continued |                    |                  | OTHER INSULATED WIRE AND CABLE (33579)—Continued  |                    |                  | COPPER AND COPPER-BASE ALLOY CASTINGS (33620)—Continued |                    |         |
| New England—Continued   |                    |                  | East North Central.....                           | 103,341            | ( <sup>2</sup> ) | Middle Atlantic—Continued                               |                    |         |
| Massachusetts.....  | 26,255             | ( <sup>2</sup> ) | Illinois.....                                     | 23,187             | 14,705           | New Jersey.....   |                    | 10,966  |
| Rhode Island.....   | 29,082             | 26,278           | Michigan.....                                     | 15,703             | ( <sup>2</sup> ) | Pennsylvania.....                                       |                    | 52,205  |
| Middle Atlantic.....  | 30,874             | 22,992           | West North Central.....                           | 5,125              | ( <sup>2</sup> ) | East North Central.....                                 |                    | 114,724 |
| New York.....   | 20,728             | 17,117           | South.....  | 42,095             | ( <sup>2</sup> ) | Ohio.....   |                    | 36,973  |
| New Jersey.....   | 4,797              | 4,011            | Pacific.....                                      | 23,156             | 26,017           | Indiana.....  |                    | 7,535   |
| Pennsylvania.....   | 5,349              | 1,864            | ALUMINUM AND ALUMINUM-BASE ALLOY CASTINGS (33610) |                    |                  | Illinois.....   |                    | 25,830  |
| East North Central.....   | 51,419             | 30,237           | United States, total...                           | 607,028            | 399,605          | Michigan.....   |                    | 24,788  |
| Indiana.....  | 17,756             | 8,804            | New England.....                                  | 25,034             | 19,289           | Wisconsin.....  |                    | 19,598  |
| Illinois.....   | 12,748             | 11,627           | Massachusetts.....                                | 7,079              | 6,097            | West North Central.....                                 |                    | 19,546  |
| Michigan.....   | 10,993             | ( <sup>2</sup> ) | Connecticut.....                                  | 15,133             | 12,120           | Minnesota.....  |                    | 2,093   |
| West North Central.....   | 3,651              | 3,223            | Middle Atlantic.....                              | 107,321            | 70,481           | Iowa.....   |                    | 1,078   |
| South.....  | 1,308              | ( <sup>2</sup> ) | New York.....                                     | 57,818             | 27,638           | Missouri.....   |                    | 7,726   |
| Pacific.....  | 6,471              | 12,716           | New Jersey.....                                   | 20,800             | 15,338           | Nebraska.....   |                    | 7,533   |
| MAGNET WIRE (33577)   |                    |                  | Pennsylvania.....                                 | 28,703             | 27,505           | Kansas.....   |                    | 1,116   |
| United States, total...   | 258,308            | 183,382          | East North Central.....                           | 312,504            | 201,463          | South Atlantic.....                                     |                    | 4,613   |
| New England.....  | 20,133             | 15,050           | Ohio.....   | 134,590            | 81,569           | West Virginia.....                                      |                    | 1,455   |
| Connecticut.....  | 9,784              | 8,222            | Indiana.....                                      | 51,532             | 17,971           | East South Central.....                                 |                    | 2,948   |
| Middle Atlantic.....  | 34,128             | 34,207           | Illinois.....                                     | 49,055             | 36,188           | Alabama.....  |                    | 2,217   |
| North Central and West.....   | 204,047            | ( <sup>2</sup> ) | Michigan.....                                     | 43,254             | 45,262           | West South Central.....                                 |                    | 16,405  |
| Indiana.....  | 112,269            | 79,785           | Wisconsin.....                                    | 34,073             | 20,473           | Texas.....  |                    | 5,169   |
| Illinois.....   | 36,502             | ( <sup>2</sup> ) | West North Central.....                           | 33,154             | 28,894           | Mountain.....   |                    | 1,616   |
| POWER WIRE AND CABLE (33578)  |                    |                  | Minnesota.....                                    | 10,492             | 7,741            | Colorado.....   |                    | 1,224   |
| United States, total...   | 218,810            | 194,761          | Iowa.....   | 4,997              | 3,175            | Pacific.....  |                    | 24,286  |
| New England.....  | 87,743             | 74,822           | Missouri.....                                     | 14,833             | 16,915           | Oregon.....   |                    | 1,798   |
| New Hampshire.....  | 1,956              | (Z)              | South Atlantic.....                               | 7,350              | 9,947            | California.....   |                    | 21,069  |
| Massachusetts.....  | 31,759             | 32,142           | Maryland.....                                     | 1,095              | (Z)              | NONFERROUS CASTINGS, N.E.C. (33690)                     |                    |         |
| Rhode Island.....   | 28,284             | ( <sup>2</sup> ) | Georgia.....                                      | 2,063              | 1,506            | United States, total...                                 | 306,484            | 233,236 |
| Connecticut.....  | 25,744             | ( <sup>2</sup> ) | Florida.....                                      | 1,726              | ( <sup>2</sup> ) | New England.....  | 12,895             | 8,676   |
| Middle Atlantic.....  | 95,107             | 95,127           | East South Central.....                           | 40,148             | 12,964           | Massachusetts.....                                      | 4,046              | 3,142   |
| New Jersey.....   | 56,498             | 57,812           | Tennessee.....                                    | 1,370              | (Z)              | Connecticut.....  | 7,115              | 5,058   |
| North Central.....  | 23,210             | ( <sup>2</sup> ) | West South Central.....                           | 22,619             | 12,575           | Middle Atlantic.....                                    | 60,470             | 50,964  |
| South and West.....   | 12,750             | ( <sup>2</sup> ) | Arkansas.....                                     | 14,550             | 7,135            | New York.....   | 25,741             | 17,579  |
| OTHER INSULATED WIRE AND CABLE (33579)  |                    |                  | Oklahoma.....                                     | 1,409              | (Z)              | New Jersey.....   | 19,264             | 15,738  |
| United States, total...   |                    | 454,071          | Texas.....  | 6,211              | 4,670            | Pennsylvania.....                                       | 15,465             | 17,647  |
| New England.....  |                    | 98,019           | Mountain.....                                     | 4,259              | 1,169            | East North Central.....                                 | 175,271            | 136,587 |
| Rhode Island.....   |                    | 49,233           | Colorado.....                                     | 3,470              | (Z)              | Ohio.....   | 39,480             | 31,318  |
| Connecticut.....  |                    | 26,280           | Pacific.....                                      | 54,639             | 42,823           | Indiana.....  | 12,312             | 8,137   |
| Middle Atlantic.....  |                    | 182,335          | Washington.....                                   | 1,601              | 1,359            | Illinois.....   | 47,398             | 36,619  |
| New York.....   |                    | 96,806           | Oregon.....                                       | 2,736              | 1,347            | Michigan.....   | 68,949             | 55,099  |
| New Jersey.....   |                    | 70,612           | California.....                                   | 50,302             | 40,117           | Wisconsin.....  | 7,132              | 5,414   |
| Pennsylvania.....   |                    | 14,917           | COPPER AND COPPER-BASE ALLOY CASTINGS (33620)     |                    |                  | West North Central.....                                 | 15,319             | 11,185  |
| United States, total...   |                    |                  | United States, total...                           | 299,769            | 222,755          | Minnesota.....  | 5,436              | 2,261   |
| New England.....  |                    |                  | New England.....                                  | 29,355             | 16,948           | Missouri.....   | 7,082              | 7,374   |
| Rhode Island.....   |                    |                  | New Hampshire.....                                | 2,378              | 2,011            | South.....  | 9,553              | 4,390   |
| Connecticut.....  |                    |                  | Massachusetts.....                                | 13,834             | 8,499            | Oklahoma.....   | 1,282              | (Z)     |
| Middle Atlantic.....  |                    |                  | Rhode Island.....                                 | 1,378              | (Z)              | Texas.....  | 3,978              | 3,163   |
| New York.....   |                    |                  | Connecticut.....                                  | 11,360             | 5,297            | West.....   | 32,976             | 21,434  |
| New Jersey.....   |                    |                  | Middle Atlantic.....                              | 86,273             | 68,135           | California.....   | 30,758             | 19,528  |
| Pennsylvania.....   |                    |                  | New York.....                                     | 23,102             | 25,105           |   |                    |         |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported. n.e.c. Not elsewhere classified.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed, but the exact figures are withheld to avoid disclosure of individual company figures: 33511, Massachusetts, Rhode Island, Indiana, Illinois, and Wisconsin; 33512, Massachusetts, Rhode Island, Ohio, Wisconsin, Missouri, Maryland, Alabama, and Montana; 33520, New York, Pennsylvania, Ohio, and Michigan; 33521 and 33571, Rhode Island, Connecticut, New York, New Jersey, Pennsylvania, Ohio, Illinois, Michigan, Iowa, Georgia, Tennessee, Alabama, Montana, Washington, and California; 33522, Connecticut, New Jersey, Pennsylvania, Ohio, Indiana, Michigan, Wisconsin, Iowa, Missouri, Maryland, West Virginia, Kentucky, Tennessee, Alabama, Washington, and California; 33525, Connecticut, Missouri, Maryland, Virginia, North Carolina, South Carolina, Georgia, Florida, Kentucky, Alabama, Mississippi, Arkansas, Texas, Arizona, Washington, and California; 33526, Rhode Island, Connecticut, New York, New Jersey, Ohio, Indiana, Missouri, Maryland, Virginia, Tennessee, Alabama, Texas, Arizona, Washington, and California; 33560, Maine, Vermont, Rhode Island, Indiana, Michigan, West Virginia, North Carolina, Georgia, Alabama, Oklahoma, Texas, Nevada, and California; 33572, Massachusetts, Rhode Island, New York, Ohio, Indiana, Michigan, Missouri, Georgia, and California; 33574, New Hampshire, Vermont, Indiana, Michigan, Nebraska, Maryland, North Carolina, Florida, Texas, and California; 33575 and 34815, Connecticut, New York, Pennsylvania, Ohio, Wisconsin, Missouri, Georgia, Alabama, Mississippi, and California; 33576 and 36996, Connecticut, Ohio, and Missouri; 33577, Vermont, Massachusetts, Rhode Island, New York, Ohio, Michigan, Missouri, and California; 33578, New York, Pennsylvania, Ohio, Indiana, Illinois, Missouri, Maryland, Alabama, and California; 33579, Massachusetts, Ohio, Indiana, Missouri, Maryland, West Virginia, North Carolina, Georgia, Tennessee, Texas, Washington, and California; 33610, New Hampshire, Nebraska, Kansas, South Carolina, Kentucky, Alabama, and Mississippi; 33620, Arkansas, Oklahoma, and Washington; 33690, Rhode Island, Iowa, and Oregon.

<sup>2</sup>Shipments of \$1 million or more were reported, but exact figures are withheld to avoid disclosure of individual company figures.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code   | Material   | 1963         |                |   |                |  |                | 1958     |                |
|--|--|--------------|----------------|---|----------------|--|----------------|----------|----------------|
|  |  | Total        |                | Establishments with casting department <sup>2</sup> |                | Establishments without casting department <sup>2</sup> |                | Quantity | Delivered cost |
|  |  | Quantity     | Delivered cost | Quantity  | Delivered cost | Quantity   | Delivered cost |          |                |
| (short tons)   | (\$1,000)  | (short tons) | (\$1,000)      | (short tons)  | (\$1,000)      | (short tons)   | (\$1,000)      |          |                |
| INDUSTRY 3351.—COPPER ROLLING AND DRAWING <sup>1</sup>   |  |              |                |   |                |  |                |          |                |
|  | Materials, containers, and supplies, total.....                                      | (X)          | 1,120,641      | (X)   | 652,927        | (X)  | 467,714        | (X)      | 700,162        |
|  | Nonferrous metals and alloys (ingot, pig, shot, etc.):                               |              |                |   |                |  |                |          |                |
| 333404   | Aluminum, unalloyed.....   | 31,496       | 13,392         | 17,380  | 7,942          | 32,654   | 14,016         | 52,156   | 28,357         |
| 333405   | Aluminum-base alloys.....  | 18,538       | 8,566          |   |                |  |                |          |                |
| 333121   | Copper, unalloyed (cathodes, ingot, cakes, slabs, etc.)                              | 839,014      | 527,640        | 512,614   | 323,027        | 326,400  | 204,613        | 687,096  | 373,826        |
| 334123   | Copper-base alloy raw materials (ingot billets, shot, waffle, hardeners, etc.).....  | 223,974      | 132,701        | 86,856  | 48,582         | 137,118  | 84,119         | 144,726  | 75,110         |
| 333232   | Lead and lead-base alloys.....   | 3,283        | 755            | 2,161   | 498            | 1,122  | 257            | 2,916    | 726            |
| 333973   | Magnesium and magnesium-base alloys.....   | (D)          | (D)            | (D)   | (D)            | (D)  | (D)            | -        | -              |
| 333971   | Nickel and nickel-base alloys.....   | 7,035        | 11,513         | 5,274   | 7,014          | 1,761  | 4,499          | 2,588    | 3,802          |
| 333348   | Zinc and zinc-base alloys.....   | 100,885      | 24,894         | 78,430  | 19,449         | 22,455   | 5,445          | 70,119   | 15,654         |
| 333909   | Other nonferrous metals and alloys.....  | (NA)         | 11,930         | (NA)  | 4,303          | (NA)   | 7,627          | (NA)     | (NA)           |
|  | Nonferrous metal scrap (excluding home scrap):                                       |              |                |   |                |  |                |          |                |
|  | Aluminum and aluminum-base alloy:  |              |                |   |                |  |                |          |                |
| 999809   | From other establishments of the same company.....                                   | 6,270        | 2,794          | (D)   | (D)            | (D)  | (D)            | 2,399    | 1,156          |
| 999810   | From other sources.....  |              |                |   |                |  |                |          |                |
| 999812   | Copper and copper-base alloy.....  | 380,170      | 189,328        | 290,025   | 145,893        | 90,145   | 43,435         | 257,846  | 102,317        |
| 999814   | Zinc and zinc-base alloy, including drosses and skinning.....                        | (D)          | (D)            | (D)   | (D)            | (D)  | (D)            |          |                |
| 335200   | Aluminum and aluminum-base alloy mill shapes (rod, bar, sheet, etc.).....            | 23,704       | 13,883         | (D)   | (D)            | (D)  | (D)            | (X)      | 92,273         |
| 335128   | Brass mill shapes (rod, bar, sheet, etc.).....                                       | 79,361       | 55,621         | 48,949  | 31,956         | 30,412   | 23,665         |          |                |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....    | (X)          | 83,005         | (X)   | 52,554         | (X)  | 47,128         |          |                |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....                | (X)          | 44,619         | (X)   | 11,709         | (X)  | 32,910         | (X)      | 4,079          |
| INDUSTRY 3352.—ALUMINUM ROLLING AND DRAWING <sup>1</sup> |  |              |                |   |                |  |                |          |                |
|  | Materials, containers, and supplies, total.....                                      | (X)          | 1,414,580      | (X)   |                |  |                | (X)      | 995,669        |
|  | Nonferrous metals and alloys:  |              |                |   |                |  |                |          |                |
| 333404   | Aluminum, unalloyed.....   |              |                | 1,032,740   | 466,176        |  |                | 826,057  | 393,016        |
| 333405   | Aluminum-base alloys.....  |              |                | 1,029,105   | 518,862        |  |                | 464,488  | 250,326        |
| 333121   | Copper and copper-base alloys.....   |              |                | 22,389  | 13,202         |  |                | 1,493    | 765            |
| 334123   |  |              |                |   |                |  |                |          |                |
| 333232   | Lead and lead-base alloys.....   |              |                | 2,512   | 956            |  |                | -        | -              |
| 333348   | Zinc and zinc-base alloys.....   |              |                | 3,502   | 1,292          |  |                | -        | -              |
| 333973   | Magnesium and magnesium-base alloys.....   |              |                | 15,314  | 10,763         |  |                | 9,014    | 6,654          |
| 333909   | Other nonferrous metals and alloys.....  |              |                | (X)   | 4,271          |  |                | (NA)     | (NA)           |
|  | Nonferrous mill shapes:  |              |                |   |                |  |                |          |                |
| 335200   | Aluminum and aluminum-base alloy mill shapes.....                                    |              |                | 143,431   | 90,214         |  |                | (NA)     | (NA)           |
| 335128   | Brass mill shapes (rod, bar, sheet, etc.).....                                       |              |                | 6,760   | 6,845          |  |                | (NA)     | (NA)           |
|  | Nonferrous metal scrap (except home scrap):  |              |                |   |                |  |                |          |                |
|  | Aluminum and aluminum-base alloy:  |              |                |   |                |  |                |          |                |
| 999809   | From other establishments of the same company.....                                   |              |                | 101,990   | 25,575         |  |                | 165,138  | 73,427         |
| 999810   | From other sources.....  |              |                | 104,019   | 39,910         |  |                |          |                |
| 999812   | Copper and copper-base alloy.....  |              |                | 11,555  | 5,800          |  |                | 840      | 420            |
| 999814   | Zinc and zinc-base alloy.....  |              |                | (D)   | (D)            |  |                | 2,848    | 695            |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....    |              |                | (X)   | 167,616        |  |                | (X)      | 242,049        |
| 976000   | Materials, containers, parts and supplies, n.s.k. <sup>3</sup> .....                 |              |                | (X)   | 63,098         |  |                | (X)      | 28,317         |
| INDUSTRY 3356.—ROLLING AND DRAWING, N.E.C. <sup>1</sup>  |  |              |                |   |                |  |                |          |                |
|  | Materials, containers, and supplies, total.....                                      | (X)          | 368,372        | (X)   |                |  |                | (X)      | 270,272        |
|  | Nonferrous metals and alloys (ingot, pig, shot, etc.):                               |              |                |   |                |  |                |          |                |
| 333404   | Aluminum, unalloyed.....   |              |                | 2,369   | 1,010          |  |                | 703      | 373            |
| 333405   | Aluminum-base alloys.....  |              |                | (D)   | (D)            |  |                | 1,936    | 961            |
| 333121   | Copper, unalloyed (cathodes, ingot, cakes, slabs, etc.).....                         |              |                | 5,937   | 3,652          |  |                | 4,249    | 2,472          |
| 334123   |  |              |                |   |                |  |                |          |                |
| 333232   | Copper-base alloy raw materials (ingot, billets, shot, waffle, hardeners, etc.)..... |              |                | 44,428  | 14,354         |  |                | 109,336  | 30,156         |
| 333973   | Magnesium and magnesium-base alloys.....   |              |                | 15,055  | 7,900          |  |                | 10,418   | 7,697          |
| 333971   | Nickel and nickel-base alloys.....   |              |                | (D)   | (D)            |  |                | 28,646   | 36,325         |
| 333348   | Zinc and zinc-base alloys.....   |              |                | 51,059  | 11,643         |  |                | 39,478   | 8,682          |
| 333909   | Other nonferrous metals and alloys.....  |              |                | (NA)  | 96,635         |  |                | (NA)     | (NA)           |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | 1963   |                | 1958   |                |                  |                |   |                |          |                |         |         |         |
|--|---|--|----------------|--|----------------|------------------|----------------|---|----------------|----------|----------------|---------|---------|---------|
|  |   | Quantity                                     | Delivered cost | Quantity                                     | Delivered cost |                  |                |   |                |          |                |         |         |         |
|  |   | (short tons)                                 | (\$1,000)      | (short tons)                                 | (\$1,000)      |                  |                |   |                |          |                |         |         |         |
| INDUSTRY 3356.—ROLLING AND DRAWING, N.E.C. <sup>1</sup> —Continued |   |  |                |  |                |                  |                |   |                |          |                |         |         |         |
|  | Nonferrous metal scrap (purchased scrap only):                                    |  |                |  |                |                  |                |   |                |          |                |         |         |         |
|  | Aluminum and aluminum-base alloy:   |  |                |  |                |                  |                |   |                |          |                |         |         |         |
| 999809   | From other establishments of the same company.....                                | (D)  | (D)            | 208  | 77             |                  |                |   |                |          |                |         |         |         |
| 999810   | From all other sources.....   |  |                |  |                |                  |                |   |                |          |                |         |         |         |
| 999812   | Copper and copper-base alloy.....   | (D)  | (D)            | (X)  | 161,878        |                  |                |   |                |          |                |         |         |         |
| 999814   | Zinc and zinc-base alloy, including drosses and skimming.....                     | (D)  | (D)            |  |                |                  |                |   |                |          |                |         |         |         |
| 335128   | Brass mill shapes (rod, bar, sheet, etc.).....                                    | 223  | 307            |  |                |                  |                |   |                |          |                |         |         |         |
| 970099   | All other materials and components, parts, containers, and supplies consumed..... | (X)  | 200,443        |  |                |                  |                |   |                |          |                |         |         |         |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....             | (X)  | 32,428         | (X)  | 21,651         |                  |                |   |                |          |                |         |         |         |
|  |   | INDUSTRY 3357.—NONFERROUS WIRE DRAWING, ETC. |                |  |                |                  |                |   |                |          |                |         |         |         |
| Material   | Unit of measure   | 1963   |                |  |                |                  |                |   |                | 1958     |                |         |         |         |
|  |   | Total  |                | Establishments with wire drawing departments |                |                  |                | Establishments without wire drawing departments |                | Quantity | Delivered cost |         |         |         |
|  |   | Quantity                                     | Delivered cost | With rod mill (335711)                       |                | Without rod mill |                | Quantity  | Delivered cost |          |                |         |         |         |
|  |   |  |                | Quantity                                     | Delivered cost | Quantity         | Delivered cost |   |                | Quantity | Delivered cost |         |         |         |
|  |   |  | (\$1,000)      | Quantity                                     | (\$1,000)      | Quantity         | (\$1,000)      | Quantity  | (\$1,000)      | Quantity | (\$1,000)      |         |         |         |
| INDUSTRY 3357.—NONFERROUS WIRE DRAWING, ETC.                       |   |  |                |  |                |                  |                |   |                |          |                |         |         |         |
|  | Materials, containers, and supplies, total.....                                   | (X)  | 1,405,424      | (X)  | 362,207        | (X)              | 94,234         | (X)   | 706,321        | (X)      | 242,662        | (X)     | 927,284 |         |
|  | Nonferrous metal mill shapes and forms (except castings):                         |  |                |  |                |                  |                |   |                |          |                |         |         |         |
|  | Rods:   |  |                |  |                |                  |                |   |                |          |                |         |         |         |
| 335251   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.                                   | 222,358        | 59,971                                       | (D)            | (D)              | 79,134         | 18,134  | 137,150        | 36,156   | (D)            | (D)     | 123,869 | 37,445  |
| 335124   | Copper, unalloyed....   | ...do.....                                   | 920,054        | 301,443                                      | (D)            | (D)              | 133,879        | 44,110  | 692,117        | 226,661  | (D)            | (D)     | 792,231 | 225,432 |
| 335125   | Copper-base alloy.....  | ...do.....                                   | 185,478        | 61,997                                       | (D)            | (D)              | (D)            | (D)   | (D)            | (D)      | (D)            | (D)     | 54,012  | 15,028  |
|  | Wire for re-drawing:  |  |                |  |                |                  |                |   |                |          |                |         |         |         |
| 335716   | Aluminum and aluminum-base alloy.....   | ...do.....                                   | 3,313          | 1,137  | (D)            | (D)              | (D)            | (D)   | (D)            | (D)      | -              | -       | 582     | 254     |
| 335112   | Copper and copper-base alloy.....   | ...do.....                                   | 60,355         | 22,322                                       | (D)            | (D)              | (D)            | (D)   | 18,194         | 6,461    | -              | -       | 46,559  | 15,197  |
| 335608   | Other nonferrous metals..   | ...do.....                                   | 10,347         | 7,831  | (D)            | (D)              | (D)            | (D)   | (D)            | (D)      | -              | -       | (NA)    | 1,704   |
|  | Bare wire (except wire for redrawing):  |  |                |  |                |                  |                |   |                |          |                |         |         |         |
| 335725   | Copper and copper-base alloy (electrical).....                                    | ...do.....                                   | 331,129        | 130,108                                      | (D)            | (D)              | (D)            | (D)   | 56,506         | 22,004   | 264,082        | 103,243 | 279,520 | 105,578 |
| 335718   | Aluminum and aluminum-base alloy.....   | ...do.....                                   | 13,492         | 4,798  | (D)            | (D)              | (D)            | (D)   | 7,302          | 2,459    | (D)            | (D)     | 7,851   | 2,722   |
|  | All other mill shapes and forms:  |  |                |  |                |                  |                |   |                |          |                |         |         |         |
| 335109   | Copper and copper-base alloy, including mechanical wire                           | ...do.....                                   | 40,930         | 22,615                                       | (D)            | (D)              | (D)            | (D)   | 24,662         | 13,973   | 14,002         | 7,194   | 10,928  | 5,654   |
| 335207   | Aluminum and aluminum-base alloy.....   | ...do.....                                   | 13,789         | 4,581  | (D)            | (D)              | -              | -   | (D)            | (D)      | (D)            | (D)     | 10,548  | 5,370   |
| 335609   | All other nonferrous metal mill shapes.....                                       | ...do.....                                   | (NA)           | 6,803  | (NA)           | 3,125            | (NA)           | 786   | (NA)           | 2,461    | (NA)           | 431     | 15,675  | 5,147   |

See footnotes at end of table.



TABLE 7A. **Materials by Kind: 1963 and 1958**—Continued

| Code   | Material  | Unit of measure             | 1963  |                             |   |                             |                  |                             |                |                             |   | 1958                        |                |                |
|--|---|-----------------------------|---|-----------------------------|---|-----------------------------|------------------|-----------------------------|----------------|-----------------------------|---|-----------------------------|----------------|----------------|
|  |   |                             | Total   |                             | Establishments with wire drawing department |                             |                  |                             |                |                             | Establishments without wire drawing departments |                             | Quantity       | Delivered cost |
|  |   |                             | Quantity  | Delivered cost<br>(\$1,000) | With rod mill (335711)                      |                             | Without rod mill |                             |                |                             |   |                             |                |                |
|  |   |                             |   |                             | Quantity                                    | Delivered cost<br>(\$1,000) | Quantity         | Delivered cost<br>(\$1,000) | Quantity       | Delivered cost<br>(\$1,000) | Quantity  | Delivered cost<br>(\$1,000) |                |                |
| INDUSTRY 3357.—NONFERROUS WIRE DRAWING, ETC.—Continued |   |                             |   |                             |   |                             |                  |                             |                |                             |   |                             |                |                |
| 335790   | Insulated wire and cable for further processing.....                              | 1,000 lbs. (copper content) | 24,026  | 18,566                      | (D)   | (D)                         | -                | -                           | (D)            | (D)                         | 19,576  | 14,186                      | (NA)           | (NA)           |
| 333121   | Refined unalloyed copper (wire, bar, cathodes, ingot, cakes, slabs, etc.).....    | Short tons                  |   |                             |   |                             |                  |                             |                |                             |   |                             |                |                |
| 334123   | Copper-base alloy raw materials (ingot, billets, shot, waffle, hardeners, etc.)   | .....do.....                | 28,222  | 249,385                     | (D)   | (D)                         | (D)              | (D)                         | (D)            | (D)                         | -   | -                           | 205,344        | 109,690        |
| 999812   | Copper and copper-base alloy scrap  | .....do.....                | (D)   | (D)                         | (D)   | (D)                         | -                | -                           | -              | -                           | -   | -                           | (NA)           | (NA)           |
| 086111   | Natural rubber....  | Long tons                   | 4,601   | 2,934                       | (D)   | (D)                         | -                | -                           | 4,360          | 2,855                       | (D)   | (D)                         | 3,531          | 2,629          |
| 282202   | Synthetic rubber..  | .....do.....                | 46,895  | 26,101                      | 4,556                                       | 2,455                       | -                | -                           | 37,836         | 20,965                      | 4,503   | 2,681                       | 38,580         | 29,411         |
| 282101   | Polyethylene plastics, all forms..  | 1,000 lbs.                  | 198,825   | 57,882                      | 14,588                                      | 4,216                       | -                | -                           | 150,193        | 42,675                      | 34,044  | 10,991                      | 90,058         | 36,906         |
| 282102   | Vinyl plastics, all forms.....  | .....do.....                | 251,201   | 44,865                      | (D)   | (D)                         | (D)              | (D)                         | 180,790        | 30,411                      | 43,275  | 8,967                       | 141,798        | 39,935         |
| 228102   | Cotton yarns.....   | .....do.....                | 12,644  | 9,668                       | (D)   | (D)                         | (D)              | (D)                         | 10,261         | 7,580                       | 1,578   | 1,349                       | 18,042         | 12,640         |
| 970099   | All other materials and components, parts, containers and supplies consumed       | .....do.....                | (X)   | 330,458                     | (X)   | 349,836                     | (X)              | 29,947                      | (X)            | 274,852                     | (X)   | 72,301                      | (X)            | 258,066        |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....             | .....do.....                | (X)   | 41,959                      | (X)   | 2,575                       | (X)              | 1,257                       | (X)            | 16,808                      | (X)   | 21,319                      | (X)            | 18,476         |
|  |   |                             | Material  |                             |   |                             | 1963             |                             | 1958           |                             |   |                             |                |                |
|  |   |                             |   |                             |   |                             | Quantity         |                             | Delivered cost |                             | Quantity  |                             | Delivered cost |                |
|  |   |                             |   |                             |   |                             | (short tons)     |                             | (\$1,000)      |                             | (short tons)                                    |                             | (\$1,000)      |                |
| INDUSTRY 3361.—ALUMINUM CASTINGS                       |   |                             |   |                             |   |                             |                  |                             |                |                             |   |                             |                |                |
|  |   |                             |   |                             |   |                             | (X)              |                             | 262,003        |                             | (X)   |                             | 173,576        |                |
| 331051   | Pig iron (excluding silvery iron).....  |                             |   |                             |   |                             | 2,904            |                             | 173            |                             | 1,390   |                             | 87             |                |
|  |   |                             | Nonferrous metal, alloys, and ferroalloys (ingot, pig, shot, etc.): |                             |   |                             |                  |                             |                |                             |   |                             |                |                |
| 333404   | Aluminum, unalloyed.....  |                             |   |                             |   |                             | 21,977           |                             | 10,128         |                             | 32,713  |                             | 15,234         |                |
| 333405   | Aluminum-base alloys.....   |                             |   |                             |   |                             | 338,545          |                             | 147,727        |                             | 164,110   |                             | 77,211         |                |
| 333121   | Copper, unalloyed (cathodes, ingot, cakes, slabs, etc.).....                      |                             |   |                             |   |                             | 727              |                             | 409            |                             | 891   |                             | 466            |                |
| 334123   | Copper-base alloy raw materials (ingot, billets, shots, waffle, hardeners, etc.)  |                             |   |                             |   |                             | 8,652            |                             | 5,333          |                             | 8,083   |                             | 4,329          |                |
| 333348   | Zinc and zinc-base alloys.....  |                             |   |                             |   |                             | 49,639           |                             | 13,831         |                             | 30,522  |                             | 7,610          |                |
| 333973   | Magnesium and magnesium-base alloys.....  |                             |   |                             |   |                             | 3,937            |                             | 2,421          |                             | 2,059   |                             | 1,548          |                |
| 331312   | Ferromanganese.....   |                             |   |                             |   |                             | 722              |                             | 314            |                             | 664   |                             | 353            |                |
| 331309   | Other ferroalloys, including silvery iron.....                                    |                             |   |                             |   |                             |                  |                             |                |                             |   |                             |                |                |
|  |   |                             | Scrap (purchased scrap only):                                       |                             |   |                             |                  |                             |                |                             |   |                             |                |                |
| 999811   | Iron and steel.....   |                             |   |                             |   |                             | 2,066            |                             | 112            |                             | 1,284   |                             | 69             |                |
| 999808   | Aluminum and aluminum-base alloy.....   |                             |   |                             |   |                             | 18,674           |                             | 5,596          |                             | 35,004  |                             | 10,733         |                |
| 999812   | Copper and copper-base alloy.....   |                             |   |                             |   |                             | 553              |                             | 271            |                             | 1,567   |                             | 556            |                |
| 970099   | All other materials and components, parts, containers, and supplies consumed..... |                             |   |                             |   |                             | (X)              |                             | 52,056         |                             | (X)   |                             | 32,137         |                |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....             |                             |   |                             |   |                             | (X)              |                             | 23,632         |                             | (X)   |                             | 23,243         |                |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | 1963         |                | 1958         |                |
|---|---|--------------|----------------|--------------|----------------|
|   |   | Quantity     | Delivered cost | Quantity     | Delivered cost |
|   |   | (short tons) | (\$1,000)      | (short tons) | (\$1,000)      |
| INDUSTRY 3362.—BRASS, BRONZE, COPPER CASTINGS |   |              |                |              |                |
|   | Materials, parts, containers, and supplies, total.....                            | (X)          | 132,061        | (X)          | 101,504        |
| 331051  | Pig iron (excluding silvery iron).....  | 3,878        | 274            | 1,466        | 100            |
|   | Nonferrous metal alloys and ferroalloys (ingot, pig, shot, etc.):                 |              |                |              |                |
| 333404  | Aluminum, unalloyed.....  | 1,582        | 739            | 854          | 401            |
| 333405  | Aluminum-base alloys.....   | 8,107        | 3,933          | 7,342        | 3,432          |
| 333121  | Copper, unalloyed (cathodes, ingot, cakes, slabs).....                            | 13,180       | 8,082          | 9,387        | 5,029          |
| 334123  | Copper-base alloy raw materials (ingot, billets, shot, waffle, hardeners, etc.)   | 73,411       | 43,530         | 60,706       | 31,956         |
| 333348  | Zinc and zinc-base alloys.....  | 1,308        | 321            | 826          | 203            |
| 333973  | Magnesium and magnesium-base alloys.....  | 47           | 31             | -            | -              |
| 331312  | Ferromanganese.....   |              |                |              |                |
| 331309  | Other ferroalloys, including silvery iron.....                                    | 3,280        | 1,921          | (NA)         | 391            |
|   | Scrap (purchased scrap only):   |              |                |              |                |
| 999811  | Iron and steel.....   | 6,400        | 324            | 2,350        | 100            |
| 999808  | Aluminum and aluminum-base alloy.....   | 197          | 69             | 131          | 43             |
| 999812  | Copper and copper-base alloy.....   | 52,297       | 26,050         | 55,590       | 25,111         |
| 970099  | All other materials and components, parts, containers, and supplies consumed..... | (X)          | 25,914         | (X)          | 17,937         |
| 976000  | Materials, parts, components, and supplies, n.s.k. <sup>3</sup> .....             | (X)          | 20,873         | (X)          | 16,801         |
| INDUSTRY 3369.—NONFERROUS CASTINGS, N.E.C.    |   |              |                |              |                |
|   | Materials, parts, containers, and supplies, total.....                            | (X)          | 104,619        | (X)          | 80,438         |
| 331051  | Pig iron (excluding silvery iron).....  | (D)          | (D)            | -            | -              |
|   | Nonferrous metal alloys and ferroalloys (ingot, pig, shot, etc.):                 |              |                |              |                |
| 333404  | Aluminum, unalloyed.....  |              |                | 4,321        | 1,888          |
| 333405  | Aluminum-base alloy.....  | 24,451       | 11,563         | 15,637       | 6,465          |
| 333121  | Copper, unalloyed (cathodes, ingot, cakes, slabs, etc.).....                      |              |                | 188          | 112            |
| 334123  | Copper-base alloy raw materials (ingot, billets, shot, waffle, hardeners, etc.)   | 1,724        | 1,272          | 455          | 223            |
| 333348  | Zinc and zinc-base alloys.....  | 132,087      | 35,003         | 91,418       | 22,953         |
| 333973  | Magnesium and magnesium-base alloys.....  | 5,187        | 3,379          | 8,968        | 5,754          |
| 331312  | Ferromanganese.....   |              |                |              |                |
| 331309  | Other ferroalloys, including silvery iron.....                                    | 3,558        | 1,015          | -            | -              |
|   | Scrap (purchased scrap only):   |              |                |              |                |
| 999811  | Iron and steel.....   | (D)          | (D)            | -            | -              |
| 999808  | Aluminum and aluminum-base alloy.....   | 63           | 21             | -            | -              |
| 999812  | Copper and copper-base alloy.....   | (D)          | (D)            | -            | -              |
| 970099  | All other materials and components, parts, containers, and supplies consumed..... | (X)          | 36,559         | (X)          | 31,209         |
| 976000  | Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....             | (X)          | 15,807         | (X)          | 11,834         |

Standard Notes: -Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Data exclude tonnages of nonferrous materials processed on a toll basis by establishments classified in industries 3351, 3352, and 3356. Most of the material involved in toll processing is owned by establishments classified in other industries, principally industry 3357, Nonferrous Wire Drawing etc. As table 6A shows, unalloyed copper rod and bar (product code 3351211) is by far the most important mill product produced on a toll basis. Relatively small quantities of aluminum and other nonferrous metals are produced on toll.

<sup>2</sup>See footnote 4, table 1 for subindustry definitions.

<sup>3</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report cost of individual materials on "standard forms."



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Copper rolling and drawing (SIC 3351) | Aluminum rolling and drawing (SIC 3352) | Rolling and drawing, n.e.c. (SIC 3356) | Nonferrous wire drawing, etc. (SIC 3357) | Aluminum castings (SIC 3361) | Brass, bronze, copper castings (SIC 3362) | Nonferrous casting, n.e.c. (SIC 3369) |
|---|---------------------------------------|---|--|--|------------------------------|---|---------------------------------------|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 25,536                                | 38,791                                  | 10,363                                 | 21,730                                   | 15,327                       | 6,558                                     | 6,408                                 |
| Total cost of purchased fuels.....do....  | 11,301                                | 19,047                                  | 4,656                                  | 6,581                                    | 8,706                        | 3,589                                     | 3,115                                 |
| Bituminous coal, lignite, and anthracite:   |                                       |   |  |  |                              |   |                                       |
| Quantity.....1,000 short tons..   | 260                                   | 245                                     | 38                                     | 122                                      | 32                           | (S)                                       | 19                                    |
| Cost.....\$1,000..  | 1,674                                 | 1,601                                   | 233                                    | 1,005                                    | 173                          | (S)                                       | 91                                    |
| Coke and breeze:  |                                       |   |  |  |                              |   |                                       |
| Quantity.....1,000 short tons..   | (S)                                   | (S)                                     | 3                                      | -  | (S)                          | (S)                                       | (S)                                   |
| Cost.....\$1,000..  | (S)                                   | (S)                                     | 121                                    | -  | (S)                          | (S)                                       | (S)                                   |
| Fuel oil (distillate and residual):   |                                       |   |  |  |                              |   |                                       |
| Quantity.....1,000 barrels of 42 gallons..  | 1,156                                 | 601                                     | 117                                    | 964                                      | 231                          | 204                                       | 116                                   |
| Cost.....\$1,000..  | 3,355                                 | 2,211                                   | 436                                    | 2,734                                    | 1,083                        | 931                                       | 457                                   |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |                                       |   |  |  |                              |   |                                       |
| Quantity.....million cu.ft..  | 8,887                                 | 28,903                                  | 6,380                                  | 3,640                                    | 10,935                       | 3,319                                     | 3,435                                 |
| Cost.....\$1,000..  | 5,861                                 | 13,599                                  | 3,528                                  | 2,310                                    | 6,564                        | 2,258                                     | 2,203                                 |
| Other fuels.....do....  | (S)                                   | (S)                                     | 338                                    | 532                                      | (S)                          | 239                                       | 268                                   |
| Electric energy:  |                                       |   |  |  |                              |   |                                       |
| Purchased:  |                                       |   |  |  |                              |   |                                       |
| Quantity.....million kw.-hrs..  | 1,277                                 | 2,496                                   | 593                                    | 1,221                                    | 538                          | 172                                       | 208                                   |
| Cost.....\$1,000..  | 14,235                                | 19,744                                  | 5,707                                  | 15,149                                   | 6,621                        | 2,969                                     | 3,293                                 |
| Generated less sold.....million kw.-hrs..   | 220                                   | 7                                       | (S)                                    | (S)                                      | -                            | -   | -                                     |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 992                                   | 2,007                                   | 315                                    | 629                                      | 211                          | 119                                       | 97                                    |
| Prime movers, total.....do....  | 141                                   | 209                                     | 19                                     | 49                                       | 17                           | 15  | 5                                     |
| Driving generators.....do....   | 106                                   | 12                                      | 7                                      | 25                                       | 1                            | 2   | 3                                     |
| Not driving generators.....do....   | 35                                    | 197                                     | 12                                     | 24                                       | 16                           | 13  | 2                                     |
| Electric motors, total.....do....   | 948                                   | 1,802                                   | 298                                    | 580                                      | 194                          | 105                                       | 92                                    |
| Driven by purchased energy.....do....   | 851                                   | 1,797                                   | 296                                    | 580                                      | 194                          | 105                                       | 92                                    |
| Driven by energy generated at establishment.....do....  | 96                                    | 5                                       | 2                                      | -  | -                            | -   | -                                     |
| Aggregate horsepower per 100 production workers.....  | 3,061                                 | 4,690                                   | 2,438                                  | 1,346                                    | 645                          | 813                                       | 734                                   |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3351-                          | COPPER ROLLING AND DRAWING  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 112                     | 38,949         | 260,320           | 31,481             | 65,746            | 200,171         | 478,393  | 1,188,548                   | 1,657,526                    | 43,462                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 77                      | 23,095         | 156,233           | 18,900             | 39,021            | 121,933         | 299,665  | 749,042                     | 1,044,987                    | 15,275                              |
|                                | 75-89% specialization.....  | 16                      | 9,898          | 67,063            | 7,943              | 16,896            | 51,697          | 115,445  | 326,219                     | 438,550                      | 17,855                              |
| 33511                          | Copper and copper-base alloy wire, bare and tinned for purposes other than electrical transmission (primary product class of estab.)..... | 12                      | 1,346          | 8,747             | 1,055              | 2,194             | 6,706           | 15,407   | 33,244                      | 49,354                       | 630                                 |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 75% or more specialization....  | 7                       | 115            | 892               | 91                 | 205               | 534             | 1,744  | 3,942                       | 5,657                        | 78                                  |
| 33512                          | Rolled, drawn and extruded copper and copper-base alloy mill products (primary product class of estab.).....                              | 93                      | 37,603         | 251,573           | 30,426             | 63,552            | 193,465         | 482,986  | 1,155,304                   | 1,608,172                    | 42,832                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 65                      | 20,331         | 137,830           | 16,677             | 34,621            | 107,636         | 270,746  | 684,367                     | 950,879                      | 13,584                              |
|                                | 75-89% specialization.....  | 13                      | 8,624          | 58,283            | 6,996              | 14,759            | 45,062          | 95,197   | 279,271                     | 371,065                      | 17,805                              |
| 3351-21                        | ESTABLISHMENTS WITH CASTING DEPARTMENT <sup>1</sup>   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire subindustry.....   | 36                      | 25,752         | 174,972           | 20,774             | 43,765            | 135,769         | 305,113  | 687,401                     | 985,609                      | 26,965                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 23                      | 14,859         | 101,454           | 12,342             | 25,584            | 81,621          | 187,245  | 404,604                     | 589,657                      | 8,734                               |
|                                | 75-89% specialization.....  | 8                       | 7,113          | 49,157            | 5,647              | 12,193            | 37,541          | 79,684   | 212,513                     | 289,247                      | 16,209                              |
| 3351-22                        | ESTABLISHMENTS WITHOUT CASTING DEPARTMENT <sup>1</sup>  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire subindustry.....   | 76                      | 13,197         | 85,348            | 10,707             | 21,981            | 64,402          | 173,280  | 501,147                     | 671,917                      | 16,497                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 54                      | 8,236          | 54,779            | 6,558              | 13,437            | 40,312          | 112,420  | 344,438                     | 455,330                      | 6,541                               |
|                                | 75-89% specialization.....  | 8                       | 2,785          | 17,906            | 2,296              | 4,703             | 14,156          | 35,761   | 113,706                     | 149,303                      | 1,646                               |
| 3352-                          | ALUMINUM ROLLING AND DRAWING  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 212                     | 54,263         | 376,647           | 42,750             | 89,868            | 278,469         | 721,171  | 1,524,841                   | 2,196,439                    | 81,282                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 172                     | 33,895         | 236,582           | 26,247             | 54,844            | 170,078         | 435,582  | 1,009,245                   | 1,417,674                    | 45,506                              |
|                                | 75-89% specialization.....  | 10                      | 11,202         | 81,584            | 9,183              | 19,224            | 64,011          | 152,371  | 287,176                     | 420,867                      | 28,578                              |
| 33522                          | Aluminum plate and sheet (including foil stock) (primary product class of estab.).....  | 25                      | 23,711         | 175,847           | 19,218             | 40,596            | 136,112         | 342,242  | 781,305                     | 1,083,806                    | 54,867                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 13                      | 9,795          | 75,780            | 7,743              | 16,728            | 57,220          | 160,115  | 373,390                     | 516,333                      | 21,559                              |
|                                | 75-89% specialization.....  | 5                       | 5,004          | 36,612            | 4,480              | 9,660             | 31,533          | 80,210   | 160,540                     | 225,755                      | 16,907                              |
| 33523                          | Plain aluminum foil (primary product class of estab.).....  | 13                      | 5,161          | 36,478            | 3,817              | 7,919             | 23,990          | 89,620   | 141,856                     | 229,263                      | 3,555                               |
| 33524                          | Rolled aluminum rod, bar (including continuous cast) and structural shapes (primary product class of estab.).....                         | 6                       | 4,246          | 29,974            | 3,229              | 6,540             | 21,389          | 54,511   | 179,020                     | 231,902                      | 4,672                               |
| 33525                          | Extruded aluminum rod, bar, and other extruded shapes, except tube (primary product class of estab.).....                                 | 96                      | 18,383         | 117,437           | 14,365             | 30,387            | 84,440          | 202,053  | 296,113                     | 493,390                      | 14,798                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 68                      | 6,444          | 36,203            | 5,089              | 10,768            | 24,855          | 72,680   | 120,322                     | 186,815                      | 5,117                               |
|                                | 75-89% specialization.....  | 11                      | 2,894          | 19,106            | 2,188              | 4,587             | 13,412          | 29,612   | 54,428                      | 85,792                       | 3,322                               |
| 33526                          | Aluminum tube and other rolled, drawn or extruded mill products (primary product class of estab.).....                                    | 18                      | 983            | 6,067             | 781                | 1,682             | 4,262           | 12,787   | 33,807                      | 46,404                       | 919                                 |
| 33528                          | Aluminum extrusion billet (primary product class of estab.)....   | 5                       | 226            | 1,215             | 184                | 362               | 887             | 3,069  | 13,963                      | 16,813                       | 186                                 |

<sup>1</sup> See footnotes at end of table.



TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3356-                          | ROLLING AND DRAWING, N.E.C.  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 125                     | 17,375         | 117,454           | 12,275             | 25,367            | 74,052          | 250,589  | 405,011                     | 640,962                      | 22,154                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 96                      | 8,782          | 60,179            | 6,269              | 12,776            | 38,402          | 146,455  | 297,955                     | 430,715                      | 16,456                              |
|                                | 75-89% specialization.....   | 7                       | 875            | 5,362             | 593                | 977               | 3,262           | 7,763  | 8,166                       | 15,824                       | 380                                 |
| 3357-                          | NONFERROUS WIRE DRAWING, ETC.  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 299                     | 56,418         | 339,935           | 43,905             | 90,368            | 240,904         | 677,535  | 1,452,095                   | 2,117,943                    | 44,478                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 254                     | 45,395         | 268,942           | 35,442             | 72,872            | 191,550         | 534,956  | 1,110,200                   | 1,636,602                    | 34,080                              |
|                                | 75-89% specialization.....   | 16                      | 2,735          | 17,343            | 2,098              | 4,323             | 12,053          | 31,855   | 87,365                      | 117,618                      | 2,833                               |
| 33571                          | Aluminum and aluminum-base alloy wire and cable (including ACSR) (primary product class of estab.).....  | 8                       | 1,115          | 7,946             | 846                | 1,701             | 5,418           | 9,893  | 59,502                      | 67,507                       | 1,999                               |
| 33572                          | Copper and copper-base alloy wire (including strand and cable), bare and tinned, for electrical transmission (primary product class of estab.).. | 27                      | 3,461          | 21,438            | 2,853              | 6,071             | 16,366          | 46,915   | 216,687                     | 262,931                      | 2,050                               |
| 33573                          | Other bare nonferrous metal wire (primary product class of estab.).....  | 11                      | 1,497          | 9,966             | 1,102              | 2,151             | 6,464           | 17,270   | 19,243                      | 36,903                       | 3,313                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 7                       | 416            | 2,190             | 361                | 703               | 1,788           | 4,368  | 8,839                       | 13,131                       | 275                                 |
| 33574                          | Communication wire and cable (primary product class of estab.).....  | 70                      | 20,821         | 126,833           | 16,286             | 33,689            | 90,865          | 283,195  | 466,274                     | 753,617                      | 18,243                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 36                      | 7,587          | 50,395            | 5,683              | 11,963            | 34,518          | 121,617  | 217,143                     | 342,387                      | 8,476                               |
|                                | 75-89% specialization.....   | 5                       | 1,061          | 6,469             | 696                | 1,483             | 3,730           | 9,791  | 15,516                      | 25,340                       | 454                                 |
| 33575                          | Nonferrous wire cloth and other woven wire products (primary product class of estab.).....   | 8                       | 1,493          | 9,306             | 1,308              | 2,790             | 7,177           | 16,014   | 9,977                       | 26,091                       | 1,576                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 4                       | 623            | 4,734             | 540                | 1,099             | 3,494           | 8,219  | 3,903                       | 12,361                       | 1,030                               |
| 33576                          | Appliance wire and cord, and flexible cord sets (primary product class of estab.).....   | 23                      | 3,245          | 15,245            | 2,734              | 5,320             | 11,586          | 28,172   | 46,083                      | 72,753                       | 2,064                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 15                      | 1,543          | 7,104             | 1,309              | 2,660             | 5,334           | 12,558   | 21,568                      | 33,248                       | 641                                 |
| 33577                          | Magnet wire (primary product class of estab.).....   | 26                      | 4,660          | 31,630            | 3,593              | 7,712             | 23,768          | 61,658   | 144,897                     | 205,477                      | 3,025                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 20                      | 3,775          | 25,573            | 2,872              | 6,113             | 19,079          | 52,066   | 122,771                     | 173,902                      | 2,541                               |
| 33578                          | Power wire and cable (primary product class of estab.).....  | 16                      | 6,084          | 38,065            | 4,326              | 8,692             | 24,806          | 67,301   | 109,055                     | 173,846                      | 4,357                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 75% or more specialization..   | 5                       | 1,159          | 8,404             | 869                | 1,863             | 6,097           | 15,525   | 25,971                      | 41,798                       | 1,338                               |
| 33579                          | Other insulated wire and cable, n.e.c. (primary product class of estab.).....  | 63                      | 12,921         | 73,172            | 10,041             | 20,551            | 50,570          | 137,110  | 362,341                     | 492,931                      | 7,096                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 31                      | 3,061          | 15,863            | 2,544              | 5,076             | 11,505          | 38,228   | 95,849                      | 131,392                      | 1,435                               |
|                                | 75-89% specialization.....   | 9                       | 1,640          | 9,356             | 1,245              | 2,553             | 6,011           | 13,280   | 49,390                      | 66,077                       | 513                                 |
| 3357-11                        | WIRE DRAWING ESTABLISHMENTS WITH ROD MILL  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire subindustry.....  | 32                      | 9,258          | 57,042            | 7,537              | 15,672            | 43,801          | 133,749  | 368,424                     | 498,611                      | 7,643                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization   | 21                      | 5,062          | 29,041            | 4,234              | 8,838             | 22,777          | 68,025   | 128,847                     | 195,264                      | 4,382                               |
|                                | 75-89% specialization.....   | 4                       | 1,220          | 7,365             | 1,014              | 2,060             | 5,945           | 18,368   | 55,170                      | 72,504                       | 1,800                               |
| 33574-11                       | Communication wire and cable (primary product class of estab.).....  | 5                       | 3,016          | 17,788            | 2,495              | 5,368             | 13,816          | 40,063   | 81,542                      | 121,682                      | 2,162                               |

See footnotes at end of table.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
|                                | WIRE DRAWING ESTABLISHMENTS WITH NEITHER ROD MILL NOR INSULATING DEPARTMENT  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
| 3357-12                        | Entire subindustry.....  | 41                      | 4,359          | 27,807            | 3,524              | 7,382             | 19,624          | 50,923   | 98,082                      | 147,864                      | 6,312                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization   | 31                      | 2,545          | 16,402            | 2,143              | 4,465             | 12,101          | 30,787   | 81,349                      | 111,341                      | 2,855                               |
| 33571-12                       | Aluminum and aluminum-base alloy wire and cable (including ACSR) (primary product class of estab.).....  | 5                       | 450            | 3,257             | 337                | 707               | 2,092           | 6,508  | 26,883                      | 32,277                       | 1,174                               |
| 33572-12                       | Copper and copper-base alloy wire (including strand and cable) bare and tinned, for electrical transmission (primary product class of estab.)..... | 17                      | 1,397          | 8,190             | 1,160              | 2,453             | 6,009           | 14,786   | 51,706                      | 66,643                       | 584                                 |
| 33573-12                       | Other bare nonferrous metal wire (primary product class of estab.).....  | 7                       | 863            | 6,345             | 582                | 1,135             | 3,834           | 11,357   | 6,538                       | 17,813                       | 3,076                               |
| 33575-12                       | Nonferrous wire cloth and other woven wire products (primary product class of estab.).....   | 8                       | 1,493          | 9,306             | 1,308              | 2,790             | 7,177           | 16,014   | 9,987                       | 26,091                       | 1,441                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 4                       | 623            | 4,734             | 540                | 1,099             | 3,494           | 8,219  | 3,903                       | 12,361                       | 895                                 |
| 3357-13                        | WIRE DRAWING ESTABLISHMENTS WITHOUT ROD MILL BUT WITH INSULATING DEPARTMENT  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire subindustry.....  | 72                      | 30,347         | 187,718           | 23,241             | 47,731            | 132,664         | 350,789  | 735,320                     | 1,083,475                    | 24,064                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.  | 66                      | 26,656         | 164,878           | 20,317             | 41,813            | 115,977         | 312,768  | 670,347                     | 981,380                      | 21,346                              |
| 33574-13                       | Communication wire and cable (primary product class of estab.).....  | 19                      | 11,713         | 77,566            | 9,114              | 18,920            | 56,690          | 174,147  | 284,583                     | 462,648                      | 12,668                              |
| 33577-13                       | Magnet wire (primary product class of estab.).....   | 11                      | 1,831          | 12,030            | 1,445              | 3,122             | 9,171           | 17,603   | 50,243                      | 67,840                       | 1,035                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 7                       | 1,020          | 6,575             | 787                | 1,673             | 4,873           | 9,242  | 29,639                      | 38,974                       | 693                                 |
| 33578-13                       | Power wire and cable (primary product class of estab.).....  | 11                      | 5,582          | 34,836            | 3,907              | 7,833             | 22,393          | 59,354   | 102,155                     | 159,320                      | 4,217                               |
| 33579-13                       | Other insulated wire and cable, n.e.c. (primary product class of estab.).....  | 21                      | 7,956          | 45,225            | 6,156              | 12,848            | 31,151          | 75,456   | 224,459                     | 298,836                      | 4,169                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 7                       | 1,277          | 6,224             | 1,129              | 2,369             | 5,029           | 18,176   | 56,127                      | 71,610                       | 746                                 |
|                                | 75-89% specialization.....   | 4                       | 1,330          | 7,413             | 983                | 2,041             | 4,819           | 9,791  | 45,264                      | 58,447                       | 437                                 |
| 3357-14                        | ESTABLISHMENTS WITHOUT WIRE DRAWING DEPARTMENT   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire subindustry.....  | 154                     | 12,454         | 67,368            | 9,603              | 19,583            | 44,815          | 142,074  | 250,269                     | 387,993                      | 6,330                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.  | 136                     | 11,132         | 58,621            | 8,748              | 17,756            | 40,695          | 123,376  | 229,657                     | 348,617                      | 5,362                               |
|                                | 75-89% specialization.....   | 7                       | 470            | 3,535             | 293                | 588               | 1,592           | 7,858  | 7,107                       | 14,607                       | 444                                 |
| 33574-14                       | Communication wire and cable (primary product class of estab.).....  | 46                      | 6,092          | 31,479            | 4,677              | 9,175             | 20,310          | 68,985   | 100,149                     | 169,287                      | 3,419                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 27                      | 2,756          | 14,303            | 2,113              | 4,349             | 9,386           | 35,596   | 54,993                      | 89,529                       | 1,604                               |
| 33576-14                       | Appliance wire and cord and flexible cord sets (primary product class of estab.).....  | 17                      | 1,129          | 5,020             | 965                | 1,967             | 3,715           | 9,016  | 17,562                      | 26,158                       | 519                                 |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 13                      | 970            | 4,281             | 821                | 1,613             | 3,105           | 7,566  | 14,867                      | 21,922                       | 417                                 |
| 33578-14                       | Power wire and cable (primary product class of estab.).....  | 5                       | 502            | 3,229             | 419                | 859               | 2,413           | 7,947  | 6,900                       | 14,526                       | 140                                 |

See footnotes at end of table.



TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3361                           | ALUMINUM CASTINGS                                      |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....                                   | 954                     | 36,216         | 222,771           | 30,746             | 63,432            | 174,155         | 343,863  | 299,398                     | 640,193                      | 18,374                              |
|                                | Establishments with—                                   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.                            | 643                     | 16,125         | 96,130            | 13,722             | 28,440            | 75,600          | 150,848  | 156,079                     | 305,691                      | 8,815                               |
|                                | 75-89% specialization.....                             | 93                      | 6,657          | 46,547            | 5,597              | 11,737            | 36,822          | 61,678   | 56,111                      | 117,533                      | 5,363                               |
| 3362                           | BRASS, BRONZE, COPPER CASTINGS                         |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....                                   | 549                     | 15,341         | 86,350            | 12,835             | 26,052            | 65,095          | 144,092  | 144,433                     | 287,534                      | 5,394                               |
|                                | Establishments with—                                   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.                            | 306                     | 7,655          | 41,445            | 6,408              | 12,880            | 31,822          | 74,207   | 82,449                      | 156,081                      | 2,870                               |
|                                | 75-89% specialization.....                             | 81                      | 1,954          | 10,759            | 1,622              | 3,228             | 8,018           | 16,251   | 17,143                      | 33,358                       | 623                                 |
| 3369                           | NONFERROUS CASTINGS, N.E.C.                            |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....                                   | 391                     | 17,686         | 102,929           | 14,845             | 30,320            | 78,447          | 168,530  | 134,318                     | 302,731                      | 6,803                               |
|                                | Establishments with—                                   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.                            | 236                     | 6,568          | 36,553            | 5,536              | 11,171            | 27,582          | 60,567   | 50,016                      | 110,447                      | 2,691                               |
|                                | 75-89% specialization.....                             | 47                      | 4,448          | 26,582            | 3,766              | 7,840             | 20,946          | 42,793   | 31,666                      | 74,701                       | 1,677                               |

n.e.c. Not elsewhere classified.

<sup>1</sup>See footnote 4; table 1 for subindustry definition.

TABLE 9A. Departmental Operations, by Subindustry: 1963

| Item   | Copper rolling and drawing industry (SIC 3351)   |   |  |  |   |  |                               |                            |  |        |
|--|--|---|--|--|---|--|-------------------------------|----------------------------|--|--------|
|  | Man-hours of production workers (1,000)          |   |  | Production worker wages (\$1,000)              |   |  |                               |                            |  |        |
|  | Total  | Establishments with casting department <sup>1</sup>       | Establishments without casting department <sup>1</sup> | Total  | Establishments with casting department <sup>1</sup>       | Establishments without casting department <sup>1</sup> |                               |                            |  |        |
| Total, all departments.....  | 65,746   | 43,765  | 21,981   | 200,171  | 135,769   | 64,402   |                               |                            |  |        |
| Casting (except foundry).....  | 3,907  | 3,907   | -  | 12,896   | 12,896  | -  |                               |                            |  |        |
| Rod mill.....  | 5,397  | 3,377   | 2,020  | 15,446   | 9,456   | 5,990  |                               |                            |  |        |
| Wire mill (including stranding mill).....                                | 2,124  | 1,530   | 594  | 6,494  | 4,448   | 2,046  |                               |                            |  |        |
| Tube mill.....   | 14,905   | 9,117   | 5,788  | 44,232   | 27,450  | 16,782   |                               |                            |  |        |
| Flat products mill.....  | 11,452   | 7,520   | 3,932  | 34,546   | 22,999  | 11,547   |                               |                            |  |        |
| Foundry (nonferrous).....  | 1,073  | 473   | 600  | 3,708  | 1,838   | 1,870  |                               |                            |  |        |
| Machine shop and tool and die shop.....                                  | 3,927  | 3,017   | 910  | 12,769   | 9,930   | 2,839  |                               |                            |  |        |
| Heat treating and annealing.....   | 890  | 603   | 287  | 2,728  | 1,929   | 799  |                               |                            |  |        |
| Other manufacturing or fabricating departments.....                      | 4,449  | 2,858   | 1,591  | 12,117   | 7,968   | 4,149  |                               |                            |  |        |
| All other, including service or auxiliary operations                     | 11,888   | 9,559   | 2,329  | 37,515   | 29,897  | 7,618  |                               |                            |  |        |
| Not specified.....   | 5,734  | 1,804   | 3,930  | 17,720   | 6,958   | 10,762   |                               |                            |  |        |
|  | Aluminum rolling and drawing industry (SIC 3352) |   |  |  |   |  |                               |                            |  |        |
|  | Man-hours of production workers (1,000)          |   |  | Production worker wages (\$1,000)              |   |  |                               |                            |  |        |
|  | Total  | Establishments operated by primary (integrated) producers | Establishments operated by nonintegrated producers     | Total  | Establishments operated by primary (integrated) producers | Establishments operated by nonintegrated producers     |                               |                            |  |        |
| Total, all departments.....  | 89,868   | 66,472  | 23,396   | 278,469  | 221,720   | 56,749   |                               |                            |  |        |
| Melting (except foundry).....  | 4,925  | 4,377   | 548  | 17,287   | 16,061  | 1,226  |                               |                            |  |        |
| Sheet and plate mill.....  | 17,470   | 15,870  | 1,600  | 56,945   | 52,323  | 4,622  |                               |                            |  |        |
| Foil rolling mill (excluding conversion or subsequent operations).....   | 3,534  | 3,147   | 387  | 10,198   | 9,055   | 1,143  |                               |                            |  |        |
| Extrusion department (rod, bar, tube, pipe, etc.)...                     | 14,410   | 8,072   | 6,338  | 43,593   | 28,650  | 14,943   |                               |                            |  |        |
| Tube mill (drawn and welded).....  | 2,662  | 1,866   | 796  | 7,617  | 5,864   | 1,753  |                               |                            |  |        |
| Wire, rod and bar mill (excluding extruded).....                         | 2,784  |   |  | 8,598  |   |  |                               |                            |  |        |
| Electrical conductor department (ACSR, insulated, etc.).....             |  | 3,649   | 2,059  |  | 11,812  | 4,666  |                               |                            |  |        |
| Forging and import extrusions.....                                       | 2,924  |   |  | 7,880  |   |  |                               |                            |  |        |
| Foundry (nonferrous).....  |  |   |  |  |   |  |                               |                            |  |        |
| Machine shop and tool and die shop.....                                  | 3,953  | 3,786   | 167  | 13,821   | 13,362  | 459  |                               |                            |  |        |
| Other manufacturing or fabricating departments.....                      | 6,307  | 4,978   | 1,329  | 20,511   | 17,022  | 3,489  |                               |                            |  |        |
| All other, including service or auxiliary operations                     | 16,065   | 14,627  | 1,438  | 51,854   | 48,272  | 3,582  |                               |                            |  |        |
| Not specified.....   | 14,834   | 6,100   | 8,734  | 40,165   | 19,299  | 20,866   |                               |                            |  |        |
|  | Wire drawing, etc., industry (SIC 3357)          |   |  |  |   |  |                               |                            |  |        |
|  | Man-hours of production workers (1,000)          |   |  |  | Production worker wages (\$1,000)                         |  |                               |                            |  |        |
| Total  | Establishments with wire drawing department      |   |  | Establishments without wire drawing department | Total   | Establishments with wire drawing department            |                               |                            | Establishments without wire drawing department |        |
|  | With rod mill                                    | Without rod mill  |  |  |   | With rod mill  | Without rod mill              |                            |  |        |
|  |  | Without insulating department                             | With insulating department                             |  |   |  | Without insulating department | With insulating department |  |        |
| Total, all departments.....  | 90,368   | 15,672  | 7,382  | 47,731   | 19,583  | 240,904  | 43,801                        | 19,624                     | 132,664  | 44,815 |
| Rod mill.....  | 716  | 716   | -  | -  | -   | 2,027  | 2,027                         | -                          | -  | -      |
| Wire drawing and stranding mill.....                                     | 10,072   | 2,043   | 2,934  | 5,095  | -   | 27,744   | 5,646                         | 7,829                      | 14,269   | -      |
| Insulating and cabling of wire and cable, including sheathing.....       | 34,824   | 4,128   | -  | 19,036   | 11,660  | 94,929   | 12,048                        | -                          | 56,401   | 26,480 |
| Electroplating, galvanizing, heat treating and annealing.....            | 767  | 256   | 99   | 412  | -   | 2,061  | 613                           | 239                        | 1,209  | -      |
| Machine shop and tool and die shop.....                                  | 4,688  | 994   | 183  | 3,101  | 410   | 13,523   | 2,773                         | 511                        | 9,145  | 1,094  |
| Other manufacturing or fabricating departments, including annealing..... | 14,613   | 1,686   | 1,448  | 8,793  | 2,686   | 33,099   | 3,440                         | 4,074                      | 20,844   | 4,741  |
| All other, including service or auxiliary operations                     | 16,782   | 3,768   | 443  | 10,694   | 1,877   | 45,519   | 10,774                        | 997                        | 29,375   | 4,373  |
| Not specified.....   | 7,906  | 2,081   | 2,275  | 600  | 2,950   | 22,002   | 6,480                         | 5,974                      | 1,421  | 8,127  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>See footnote 4, table 1 in subindustry definitions.

<sup>2</sup>See footnote 5, table 1 in subindustry definitions.



TABLE 9B. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations                       | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|---|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|   | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|   |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3361.—ALUMINUM CASTINGS              |                          |   |         |            |                                       |   |         |            |
| Machine shop.....                             | 124                      | 41  | 60      | 23         | 2,207                                 | 68  | 597     | 1,542      |
| Foundry pattern shop.....                     | 97                       | 66  | 24      | 7          | 679                                   | 126                                       | 190     | 363        |
| INDUSTRY 3362.—BRASS, BRONZE, COPPER CASTINGS |                          |   |         |            |                                       |   |         |            |
| Machine shop.....                             | 93                       | 34  | 44      | 15         | 1,447                                 | 79  | 395     | 973        |
| Foundry pattern shop.....                     | 64                       | 52  | 12      | -          | 184                                   | 88  | 96      | -          |
| INDUSTRY 3369.—NONFERROUS CASTINGS, N.E.C.    |                          |   |         |            |                                       |   |         |            |
| Machine shop.....                             | 66                       | 35  | 20      | 11         | 690                                   | 68  | 189     | 433        |
| Foundry pattern shop.....                     | 18                       | 10  | 7       | 1          | 108                                   | 23  | (D)     | (D)        |

Note: Very small establishments were not requested to report their metalworking operations and, in some instances, a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production-worker employment on the last line of the table below:

| Item  | Industry |       |       |
|---|----------|-------|-------|
|   | 3361     | 3362  | 3369  |
| Total number of establishments in the industry.....   | 954      | 549   | 391   |
| Number of establishments which reported one or more of the specified operations.....                              | 238      | 171   | 93    |
| Percent of industry production workers in these establishments.....   | 55-60    | 60-65 | 45-50 |
| Number of establishments which reported "none" of the operations apply.....                                       | 229      | 160   | 98    |
| Percent of industry production workers in these establishments.....   | 20-25    | 20-25 | 25-30 |
| Percent of industry production workers in establishments which completed the metalworking operations inquiry..... | 80-85    | 80-85 | 75-80 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishment.





## FORGINGS AND MISCELLANEOUS PRIMARY METAL INDUSTRIES

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

3391—Iron and Steel Forgings

3392—Nonferrous Forgings

3399—Primary Metal Industries, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3391—IRON AND STEEL FORGINGS

This industry comprises establishments primarily engaged in manufacturing iron and steel forgings with or without the use of dies. These establishments generally operate on a job or order basis, manufacturing forgings for sale to others or for interplant transfer. Establishments which produce iron and steel forgings and which are also engaged in fabricating operations such as machining, assembling, etc., in manufacturing a specified product are classified in the industry of the specified product. Iron and steel forgings are made to a considerable extent by establishments classified in other industries that produce forgings for incorporation, in the same establishment, into such products as machinery, motor vehicles, etc. Steel rolling mills producing iron and steel forgings are classified in industry 3312, Blast Furnaces and Steel Mills. For a detailed list of products of industry 3391, refer to table 6A, product codes 3391111 to 3391943.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Iron and Steel Forgings Industry totaled \$869 million. This amount included shipments of iron and steel forgings (primary products) valued at \$745 million, shipments of other products (secondary products) valued at \$88 million, and miscellaneous receipts (mainly resales) at \$36 million.

This industry's shipments of iron and steel forgings represented 89 percent of its total product shipments. The industry specialization ratio in 1958 was 86 percent. Secondary products shipped by this industry in 1963 consisted mainly of nonferrous forgings (\$30 million), and metal fittings and unions for piping systems (\$23 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent to this specialization is indicated in table 8. Approximately 74 percent of the total industry shipments are represented by plants specializing in product class 33911, Drop, upset, and press steel forgings (closed die).

Shipments of iron and steel forgings by this industry represented 69 percent of all shipments of these products (\$1,076 million) by all industries. In 1958 the coverage ratio was 72 percent. Another industry shipping iron and steel forgings was industry 3312, Blast Furnaces and Steel Mills, \$152 million.

The production index for the primary products of the industry increased to 121 in 1963 from the 1958 level of 86. The unit value index for 1963 was 129 compared to 125 in 1958. Both indexes were computed on a basis of 1954 = 100.

Industry 3391 includes establishments in two main categories: those producing iron and steel forgings for sale to the trade (commercial forge shops), and those producing forgings for use by other plants of the same company (captive forge shops). A few plants in this industry produce forgings both for sale and for interplant transfer. In addition, forgings are also produced in forgings departments of establishments classified (on the basis of their final product) in other industries. In the 1963 Census of Manufactures, establishments in the fabricated metal product and machinery industries (Major Groups 34 to 37) having such "captive" forging departments (either ferrous or nonferrous) reported data on the approximate number of employees engaged in this activity as well as similar data for 13 other metal fabricating operations such as foundry, stamping, etc. These data are shown in table 9 of the reports covering the 4-digit industries within these major groups and are summarized in Volume I, General Summary. Also, for those industries where the "captive" production of iron and steel forgings is of particular importance, the quantity of iron and steel forgings produced and consumed within such industries is shown in the materials consumed table in the reports covering these industries.

Materials consumed data, shown in table 7A of this report represent only those tonnages consumed by establishments classified in industry 3391, including consumption for secondary products. For this reason they cannot be related directly to the tonnages of forgings shown in table 6A which represent the total shipments of steel forgings, including those shipped by establishments classified in other industries.

Detailed figures on shipments of commercial steel forgings are collected on a monthly basis by the Bureau of the Census and published in Current Industrial Reports Series M33C, Commercial Steel Forgings. Footnote 2, table 6A, shows totals for the data collected in the monthly survey for 1963 and 1958. The monthly data are estimated industry totals derived from a canvass of large commercial forge shops only.

#### 3392—NONFERROUS FORGINGS

This industry comprises establishments primarily engaged in manufacturing nonferrous forgings with or without the use of dies. These establishments generally operate on a job or order basis, manufacturing forgings for sale to others or for interplant transfer. Establishments which produce nonferrous forgings and which are also engaged in fabricating operations such as machining, assembling, etc., in manufacturing a specified product are classified in the industry of the specified product. Nonferrous forgings are made to a considerable extent by establishments classified in other industries that produce forgings for incorporation, in the same establishment, into such products as machinery, motor vehicles, etc. For a detailed list of products of industry 3392, refer to table 6A, product codes 3392011 to 3392098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.



Value of shipments and other receipts of the Nonferrous Forgings Industry totaled \$165 million. This amount included shipments of nonferrous forgings (primary products) valued at \$108 million, shipments of other products (secondary products) valued at \$48 million, and miscellaneous receipts (mainly scrap and salable refuse) at \$9 million.

This industry's shipments of nonferrous forgings represented 69 percent of its total product shipments. The industry specialization ratio in 1958 was 85 percent. Secondary products shipped by this industry in 1963 included drop, upset, and press steel forgings (closed die) (\$16 million), and special dies and tools, die sets, jigs, and fixtures (\$6 million).

Shipments of nonferrous forgings by this industry represented 55 percent of all shipments of these products (\$198 million) by all industries. In 1958 the coverage ratio was 60 percent. Other industries shipping nonferrous forgings consisted mainly of industry 3351, Copper Rolling and Drawing, \$14 million; and industry 3391, Iron and Steel Forgings, \$30 million.

The production index for the primary products of the industry increased to 181 in 1963 from the 1958 level of 108. The unit value index for 1963 was 107 compared to 120 in 1958. Both indexes were computed on a basis of 1954 = 100.

Industry 3392 includes establishments in two main categories: those producing nonferrous forgings for sale to the trade (commercial forge shops), and those producing forgings for use by other plants of the same company (captive forge shops). In addition, a few plants in this industry produce forgings both for sale and for interplant transfer.

No data are available on nonferrous forgings which are produced and consumed within the same establishment in the manufacture of further fabricated products. In some instances, the fabricated product may require relatively little fabrication or processing beyond the rough forging stage. Nevertheless, establishments primarily engaged in producing such items are classified as fabricated product plants in the appropriate industry in Major Groups 34 to 37, Fabricated Metal Products, Machinery, and Transportation Equipment.

Industry 3392, Nonferrous Forgings (as defined in the 1957 edition of the Standard Industrial Classification Manual), was not treated as a separate industry in the 1954 Census of Manufactures, nor in the 1955-1957 Annual Surveys of Manufactures. For years prior to 1958, nonferrous forge shops were included in industry 3399, Primary Metal Industries, N.E.C. This industry also included establishments primarily engaged in either cold-rolling of steel sheet and strip, cold-finishing of steel bar, production of metal powders and paste, or annealing and heat treating of steel for the trade. General statistics data for plants specializing in the production of nonferrous forgings were published in table 8, Volume II, Part 2 of the 1954 Census of Manufactures. This is the source of the 1954 data published in table 1.

#### 3399—PRIMARY METAL INDUSTRIES, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing primary metal products, n.e.c., such as nonferrous nails, brads, and spikes; metal powder, flakes, and paste; and establishments primarily engaged in heat treating of metal for the trade. For a detailed list of products of industry 3399, refer to table 6A, product codes 3399111 to 3399611.

The code number for this industry in the Standard Industrial Classification Manual is unchanged, but the content of the industry has been slightly changed from the classification system used in 1958. The change in composition of the industry as now constituted, compared with that under the classification system followed in the 1958 census, is due to the inclusion of those establishments primarily engaged in reclaiming metallics from slag.

Value of shipments and other receipts of the Primary Metal Industries, N.E.C., totaled \$285 million. This amount included shipments of primary metal industries, n.e.c. (primary products) valued at \$234 million, shipments of other products (secondary products) valued at \$18 million, and miscellaneous receipts (mainly for reclaiming metallics from slag) at \$32 million.

This industry's shipments of primary metals industries, n.e.c., represented 93 percent of its total product shipments. The industry specialization ratio in 1958 was 98 percent.

Shipments of primary metal industries, n.e.c., by this industry represented 87 percent of all shipments of these products (\$270 million) by all industries. In 1958 the coverage ratio was also 87 percent. Other industries shipping primary metal industries n.e.c., consisted mainly of industry 3356, Rolling and Drawing, N.E.C., \$5.7 million; and industry 3545, Machine Tool Accessories, \$4.5 million.

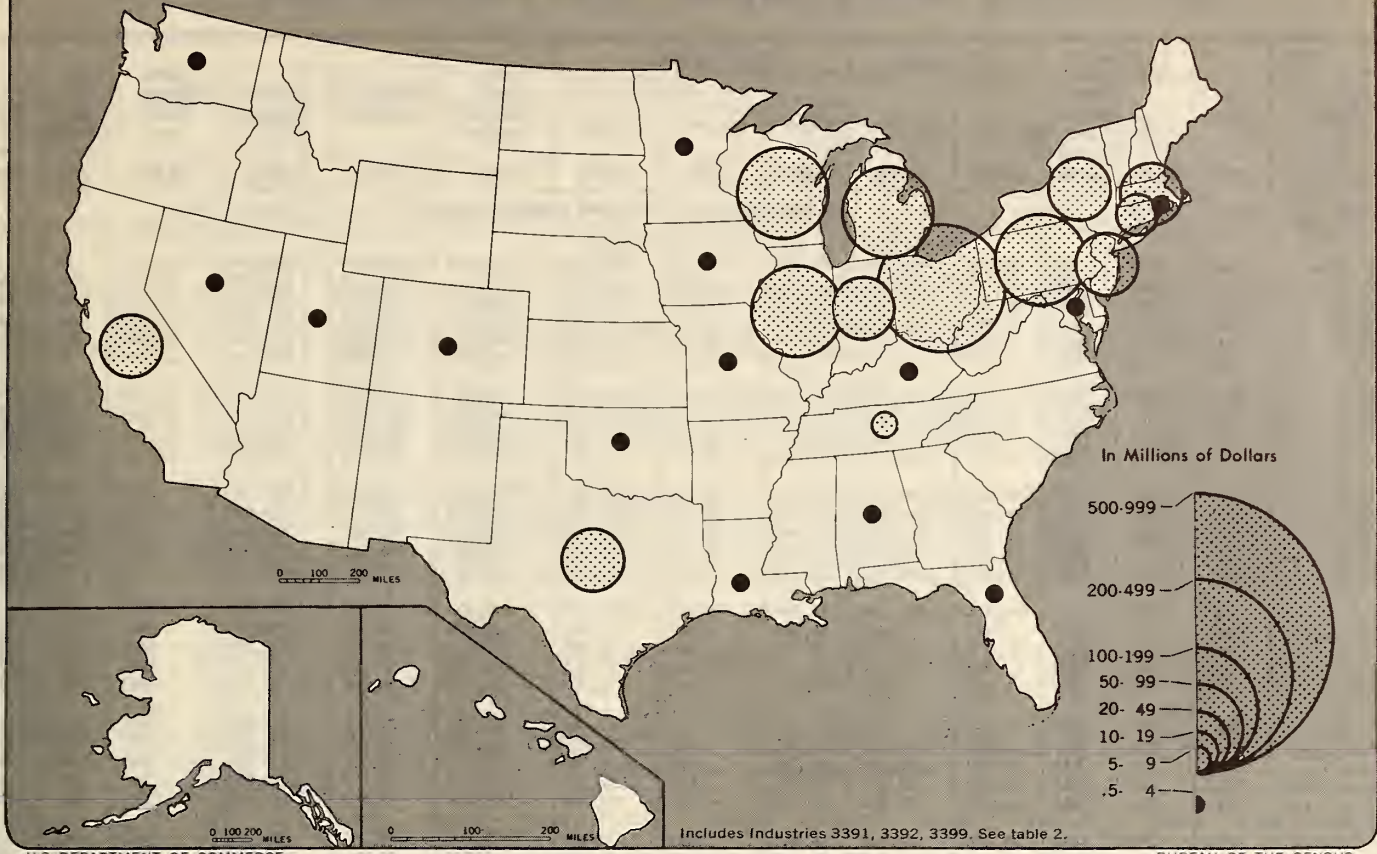
Industry 3399, by definition, includes establishments which fall into four significantly different categories: (1) those producing metal powders and paste; (2) those producing nonferrous nails, brads and spikes; (3) those annealing and heat treating metal for the trade; and (4) those reclaiming metallics from slag. Accordingly, the manufacturing plants included in this industry involve different processes depending upon the type of product produced or operation performed. Of the 754 establishments classified in this industry 69 establishments with 3,043 employees were primarily engaged in producing metal powders, flake and paste; 423 establishments with 8,961 employees were primarily engaged in such services as heat treating, annealing, etc. The remaining 262 establishments with employment totaling 2,952 were engaged in producing nonferrous nails, brads and spikes; reclaimed metallics from slag; or reported shipments of primary metal products, not specified by kind.

Industry 3399, Primary Metal Industries, N.E.C. (as defined in the 1957 edition of the Standard Industrial Classification Manual) was not treated as a separate industry in the 1954 Census of Manufactures nor the 1955-1957 Annual Surveys of Manufactures. For years prior to 1958, establishments engaged in the production of metal powders and paste and those annealing and heat treating steel for the trade were included in industry 3399, Primary Metal Industries, N.E.C. However, industry 3399 also included establishments primarily engaged in either cold-rolling of steel sheet and strip, cold-finishing of steel bar or production of nonferrous forgings. Establishments producing nonferrous nails, brads and spikes were included, prior to 1958, in industry 3481, Nails and Spikes. Industry 3481 also included establishments producing ferrous nails and spikes.

General statistics data for plants specializing in the production of metal powder and paste and those annealing and heat treating metal for the trade were tabulated in the 1954 Census of Manufactures. The data for powder mills were published in table 8, Volume 11, Part 2, but the data for annealing and heat treating establishments were not published. The data for 1954 published in table 1 of this report are derived from the published and unpublished data described above. Establishments specializing in the production of nonferrous nails, brads and spikes, while not included in the 1954 figures, would not affect significantly the comparability of these data.



PRIMARY METAL INDUSTRIES, N.E.C.: SIC 339  
 Value Added by Manufacture by State: 1963



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics: 1963 and Earlier Years

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expendi-<br>tures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3391.—IRON AND STEEL FORGINGS          |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963 <sup>1 2</sup> .....                       | 248                        | 272               | 189  | 36,317            | 259,793              | 29,240             | 58,316               | 198,272            | 395,302  | 470,920                           | 868,948                            | 17,516  | 89  | 69                                       |
| 1962 <sup>1 2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 40,901            | 282,125              | 32,953             | 66,018               | 214,110            | 456,510  | 484,015                           | 928,755                            | 14,594  | (NA)  | (NA)                                     |
| 1961 <sup>1 2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 39,469            | 257,878              | 31,309             | 60,748               | 189,484            | 380,308  | 414,700                           | 789,135                            | 17,515  | (NA)  | (NA)                                     |
| 1960 <sup>1 2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 40,987            | 261,726              | 32,800             | 64,222               | 197,301            | 593,720  | 470,436                           | 854,825                            | 15,024  | (NA)  | (NA)                                     |
| 1959 <sup>1 2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 40,766            | 260,417              | 32,905             | 66,021               | 198,926            | 408,150  | 462,263                           | 873,343                            | 13,099  | (NA)  | (NA)                                     |
| 1958 <sup>1</sup> .....                         | 287                        | 302               | 190  | 37,739            | 220,542              | 30,154             | 56,699               | 164,054            | 315,928  | 359,672                           | 687,270                            | 14,268  | 86  | 72                                       |
| 1957 <sup>2</sup> .....                         | (NA)                       | (NA)              | (NA)   | 42,140            | 254,059              | 35,076             | 69,051               | 196,403            | 396,674  | 473,959                           | 879,111                            | 21,568  | 85  | 75                                       |
| 1956 <sup>2</sup> .....                         | (NA)                       | (NA)              | (NA)   | 42,132            | 251,346              | 36,125             | 74,101               | 197,162            | 394,543  | 464,927                           | 833,902                            | 21,205  | (NA)  | (NA)                                     |
| 1955 <sup>2</sup> .....                         | (NA)                       | (NA)              | (NA)   | 41,717            | 229,434              | 35,678             | 72,474               | 181,069            | 358,864  | 381,653                           | 735,498                            | 12,284  | (NA)  | (NA)                                     |
| 1954.....                                       | 247                        | 259               | 182  | 39,771            | 201,938              | 33,012             | 65,120               | 155,311            | 294,112  | 297,612                           | 603,228                            | 15,862  | 88  | 73                                       |
| 1953 <sup>2</sup> .....                         | (NA)                       | (NA)              | (NA)   | 55,947            | 289,382              | 47,838             | 99,448               | 233,227            | 447,919  | 455,814                           | 903,733                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>2</sup> .....                         | (NA)                       | (NA)              | (NA)   | 53,966            | 264,354              | 46,120             | 97,724               | 214,277            | 427,678  | 396,000                           | 823,678                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>2</sup> .....                         | (NA)                       | (NA)              | (NA)   | 51,648            | 240,309              | 44,764             | 95,479               | 196,268            | 399,332  | 380,905                           | 780,242                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>2</sup> .....                         | (NA)                       | (NA)              | (NA)   | 39,481            | 166,303              | 34,201             | 69,487               | 133,044            | 262,232  | 266,543                           | 528,775                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>2</sup> .....                         | (NA)                       | (NA)              | (NA)   | 36,487            | 138,552              | 31,089             | 59,855               | 108,405            | 208,280  | 188,135                           | 416,415                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                       | 240                        | 250               | 179  | 36,724            | 128,198              | 32,384             | 66,469               | 105,776            | 197,111  | 172,986                           | 370,097                            | 9,230   | 95  | 77                                       |
| 1939 <sup>3</sup> .....                         | (NA)                       | 192               | (NA)   | (NA)              | (NA)                 | 14,764             | (NA)                 | 21,462             | 49,426   | 48,576                            | 98,002                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                       | (NA)                       | 194               | (NA)   | 20,235            | 33,797               | 18,255             | (NA)                 | 27,659             | 59,611   | 63,224                            | 122,835                            | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                       | (NA)                       | 185               | (NA)   | 13,857            | 19,302               | 12,253             | (NA)                 | 15,107             | 31,243   | 35,108                            | 66,351                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....                                       | (NA)                       | 181               | (NA)   | 9,137             | 9,655                | 7,953              | (NA)                 | 7,354              | 15,627   | 16,896                            | 32,523                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....                                       | (NA)                       | 202               | (NA)   | (NA)              | (NA)                 | 9,971              | (NA)                 | 11,444             | 25,043   | 22,657                            | 47,700                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....                                       | (NA)                       | 218               | (NA)   | 23,512            | 43,221               | 20,882             | (NA)                 | 34,505             | 84,642   | 71,607                            | 156,249                            | (NA)  | (NA)  | (NA)                                     |
| 1927.....                                       | (NA)                       | 219               | (NA)   | 17,919            | 30,806               | 15,594             | (NA)                 | 23,540             | 52,934   | 52,102                            | 105,036                            | (NA)  | (NA)  | (NA)                                     |
| 1925.....                                       | (NA)                       | 227               | (NA)   | 23,202            | 39,202               | 20,483             | (NA)                 | 31,588             | 67,342   | 68,577                            | 135,919                            | (NA)  | (NA)  | (NA)                                     |
| 1923.....                                       | (NA)                       | 244               | (NA)   | 31,415            | 50,268               | 27,723             | (NA)                 | 40,539             | 87,234   | 93,591                            | 180,825                            | (NA)  | (NA)  | (NA)                                     |
| 1921.....                                       | (NA)                       | 252               | (NA)   | 20,173            | 29,946               | 16,947             | (NA)                 | 20,950             | 39,792   | 45,291                            | 85,083                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....                                       | (NA)                       | 261               | (NA)   | 33,466            | 51,314               | 29,135             | (NA)                 | 40,603             | 93,558   | 83,561                            | 177,119                            | (NA)  | (NA)  | (NA)                                     |
| 1914.....                                       | (NA)                       | 213               | (NA)   | 12,638            | 10,052               | 11,277             | (NA)                 | 7,850              | 15,447   | 15,300                            | 30,747                             | (NA)  | (NA)  | (NA)                                     |
| 1909.....                                       | (NA)                       | 191               | (NA)   | 9,456             | 6,568                | 8,461              | (NA)                 | 5,169              | 10,712   | 10,596                            | 21,308                             | (NA)  | (NA)  | (NA)                                     |
| 1904.....                                       | (NA)                       | 146               | (NA)   | 6,542             | 4,433                | 5,897              | (NA)                 | 3,555              | 6,901  | 6,008                             | 12,909                             | (NA)  | (NA)  | (NA)                                     |
| 1899.....                                       | (NA)                       | 97                | (NA)   | 5,259             | 3,123                | 4,919              | (NA)                 | 2,677              | 5,512  | 5,424                             | 10,936                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3392.—NONFERROUS FORGINGS              |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963 <sup>1</sup> .....                         | 32                         | 34                | 19   | 6,297             | 47,627               | 4,612              | 10,064               | 32,461             | 71,378   | 93,388                            | 165,146                            | 4,704   | 69  | 55                                       |
| 1962 <sup>1 2</sup> .....                       | (NA)                       | (NA)              | (NA)   | (7,050)           | (48,990)             | (5,442)            | (11,092)             | (38,308)           | (78,054)   | (99,674)                          | (175,262)                          | (3,983)   | (NA)  | (NA)                                     |
| 1961 <sup>1 2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 5,429             | 39,985               | 4,083              | 8,435                | 30,392             | 47,247   | 79,186                            | 124,628                            | (4,750)   | (NA)  | (NA)                                     |
| 1960 <sup>1 2</sup> .....                       | (NA)                       | (NA)              | (NA)   | (5,395)           | (38,393)             | (4,171)            | (7,785)              | (27,980)           | (43,213)   | (72,836)                          | (116,573)                          | (2,919)   | (NA)  | (NA)                                     |
| 1959 <sup>1 2</sup> .....                       | (NA)                       | (NA)              | (NA)   | (4,685)           | (30,093)             | (3,620)            | (7,220)              | (21,582)           | (37,918)   | (65,555)                          | (103,539)                          | (1,341)   | (NA)  | (NA)                                     |
| 1958 <sup>1</sup> .....                         | 26                         | 28                | 19   | 4,649             | 27,806               | 3,476              | 6,761                | 19,383             | 36,760   | 58,080                            | 98,694                             | 2,033   | 85  | 60                                       |
| 1954 <sup>4</sup> .....                         | (NA)                       | 31                | (NA)   | 5,418             | 25,324               | 4,242              | 8,682                | 18,982             | (NA)   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3399.—PRIMARY METAL INDUSTRIES, N.E.C. |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963 <sup>1 5</sup> .....                       | 695                        | 754               | 218  | 14,956            | 94,704               | 11,513             | 24,658               | 65,437             | 192,250  | 93,593                            | 284,661                            | 13,501  | 93  | 87                                       |
| 1962 <sup>1 2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 12,783            | 74,742               | 9,629              | 20,982               | 48,023             | 143,749  | 85,076                            | 231,657                            | (9,669)   | (NA)  | (NA)                                     |
| 1961 <sup>1 2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 11,550            | 67,206               | 8,425              | 17,900               | 41,624             | 116,477  | 67,838                            | 186,929                            | (7,026)   | (NA)  | (NA)                                     |
| 1960 <sup>1 2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,488            | 59,658               | 7,997              | 17,085               | 39,462             | 104,435  | 57,926                            | 164,562                            | (5,790)   | (NA)  | (NA)                                     |
| 1959 <sup>1 2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,071            | 56,125               | 7,762              | 16,226               | 37,585             | 100,012  | 56,317                            | 158,491                            | 6,266   | (NA)  | (NA)                                     |
| 1958 <sup>1</sup> .....                         | 567                        | 581               | 149  | 9,795             | 52,717               | 7,359              | 14,813               | 35,088             | 90,656   | 50,095                            | 141,172                            | 5,615   | 98  | 87                                       |
| 1954 <sup>4</sup> .....                         | (NA)                       | 468               | (NA)   | 8,957             | 39,406               | 6,946              | 14,594               | 26,569             | (NA)   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosure of individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>Includes data for Alaska and Hawaii.

<sup>2</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>3</sup>The figures for 1939 are not strictly comparable with those for earlier years. Value added by manufacture for 1939 on a basis comparable with earlier years was \$52.9 million.

<sup>4</sup>Industries 3392 and 3399 as defined for 1958 and later years, were not treated as separate industries prior to 1958. See text for detailed discussion.

<sup>5</sup>The figures for 1963 are not strictly comparable with those for earlier years. Value added by manufacturers for 1963 on a basis comparable with earlier years was \$176.8 million.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                    | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3391.—IRON AND STEEL FORGINGS          |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                      | 272            | 189                                | 36,317         | 259,793           | 29,240             | 58,316            | 198,272         | 395,302                              | 470,920           | 868,948            | 17,516                    | 37,739           | 315,928                              |
| New England.....                                | 18             | 14                                 | 3,208          | 21,556            | 2,351              | 4,788             | 14,932          | 26,175                               | 27,648            | 54,130             | 1,080                     | 3,737            | 28,955                               |
| Massachusetts....                               | 10             | 9                                  | 2,702          | 18,434            | 1,955              | 3,972             | 12,691          | 20,640                               | 21,784            | 42,840             | 804                       | 2,668            | 21,298                               |
| Middle Atlantic....                             | 58             | 42                                 | 5,099          | 31,911            | 4,122              | 8,158             | 23,959          | 50,637                               | 48,179            | 100,053            | 1,361                     | 8,100            | 56,554                               |
| New York.....                                   | 16             | 12                                 | 1,478          | 9,401             | 1,189              | 2,406             | 7,120           | 14,137                               | 10,411            | 24,769             | 274                       | 3,549            | 18,912                               |
| New Jersey.....                                 | 13             | 8                                  | 647            | 3,944             | 526                | 896               | 2,910           | 6,921                                | 5,280             | 12,762             | 163                       | 519              | 4,646                                |
| Pennsylvania....                                | 29             | 22                                 | 2,974          | 18,566            | 2,407              | 4,856             | 13,929          | 29,579                               | 32,488            | 62,522             | 924                       | 4,032            | 32,996                               |
| East North Central.                             | 130            | 95                                 | 25,586         | 189,841           | 20,957             | 41,554            | 148,207         | 289,019                              | 356,118           | 645,866            | 13,448                    | 23,607           | 209,347                              |
| Ohio.....                                       | 44             | 32                                 | 6,538          | 48,363            | 5,375              | 10,884            | 38,335          | 69,389                               | 96,032            | 167,055            | 3,720                     | 5,347            | 43,958                               |
| Indiana.....                                    | 8              | 6                                  | 3,318          | 23,210            | 2,834              | 5,716             | 19,073          | 38,330                               | 47,067            | 82,752             | 1,171                     | 2,863            | 24,313                               |
| Illinois.....                                   | 37             | 24                                 | 4,751          | 36,358            | 3,868              | 7,436             | 27,180          | 58,088                               | 76,421            | 134,257            | 2,119                     | 4,647            | 44,852                               |
| Michigan.....                                   | 34             | 27                                 | 5,096          | 39,664            | 4,347              | 8,943             | 31,441          | 62,467                               | 82,385            | 145,706            | 2,239                     | 4,352            | 40,913                               |
| Wisconsin.....                                  | 7              | 6                                  | 5,883          | 42,246            | 4,533              | 8,575             | 32,178          | 60,745                               | 54,213            | 116,096            | 4,196                     | 6,398            | 55,311                               |
| West North Central.                             | 9              | -                                  | 52             | 280               | 41                 | 83                | 220             | 461                                  | 443               | 907                | 21                        | 28               | 247                                  |
| South.....                                      | 29             | 19                                 | 1,179          | 6,951             | 889                | 1,919             | 4,603           | 11,258                               | 15,944            | 27,345             | 340                       | 763              | 7,186                                |
| Texas.....                                      | 16             | 14                                 | 724            | 4,418             | 533                | 1,177             | 2,977           | 7,838                                | 9,020             | 16,963             | 186                       | 421              | 4,516                                |
| West.....                                       | 28             | 19                                 | 1,193          | 9,254             | 880                | 1,814             | 6,351           | 17,752                               | 22,588            | 40,647             | 1,269                     | 1,504            | 13,639                               |
| California.....                                 | 25             | 17                                 | 1,114          | 8,835             | 820                | 1,695             | 6,030           | 16,961                               | 21,852            | 39,103             | 1,254                     | 1,310            | 11,975                               |
| INDUSTRY 3392.—NONFERROUS FORGINGS              |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                      | 34             | 19                                 | 6,297          | 47,627            | 4,612              | 10,064            | 32,461          | 71,378                               | 93,388            | 165,146            | 4,704                     | 4,649            | 36,760                               |
| Northeast.....                                  | 11             | 7                                  | 1,881          | 14,457            | 1,442              | 3,048             | 10,013          | 21,982                               | 24,304            | 47,081             | 789                       | 1,845            | 16,090                               |
| North Central and South.....                    | 14             | 6                                  | 3,625          | 26,993            | 2,590              | 5,761             | 18,193          | 39,690                               | 56,037            | 95,431             | 3,122                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pacific.....                                    | 9              | 6                                  | 791            | 6,177             | 580                | 1,255             | 4,255           | 9,706                                | 13,047            | 22,634             | 793                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                                 | 9              | 6                                  | 791            | 6,177             | 580                | 1,255             | 4,255           | 9,706                                | 13,047            | 22,634             | 793                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| INDUSTRY 3399.—PRIMARY METAL INDUSTRIES, N.E.C. |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                      | 754            | 218                                | 14,956         | 94,704            | 11,513             | 24,658            | 65,437          | 192,250                              | 93,593            | 284,661            | 13,501                    | 9,795            | 90,656                               |
| New England.....                                | 74             | 14                                 | 1,237          | 7,499             | 878                | 1,837             | 4,865           | 15,165                               | 6,667             | 20,528             | 1,170                     | 537              | 5,031                                |
| Connecticut.....                                | 40             | 5                                  | 479            | 3,048             | 333                | 720               | 1,836           | 7,462                                | 3,598             | 11,051             | 618                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Middle Atlantic....                             | 157            | 43                                 | 3,028          | 18,885            | 2,225              | 4,670             | 12,174          | 41,551                               | 26,135            | 67,595             | 2,645                     | 2,286            | 22,443                               |
| New York.....                                   | 56             | 16                                 | 884            | 5,237             | 684                | 1,395             | 3,601           | 10,047                               | 3,875             | 13,868             | 980                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| New Jersey.....                                 | 49             | 14                                 | 1,178          | 7,435             | 792                | 1,671             | 4,228           | 16,747                               | 14,771            | 31,222             | 930                       | 998              | 10,999                               |
| Pennsylvania....                                | 52             | 13                                 | 966            | 6,213             | 749                | 1,604             | 4,345           | 14,757                               | 7,489             | 22,505             | 735                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| North Central and South.....                    | 394            | 136                                | 8,809          | 56,281            | 6,971              | 15,078            | 40,034          | 111,236                              | 50,296            | 161,819            | 7,950                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Wisconsin.....                                  | 18             | 8                                  | 453            | 2,842             | 361                | 759               | 1,943           | 5,535                                | 1,334             | 6,881              | 266                       | 283              | 2,367                                |
| Minnesota.....                                  | 11             | 5                                  | 245            | 1,490             | 190                | 379               | 1,007           | 2,399                                | 784               | 3,188              | 448                       | 127              | 1,551                                |
| West.....                                       | 129            | 25                                 | 1,882          | 12,039            | 1,439              | 3,073             | 8,364           | 24,298                               | 10,495            | 34,719             | 1,736                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                                 | 109            | 22                                 | 1,661          | 10,594            | 1,244              | 2,677             | 7,201           | 21,302                               | 7,072             | 28,619             | 1,400                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup> General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3391, Iron and Steel Forgings: New England—New Hampshire, 1 (1-19); Rhode Island, 1 (20-99); Connecticut, 6 (250-499); West North Central—Minnesota, 3 (20-99); Iowa, 5 (20-99); Missouri, 1 (1-19); South Atlantic—Maryland, 1 (1-19); West Virginia, 1 (20-99); North Carolina, 3 (1-19); East South Central—Tennessee, 4 (169); West South Central—Louisiana, 2 (20-99); Oklahoma, 2 (100-249); Mountain—Idaho, 1 (20-99); Pacific—Washington, 2 (20-99).

SIC 3392, Nonferrous Forgings: New England—Massachusetts, 1 (1,000-2,499); Connecticut, 3 (250-499); Middle Atlantic—New Jersey, 2 (1-19); Pennsylvania, 5 (500-999); East North Central—Ohio, 2 (1,000-2,499); Indiana, 1 (100-249); Illinois, 3; Michigan, 2 (1-19); West North Central—Missouri, 2 (20-99); South Atlantic—Maryland, 2 (20-99); Florida, 1 (1-19); West South Central—Texas, 1 (1,000-2,499).

SIC 3399, Primary Metal Industries, N.E.C.: New England—New Hampshire, 1 (1-19); Vermont, 1 (1-19); Massachusetts, 19 (500-999); Rhode Island, 13 (100-249); East North Central—Ohio, 84 (1,000-2,499); Indiana, 32 (500-999); Illinois, 53 (1642); Michigan, 110 (2,500-4,999); West North Central—Iowa, 5 (20-99); Missouri, 10 (347); Nebraska, 1 (1-19); Kansas, 3 (20-99); South Atlantic—Delaware, 1 (1-19); Maryland, 5 (1-19); Virginia, 1 (1-19); West Virginia, 1 (1-19); North Carolina, 4 (20-99); South Carolina, 2 (1-19); Georgia, 4 (20-99); Florida, 8 (20-99); East South Central—Kentucky, 2 (100-249); Tennessee, 7 (213); Alabama, 6 (20-99); West South Central—Arkansas, 1 (1-19); Louisiana, 1 (1-19); Oklahoma, 6 (20-99); Texas, 18 (250-499); Mountain—Montana, 1 (1-19); Colorado, 3 (20-99); Arizona, 2 (1-19); Utah, 3 (20-99); Nevada, 1 (20-99); Pacific—Washington, 4 (20-99); Oregon, 6 (20-99).

<sup>2</sup> This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.

<sup>3</sup> See footnote 5, table 1.

TABLE 3. Detailed Statistics: 1963

| Item   | Iron and steel forgings<br>(SIC 3391) | Nonferrous forgings<br>(SIC 3392) | Primary metal industries, n.e.c.<br>(SIC 3399) |
|--|---------------------------------------|-----------------------------------|--|
| Primary product specialization ratio <sup>1</sup> .....        | .89                                   | .69                               | .93  |
| Coverage ratio <sup>2</sup> .....                              | .69                                   | .55                               | .87  |
| Establishments, total.....number..                             | 272                                   | 34                                | 754  |
| With 1 to 19 employees.....do....                              | 83                                    | 15                                | 536  |
| With 20 to 99 employees.....do....                             | 107                                   | 10                                | 198  |
| With 100 employees or more.....do....                          | 82                                    | 9                                 | 20   |
| Proprietors and working partners.....do....                    | 59                                    | 8                                 | 221  |
| All employees (average for the year).....do....                | 36,317                                | 6,297                             | 14,956   |
| Payroll (all employees), total for year.....\$1,000..          | 259,793                               | 47,627                            | 94,704   |
| Production workers:  |                                       |                                   |  |
| Average for the year.....number..                              | 29,240                                | 4,612                             | 11,513   |
| March.....do....   | 29,371                                | 4,530                             | 11,258   |
| May.....do....   | 29,248                                | 4,491                             | 11,514   |
| August.....do....  | 29,096                                | 4,587                             | 11,487   |
| November.....do....  | 29,245                                | 4,840                             | 11,793   |
| Man-hours.....1,000..  | 58,316                                | 10,064                            | 24,658   |
| January-March.....do....                                       | 14,663                                | 2,429                             | 6,069  |
| April-June.....do....  | 15,338                                | 2,514                             | 6,238  |
| July-September.....do....                                      | 13,461                                | 2,442                             | 6,072  |
| October-December.....do....                                    | 14,854                                | 2,679                             | 6,279  |
| Wages.....\$1,000..  | 198,272                               | 32,461                            | 65,437   |
| Cost of materials, etc., total.....do....                      | 470,920                               | 93,388                            | 93,593   |
| Materials, parts, containers, and supplies consumed.....do.... | 408,283                               | 85,270                            | 71,197   |
| Cost of resales.....do....                                     | 19,719                                | 128                               | 2,945  |
| Fuels consumed.....do....                                      | 20,993                                | 1,848                             | 8,428  |
| Electric energy:   |                                       |                                   |  |
| Purchased:   |                                       |                                   |  |
| Quantity.....million kw.-hrs..                                 | 563                                   | 212                               | 482  |
| Cost.....\$1,000..   | 7,785                                 | 2,228                             | 7,136  |
| Generated less sold.....million kw.-hrs..                      | (D)                                   | -                                 | (D)  |
| Contract work.....\$1,000..                                    | 14,140                                | 3,914                             | 3,887  |
| Value of shipments (including resales), total.....do....       | 868,948                               | 165,146                           | 284,661  |
| Value of resales.....do....                                    | 20,103                                | 142                               | 3,861  |
| Value added by manufacture, adjusted.....do....                | 395,302                               | 71,378                            | 192,250  |
| Manufacturers' inventories:                                    |                                       |                                   |  |
| Beginning of year, total.....do....                            | 127,545                               | 33,518                            | 21,541   |
| Finished products.....do....                                   | 10,672                                | 6,317                             | 8,294  |
| Work-in-process.....do....                                     | 44,411                                | 18,065                            | 4,467  |
| Materials, supplies, fuel, etc.....do....                      | 72,462                                | 9,136                             | 8,780  |
| End of year, total.....do....                                  | 125,015                               | 34,304                            | 21,675   |
| Finished products.....do....                                   | 11,103                                | 5,678                             | 8,711  |
| Work-in-process.....do....                                     | 41,951                                | 18,324                            | 5,232  |
| Materials, supplies, fuel, etc.....do....                      | 71,961                                | 10,302                            | 7,732  |
| Expenditures for plant and equipment, total.....do....         | 21,898                                | 5,872                             | 14,735   |
| New, total.....do....  | 17,516                                | 4,704                             | 13,501   |
| New structures and additions to plant.....do....               | 3,268                                 | 269                               | 2,493  |
| New machinery and equipment.....do....                         | 14,248                                | 4,435                             | 11,008   |
| Used plant and equipment.....do....                            | 4,382                                 | 1,168                             | 1,234  |
| Selected operating ratios:                                     |                                       |                                   |  |
| Payroll/Total employment.....                                  | 7,153                                 | 7,563                             | 6,332  |
| Production workers/Total employment.....                       | .81                                   | .73                               | .77  |
| Man-hours/Production workers.....                              | 1,994                                 | 2,182                             | 2,142  |
| Production worker wages/Man-hours.....                         | 3.40                                  | 3.23                              | 2.65   |
| Cost of materials and payrolls/Total value of shipments....    | .84                                   | .85                               | .66  |
| Cost of materials/Total value of shipments.....                | .54                                   | .57                               | .33  |
| Adjusted value added/Total employment.....                     | 10,885                                | 11,335                            | 12,854   |
| Salaries and wages/Adjusted value added.....                   | .66                                   | .67                               | .49  |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of- |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3391.—IRON AND STEEL FORGINGS          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 272                   | 32                                 | 20               | 31                 | 65                 | 43                 | 46                   | 22                   | 8                    | 4                        | 1                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 36,317                | 56                                 | 133              | 419                | 2,753              | 3,155              | 7,207                | 7,369                | 5,116                | <u>10,109</u>            | (D)                      |
| Payroll.....\$1,000..                           | 259,793               | 360                                | 773              | 2,477              | 18,687             | 23,220             | 50,373               | 51,940               | 36,835               | <u>75,128</u>            | (D)                      |
| Value added, adjusted.....do....                | 395,302               | 696                                | 1,528            | 4,148              | 27,489             | 41,629             | 82,390               | 74,656               | 53,194               | <u>109,572</u>           | (D)                      |
| Value of shipments.....do....                   | 868,948               | 1,274                              | 2,617            | 8,363              | 66,810             | 87,523             | 175,981              | 175,902              | 114,518              | <u>235,960</u>           | (D)                      |
| Capital expenditures, new...do....              | 17,516                | 37                                 | 89               | 195                | 1,031              | 2,195              | 2,032                | 3,229                | 2,026                | <u>6,682</u>             | (D)                      |
| INDUSTRY 3392.—NONFERROUS FORGINGS              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 34                    | 3                                  | 2                | 10                 | 4                  | 7                  | 3                    | 2                    | -                    | 3                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 6,297                 | <u>19</u>                          | (D)              | 136                | 115                | 571                | <u>1,249</u>         | (D)                  | -                    | 4,207                    | -                        |
| Payroll.....\$1,000..                           | 47,627                | <u>113</u>                         | (D)              | 778                | 782                | 4,172              | <u>9,332</u>         | (D)                  | -                    | 32,450                   | -                        |
| Value added, adjusted.....do....                | 71,378                | <u>167</u>                         | (D)              | 1,583              | 1,436              | 7,328              | <u>15,049</u>        | (D)                  | -                    | 45,815                   | -                        |
| Value of shipments.....do....                   | 165,146               | <u>451</u>                         | (D)              | 2,909              | 2,581              | 17,548             | <u>33,288</u>        | (D)                  | -                    | 108,369                  | -                        |
| Capital expenditures, new...do....              | 4,704                 | <u>23</u>                          | (D)              | 23                 | 107                | 222                | <u>944</u>           | (D)                  | -                    | 3,385                    | -                        |
| INDUSTRY 3399.—PRIMARY METAL INDUSTRIES, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 754                   | 209                                | 151              | 176                | 152                | 46                 | 18                   | 2                    | -                    | -                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 14,956                | 377                                | 1,044            | 2,428              | 4,676              | 2,991              | <u>3,440</u>         | (D)                  | -                    | -                        | -                        |
| Payroll.....\$1,000..                           | 94,704                | 2,394                              | 6,521            | 14,327             | 30,226             | 18,650             | <u>22,586</u>        | (D)                  | -                    | -                        | -                        |
| Value added, adjusted.....do....                | 192,250               | 5,440                              | 13,608           | 27,321             | 59,307             | 38,580             | <u>47,994</u>        | (D)                  | -                    | -                        | -                        |
| Value of shipments.....do....                   | 284,661               | 8,183                              | 18,941           | 37,189             | 85,102             | 63,932             | <u>71,314</u>        | (D)                  | -                    | -                        | -                        |
| Capital expenditures, new...do....              | 13,501                | 542                                | 924              | 1,464              | 4,103              | 2,739              | <u>3,729</u>         | (D)                  | -                    | -                        | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left. n.e.c. Not elsewhere classified.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                               | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | ((\$1,000))        | ((\$1,000))      | ((\$1,000))        | ((\$1,000))            | Col. B<br>Col. B+C<br>(percent)      | ((\$1,000))                        | ((\$1,000))           | ((\$1,000))              | Col. B<br>Col. F<br>(percent) |
|           |  | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3391      | Iron and steel forgings.....1963..                     | 868,948            | 744,996          | 87,915             | 36,037                 | 89                                   | 1,075,596                          | 744,996               | 330,600                  | <sup>1</sup> 69               |
|           | .....1958 .  | 687,270            | 570,851          | 89,658             | 26,761                 | 86                                   | 782,694                            | 570,851               | 211,843                  | 72                            |
| 3392      | Nonferrous forgings.....1963..                         | 165,146            | 108,392          | 47,773             | 8,981                  | 69                                   | 198,416                            | 108,392               | 90,024                   | 55                            |
|           | .....1958 .  | 98,694             | 78,938           | 14,158             | 5,598                  | 85                                   | 131,995                            | 78,938                | 53,057                   | 60                            |
| 3399      | Primary metal industries, n.e.c...1963 <sup>2</sup> .. | 284,661            | 234,392          | 18,252             | <sup>3</sup> 32,017    | 93                                   | 270,496                            | 234,392               | 36,104                   | 87                            |
|           | .....1958..  | 141,172            | 131,396          | 1,782              | 7,994                  | 98                                   | 150,498                            | 131,396               | 19,102                   | 87                            |

Note: See Introduction for an explanation of terms used.

<sup>1</sup>Included in this industry are open die hammer and press forgings which are also primary to industry 3312, Blast Furnaces and Steel Mills. A coverage ratio computed on the basis of including both industries to which open die hammer and press forgings are primary would total 80 percent; 69 percent by industry 3391 and 11 percent by industry 3312. The remaining 20 percent was shipped by establishments in other industries.

<sup>2</sup>See footnote 5, table 1.

<sup>3</sup>Consists largely of receipts for reclaiming metallics from slag.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars except for ranges (shown in parentheses) which are expressed in millions of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous

receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                        | Class of products and miscellaneous receipts   | All industries       | Iron and steel forgings (SIC 3391) | Other industries | Prod. class code                         | Class of products and miscellaneous receipts   | All industries | Nonferrous forgings (SIC 3392) | Other industries |
|---|--|----------------------|------------------------------------|------------------|--|--|----------------|--------------------------------|------------------|
| <b>IRON AND STEEL FORGINGS INDUSTRY</b> |  |                      |                                    |                  | <b>NONFERROUS FORGINGS INDUSTRY—Con.</b> |  |                |                                |                  |
|   | Total shipments and receipts of the industry.....  | (X)                  | 868,948                            | (X)              |  | Secondary products—Continued   |                |                                |                  |
|   | Primary products.....  | 1,075,596            | 744,996                            | 330,600          | 19251                                    | Other secondary products.....  | (X)            | 25,771                         | (X)              |
| 33911                                   | Drop, upset, and press steel forgings (closed die).....  | 764,822              | 576,810                            | 188,012          | 33919                                    | Guided missiles, complete.....   | (X)            | (over 2)                       | (X)              |
| 33919                                   | Open die or smith forgings (open frame hammer or press) (produced from purchased materials).....         | <sup>1</sup> 294,384 | 151,796                            | 142,588          | 34941                                    | Open die or smith forgings (open frame hammer or press) (produced from purchased material).....          | (X)            | (over 2)                       | (X)              |
| 33910                                   | Iron and steel forgings, n.s.k....   | 16,390               | 16,390                             | -                | 34942                                    | Metal valves for piping systems (except plumbing and heating valves).....                                | (X)            | (over 2)                       | (X)              |
|   | Secondary products.....  | (X)                  | 87,915                             | (X)              | 34942                                    | Metal fittings and unions for piping systems.....  | (X)            | (over 2)                       | (X)              |
| 33920                                   | Nonferrous forgings.....   | (X)                  | 30,071                             | (X)              | 35331                                    | Rotary oil and gas field drilling machinery and equipment.....   | (X)            | (over 2)                       | (X)              |
| 34942                                   | Metal fittings and unions for piping systems.....  | (X)                  | 23,418                             | (X)              | 35333                                    | Oil and gas field production machinery and equipment (except pumps).....                                 | (X)            | (over 2)                       | (X)              |
| 35441                                   | Special dies and tools, die sets, jigs and fixtures.....   | (X)                  | 9,818                              | (X)              |  | Miscellaneous receipts.....  | (X)            | 8,981                          | (X)              |
|   | Other secondary products.....  | (X)                  | 11,454                             | (X)              |  | Scrap and salable refuse.....  | (X)            | 8,034                          | (X)              |
| 33230                                   | Steel castings.....  | (X)                  | (2-5)                              | (X)              |  | Contract and commission work.....  | (X)            | 475                            | (X)              |
| 34930                                   | Steel springs.....   | (X)                  | (over 2)                           | (X)              |  | Value of resales.....  | (X)            | 142                            | (X)              |
| 37175                                   | Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufactures..... | (X)                  | (over 2)                           | (X)              | 33920                                    | Other miscellaneous receipts.....  | (X)            | 330                            | (X)              |
|   | Miscellaneous receipts.....  | (X)                  | 36,037                             | (X)              |  | Listing of other manufactures with over \$2 million shipments of the primary product class:              |                |                                |                  |
|   | Contract and commission work....   | (X)                  | 5,182                              | (X)              |  | 3351 Copper rolling and drawing..  | (X)            | (X)                            | 14,063           |
|   | Scrap and salable refuse.....  | (X)                  | 8,574                              | (X)              |  | 3352 Aluminum rolling and drawing  | (X)            | (X)                            | (10-20)          |
|   | Value of resales.....  | (X)                  | 20,103                             | (X)              |  | 3391 Iron and steel forgings....   | (X)            | (X)                            | 30,071           |
|   | Other miscellaneous receipts.....  | (X)                  | 2,178                              | (X)              |  | 3461 Metal stampings.....  | (X)            | (X)                            | (5-10)           |
|   | Listing of other industries with over \$2 million shipments of each primary product class:               |                      |                                    |                  |  | 3494 Valves and pipe fittings....  | (X)            | (X)                            | (over 2)         |
| 33911                                   | 3312 Blast furnaces and steel mills.....   | (X)                  | (X)                                | 31,401           |  |  |                |                                |                  |
|   | 3392 Nonferrous forgings.....  | (X)                  | (X)                                | 16,142           |  | <b>PRIMARY METAL INDUSTRY</b>  |                |                                |                  |
|   | 3423 Hand and edge tools.....  | (X)                  | (X)                                | (5-10)           |  | Total shipments and receipts of the industry.....  | (X)            | 284,661                        | (X)              |
|   | 3443 Boiler shop products.....   | (X)                  | (X)                                | (2-5)            | 33991                                    | Primary products.....  | 270,496        | 234,392                        | 36,104           |
|   | 3494 Valves and pipe fittings...   | (X)                  | (X)                                | (2-5)            | 33996                                    | Metal powders and paste.....   | 106,832        | 79,436                         | 27,396           |
|   | 3522 Farm machinery and equipment.....   | (X)                  | (X)                                | (5-10)           |  | Heat treating of metal for the trade.....  | 140,288        | 140,288                        | -                |
|   | 3531 Construction machinery....  | (X)                  | (X)                                | (2-5)            | 33992                                    | Primary metal products, n.e.c....  | 11,248         | 14,668                         | 8,708            |
|   | 3717 Motor vehicles and parts...   | (X)                  | (X)                                | (over 2)         | 33990                                    | Primary metal industries, n.e.c., n.s.k.....   | 12,128         | 14,668                         | 8,708            |
| 33919                                   | 3323 Steel foundries.....  | (X)                  | (X)                                | (5-10)           |  | Secondary products.....  | (X)            | 18,252                         | (X)              |
|   | 3392 Nonferrous forgings.....  | (X)                  | (X)                                | (over 2)         | 35662                                    | Speed changers, industrial high speed drives, and gears.....   | (X)            | (over 2)                       | (X)              |
|   | 3494 Valves and pipe fittings...   | (X)                  | (X)                                | (2-5)            | 37175                                    | Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufactures..... | (X)            | (over 2)                       | (X)              |
|   | 3544 Special dies and tools.....   | (X)                  | (X)                                | (over 2)         |  | Miscellaneous receipts.....  | (X)            | 232,017                        | (X)              |
|   |  | All industries       | Nonferrous forgings (SIC 3392)     | Other industries |  | Contract and commission work.....  | (X)            | 226,644                        | (X)              |
|   |  |                      |                                    |                  |  | Value of resales.....  | (X)            | 3,861                          | (X)              |
| 33920                                   | Nonferrous forgings.....   | 198,416              | 108,392                            | 90,024           |  | Other.....   | (X)            | 1,512                          | (X)              |
|   | Secondary products.....  | (X)                  | 47,773                             | (X)              |  | Listing of other industries with over \$2 million shipments of each primary product class:               |                |                                |                  |
| 33911                                   | Drop, upset and press steel forgings (closed die).....   | (X)                  | 16,142                             | (X)              | 23991                                    | 1929 Ammunition, n.e.c.....  | (X)            | (X)                            | (over 2)         |
| 35441                                   | Special dies and tools, die sets, jigs and fixtures.....   | (X)                  | 5,860                              | (X)              |  | 3356 Rolling and drawing, n.e.c....  | (X)            | (X)                            | 5,744            |
|   |  |                      |                                    |                  |  | 3545 Machine tool accessories...   | (X)            | (X)                            | 4,539            |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Includes \$120,653 thousand for product class 33129, Press and hammer steel forgings made in steel mills, which is primary to industry 3312.

<sup>2</sup>Consists largely of receipts for reclaiming metallics from slag.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Total shipments including interplant transfers |                        |                          |                      |   |
|--------------|---|--|------------------------|--------------------------|----------------------|---|
|              |   | 1963   |                        | 1958                     |                      |   |
|              |   | Quantity<br>(short tons)                       | Value<br>(\$1,000)     | Quantity<br>(short tons) | Value<br>(\$1,000)   |   |
| 3391- --     | IRON AND STEEL FORGINGS, TOTAL.....   | (NA)   | <sup>1</sup> 1,075,596 | (NA)                     | <sup>1</sup> 782,694 |   |
| 33911 --     | Closed die (drop, upset and press) forgings <sup>2</sup> .....                                      | (X)  | 764,822                | (X)                      | 535,319              |   |
| 33911 11     | Carbon steel.....   | 993,880  | 393,835                | 705,486                  | 273,609              |   |
| 33911 31     | Alloy steel (except stainless).....   | 566,993  | 324,560                | 364,424                  | 206,756              |   |
| 33911 51     | Stainless steel.....  | 8,515  | 34,819                 | 9,622                    | 38,548               |   |
| 33911 00     | Drop, upset, and press steel forgings, not specified by grade.....                                  | (X)  | 11,608                 | (X)                      | 16,406               |   |
| 33919 --     | } Open die hammer and press forgings <sup>2</sup> .....   | (X)  | 294,384                | (NA)                     | 234,641              |   |
| 33129 --     |   | Made in steel works (industry 3312).....       | (NA)                   | 120,653                  | 129,286              | 119,487   |
| 33919 --     | Made in steel forgings (industry 3391) and other industries.....                                    | (NA)   | 173,731                | (NA)                     | 115,154              |   |
| 33129 21     | } Open die hammer forgings:   | 118,882  | 52,479                 | <sup>3</sup> 126,836     | <sup>3</sup> 59,174  |   |
| 33919 21     |   |  |                        |                          |                      | Carbon steel.....                                   |
| 33129 23     | } Alloy steel (except stainless).....   | 52,006   | 58,534                 | <sup>4</sup> 138,291     | <sup>4</sup> 152,249 |   |
| 33919 22     |   |  |                        |                          |                      | Made in industry 3312.....                          |
| 33129 23     | Made in industry 3391 and other industries.....   | 12,532   | 19,588                 | 75,657                   | 88,921               |   |
| 33919 22     | Stainless steel.....  | 39,474   | 38,946                 | 62,634                   | 63,328               |   |
| 33129 25     | } Stainless steel.....  | 4,104  | 10,243                 | <sup>5</sup> 7,749       | <sup>5</sup> 18,310  |   |
| 33919 23     |   |  |                        |                          |                      | Made in industry 3312.....                          |
| 33129 61     | } Open die press forgings:  | 127,155  | 45,567                 | (3)                      | (3)                  |   |
| 33919 41     |   |  |                        |                          |                      | Carbon steel.....                                   |
| 33129 61     | Made in industry 3312.....  | 21,336   | 11,144                 | (3)                      | (3)                  |   |
| 33919 41     | Made in industry 3391 and other industries.....   | 105,819  | 34,423                 |                          |                      |   |
| 33129 63     | } Alloy steel (except stainless).....   | 129,982  | 101,076                | (4)                      | (4)                  |   |
| 33919 42     |   |  |                        |                          |                      | Carbon steel.....                                   |
| 33129 63     | Made in industry 3312.....  | 49,793   | 52,501                 | (4)                      | (4)                  |   |
| 33919 42     | Made in industry 3391 and other industries.....   | 80,189   | 48,575                 |                          |                      |   |
| 33129 65     | } Stainless steel.....  | 2,538  | 5,127                  | (5)                      | (5)                  |   |
| 33919 65     |   |  |                        |                          |                      | Carbon steel.....                                   |
| 33129 00     | } Open die hammer and press forgings, not specified by grade.....                                   | (X)  | 21,358                 | (NA)                     | 4,908                |   |
| 33919 00     |   |  |                        |                          |                      | Alloy steel.....                                    |
| 33910 00     | Iron and steel forgings, n.s.k.....   | (X)  | 16,390                 | (NA)                     | 12,734               |   |
| 3392- --     | NONFERROUS FORGINGS, TOTAL.....   | (X)  | 198,416                | (X)                      | 131,995              |   |
| 33920 11     | Copper and copper-base alloy.....   | 30,286   | 44,864                 | 10,002                   | 14,325               |   |
| 33920 33     | Aluminum and aluminum-base alloy:   | 34,774   | 89,775                 | 22,055                   | 68,188               |   |
| 33920 35     |   |  |                        |                          |                      | Closed die.....                                     |
| 33920 51     | Open die.....   | 5,317  | 9,660                  | 3,305                    | 5,993                |   |
| 33920 61     | Magnesium and magnesium-base alloy.....   | 311  | 2,308                  | (X)                      | (6)                  |   |
| 33920 98     | Titanium and titanium-base alloy.....   | 2,220  | 33,047                 | 884                      | 33,379               |   |
| 33920 00     | Other nonferrous metal forgings.....  | (X)  | 15,937                 | (X)                      | <sup>6</sup> 6,034   |   |
| 33920 00     | Nonferrous forgings, n.s.k.....   | (X)  | 2,825                  | (X)                      | 4,076                |   |
| 3399- --     | PRIMARY METAL INDUSTRIES, N.E.C., TOTAL.....  | (X)  | 270,496                | (X)                      | 150,498              |   |
| 33991 --     | Metal powders and paste.....  | (X)  | 106,832                | (X)                      | 55,108               |   |
| 33991 11     | Aluminum and aluminum-base alloy <sup>7</sup> .....   | <sup>8</sup> 23,341                            | 24,901                 | <sup>8</sup> 13,867      | 15,409               |   |
| 33991 33     |   |  |                        |                          |                      | Copper and copper-base alloy <sup>9</sup> .....     |
| 33991 55     |   |  |                        |                          |                      | Iron and steel.....                                 |
| 33991 98     |   |  |                        |                          |                      | Other nonferrous powders.....                       |
| 33991 00     |   |  |                        |                          |                      | Metal powders and paste, not specified by type..... |
| 33992 --     | Primary metal products, n.e.c.....  | (X)  | 11,248                 | 1,953                    | 2,051                |   |
| 33992 11     | } Nonferrous nails, brads, tacks, and staples.....  | 4,524  | 4,289                  | 1,953                    | 2,051                |   |
| 33992 98     |   |  |                        |                          |                      | Other primary metal products, n.e.c.....            |
| 33992 00     |   |  |                        |                          |                      | Primary metal products, n.e.c., n.s.k.....          |
| 33996 11     | Heat treating of metal for the trade (heat treating, pickling, annealing, etc.) <sup>12</sup> ..... | (X)  | 140,288                | (X)                      | 85,258               |   |
| 33990 00     | Primary metal products, n.s.k.....  | (X)  | 12,128                 | (X)                      | 8,081                |   |

Footnotes on next page.

TABLE 6A. **Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued**

Footnotes for Table 6A--33E

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Includes product class 33129, open die hammer and press forgings made in blast furnaces and steel mills.

<sup>2</sup>These figures are not strictly comparable with tonnage figures shown in Current Industrial Reports Series M33C, Commercial Steel Forgings, in that the latter include only forgings for sale, whereas the 1963 and 1958 Census of Manufactures also include interplant transfers of forgings. Accordingly, a direct comparison with the monthly Current Industrial Reports Series is not possible. Forgings produced and consumed are not included in either the census or the Current Industrial Reports figures. The annual totals in the monthly Current Industrial Reports survey for commercial steel forgings were as follows:

| Item   | 1963<br>(short tons) | 1958<br>(short tons) |
|--|----------------------|----------------------|
| Closed die (drop, upset and press) forgings: |                      |                      |
| Carbon.....                                  | 785,267              | 528,716              |
| Alloy, including stainless.....              | 391,346              | 295,141              |
| Open die hammer and press forgings:          |                      |                      |
| Carbon.....                                  | 156,074              | 92,096               |
| Alloy, including stainless.....              | 219,936              | 163,480              |

<sup>3</sup>In 1958 product codes 3312921, 3391921, 3312961, and 3391941 were combined.

<sup>4</sup>In 1958 product codes 3312923, 3391922, 3312963, and 3391942 were combined.

<sup>5</sup>In 1958 product codes 3312925, 3391923, 3312965, and 3391943 were combined.

<sup>6</sup>In 1958, magnesium and magnesium-base alloy forgings were included with "Other nonferrous forgings" (3392098).

<sup>7</sup>Monthly figures are also shown in Current Industrial Reports Series M33-2, Aluminum Ingot and Mill Products.

<sup>8</sup>Represents aluminum content.

<sup>9</sup>Quarterly figures are also shown in Current Industrial Reports Series BDSAF-84, Shipments of Copper-Base Mill and Foundry Products.

<sup>10</sup>Represents copper content.

<sup>11</sup>Represents iron content.

<sup>12</sup>Consists almost exclusively of receipts for work done on materials owned by others. Includes only work done by establishments classified in industry 3399.

TABLE 6B. **Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958**

| Product code | Product and year   | Indexes (1954 = 100) |                  |
|--------------|--|----------------------|------------------|
|              |  | Production           | Unit value       |
| 339--        | Primary metal industries, n.e.c. <sup>1</sup> .....1963..              | 138                  | 125              |
|              | .....1958..  | 91                   | 124              |
| 3391-        | Iron and steel forgings.....1963..                                     | 121                  | 129              |
|              | .....1958..  | 86                   | 125              |
| 33911        | Closed die (drop, upset and press) forgings.....1963..                 | 109                  | 130              |
|              | .....1958..  | 83                   | 125              |
| 33919        | Open die hammer and press forgings made in<br>industry 3391.....1963.. | 175                  | 126              |
|              | .....1958..  | 93                   | 126              |
| 3392-        | Nonferrous forgings.....1963..   | 181                  | 107              |
|              | .....1958..  | 108                  | 120              |
| 3399-        | Primary metal industries, n.e.c.....1963..                             | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | .....1958..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 33991        | Metal powders and paste.....1963..                                     | 188                  | 105              |
|              | .....1958..  | 94                   | 116              |

n.e.c. Not elsewhere classified.

<sup>1</sup>Adjusted to include products of industry 3399, for which separate indexes are not shown because comparable quantity data were not obtained for a significant portion of product classes 33992 and 33996.



TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments, 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class   | 1963      | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958    | 1954    | 1947    |
|-------|---|-----------|-------------------|-------------------|-------------------|-------------------|---------|---------|---------|
| 3391- | Iron and steel forgings <sup>2</sup> .....  | 1,075,596 | 1,036,185         | 869,450           | 959,776           | 951,022           | 782,694 | 704,624 | 439,560 |
| 33911 | Drop, upset and press steel forgings<br>(closed die).....   | 764,822   | 776,185           | 628,665           | 708,513           | 715,817           | 535,319 | 513,873 | 296,375 |
| 33919 | Open die or smith forgings <sup>2</sup> (open frame<br>hammer or press) (produced from purchased<br>materials)..... | 294,384   | 260,000           | 240,785           | 251,763           | 235,205           | 234,641 | 188,323 | 127,984 |
| 33910 | Iron and steel forgings, n.s.k.....   | 16,390    |                   |                   |                   |                   |         |         |         |
| 33920 | Nonferrous forgings.....  | 198,416   | 223,151           | 164,717           | 151,032           | 151,303           | 131,995 | 112,359 | 29,374  |
| 3399- | Primary metal industries, n.e.c.....  | 270,496   | 228,104           | 191,341           | 184,392           | 178,422           | 150,498 | (NA)    | (NA)    |
| 33991 | Metal powders and paste.....  | 106,832   | 88,553            | 70,287            | 71,325            | 73,684            | 55,108  | 50,349  | 19,288  |
| 33992 | Other primary metal products, including<br>nonferrous nails, brads, spikes, and<br>staples.....                     | 11,248    | 139,551           | 121,054           | 113,067           | 104,738           | 2,051   | 5,429   | (NA)    |
| 33996 | Heat treating of steel for the trade.....   | 140,288   |                   |                   |                   |                   |         |         |         |
| 33990 | Primary metal industries, n.e.c., n.s.k....   | 12,128    |                   |                   |                   |                   |         |         |         |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>2</sup>Includes total for product class 33129, Press and hammer steel forgings (made in steel mills), which is primary to industry 3312.

TABLE 6D. **Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958**

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area   | Value of shipments |         | Product class and geographic area  | Value of shipments |        | Product class and geographic area         | Value of shipments |         |
|---|--------------------|---------|--|--------------------|--------|---|--------------------|---------|
|   | 1963 <sup>1</sup>  | 1958    |  | 1963 <sup>1</sup>  | 1958   |   | 1963 <sup>1</sup>  | 1958    |
| DROP, UPSET AND PRESS STEEL FORGINGS (CLOSED DIE) (33911)   |                    |         | OPEN DIE OR SMITH FORGINGS, (OPEN FRAME HAMMER OR PRESS) (PRODUCED FROM PURCHASED MATERIALS) (33129 AND 33919)—Continued |                    |        | METAL POWDERS AND PASTE (33991)—Continued |                    |         |
| United States, total....  | 764,822            | 535,319 |  |                    |        | East North Central.....                   | 27,471             | 10,533  |
| New England.....  | 41,606             | 42,412  | North Central.....   | 94,545             | (2)    | Indiana.....                              | 7,418              | (2)     |
| Massachusetts.....  | 35,498             | 32,418  | Ohio.....  | 43,391             | 10,300 | Illinois.....                             | 3,107              | (2)     |
| Middle Atlantic.....  | 76,802             | 64,967  | Illinois.....  | 15,820             | 12,244 | Michigan.....                             | 10,923             | 2,371   |
| Pennsylvania.....   | 43,666             | 46,787  | Michigan.....  | 27,344             | 10,678 | West North Central.....                   | 1,244              | (2)     |
| East North Central.....   | 584,061            | 384,035 |  |                    |        | South.....                                | 15,620             | (2)     |
| Ohio.....   | 123,023            | 104,797 | South.....   | 5,600              | (2)    | West.....                                 | 5,594              | (2)     |
| Indiana.....  | 75,746             | 48,907  | Texas.....   | 4,126              | (2)    | California.....                           | 2,144              | (2)     |
| Illinois.....   | 114,727            | 76,886  | West.....  | 17,441             | (2)    |   |                    |         |
| Michigan.....   | 194,265            | 92,537  | California.....  | 14,981             | 12,658 | NONFERROUS FORGINGS (33920)               |                    |         |
| Wisconsin.....  | 76,300             | 60,908  |  |                    |        | United States, total....                  |                    | 198,416 |
| West South Central.....   | 17,232             | 9,148   |  |                    |        | New England.....                          |                    | 34,237  |
| Pacific.....  | 19,471             | 16,619  | METAL POWDERS AND PASTE (33991)  |                    |        | Middle Atlantic.....                      |                    | 34,379  |
| All other divisions.....  | 25,650             | 18,138  | United States, total....   | 106,832            | 55,108 | East North Central.....                   |                    | 82,924  |
|   |                    |         | New England.....   | 8,262              | 2,543  | Michigan.....                             |                    | 22,158  |
| OPEN DIE OR SMITH FORGINGS (OPEN FRAME HAMMER OR PRESS) (PRODUCED FROM PURCHASED MATERIALS) (33129 AND 33919) |                    |         | Middle Atlantic.....   | 48,641             | 30,894 | Pacific.....                              |                    | 29,335  |
| United States, total....  | 294,384            | 234,641 | New York.....  | 4,126              | 4,037  | California.....                           |                    | 29,335  |
| Northeast.....  | 176,798            | 176,428 | New Jersey.....  | 25,589             | 17,001 | All other divisions.....                  |                    | 17,541  |
| Massachusetts.....  | 1,419              | (Z)     | Pennsylvania.....  | 18,926             | 9,856  |   |                    |         |
| New York.....   | 17,205             | 18,673  |  |                    |        |   |                    |         |
| Pennsylvania.....   | 147,129            | 144,746 |  |                    |        |   |                    |         |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 33911, Rhode Island, Connecticut, New York, New Jersey, Missouri, Kentucky, Tennessee, Oklahoma, Texas, and California; 33129 and 33919, Connecticut, New Jersey, Indiana, Wisconsin, and Washington; 33920, Massachusetts, Connecticut, New York, New Jersey, Pennsylvania, Ohio, Indiana, Illinois, Wisconsin, Kentucky, and Texas; 33991, Massachusetts, Connecticut, Ohio, Missouri, Kentucky, Tennessee, and Nevada.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code                                   | Material  | Unit of measure   | 1963     |                          | 1958     |                          |
|--|---|-------------------|----------|--------------------------|----------|--------------------------|
|  |   |                   | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3391.—IRON AND STEEL FORGINGS |   |                   |          |                          |          |                          |
|  | Materials, containers, and supplies, total.....                                   |                   | (X)      | 408,283                  | (X)      | 317,019                  |
|  | Carbon steel:   |                   |          |                          |          |                          |
| 331041                                 | Ingots.....   | Short tons.....   | 12,518   | 1,535                    | 21,693   | 2,101                    |
| 331042                                 | Blooms, billets and slabs.....  | ..do.....         | 378,074  | 52,858                   | 298,468  | 38,655                   |
| 331043                                 | Bars.....   | ..do.....         | 577,850  | 96,529                   | 493,026  | 69,651                   |
|  | Alloy steel (except stainless):   |                   |          |                          |          |                          |
| 331044                                 | Ingots.....   | ..do.....         | 18,970   | 4,156                    | 32,059   | 5,827                    |
| 331045                                 | Blooms, billets and slabs.....  | ..do.....         | 182,187  | 53,879                   | 164,148  | 40,588                   |
| 331046                                 | Bars.....   | ..do.....         | 351,519  | 85,228                   | 283,091  | 64,056                   |
|  | Stainless steel:  |                   |          |                          |          |                          |
| 331047                                 | Ingots.....   | ..do.....         | 987      | 1,432                    | 1,302    | 1,856                    |
| 331048                                 | Blooms, billets and slabs.....  | ..do.....         | 7,760    | 8,695                    | 10,431   | 11,585                   |
| 331049                                 | Bars.....   | ..do.....         | 6,317    | 7,424                    | 8,269    | 9,097                    |
|  | Aluminum and aluminum-base alloy:   |                   |          |                          |          |                          |
| 333471                                 | Ingot.....  | ..do.....         | (D)      | (D)                      | (NA)     | (NA)                     |
| 335208                                 | Metal shapes.....   | 1,000 pounds..... | 3,125    | 1,914                    | (NA)     | (NA)                     |
|  | Titanium and titanium-base alloy:   |                   |          |                          |          |                          |
| 335600                                 | Ingot.....  | ..do.....         | 3,920    | 10,947                   | (NA)     | (NA)                     |
| 335601                                 | Mill shapes.....  | ..do.....         |          |                          | (NA)     | (NA)                     |
| 970099                                 | All other material and components, parts, containers and supplies consumed.....   |                   | (X)      | 68,707                   | (X)      | 61,288                   |
| 976000                                 | Materials, n.s.k. <sup>1</sup> .....  |                   | (X)      | 14,979                   | (X)      | 12,315                   |
| INDUSTRY 3392.—NONFERROUS FORGINGS     |   |                   |          |                          |          |                          |
|  | Materials, containers, and supplies, total.....                                   |                   |          |                          | (X)      | 85,270                   |
|  | Carbon steel:   |                   |          |                          |          |                          |
| 331041                                 | Ingots.....   | Short tons.....   | }        | 23,793                   | }        | 13,079                   |
| 331042                                 | Blooms, billets and slabs.....  | ..do.....         |          |                          |          |                          |
| 331043                                 | Bars.....   | ..do.....         |          |                          |          |                          |
|  | Alloy steel (except stainless):   |                   |          |                          |          |                          |
| 331044                                 | Ingots.....   | ..do.....         | }        | 23,793                   | }        | 13,079                   |
| 331045                                 | Blooms, billets and slabs.....  | ..do.....         |          |                          |          |                          |
|  | Stainless steel:  |                   |          |                          |          |                          |
| 331047                                 | Ingots.....   | ..do.....         | }        | 23,793                   | }        | 13,079                   |
| 331048                                 | Blooms, billets and slabs.....  | ..do.....         |          |                          |          |                          |
| 331049                                 | Bars.....   | ..do.....         |          |                          |          |                          |
|  | Aluminum and aluminum-base alloy:   |                   |          |                          |          |                          |
| 333471                                 | Ingot.....  | ..do.....         |          | (D)                      |          | (D)                      |
| 335208                                 | Mill shapes.....  | 1,000 lbs.....    | 1,000    | 66,792                   |          | 26,088                   |
|  | Titanium and titanium-base alloy:   |                   |          |                          |          |                          |
| 335600                                 | Ingot.....  | ..do.....         | }        | 1,548                    | }        | 4,977                    |
| 335601                                 | Mill shapes.....  | ..do.....         |          |                          |          |                          |
| 970099                                 | All other materials and components, parts, containers, and supplies consumed..... |                   |          |                          | (X)      | 40,329                   |
| 976000                                 | Materials, n.s.k.....   |                   |          |                          | (X)      | 797                      |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

<sup>1</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

<sup>2</sup>Comparable data are not available for 1958.

TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Iron and steel forgings (SIC 3391) | Nonferrous forgings (SIC 3392) | Primary metal industries, n.e.c. (SIC 3399) |
|---|------------------------------------|--------------------------------|---|
| Total cost of purchased fuels and electric energy.....\$1,000...  | 31,421                             | 4,545                          | 10,173                                      |
| Total cost of purchased fuels.....do.....   | 23,644                             | 2,077                          | 5,266                                       |
| Bituminous coal, lignite, and anthracite:   |                                    |                                |   |
| Quantity.....1,000 short tons..   | 488                                | (S)                            | (S)   |
| Cost.....\$1,000...   | 3,447                              | (S)                            | (S)   |
| Coke and breeze:  |                                    |                                |   |
| Quantity.....1,000 short tons..   | (S)                                | -                              | (S)   |
| Cost.....\$1,000...   | (S)                                | -                              | (S)   |
| Fuel oil (distillate and residual):   |                                    |                                |   |
| Quantity.....1,000 barrels of 42 gallons...   | 2,440                              | 78                             | (S)   |
| Cost.....\$1,000...   | 9,832                              | 257                            | (S)   |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |                                    |                                |   |
| Quantity.....million cu. ft...  | 17,853                             | 2,063                          | 7,735                                       |
| Cost.....\$1,000...   | 9,758                              | 1,447                          | 4,235                                       |
| Other fuels.....do.....   | (S)                                | (S)                            | 528   |
| Electric energy:  |                                    |                                |   |
| Purchased:  |                                    |                                |   |
| Quantity.....million kw.-hrs..  | 554                                | 209                            | 386   |
| Cost.....\$1,000...   | 7,777                              | 2,468                          | 4,907                                       |
| Generated less sold.....million kw.-hrs..   | 8                                  | -                              | -   |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....\$1,000... | 572                                | 126                            | 103   |
| Prime movers, total.....do.....   | 53                                 | 5                              | 6   |
| Driving generators.....do.....  | 19                                 | 1                              | (Z)   |
| Not driving generators.....do.....  | 34                                 | 4                              | 6   |
| Electric motors, total.....do.....  | 525                                | 122                            | 97  |
| Driven by purchased energy.....do.....  | 519                                | 122                            | 97  |
| Driven by energy generated at establishment.....do.....   | 6                                  | -                              | -   |
| Aggregate horsepower per 100 production workers.....  | 1,764                              | 2,111                          | 1,070                                       |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.



**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3391                           | IRON AND STEEL FORGINGS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 272                     | 36,317         | 259,793           | 29,240             | 58,316            | 198,272         | 395,302  | 470,920                     | 868,648                      | 17,516                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 227                     | 23,998         | 174,126           | 19,899             | 40,229            | 135,419         | 274,615  | 344,046                     | 618,453                      | 10,748                              |
|                                | 75-89% specialization.....   | 16                      | 3,701          | 24,433            | 2,986              | 5,709             | 18,584          | 37,633   | 37,809                      | 76,050                       | 1,402                               |
| 33911                          | Drop, upset and press steel forgings (closed die) (primary product class of estab.).....   | 140                     | 29,256         | 208,457           | 23,702             | 44,898            | 161,170         | 313,373  | 372,606                     | 687,227                      | 13,546                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 101                     | 13,624         | 97,653            | 11,528             | 23,099            | 77,206          | 150,844  | 194,374                     | 344,689                      | 5,606                               |
|                                | 75-89% specialization.....   | 17                      | 4,838          | 33,723            | 4,096              | 8,093             | 27,238          | 50,027   | 58,091                      | 107,461                      | 1,616                               |
| 33919                          | Open die or smith forgings (open frame hammer or press) produced from purchased materials (primary product class of estab.)..... | 72                      | 6,219          | 46,132            | 4,881              | 10,070            | 33,457          | 72,068   | 90,078                      | 163,552                      | 3,375                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 57                      | 3,520          | 24,414            | 2,744              | 5,672             | 17,044          | 35,345   | 36,159                      | 72,395                       | 943                                 |
| 3399-                          | PRIMARY METAL INDUSTRIES, N.E.C.   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 754                     | 14,956         | 94,704            | 11,513             | 24,658            | 65,437          | 192,250  | 93,593                      | 284,661                      | 13,501                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 627                     | 11,646         | 72,579            | 8,925              | 19,165            | 49,548          | 142,683  | 70,579                      | 212,389                      | 9,540                               |
|                                | 75-89% specialization.....   | 9                       | 523            | 3,499             | 370                | 802               | 2,109           | 7,187  | 6,077                       | 13,476                       | 625                                 |
| 33991                          | Metal powders and paste (primary product class of estab.).....   | 69                      | 3,043          | 18,973            | 2,116              | 4,398             | 12,065          | 48,151   | 45,011                      | 90,670                       | 3,573                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 60                      | 2,126          | 12,745            | 1,509              | 3,118             | 8,209           | 35,330   | 35,200                      | 69,501                       | 3,570                               |
| 33996                          | Heat treating of steel for the trade (primary product class of estab.).....  | 423                     | 8,961          | 57,048            | 6,954              | 15,066            | 38,968          | 101,777  | 30,557                      | 132,945                      | 6,450                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 404                     | 8,348          | 53,204            | 6,506              | 14,149            | 36,598          | 93,965   | 27,684                      | 121,935                      | 5,811                               |
|                                | 75-89% specialization.....   | 10                      | 361            | 2,418             | 265                | 560               | 1,494           | 5,496  | 1,319                       | 7,040                        | 455                                 |

n.e.c. Not elsewhere classified.

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations                 | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|---|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|   | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|   |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3391.--IRON AND STEEL FORGINGS |                          |   |         |            |                                       |   |         |            |
| Machine shop.....                       | 100                      | 30  | 42      | 28         | 3,943                                 | 57  | 466     | 3,420      |
| Tool and die shop.....                  | 95                       | 25  | 35      | 35         | 2,413                                 | 43  | 368     | 2,002      |
| INDUSTRY 3392.--NONFERROUS FORGINGS     |                          |   |         |            |                                       |   |         |            |
| Machine shop.....                       | 14                       | 4   | 8       | 2          | 796                                   | 6   | (D)     | (D)        |
| Tool and die shop.....                  | 15                       | 5   | 5       | 5          | 398                                   | 7   | 51      | 340        |

Note: Very small establishments were not requested to report their metalworking operations and, in some instances, a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production-worker employment on the last line of the table below:

| Item  | Industry |          |
|---|----------|----------|
|   | 3391     | 3392     |
| Total number of establishments in the industry.....   | 272      | 34       |
| Number of establishments which reported one or more of the specified operations.....                              | 156      | 20       |
| Percent of industry production workers in these establishments.....   | (80-85)  | (95-100) |
| Number of establishments which reported "none" of the operations apply.....                                       | 39       | 10       |
| Percent of industry production workers in these establishments.....   | (0-5)    | (0-5)    |
| Percent of industry production workers in establishments which completed the metalworking operations inquiry..... | (85-90)  | (95-100) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on the total employment in the establishment.



## Fabricated Metal Products

- 34A Metal cans, cutlery, hand tools, and general hardware
- 34B Heating apparatus, except electric, and plumbing fixtures
- 34C Fabricated structural metal products
- 34D Screw machine products, bolts, metal stampings, and metal services
- 34E Fabricated metal products, n.e.c.

This major group includes establishments primarily engaged in manufacturing a wide variety of fabricated metal products. Other important segments of the metal fabricating industries are classified in other major groups such as machinery, in Major Groups 35 and 36, transportation equipment in Major Group 37, instruments and related products in Major Group 38, jewelry and silverware in Major Group 39, and metal furniture and fixtures in Major Group 25.

The industries included in this major group encompass a varied group of fabricated metal finished products (cutlery, hardware, oil burners, plumbing fixtures, metal doors, safes, etc.), materials or components for incorporation into other products (sheet metal work, steel springs, bolts and nuts, etc.), containers (metal cans, metal shipping barrels and drums, and collapsible tubes), and service operations performed on a job or order basis for the trade (for example, galvanizing, coating, and engraving).

The products of Major Group 34 are used by establishments in other manufacturing industries—in construction, mines, farms, transportation, commerce, and in households. The

basic metals consumed are generally produced by establishments in Major Group 33, Primary Metal Industries.

Data on the number of establishments engaged in selected metalworking operations and the number of employees working in the operations are shown in table 9 for the 4-digit industries in Major Group 34. The operations shown in that table do not represent, of course, a complete list or, for many metal fabricating industries in this group, even the most important ones. Although the production processes in this area adhere to a general pattern of specified metalworking and metal fabricating operations (e.g. machine shop, steel plate fabrication, etc.), there is a substantial variation in the number and types of processes performed by an individual establishment as well as from industry to industry. Within many of these industries, establishments typically purchase mill shapes and carry out the entire fabricating of the metal until it emerges as a finished product. In other industries, however, such as in the plumbing and nonelectric heating subgroup, the establishments may be primarily engaged in assembling component parts produced by other companies or other plants of the same company.

# FABRICATED METAL PRODUCTS: MAJOR GROUP 34

Value Added by Manufacture by State: 1963

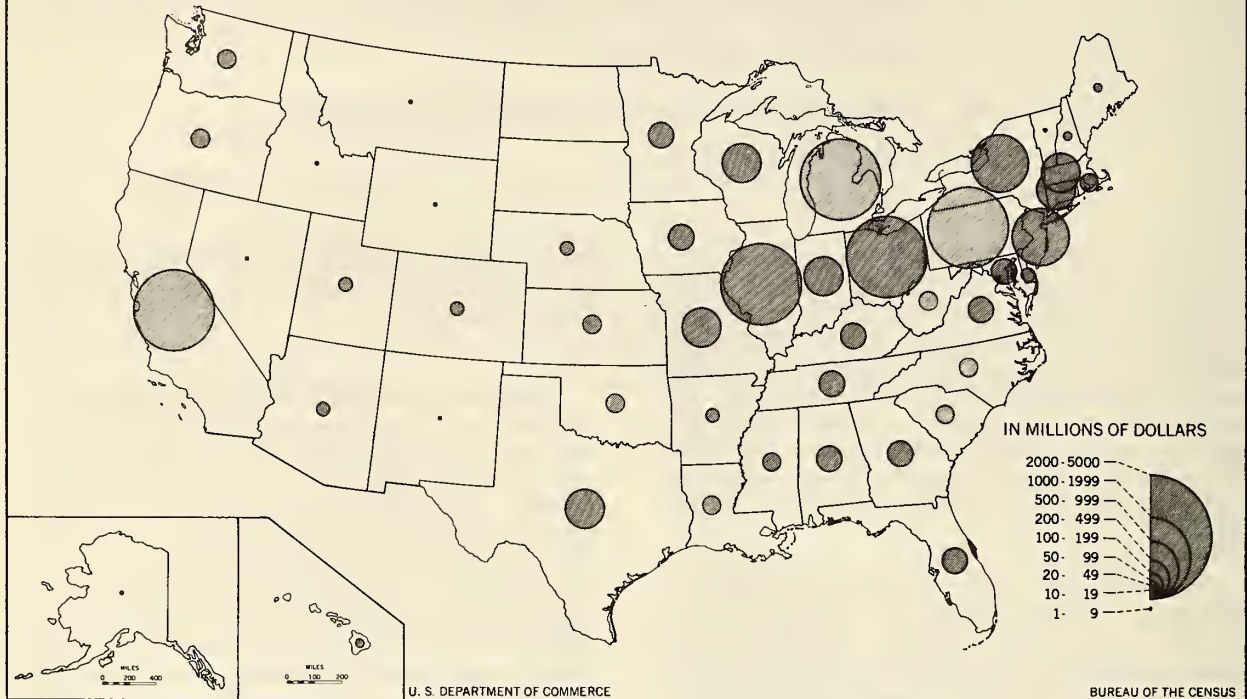




TABLE 1. General Statistics: 1963 and Earlier Years

| Year and item                                   | Establishments    |                                       | All employees <sup>1</sup> |                      | Production workers |                      |                    | Value added by manufacture, adjusted <sup>2</sup> | Cost of materials <sup>3</sup> | Value of shipments <sup>3</sup> | Capital expenditures, new <sup>4</sup> |
|---|-------------------|---------------------------------------|----------------------------|----------------------|--------------------|----------------------|--------------------|---|--------------------------------|---------------------------------|--|
|   | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number)          | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                |                                 |  |
| <b>ALL MANUFACTURING ESTABLISHMENTS, TOTAL:</b> |                   |                                       |                            |                      |                    |                      |                    |   |                                |                                 |  |
| 1963  | 27 275            | 9 394                                 | 1 110 649                  | 6 643 976            | 843 795            | 1 721 034            | 4 483 688          | 11 791 081  | 11 397 850                     | 23 065 207                      | 570 077                                |
| 1958  | 25 029            | 8 480                                 | 1 090 280                  | 5 634 162            | 814 532            | 1 608 624            | 3 733 889          | 9 439 843   | (NA)                           | 19 230 112                      | 463 594                                |
| 1954  | (NA)              | (NA)                                  | 1 040 123                  | 4 535 400            | 821 172            | 1 652 366            | 3 174 186          | 7 653 391   | (NA)                           | (NA)                            | 432 491                                |
| <b>ADMINISTRATIVE AND AUXILIARY UNITS:</b>      |                   |                                       |                            |                      |                    |                      |                    |   |                                |                                 |  |
| 1963  | 300               | 184                                   | 28 547                     | 256 468              | (X)                | (X)                  | (X)                | (X)   | (X)                            | (X)                             | (X)                                    |
| 1958  | 246               | 157                                   | 29 774                     | 208 902              | (X)                | (X)                  | (X)                | (X)   | (X)                            | (X)                             | (X)                                    |
| 1954  | (NA)              | (NA)                                  | 20 717                     | 138 063              | (X)                | (X)                  | (X)                | (X)   | (X)                            | (X)                             | (X)                                    |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                   |                                       |                            |                      |                    |                      |                    |   |                                |                                 |  |
| 1963  | 26 975            | 9 210                                 | 1 082 102                  | 6 387 508            | 843 795            | 1 721 034            | 4 483 688          | 11 791 081  | 11 397 850                     | 23 065 207                      | 570 077                                |
| 1958  | 24 783            | 8 323                                 | 1 060 506                  | 5 425 260            | 814 532            | 1 608 624            | 3 733 889          | 9 439 843   | (NA)                           | 19 230 112                      | 463 594                                |
| 1954  | 22 516            | 7 348                                 | 1 019 406                  | 4 397 337            | 821 172            | 1 652 366            | 3 174 186          | 7 653 391   | (NA)                           | (NA)                            | 432 491                                |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                   |                                       |                            |                      |                    |                      |                    |   |                                |                                 |  |
| 1962  | (NA)              | (NA)                                  | 1 084 275                  | 6 233 521            | 833 683            | 1 717 009            | 4 283 314          | 11 127 837  | 11 201 507                     | 23 309 448                      | 529 749                                |
| 1961  | (NA)              | (NA)                                  | 1 050 243                  | 5 810 163            | 802 522            | 1 628 579            | 3 953 230          | 10 290 577  | 10 476 255                     | 20 759 933                      | 416 446                                |
| 1960  | (NA)              | (NA)                                  | 1 086 214                  | 5 883 599            | 835 476            | 1 699 300            | 4 034 300          | 10 330 477  | (NA)                           | (NA)                            | 483 487                                |
| 1959  | (NA)              | (NA)                                  | 1 088 598                  | 5 805 269            | 842 850            | 1 713 784            | 4 004 210          | 10 487 642  | (NA)                           | (NA)                            | 504 758                                |
| 1957  | (NA)              | (NA)                                  | 1 113 534                  | 5 383 103            | 880 066            | 1 750 841            | 3 802 896          | 9 543 780   | (NA)                           | (NA)                            | 527 507                                |
| 1956  | (NA)              | (NA)                                  | 1 101 839                  | 5 126 533            | 880 999            | 1 773 959            | 3 669 191          | 9 243 841   | (NA)                           | (NA)                            | 497 854                                |
| 1955  | (NA)              | (NA)                                  | 1 093 509                  | 4 863 276            | 885 194            | 1 787 018            | 3 532 819          | 8 774 849   | (NA)                           | (NA)                            | 457 783                                |
| 1953  | (NA)              | (NA)                                  | 1 117 600                  | 4 765 443            | 915 614            | 1 884 551            | 3 555 086          | 8 143 660   | (NA)                           | (NA)                            | 446 208                                |
| 1952  | 17 953            | (NA)                                  | 1 007 589                  | 4 124 226            | 820 088            | 1 691 783            | 3 036 801          | 7 168 308   | (NA)                           | (NA)                            | 327 450                                |
| 1951  | 17 552            | (NA)                                  | 1 035 246                  | 3 988 317            | 852 592            | 1 765 403            | 2 970 170          | 7 138 582   | (NA)                           | (NA)                            | 354 110                                |
| 1950  | 16 975            | (NA)                                  | 988 783                    | 3 404 061            | 806 801            | 1 658 280            | 2 523 638          | 6 210 759   | (NA)                           | (NA)                            | 317 027                                |
| 1949  | (NA)              | (NA)                                  | 872 229                    | 2 883 510            | 710 280            | 1 428 451            | 2 088 285          | 4 834 171   | (NA)                           | (NA)                            | 230 879                                |
| 1947  | 16 777            | (NA)                                  | 973 174                    | 2 833 684            | 823 012            | 1 694 666            | 2 189 032          | 4 920 304   | (NA)                           | (NA)                            | 304 822                                |
| 1937  | 9 532             | (NA)                                  | (NA)                       | (NA)                 | 451 087            | (NA)                 | 546 654            | 1 400 883   | (NA)                           | (NA)                            | (NA)                                   |
| 1937  | 8 588             | (NA)                                  | (NA)                       | (NA)                 | 493 091            | (NA)                 | 604 863            | 1 388 835   | (NA)                           | (NA)                            | (NA)                                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The figures for 1939 through 1963 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>2</sup>For the period 1954 to 1963, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture."

<sup>3</sup>The total value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same classification. For a more complete explanation, see Introduction.

<sup>4</sup>The figures for 1958 to 1963 include expenditures for plants under construction and not yet in operation.

<sup>5</sup>In addition to data for operating establishments, figures for employment and payroll for manufacturing central administrative office and auxiliary units are shown for the

years 1949 to 1953 in the annual survey of manufactures volumes. Data for these years are not available for the years 1955 to 1957, 1959 to 1962, and prior to 1949.

<sup>6</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>7</sup>The figures for 1939 to 1963 are not entirely comparable with those for 1937 because the 1937 figures exclude data for establishments primarily engaged in producing lawn sprinklers, spun ware, nonferrous metal novelties, tackle blocks, aluminum ornamental work, aluminum stampings, and machine knives (except metalworking) and include data for establishments primarily engaged in making caulking guns, toilet seats, brooders, cast aluminum cooking ware, and hair clippers. Value added for 1939 on a basis strictly comparable with 1937 was \$1,340.4 million.

<sup>8</sup>The figures for 1935 and earlier years are not sufficiently comparable with those for 1937 to 1963 to be shown in this table principally because of the inclusion in earlier years of data for establishments primarily engaged in the manufacture of valves and fittings, except plumbers' and the exclusion of data for establishments primarily engaged in the manufacture of stamped, pressed, and spun aluminum ware.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Code | Industry group and geographic area         | 1963           |                                    |                |                   |                    |                   |                 |  |                                     | 1958                   |  |
|------|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 34   | FABRICATED METAL PRODUCTS, TOTAL . . . . . | 26 975         | 9 210                              | 1 082 102      | 6 387 508         | 843 795            | 1 721 034         | 4 483 688       | 11 791 081                                     | 570 077                             | 1 060 506              | 9 439 843                                      |
|      | NORTHEAST . . . . .                        | 8 892          | 2 922                              | 340 143        | 1 977 187         | 263 903            | 535 116           | 1 385 095       | 3 621 642                                      | 165 806                             | 352 347                | 3 022 812                                      |
|      | NEW ENGLAND . . . . .                      | 2 502          | 811                                | 91 701         | 506 651           | 70 544             | 144 213           | 345 924         | 977 934  | 52 861                              | 96 038                 | 766 543  |
|      | MAINE . . . . .                            | 55             | 16                                 | 1 471          | 7 997             | 1 092              | 2 266             | 5 902           | 15 259   | 730                                 | 1 578                  | 14 129   |
|      | NEW HAMPSHIRE . . . . .                    | 71             | 26                                 | 2 107          | 10 087            | 1 731              | 3 571             | 7 150           | 17 535   | 741                                 | 1 593                  | 10 695   |
|      | VERMONT . . . . .                          | 30             | 7                                  | 575            | 2 875             | 455                | 948               | 1 987           | 5 160  | 431                                 | 531                    | 4 570  |
|      | MASSACHUSETTS . . . . .                    | 1 105          | 372                                | 39 608         | 222 180           | 30 030             | 62 047            | 151 375         | 450 999  | 20 095                              | 40 941                 | 356 402  |
|      | RHODE ISLAND . . . . .                     | 357            | 74                                 | 7 606          | 36 628            | 6 121              | 12 151            | 26 070          | 66 746   | 2 701                               | 7 899                  | 56 013   |
|      | CONNECTICUT . . . . .                      | 884            | 316                                | 40 921         | 226 284           | 31 115             | 63 230            | 153 440         | 422 235  | 28 163                              | 43 496                 | 324 734  |
|      | MIDDLE ATLANTIC . . . . .                  | 6 390          | 2 111                              | 248 442        | 1 471 136         | 193 359            | 390 903           | 1 039 171       | 2 643 708                                      | 112 945                             | 256 309                | 2 256 269                                      |
|      | NEW YORK . . . . .                         | 3 078          | 900                                | 86 191         | 491 640           | 67 421             | 137 069           | 342 981         | 865 811  | 35 702                              | 88 272                 | 738 471  |
|      | NEW JERSEY . . . . .                       | 1 545          | 487                                | 57 451         | 355 299           | 44 763             | 92 435            | 250 752         | 692 037  | 32 111                              | 53 279                 | 508 042  |
|      | PENNSYLVANIA . . . . .                     | 1 767          | 724                                | 104 800        | 624 197           | 81 175             | 161 399           | 445 438         | 1 085 860                                      | 45 132                              | 114 758                | 1 009 756                                      |
|      | NORTH CENTRAL . . . . .                    | 9 337          | 3 627                              | 459 554        | 2 804 008         | 360 125            | 737 325           | 1 980 315       | 5 202 657                                      | 243 283                             | 449 920                | 4 133 260                                      |
|      | EAST NORTH CENTRAL . . . . .               | 7 863          | 3 099                              | 402 642        | 2 475 139         | 316 057            | 647 631           | 1 751 233       | 4 576 665                                      | 213 932                             | 394 430                | 3 599 226                                      |
|      | OHIO . . . . .                             | 2 016          | 826                                | 115 296        | 713 431           | 88 712             | 180 105           | 497 341         | 1 345 844                                      | 61 901                              | 115 401                | 1 054 966                                      |
|      | INDIANA . . . . .                          | 729            | 312                                | 43 045         | 252 924           | 33 565             | 67 154            | 177 059         | 462 711  | 19 657                              | 39 765                 | 357 776  |
|      | ILLINOIS . . . . .                         | 2 418          | 949                                | 121 879        | 747 508           | 96 352             | 197 039           | 531 644         | 1 366 458                                      | 63 635                              | 127 460                | 1 198 160                                      |
|      | MICHIGAN . . . . .                         | 2 078          | 790                                | 86 619         | 549 809           | 69 805             | 146 473           | 400 621         | 1 025 281                                      | 46 961                              | 79 052                 | 677 117  |
|      | WISCONSIN . . . . .                        | 622            | 222                                | 35 803         | 211 467           | 27 623             | 56 860            | 144 568         | 376 371  | 21 778                              | 32 752                 | 311 207  |
|      | WEST NORTH CENTRAL . . . . .               | 1 474          | 528                                | 56 912         | 328 869           | 44 068             | 89 694            | 229 082         | 625 992  | 29 351                              | 55 490                 | 534 034  |
|      | MINNESOTA . . . . .                        | 383            | 141                                | 13 279         | 78 200            | 10 607             | 21 497            | 56 122          | 142 036  | 6 811                               | 12 140                 | 117 232  |
|      | IOWA . . . . .                             | 217            | 78                                 | 9 249          | 51 365            | 7 009              | 14 474            | 34 923          | 101 304  | 3 844                               | 8 527                  | 94 219   |
|      | MISSOURI . . . . .                         | 561            | 199                                | 24 303         | 144 927           | 18 702             | 37 833            | 100 931         | 272 854  | 13 938                              | 25 230                 | 228 440  |
|      | NORTH DAKOTA . . . . .                     | 15             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | 270                    | 2 185  |
|      | SOUTH DAKOTA . . . . .                     | 26             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | 273                    | 4 250  |
|      | NEBRASKA . . . . .                         | 99             | 37                                 | 3 845          | 21 226            | 2 831              | 5 706             | 13 054          | 40 312   | 2 337                               | 3 583                  | 36 552   |
|      | KANSAS . . . . .                           | 173            | 67                                 | 5 447          | 29 372            | 4 370              | 9 007             | 21 776          | 63 114   | 2 229                               | 5 267                  | 48 156   |
|      | SOUTH . . . . .                            | 4 298          | 1 446                              | 171 415        | 897 170           | 134 557            | 276 773           | 627 764         | 1 675 713                                      | 93 733                              | 150 642                | 1 221 306                                      |
|      | SOUTH ATLANTIC . . . . .                   | 1 869          | 614                                | 70 829         | 367 381           | 55 922             | 115 616           | 258 165         | 710 082  | 44 718                              | 62 384                 | 493 298  |
|      | DELAWARE . . . . .                         | 36             | 15                                 | 1 617          | 9 792             | 1 224              | 2 484             | 6 881           | 20 768   | 599                                 | 2 341                  | 21 659   |
|      | MARYLAND . . . . .                         | 283            | 104                                | 13 340         | 81 547            | 10 385             | 21 680            | 58 522          | 153 270  | 8 425                               | 14 477                 | 135 399  |
|      | DISTRICT OF COLUMBIA . . . . .             | 24             | 5                                  | 452            | 2 811             | 396                | 710               | 2 267           | 3 814  | 93                                  | 549                    | 4 642  |
|      | VIRGINIA . . . . .                         | 190            | 81                                 | 9 926          | 52 154            | 7 531              | 15 534            | 33 530          | 100 642  | 7 687                               | 8 325                  | 57 644   |
|      | WEST VIRGINIA . . . . .                    | 85             | 43                                 | 7 177          | 36 732            | 5 936              | 11 611            | 28 233          | 79 395   | 2 225                               | 7 701                  | 60 010   |
|      | NORTH CAROLINA . . . . .                   | 471            | 82                                 | 9 063          | 43 219            | 7 260              | 15 477            | 29 235          | 75 021   | 6 492                               | 6 320                  | 43 895   |
|      | SOUTH CAROLINA . . . . .                   | 113            | 34                                 | 4 008          | 17 978            | 3 022              | 6 506             | 11 889          | 34 893   | 2 652                               | 1 992                  | 16 227   |
|      | GEORGIA . . . . .                          | 257            | 93                                 | 10 787         | 51 464            | 8 975              | 18 834            | 38 739          | 104 723  | 7 486                               | 6 973                  | 48 928   |
|      | FLORIDA . . . . .                          | 610            | 157                                | 14 459         | 71 684            | 11 193             | 22 780            | 48 869          | 137 556  | 9 059                               | 13 706                 | 104 894  |
|      | EAST SOUTH CENTRAL . . . . .               | 867            | 344                                | 48 402         | 249 805           | 38 420             | 76 632            | 176 284         | 461 271  | 23 467                              | 42 930                 | 344 700  |
|      | KENTUCKY . . . . .                         | 198            | 95                                 | 12 410         | 70 851            | 9 683              | 19 494            | 49 927          | 129 531  | 7 705                               | 12 263                 | 106 419  |
|      | TENNESSEE . . . . .                        | 310            | 122                                | 17 220         | 84 897            | 13 448             | 26 455            | 58 338          | 148 040  | 7 705                               | 15 611                 | 110 601  |
|      | ALABAMA . . . . .                          | 245            | 89                                 | 13 576         | 70 434            | 10 899             | 21 282            | 50 572          | 132 425  | 4 711                               | 12 358                 | 107 671  |
|      | MISSISSIPPI . . . . .                      | 114            | 38                                 | 5 196          | 23 623            | 4 390              | 9 401             | 17 447          | 51 275   | 3 346                               | 2 698                  | 20 009   |
|      | WEST SOUTH CENTRAL . . . . .               | 1 562          | 488                                | 52 184         | 279 984           | 40 215             | 84 525            | 193 315         | 504 360  | 25 548                              | 45 328                 | 383 308  |
|      | ARKANSAS . . . . .                         | 123            | 41                                 | 4 088          | 17 207            | 3 343              | 6 917             | 12 705          | 33 859   | 1 853                               | 27 472                 | 19 464   |
|      | LOUISIANA . . . . .                        | 191            | 54                                 | 7 214          | 41 480            | 5 630              | 11 818            | 30 353          | 77 997   | 3 500                               | 5 892                  | 52 491   |
|      | OKLAHOMA . . . . .                         | 231            | 73                                 | 7 889          | 44 155            | 5 973              | 12 559            | 28 551          | 83 932   | 2 387                               | 7 862                  | 72 344   |
|      | TEXAS . . . . .                            | 1 017          | 320                                | 32 993         | 177 142           | 25 269             | 53 231            | 121 706         | 308 572  | 17 808                              | 28 827                 | 239 009  |
|      | WEST . . . . .                             | 4 444          | 1 214                              | 111 116        | 709 640           | 85 296             | 171 996           | 490 878         | 1 297 552                                      | 66 832                              | 106 821                | 1 051 792                                      |
|      | MOUNTAIN . . . . .                         | 498            | 131                                | 10 830         | 63 199            | 8 252              | 16 653            | 44 528          | 114 155  | 4 470                               | 10 135                 | 83 658   |
|      | MONTANA . . . . .                          | 27             | 5                                  | 282            | 1 565             | 201                | 389               | 1 059           | 3 184  | 128                                 | 317                    | 2 461  |
|      | IDAHO . . . . .                            | 31             | 5                                  | 444            | 2 528             | 340                | 690               | 1 767           | 6 218  | 285                                 | 547                    | 3 496  |
|      | WYOMING . . . . .                          | 12             | 1                                  | 138            | 650               | 101                | 199               | 413             | 971  | 92                                  | 156                    | 1 005  |
|      | COLORADO . . . . .                         | 182            | 51                                 | 4 183          | 26 240            | 3 123              | 6 384             | 17 328          | 46 976   | 2 060                               | 3 991                  | 37 442   |
|      | NEW MEXICO . . . . .                       | 27             | 5                                  | 334            | 1 614             | 274                | 565               | 1 180           | 2 938  | 122                                 | 492                    | 4 075  |
|      | ARIZONA . . . . .                          | 114            | 23                                 | 2 577          | 13 748            | 1 964              | 3 814             | 9 832           | 23 558   | 931                                 | 1 720                  | 12 700   |
|      | UTAH . . . . .                             | 89             | 35                                 | 2 639          | 15 420            | 2 071              | 4 263             | 11 888          | 28 851   | 741                                 | 2 792                  | 21 390   |
|      | NEVADA . . . . .                           | 16             | 6                                  | 233            | 1 434             | 178                | 349               | 1 061           | 1 459  | 111                                 | 120                    | 1 089  |
|      | PACIFIC . . . . .                          | 3 946          | 1 083                              | 100 286        | 646 441           | 77 044             | 155 343           | 446 350         | 1 183 397                                      | 62 362                              | 97 458                 | 987 766  |
|      | WASHINGTON . . . . .                       | 309            | 69                                 | 6 021          | 40 802            | 4 754              | 9 154             | 29 978          | 76 474   | 2 409                               | 6 661                  | 65 122   |
|      | OREGON . . . . .                           | 245            | 63                                 | 4 938          | 30 739            | 3 750              | 7 204             | 21 105          | 58 626   | 2 845                               | 5 002                  | 46 659   |
|      | CALIFORNIA . . . . .                       | 3 359          | 942                                | 88 535         | 570 297           | 67 922             | 137 747           | 392 047         | 1 036 525                                      | 56 533                              | 85 023                 | 856 353  |
|      | ALASKA . . . . .                           | 8              | 1                                  | 34             | 387               | 29                 | 69                | 308             | 705  | 25                                  | (D)                    | (D)  |
|      | HAWAII . . . . .                           | 25             | 8                                  | 758            | 4 216             | 589                | 1 169             | 2 912           | 11 067   | 550                                 | (D)                    | (D)  |
| 341  | METAL CANS, TOTAL <sup>1</sup> . . . . .   | 270            | 206                                | 53 245         | 377 031           | 46 110             | 97 340            | 311 058         | 830 515  | 66 507                              | 54 238                 | 668 606  |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area   | 1963           |                                    |                |                   |                    |                   |                 | 1958   |                                     |                        |  |
|------|--------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |                                      | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |                                      | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 342  | CUTLERY, HAND TOOLS, HARDWARE, TOTAL | 2 022          | 810                                | 136 554        | 799 483           | 108 001            | 221 382           | 572 588         | 1 707 558                                      | 100 636                             | 135 718                | 1 202 227                                      |
|      | NORTHEAST . . . . .                  | 744            | 335                                | 53 083         | 297 381           | 41 561             | 84 174            | 211 234         | 661 419  | 43 867                              | 57 774                 | 483 739  |
|      | NEW ENGLAND . . . . .                | 266            | 121                                | 25 888         | 141 860           | 19 763             | 39 615            | 98 447          | 352 705  | 26 195                              | 29 792                 | 258 759  |
|      | MAINE . . . . .                      | 12             | 4                                  | 371            | 1 541             | 239                | 482               | 1 289           | 1 973  | (0)                                 | (0)                    | (0)  |
|      | NEW HAMPSHIRE . . . . .              | 16             | 10                                 | 699            | 3 332             | 614                | 1 284             | 2 463           | 5 005  | 91                                  | 535                    | 2 935  |
|      | VERMONT . . . . .                    | 6              | 4                                  | 260            | 1 191             | 228                | 478               | 933             | 2 231  | (0)                                 | (0)                    | (0)  |
|      | MASSACHUSETTS . . . . .              | 108            | 45                                 | 9 541          | 52 455            | 7 206              | 14 599            | 37 409          | 171 872  | 9 275                               | 10 268                 | 120 520  |
|      | RHODE ISLAND . . . . .               | 24             | 6                                  | 1 009          | 4 907             | 869                | 1 747             | 3 706           | 7 371  | 107                                 | 1 676                  | 11 446   |
|      | CONNECTICUT . . . . .                | 100            | 52                                 | 14 008         | 78 434            | 10 607             | 21 025            | 52 647          | 164 253  | 16 311                              | 16 466                 | 118 400  |
|      | MIDDLE ATLANTIC . . . . .            | 478            | 214                                | 27 195         | 155 521           | 21 798             | 44 559            | 112 787         | 308 714  | 17 672                              | 27 982                 | 224 980  |
|      | NEW YORK . . . . .                   | 244            | 102                                | 12 526         | 69 460            | 9 743              | 19 527            | 47 844          | 129 507  | 9 013                               | 11 891                 | 94 427   |
|      | NEW JERSEY . . . . .                 | 107            | 43                                 | 8 253          | 53 324            | 6 775              | 14 642            | 40 779          | 119 946  | 6 598                               | 8 400                  | 74 862   |
|      | PENNSYLVANIA . . . . .               | 127            | 69                                 | 6 416          | 32 737            | 5 280              | 10 390            | 24 164          | 59 261   | 2 061                               | 7 691                  | 55 691   |
|      | NORTH CENTRAL . . . . .              | 737            | 310                                | 59 980         | 376 381           | 48 728             | 101 202           | 281 281         | 793 876  | 43 470                              | 59 079                 | 544 729  |
|      | EAST NORTH CENTRAL . . . . .         | 624            | 266                                | 55 322         | 350 856           | 44 925             | 93 667            | 263 345         | 747 292  | 42 071                              | 53 854                 | 500 541  |
|      | OHIO . . . . .                       | 169            | 67                                 | 14 101         | 91 754            | 11 083             | 22 500            | 67 100          | 202 794  | 15 927                              | 13 087                 | 122 957  |
|      | INDIANA . . . . .                    | 63             | 26                                 | 4 335          | 23 924            | 3 553              | 7 178             | 17 992          | 48 184   | 3 754                               | 4 300                  | 37 585   |
|      | ILLINOIS . . . . .                   | 188            | 86                                 | 15 063         | 85 389            | 12 037             | 24 467            | 61 651          | 169 591  | 5 420                               | 15 117                 | 146 839  |
|      | MICHIGAN . . . . .                   | 159            | 68                                 | 18 735         | 132 377           | 15 687             | 34 390            | 103 930         | 281 120  | 15 384                              | 18 717                 | 164 666  |
|      | WISCONSIN . . . . .                  | 45             | 19                                 | 3 088          | 17 412            | 2 565              | 5 132             | 12 672          | 45 603   | 1 586                               | 2 633                  | 28 474   |
|      | WEST NORTH CENTRAL . . . . .         | 113            | 44                                 | 4 658          | 25 525            | 3 803              | 7 535             | 17 936          | 46 584   | 1 399                               | 5 225                  | 44 188   |
|      | MINNESOTA . . . . .                  | 32             | 11                                 | 1 378          | 7 204             | 1 058              | 2 099             | 4 677           | 13 859   | 383                                 | 1 581                  | 12 158   |
|      | IOWA . . . . .                       | 22             | 6                                  | 633            | 3 295             | 522                | 960               | 2 253           | 6 426  | 330                                 | 734                    | 9 659  |
|      | MISSOURI . . . . .                   | 43             | 21                                 | 2 079          | 12 440            | 1 719              | 3 474             | 8 884           | 21 054   | 584                                 | 2 456                  | 18 860   |
|      | KANSAS . . . . .                     | 7              | 4                                  | 285            | 1 317             | 254                | 528               | 1 094           | 2 172  | 24                                  | (0)                    | (0)  |
|      | SOUTH . . . . .                      | 196            | 67                                 | 12 505         | 58 170            | 9 660              | 19 477            | 37 935          | 123 382  | 5 273                               | 8 546                  | 68 709   |
|      | SOUTH ATLANTIC . . . . .             | 91             | 29                                 | 6 397          | 32 197            | 4 832              | 9 972             | 20 850          | 69 506   | 2 488                               | 4 593                  | 37 017   |
|      | VIRGINIA . . . . .                   | 9              | 6                                  | 2 010          | 10 718            | 1 515              | 3 235             | 6 327           | 22 694   | 934                                 | (0)                    | (0)  |
|      | NORTH CAROLINA . . . . .             | 21             | 9                                  | 1 180          | 6 077             | 893                | 1 853             | 3 706           | 10 529   | 665                                 | 652                    | 4 044  |
|      | FLORIDA . . . . .                    | 33             | 8                                  | 952            | 4 130             | 682                | 1 429             | 2 672           | 12 145   | 246                                 | 411                    | 2 364  |
|      | EAST SOUTH CENTRAL . . . . .         | 45             | 23                                 | 4 746          | 20 627            | 3 755              | 7 293             | 13 450          | 43 571   | 2 421                               | 2 933                  | 24 358   |
|      | KENTUCKY . . . . .                   | 14             | 6                                  | 591            | 3 437             | 392                | 759               | 1 896           | 6 789  | 159                                 | 464                    | 5 129  |
|      | TENNESSEE . . . . .                  | 18             | 8                                  | 2 471          | 10 220            | 1 997              | 3 825             | 6 989           | 23 464   | 1 911                               | (0)                    | (0)  |
|      | ALABAMA . . . . .                    | 6              | 3                                  | 491            | 1 797             | 440                | 842               | 1 485           | 3 000  | 123                                 | 579                    | 4 542  |
|      | MISSISSIPPI . . . . .                | 7              | 6                                  | 1 193          | 5 173             | 926                | 1 867             | 3 080           | 10 318   | 228                                 | (0)                    | (0)  |
|      | WEST SOUTH CENTRAL . . . . .         | 60             | 15                                 | 1 362          | 5 346             | 1 073              | 2 212             | 3 635           | 10 305   | 364                                 | 1 020                  | 7 334  |
|      | ARKANSAS . . . . .                   | 15             | 8                                  | 774            | 2 991             | 573                | 1 202             | 1 844           | 5 973  | 186                                 | 636                    | 4 348  |
|      | TEXAS . . . . .                      | 36             | 6                                  | 395            | 1 739             | 328                | 701               | 1 301           | 3 257  | 171                                 | 219                    | 1 629  |
|      | WEST . . . . .                       | 345            | 98                                 | 10 986         | 67 551            | 8 052              | 16 529            | 42 138          | 129 371  | 8 007                               | 10 319                 | 105 050  |
|      | MOUNTAIN . . . . .                   | 20             | 7                                  | 408            | 2 161             | 307                | 613               | 1 317           | 4 932  | 139                                 | 336                    | 2 802  |
|      | COLORADO . . . . .                   | 11             | 6                                  | 351            | 1 922             | 262                | 542               | 1 152           | 4 491  | 104                                 | 293                    | 2 537  |
|      | PACIFIC . . . . .                    | 325            | 91                                 | 10 578         | 65 390            | 7 745              | 15 916            | 40 821          | 124 439  | 7 868                               | 9 983                  | 102 248  |
|      | WASHINGTON . . . . .                 | 18             | 4                                  | 266            | 1 570             | 215                | 421               | 1 225           | 3 098  | 213                                 | 505                    | 4 988  |
|      | OREGON . . . . .                     | 25             | 8                                  | 528            | 2 728             | 378                | 736               | 1 885           | 5 199  | 236                                 | 368                    | 3 682  |
|      | CALIFORNIA . . . . .                 | 282            | 79                                 | 9 784          | 61 092            | 7 152              | 14 759            | 37 711          | 116 142  | 7 419                               | 9 110                  | 93 578   |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area           | 1963           |                                    |                |                   |                    |                   |                 |  | 1958                                |                        |  |
|------|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 343  | PLUMBING & HEATING EXC ELEC, TOTAL . . . . . | 979            | 427                                | 68 160         | 391 355           | 51 379             | 101 524           | 263 067         | 790 263  | 30 220                              | 71 775                 | 671 914  |
|      | NORTHEAST . . . . .                          | 340            | 136                                | 17 969         | 105 062           | 13 516             | 26 662            | 70 390          | 216 934  | 6 604                               | 18 272                 | 175 633  |
|      | NEW ENGLAND . . . . .                        | 73             | 25                                 | 2 342          | 12 638            | 1 775              | 3 639             | 8 404           | 22 358   | 770                                 | 2 245                  | 19 213   |
|      | CONNECTICUT . . . . .                        | 24             | 14                                 | 1 127          | 5 940             | 849                | 1 699             | 3 865           | 10 515   | 373                                 | 978                    | 8 889  |
|      | MIDDLE ATLANTIC . . . . .                    | 267            | 111                                | 15 627         | 92 424            | 11 741             | 23 023            | 61 986          | 194 576  | 5 834                               | 16 027                 | 156 420  |
|      | NEW YORK . . . . .                           | 104            | 36                                 | 4 423          | 26 035            | 3 311              | 6 624             | 17 310          | 52 099   | 1 257                               | 5 111                  | 48 089   |
|      | NEW JERSEY . . . . .                         | 62             | 26                                 | 3 682          | 21 465            | 2 721              | 5 353             | 14 091          | 45 231   | 1 592                               | 3 260                  | 29 645   |
|      | PENNSYLVANIA . . . . .                       | 101            | 49                                 | 7 522          | 44 924            | 5 709              | 11 046            | 30 585          | 97 246   | 2 985                               | 7 656                  | 78 686   |
|      | NORTH CENTRAL . . . . .                      | 349            | 178                                | 32 824         | 194 117           | 23 966             | 47 512            | 126 931         | 396 539  | 13 803                              | 34 252                 | 341 127  |
|      | EAST NORTH CENTRAL . . . . .                 | 282            | 149                                | 29 095         | 173 603           | 20 945             | 41 299            | 111 791         | 351 260  | 12 376                              | 30 131                 | 293 657  |
|      | OHIO . . . . .                               | 90             | 51                                 | 11 421         | 70 568            | 8 400              | 16 198            | 46 489          | 153 449  | 5 397                               | 10 687                 | 108 457  |
|      | INDIANA . . . . .                            | 34             | 22                                 | 4 057          | 23 529            | 2 812              | 5 586             | 13 514          | 51 368   | 2 561                               | 3 217                  | 29 086   |
|      | ILLINOIS . . . . .                           | 78             | 39                                 | 5 596          | 33 908            | 4 091              | 8 126             | 21 160          | 67 865   | 1 896                               | 7 914                  | 81 006   |
|      | MICHIGAN . . . . .                           | 54             | 20                                 | 3 574          | 19 157            | 2 302              | 4 483             | 12 117          | 32 322   | 1 036                               | 3 527                  | 28 938   |
|      | WISCONSIN . . . . .                          | 26             | 17                                 | 4 447          | 26 441            | 3 340              | 6 906             | 18 511          | 46 256   | 1 486                               | 4 786                  | 46 170   |
|      | WEST NORTH CENTRAL . . . . .                 | 67             | 29                                 | 3 729          | 20 514            | 3 021              | 6 213             | 15 140          | 45 279   | 1 427                               | 4 121                  | 47 470   |
|      | IOWA . . . . .                               | 8              | 6                                  | 619            | 3 741             | 420                | 807               | 2 200           | 6 130  | 361                                 | 1 458                  | 21 583   |
|      | MISSOURI . . . . .                           | 30             | 11                                 | 1 285          | 6 768             | 938                | 1 901             | 4 255           | 12 059   | 298                                 | (D)                    | (D)  |
|      | SOUTH . . . . .                              | 118            | 52                                 | 11 310         | 57 283            | 9 075              | 17 885            | 41 057          | 118 172  | 6 197                               | 12 826                 | 96 279   |
|      | SOUTH ATLANTIC . . . . .                     | 51             | 22                                 | 3 994          | 18 891            | 3 217              | 6 364             | 13 794          | 39 343   | 3 050                               | 3 842                  | 29 700   |
|      | NORTH CAROLINA . . . . .                     | 6              | 2                                  | 125            | 407               | 103                | 198               | 298             | 383  | 21                                  | (D)                    | (D)  |
|      | SOUTH CAROLINA . . . . .                     | 4              | 3                                  | 174            | 459               | 151                | 270               | 318             | 853  | 295                                 | (D)                    | (D)  |
|      | GEORGIA . . . . .                            | 6              | 5                                  | 631            | 2 453             | 511                | 1 064             | 1 660           | 4 966  | 206                                 | 353                    | 1 082  |
|      | EAST SOUTH CENTRAL . . . . .                 | 29             | 20                                 | 5 673          | 30 324            | 4 579              | 8 886             | 22 208          | 58 320   | 2 036                               | 7 566                  | 54 026   |
|      | ALABAMA . . . . .                            | 8              | 4                                  | 931            | 3 772             | 809                | 1 630             | 2 799           | 7 000  | 283                                 | 735                    | 3 988  |
|      | WEST SOUTH CENTRAL . . . . .                 | 38             | 10                                 | 1 643          | 8 068             | 1 279              | 2 635             | 5 055           | 20 509   | 1 111                               | 1 418                  | 12 553   |
|      | TEXAS . . . . .                              | 29             | 8                                  | 1 186          | 5 873             | 893                | 1 874             | 3 696           | 16 085   | 884                                 | 1 066                  | 9 810  |
|      | WEST . . . . .                               | 172            | 61                                 | 6 057          | 34 893            | 4 822              | 9 465             | 24 689          | 66 219   | 3 621                               | 6 425                  | 58 875   |
|      | MOUNTAIN . . . . .                           | 14             | 1                                  | 154            | 484               | 125                | 236               | 395             | 1 218  | 42                                  | 161                    | 1 080  |
|      | PACIFIC . . . . .                            | 158            | 60                                 | 5 903          | 34 409            | 4 697              | 9 229             | 24 294          | 65 001   | 3 579                               | 6 264                  | 57 795   |
|      | WASHINGTON . . . . .                         | 14             | 3                                  | 174            | 978               | 130                | 259               | 719             | 1 459  | 55                                  | 374                    | 2 379  |
|      | CALIFORNIA . . . . .                         | 132            | 54                                 | 5 634          | 32 882            | 4 497              | 8 852             | 23 243          | 62 258   | 3 500                               | 5 710                  | 54 221   |
| 344  | STRUCTURAL METAL PRODUCTS, TOTAL . . . . .   | 10 199         | 3 220                              | 325 470        | 1 922 670         | 242 426            | 490 819           | 1 281 056       | 3 219 813                                      | 126 134                             | 340 622                | 2 962 860                                      |
|      | NORTHEAST . . . . .                          | 2 970          | 900                                | 89 156         | 542 094           | 66 661             | 133 700           | 366 640         | 859 176  | 29 336                              | 101 796                | 903 065  |
|      | NEW ENGLAND . . . . .                        | 672            | 188                                | 13 437         | 79 590            | 10 096             | 20 754            | 52 347          | 133 885  | 5 147                               | 13 720                 | 117 111  |
|      | MAINE . . . . .                              | 27             | 7                                  | 519            | 2 930             | 365                | 812               | 1 834           | 6 114  | 273                                 | 542                    | 5 141  |
|      | NEW HAMPSHIRE . . . . .                      | 32             | 10                                 | 714            | 3 280             | 558                | 1 139             | 2 218           | 6 221  | 285                                 | 446                    | 3 467  |
|      | VERMONT . . . . .                            | 8              | 3                                  | 206            | 1 234             | 143                | 308               | 759             | 2 180  | 71                                  | 214                    | 1 963  |
|      | MASSACHUSETTS . . . . .                      | 367            | 112                                | 7 775          | 46 878            | 5 950              | 12 310            | 31 573          | 74 954   | 2 850                               | 7 955                  | 65 725   |
|      | RHODE ISLAND . . . . .                       | 64             | 11                                 | 778            | 3 889             | 572                | 1 170             | 2 634           | 7 483  | 183                                 | 873                    | 6 976  |
|      | CONNECTICUT . . . . .                        | 174            | 45                                 | 3 445          | 21 379            | 2 508              | 5 015             | 13 329          | 36 933   | 1 485                               | 3 690                  | 33 839   |
|      | MIDDLE ATLANTIC . . . . .                    | 2 298          | 712                                | 75 719         | 462 504           | 56 565             | 112 946           | 314 293         | 725 291  | 24 189                              | 88 076                 | 785 954  |
|      | NEW YORK . . . . .                           | 1 001          | 293                                | 25 950         | 162 900           | 19 292             | 39 371            | 109 246         | 267 764  | 6 963                               | 29 565                 | 267 313  |
|      | NEW JERSEY . . . . .                         | 556            | 146                                | 12 387         | 75 881            | 9 401              | 19 223            | 51 776          | 128 760  | 3 405                               | 11 831                 | 115 062  |
|      | PENNSYLVANIA . . . . .                       | 741            | 273                                | 37 382         | 223 723           | 27 872             | 54 352            | 153 271         | 328 767  | 13 821                              | 46 680                 | 403 579  |
|      | NORTH CENTRAL . . . . .                      | 2 864          | 1 002                              | 106 751        | 647 505           | 78 120             | 158 556           | 421 808         | 1 112 570                                      | 44 280                              | 114 025                | 1 034 383                                      |
|      | EAST NORTH CENTRAL . . . . .                 | 2 184          | 760                                | 83 662         | 513 861           | 61 048             | 123 825           | 334 138         | 877 891  | 35 574                              | 89 047                 | 812 524  |
|      | OHIO . . . . .                               | 603            | 222                                | 27 683         | 170 995           | 19 528             | 39 366            | 107 133         | 289 454  | 11 369                              | 30 584                 | 277 357  |
|      | INDIANA . . . . .                            | 240            | 93                                 | 12 144         | 73 257            | 8 934              | 17 720            | 48 323          | 118 112  | 3 582                               | 11 879                 | 102 883  |
|      | ILLINOIS . . . . .                           | 625            | 218                                | 19 773         | 118 197           | 14 946             | 30 334            | 80 791          | 215 553  | 9 707                               | 21 640                 | 211 990  |
|      | MICHIGAN . . . . .                           | 498            | 155                                | 13 960         | 86 686            | 10 594             | 21 760            | 58 086          | 156 320  | 6 893                               | 15 602                 | 141 751  |
|      | WISCONSIN . . . . .                          | 218            | 72                                 | 10 100         | 64 726            | 7 046              | 14 645            | 39 805          | 98 452   | 4 023                               | 9 342                  | 78 543   |
|      | WEST NORTH CENTRAL . . . . .                 | 680            | 242                                | 23 089         | 133 644           | 17 072             | 34 731            | 87 670          | 234 679  | 8 706                               | 24 978                 | 221 859  |
|      | MINNESOTA . . . . .                          | 148            | 55                                 | 4 167          | 24 504            | 3 218              | 6 509             | 16 907          | 36 286   | 1 565                               | 4 707                  | 43 476   |
|      | IOWA . . . . .                               | 111            | 38                                 | 3 785          | 21 275            | 2 929              | 6 019             | 14 772          | 39 654   | 1 086                               | 2 823                  | 28 474   |
|      | MISSOURI . . . . .                           | 221            | 75                                 | 9 107          | 55 198            | 6 692              | 13 645            | 36 694          | 97 710   | 2 982                               | 11 493                 | 94 052   |
|      | NORTH DAKOTA . . . . .                       | 10             | 1                                  | 241            | 1 198             | 166                | 327               | 677             | 1 918  | 70                                  | 256                    | 2 082  |
|      | SOUTH DAKOTA . . . . .                       | 18             | 4                                  | 457            | 2 274             | 309                | 704               | 1 375           | 3 763  | 109                                 | 370                    | 3 630  |
|      | NEBRASKA . . . . .                           | 66             | 28                                 | 2 609          | 14 320            | 1 839              | 3 601             | 7 859           | 26 988   | 1 837                               | 2 537                  | 26 612   |
|      | KANSAS . . . . .                             | 106            | 41                                 | 2 723          | 14 875            | 1 919              | 3 926             | 9 386           | 28 360   | 1 057                               | 2 792                  | 23 533   |
|      | SOUTH . . . . .                              | 2 611          | 819                                | 86 070         | 445 867           | 65 285             | 134 625           | 298 823         | 759 398  | 34 179                              | 79 027                 | 594 603  |
|      | SOUTH ATLANTIC . . . . .                     | 1 181          | 372                                | 34 997         | 176 916           | 26 649             | 54 470            | 117 061         | 318 252  | 15 844                              | 31 277                 | 228 576  |
|      | DELAWARE . . . . .                           | 22             | 8                                  | 477            | 2 912             | 388                | 825               | 2 267           | 8 056  | 172                                 | 686                    | 6 542  |
|      | MARYLAND . . . . .                           | 154            | 54                                 | 4 276          | 24 402            | 2 942              | 6 065             | 14 564          | 40 318   | 1 259                               | 3 867                  | 33 453   |
|      | DISTRICT OF COLUMBIA . . . . .               | 15             | 5                                  | 358            | 2 397             | 317                | 555               | 1 935           | 3 092  | 69                                  | 472                    | 3 947  |
|      | VIRGINIA . . . . .                           | 132            | 61                                 | 6 107          | 32 482            | 4 552              | 9 272             | 20 652          | 59 174   | 2 519                               | 5 706                  | 35 464   |
|      | WEST VIRGINIA . . . . .                      | 45             | 15                                 | 1 800          | 10 037            | 1 424              | 2 780             | 7 403           | 21 207   | 530                                 | 1 970                  | 15 949   |
|      | NORTH CAROLINA . . . . .                     | 171            | 43                                 | 4 371          | 21 768            | 3 417              | 7 192             | 14 778          | 31 824   | 3 624                               | 2 995                  | 21 977   |
|      | SOUTH CAROLINA . . . . .                     | 83             | 21                                 | 2 001          | 9 382             | 1 501              | 3 401             | 6 252           | 17 064   | 1 475                               | 1 612                  | 14 229   |
|      | GEORGIA . . . . .                            | 174            | 56                                 | 5 998          | 29 346            | 4 797              | 10 001            | 21 158          | 59 340   | 3 256                               | 4 398                  | 29 934   |
|      | FLORIDA . . . . .                            | 385            | 109                                | 9 609          | 44 190            | 7 311              | 14 379            | 28 052          | 78 177   | 2 940                               | 9 571                  | 67 081   |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code     | Industry group and geographic area            | 1963           |                           |               |         |                    |           |           |                                      | 1958                      |               |                                      |
|----------|---|----------------|---------------------------|---------------|---------|--------------------|-----------|-----------|--------------------------------------|---------------------------|---------------|--------------------------------------|
|          |   | Establishments |                           | All employees |         | Production workers |           |           | Value added by manufacture, adjusted | Capital expenditures, new | All employees | Value added by manufacture, adjusted |
|          |   | Total          | With 20 employees or more | Total         | Payroll | Total              | Man-hours | Wages     |                                      |                           |               |                                      |
| (number) | (number)                                      | (number)       | (\$1,000)                 | (number)      | (1,000) | (\$1,000)          | (\$1,000) | (\$1,000) | (number)                             | (\$1,000)                 |               |                                      |
| 344      | STRUCTURAL METAL PRODUCTS—CONTINUED           |                |                           |               |         |                    |           |           |                                      |                           |               |                                      |
|          | EAST SOUTH CENTRAL . . . . .                  | 515            | 169                       | 20 280        | 108 493 | 15 420             | 31 230    | 74 358    | 174 778                              | 8 041                     | 20 385        | 158 597                              |
|          | KENTUCKY . . . . .                            | 100            | 39                        | 3 137         | 16 238  | 2 352              | 4 722     | 11 135    | 22 796                               | 884                       | 3 222         | 27 442                               |
|          | TENNESSEE . . . . .                           | 181            | 60                        | 7 829         | 42 828  | 5 806              | 11 481    | 27 918    | 59 631                               | 3 648                     | 8 609         | 59 940                               |
|          | ALABAMA . . . . .                             | 156            | 50                        | 6 944         | 37 839  | 5 252              | 10 708    | 26 462    | 67 227                               | 2 257                     | 6 608         | 56 653                               |
|          | MISSISSIPPI . . . . .                         | 78             | 20                        | 2 370         | 11 588  | 2 010              | 4 319     | 8 843     | 25 124                               | 1 252                     | 1 946         | 14 562                               |
|          | WEST SOUTH CENTRAL . . . . .                  | 915            | 278                       | 30 793        | 160 458 | 23 216             | 48 925    | 107 404   | 266 368                              | 10 294                    | 27 365        | 207 430                              |
|          | ARKANSAS . . . . .                            | 69             | 16                        | 1 391         | 5 971   | 1 067              | 2 192     | 4 188     | 11 274                               | 769                       | 875           | 6 384                                |
|          | LOUISIANA . . . . .                           | 143            | 36                        | 4 019         | 22 410  | 3 024              | 6 416     | 15 487    | 43 122                               | 1 357                     | 3 705         | 26 868                               |
|          | OKLAHOMA . . . . .                            | 133            | 47                        | 6 011         | 33 850  | 4 496              | 9 511     | 21 698    | 63 032                               | 1 619                     | 5 699         | 52 447                               |
|          | TEXAS . . . . .                               | 570            | 179                       | 19 372        | 98 227  | 14 629             | 30 806    | 66 031    | 148 940                              | 6 549                     | 17 086        | 121 731                              |
|          | WEST . . . . .                                | 1 751          | 498                       | 43 363        | 286 525 | 32 256             | 63 679    | 193 291   | 473 132                              | 18 254                    | 45 774        | 430 809                              |
|          | MOUNTAIN . . . . .                            | 300            | 87                        | 7 687         | 45 418  | 5 801              | 11 745    | 32 329    | 72 987                               | 2 110                     | 7 924         | 62 903                               |
|          | MONTANA . . . . .                             | 20             | 5                         | 246           | 1 388   | 171                | 330       | 911       | 2 813                                | 86                        | 285           | 2 317                                |
|          | IDAHO . . . . .                               | 23             | 5                         | 391           | 2 215   | 297                | 604       | 1 554     | 4 781                                | 113                       | (0)           | (0)                                  |
|          | COLORADO . . . . .                            | 98             | 25                        | 2 247         | 14 317  | 1 656              | 3 355     | 9 585     | 18 284                               | 515                       | 2 511         | 21 677                               |
|          | NEW MEXICO . . . . .                          | 20             | 5                         | 309           | 1 517   | 255                | 527       | 1 109     | 2 796                                | 115                       | (0)           | (0)                                  |
|          | ARIZONA . . . . .                             | 64             | 15                        | 2 022         | 11 170  | 1 503              | 2 967     | 7 868     | 19 208                               | 547                       | 1 464         | 11 068                               |
|          | UTAH . . . . .                                | 58             | 26                        | 2 187         | 13 238  | 1 705              | 3 543     | 10 164    | 23 580                               | 549                       | 2 433         | 18 906                               |
|          | NEVADA . . . . .                              | 11             | 6                         | 209           | 1 282   | 158                | 310       | 941       | 1 141                                | 98                        | (0)           | (0)                                  |
|          | PACIFIC . . . . .                             | 1 451          | 411                       | 35 676        | 241 107 | 26 455             | 51 934    | 160 962   | 400 145                              | 16 144                    | 37 850        | 367 906                              |
|          | WASHINGTON . . . . .                          | 171            | 42                        | 3 734         | 25 972  | 2 920              | 5 599     | 18 932    | 42 430                               | 1 293                     | 4 005         | 37 222                               |
|          | OREGON . . . . .                              | 112            | 30                        | 2 827         | 18 748  | 2 165              | 4 158     | 12 673    | 34 052                               | 1 159                     | 3 006         | 27 358                               |
|          | CALIFORNIA . . . . .                          | 1 149          | 334                       | 28 810        | 194 312 | 21 190             | 41 797    | 128 238   | 319 731                              | 13 546                    | 30 839        | 303 326                              |
| 345      | SCREW MACHINE PRODUCTS, BOLTS, ETC            | 2 447          | 839                       | 94 527        | 584 198 | 74 768             | 156 772   | 417 468   | 1 054 237                            | 50 107                    | 85 106        | 754 706                              |
|          | NORTHEAST . . . . .                           | 870            | 277                       | 32 650        | 191 191 | 25 389             | 52 279    | 134 606   | 340 230                              | 14 591                    | 31 867        | 261 551                              |
|          | NEW ENGLAND . . . . .                         | 380            | 123                       | 14 500        | 80 330  | 11 324             | 23 680    | 56 079    | 140 062                              | 6 491                     | 14 764        | 109 911                              |
|          | MASSACHUSETTS . . . . .                       | 110            | 39                        | 6 459         | 35 922  | 4 968              | 10 469    | 25 144    | 58 620                               | 2 306                     | 6 465         | 47 431                               |
|          | RHODE ISLAND . . . . .                        | 54             | 14                        | 1 410         | 7 103   | 1 148              | 2 353     | 5 169     | 11 630                               | 564                       | 1 360         | 9 368                                |
|          | CONNECTICUT . . . . .                         | 204            | 67                        | 6 301         | 35 554  | 4 957              | 10 323    | 24 539    | 66 253                               | 3 326                     | 6 633         | 50 609                               |
|          | MIDDLE ATLANTIC . . . . .                     | 490            | 154                       | 18 150        | 110 861 | 14 065             | 28 599    | 78 527    | 200 168                              | 8 100                     | 17 103        | 151 640                              |
|          | NEW YORK . . . . .                            | 211            | 64                        | 6 101         | 35 406  | 4 791              | 9 661     | 24 222    | 64 423                               | 2 615                     | 5 241         | 45 977                               |
|          | NEW JERSEY . . . . .                          | 146            | 47                        | 4 967         | 32 448  | 3 742              | 7 778     | 22 509    | 63 353                               | 3 566                     | 4 202         | 38 097                               |
|          | PENNSYLVANIA . . . . .                        | 133            | 43                        | 7 082         | 43 007  | 5 532              | 11 160    | 31 796    | 72 392                               | 1 919                     | 7 660         | 67 566                               |
|          | NORTH CENTRAL . . . . .                       | 1 198          | 453                       | 49 917        | 320 205 | 39 939             | 84 735    | 231 821   | 572 884                              | 28 944                    | 44 170        | 392 668                              |
|          | EAST NORTH CENTRAL . . . . .                  | 1 118          | 425                       | 47 689        | 307 257 | 38 157             | 81 118    | 222 562   | 551 147                              | 26 834                    | 41 924        | 375 717                              |
|          | OHIO . . . . .                                | 273            | 114                       | 14 614        | 92 038  | 11 685             | 24 194    | 66 212    | 157 534                              | 6 877                     | 13 818        | 122 435                              |
|          | INDIANA . . . . .                             | 83             | 31                        | 2 883         | 16 480  | 2 377              | 4 893     | 12 413    | 31 605                               | 1 311                     | 2 728         | 24 174                               |
|          | ILLINOIS . . . . .                            | 342            | 136                       | 18 349        | 119 660 | 14 425             | 31 252    | 86 211    | 213 398                              | 10 714                    | 16 052        | 145 000                              |
|          | MICHIGAN . . . . .                            | 352            | 127                       | 10 142        | 68 697  | 8 329              | 17 912    | 50 478    | 130 408                              | 6 962                     | 7 978         | 72 104                               |
|          | WISCONSIN . . . . .                           | 68             | 17                        | 1 701         | 10 382  | 1 341              | 2 867     | 7 248     | 18 202                               | 970                       | 1 348         | 12 004                               |
|          | WEST NORTH CENTRAL . . . . .                  | 80             | 28                        | 2 228         | 12 948  | 1 782              | 3 617     | 9 259     | 21 737                               | 2 110                     | 2 246         | 16 951                               |
|          | IOWA . . . . .                                | 8              | 4                         | 155           | 720     | 126                | 281       | 514       | 1 296                                | 54                        | 139           | 913                                  |
|          | MISSOURI . . . . .                            | 36             | 11                        | 1 043         | 6 182   | 787                | 1 628     | 4 135     | 10 687                               | 586                       | 1 204         | 8 944                                |
|          | SOUTH . . . . .                               | 94             | 35                        | 4 180         | 21 176  | 3 513              | 7 371     | 15 530    | 46 531                               | 2 934                     | 2 821         | 27 208                               |
|          | SOUTH ATLANTIC . . . . .                      | 40             | 11                        | 1 918         | 9 298   | 1 603              | 3 720     | 6 720     | 26 251                               | 1 494                     | 1 378         | 12 525                               |
|          | MARYLAND . . . . .                            | 9              | 3                         | 343           | 1 788   | 275                | 552       | 1 271     | 3 130                                | 197                       | (0)           | (0)                                  |
|          | FLORIDA . . . . .                             | 18             | 3                         | 207           | 960     | 165                | 376       | 723       | 2 058                                | 357                       | 109           | 775                                  |
|          | EAST SOUTH CENTRAL . . . . .                  | 19             | 10                        | 1 331         | 7 410   | 1 112              | 2 205     | 5 520     | 12 709                               | 1 064                     | 922           | 9 669                                |
|          | ALABAMA . . . . .                             | 8              | 5                         | 879           | 5 402   | 736                | 1 464     | 4 063     | 9 296                                | 469                       | 785           | 8 461                                |
|          | WEST SOUTH CENTRAL . . . . .                  | 35             | 14                        | 931           | 4 468   | 798                | 1 446     | 3 290     | 7 571                                | 376                       | 521           | 5 014                                |
|          | TEXAS . . . . .                               | 23             | 10                        | 626           | 3 034   | 544                | 878       | 2 192     | 4 457                                | 279                       | 406           | 3 930                                |
|          | WEST . . . . .                                | 286            | 75                        | 7 833         | 51 928  | 5 973              | 12 485    | 35 778    | 96 135                               | 3 628                     | 6 248         | 73 279                               |
|          | MOUNTAIN . . . . .                            | 10             | 3                         | 152           | 699     | 126                | 244       | 564       | 1 330                                | 76                        | 79            | 832                                  |
|          | COLORADO . . . . .                            | 4              | 3                         | 112           | 532     | 95                 | 192       | 432       | 1 040                                | 59                        | 63            | 625                                  |
|          | PACIFIC . . . . .                             | 276            | 72                        | 7 681         | 51 229  | 5 847              | 12 241    | 35 214    | 94 805                               | 3 552                     | 6 169         | 72 447                               |
|          | CALIFORNIA . . . . .                          | 262            | 68                        | 7 480         | 49 950  | 5 699              | 11 946    | 34 392    | 92 589                               | 3 496                     | 5 880         | 69 839                               |
| 346      | METAL STAMPINGS, TOTAL <sup>1</sup> . . . . . | 2 574          | 1 116                     | 132 179       | 772 557 | 108 336            | 222 005   | 567 309   | 1 368 993                            | 64 248                    | 125 300       | 1 045 220                            |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area    | 1963           |                                    |                |                   |                    |                   |                 | 1958   |                                     |                        |  |
|------|---------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |                                       | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |                                       | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 347  | METAL SERVICES, NEC, TOTAL . . . . .  | 4 281          | 953                                | 65 631         | 330 614           | 54 835             | 109 844           | 248 728         | 554 748  | 28 688                              | 52 151                 | 362 163  |
|      | NORTHEAST . . . . .                   | 1 513          | 298                                | 21 085         | 101 313           | 17 595             | 35 317            | 75 471          | 167 860  | 7 442                               | 18 878                 | 122 638  |
|      | NEW ENGLAND . . . . .                 | 484            | 101                                | 6 928          | 32 503            | 5 880              | 11 576            | 24 487          | 51 503   | 2 321                               | 5 801                  | 35 983   |
|      | MASSACHUSETTS . . . . .               | 198            | 51                                 | 2 883          | 13 929            | 2 408              | 4 916             | 10 388          | 21 637   | 1 097                               | 2 432                  | 15 372   |
|      | RHODE ISLAND . . . . .                | 133            | 18                                 | 1 584          | 5 645             | 1 393              | 2 405             | 4 351           | 8 788  | 366                                 | 1 408                  | 6 890  |
|      | MIDDLE ATLANTIC . . . . .             | 1 029          | 197                                | 14 157         | 68 810            | 11 715             | 23 741            | 50 984          | 116 357  | 5 121                               | 13 077                 | 86 655   |
|      | NEW YORK . . . . .                    | 606            | 109                                | 7 534          | 35 041            | 6 371              | 12 868            | 26 223          | 57 457   | 2 182                               | 7 728                  | 49 501   |
|      | NEW JERSEY . . . . .                  | 241            | 48                                 | 3 277          | 16 940            | 2 652              | 5 418             | 12 541          | 27 177   | 1 519                               | 2 848                  | 18 900   |
|      | PENNSYLVANIA . . . . .                | 182            | 40                                 | 3 346          | 16 829            | 2 692              | 5 455             | 12 220          | 31 723   | 1 420                               | 2 501                  | 18 254   |
|      | NORTH CENTRAL . . . . .               | 1 520          | 416                                | 28 584         | 147 912           | 23 956             | 47 805            | 110 987         | 252 480  | 12 427                              | 21 358                 | 152 824  |
|      | EAST NORTH CENTRAL . . . . .          | 1 340          | 383                                | 25 882         | 134 322           | 21 728             | 43 515            | 100 986         | 228 758  | 11 041                              | (0)                    | (0)  |
|      | ILLINOIS . . . . .                    | 409            | 123                                | 8 510          | 45 918            | 7 058              | 13 839            | 33 606          | 77 697   | 3 068                               | 7 769                  | 57 266   |
|      | MICHIGAN . . . . .                    | 421            | 127                                | 7 755          | 38 256            | 6 589              | 13 303            | 29 190          | 64 708   | 3 066                               | (0)                    | (0)  |
|      | WEST NORTH CENTRAL . . . . .          | 180            | 33                                 | 2 702          | 13 590            | 2 228              | 4 290             | 10 001          | 23 722   | 1 386                               | (0)                    | (0)  |
|      | MINNESOTA . . . . .                   | 47             | 8                                  | 843            | 4 592             | 699                | 1 308             | 3 169           | 8 163  | 578                                 | 673                    | 5 380  |
|      | IOWA . . . . .                        | 20             | 3                                  | 190            | 775               | 158                | 316               | 621             | 1 521  | 43                                  | 177                    | 1 153  |
|      | KANSAS . . . . .                      | 15             | 3                                  | 155            | 759               | 134                | 272               | 573             | 1 282  | 93                                  | 105                    | 870  |
|      | SOUTH . . . . .                       | 422            | 94                                 | 6 177          | 27 655            | 5 249              | 10 568            | 21 376          | 47 820   | 4 203                               | 3 854                  | 25 421   |
|      | SOUTH ATLANTIC . . . . .              | 163            | 34                                 | 2 828          | 12 671            | 2 390              | 4 836             | 9 409           | 20 965   | 2 263                               | 1 325                  | 9 180  |
|      | MARYLAND . . . . .                    | 34             | 6                                  | 628            | 3 604             | 478                | 968               | 2 268           | 5 394  | 373                                 | 466                    | 4 023  |
|      | DISTRICT OF COLUMBIA . . . . .        | 5              | -                                  | 59             | 272               | 50                 | 97                | 227             | 440  | 17                                  | (0)                    | (0)  |
|      | VIRGINIA . . . . .                    | 20             | 2                                  | 193            | 893               | 161                | 300               | 681             | 1 364  | 90                                  | (0)                    | (0)  |
|      | WEST VIRGINIA . . . . .               | 4              | -                                  | 53             | 266               | 41                 | 83                | 168             | 351  | 6                                   | (0)                    | (0)  |
|      | SOUTH CAROLINA . . . . .              | 8              | 3                                  | 165            | 601               | 147                | 253               | 444             | 919  | 25                                  | 100                    | 539  |
|      | GEORGIA . . . . .                     | 16             | 9                                  | 813            | 3 373             | 748                | 1 572             | 2 795           | 5 546  | 1 265                               | 235                    | 1 427  |
|      | FLORIDA . . . . .                     | 53             | 9                                  | 555            | 2 241             | 461                | 946               | 1 766           | 4 271  | 211                                 | 267                    | 1 688  |
|      | EAST SOUTH CENTRAL . . . . .          | 84             | 23                                 | 1 106          | 4 319             | 953                | 1 822             | 3 553           | 8 198  | 341                                 | 557                    | 3 555  |
|      | KENTUCKY . . . . .                    | 22             | 8                                  | 355            | 1 487             | 303                | 568               | 1 249           | 2 823  | 99                                  | (0)                    | (0)  |
|      | TENNESSEE . . . . .                   | 34             | 11                                 | 455            | 1 554             | 392                | 733               | 1 239           | 3 007  | 136                                 | 281                    | 1 601  |
|      | ALABAMA . . . . .                     | 24             | 4                                  | 261            | 1 144             | 228                | 460               | 967             | 2 147  | 87                                  | 173                    | 1 348  |
|      | WEST SOUTH CENTRAL . . . . .          | 175            | 37                                 | 2 243          | 10 665            | 1 906              | 3 910             | 8 414           | 18 657   | 1 599                               | 1 972                  | 12 686   |
|      | ARKANSAS . . . . .                    | 6              | 2                                  | 112            | 453               | 97                 | 197               | 383             | 1 040  | 186                                 | (0)                    | (0)  |
|      | LOUISIANA . . . . .                   | 15             | 3                                  | 205            | 925               | 179                | 365               | 727             | 2 162  | 375                                 | (0)                    | (0)  |
|      | OKLAHOMA . . . . .                    | 27             | 6                                  | 390            | 1 756             | 343                | 656               | 1 360           | 2 700  | 200                                 | 218                    | 1 845  |
|      | TEXAS . . . . .                       | 127            | 26                                 | 1 536          | 7 531             | 1 287              | 2 692             | 5 944           | 12 755   | 838                                 | 1 617                  | 9 913  |
|      | WEST . . . . .                        | 826            | 145                                | 9 785          | 53 734            | 8 035              | 16 154            | 40 894          | 86 588   | 4 616                               | 8 061                  | 61 280   |
|      | MOUNTAIN . . . . .                    | 66             | 12                                 | 651            | 3 389             | 543                | 1 038             | 2 660           | 5 276  | 670                                 | 344                    | 2 356  |
|      | COLORADO . . . . .                    | 26             | 5                                  | 245            | 1 255             | 207                | 408               | 967             | 2 019  | 366                                 | 140                    | 1 110  |
|      | ARIZONA . . . . .                     | 20             | 5                                  | 269            | 1 443             | 220                | 395               | 1 117           | 2 065  | 243                                 | 164                    | 930  |
|      | PACIFIC . . . . .                     | 760            | 133                                | 9 134          | 50 345            | 7 492              | 15 116            | 38 234          | 81 312   | 3 946                               | 7 717                  | 58 924   |
|      | WASHINGTON . . . . .                  | 33             | 2                                  | 273            | 1 828             | 216                | 425               | 1 322           | 3 052  | 102                                 | 186                    | 1 574  |
|      | OREGON . . . . .                      | 31             | 4                                  | 225            | 1 137             | 185                | 347               | 875             | 1 643  | 81                                  | 263                    | 1 773  |
|      | CALIFORNIA . . . . .                  | 691            | 127                                | 8 611          | 47 248            | 7 071              | 14 310            | 35 943          | 76 484   | 3 758                               | 7 268                  | 55 577   |
| 348  | FABRICATED WIRE PRODUCTS, NEC, TOTAL  | 1 567          | 557                                | 55 514         | 297 626           | 45 070             | 92 096            | 213 329         | 539 137  | 24 795                              | 55 476                 | 439 940  |
| 349  | FABRICATED METAL PRODUCTS, NEC, TOTAL | 2 636          | 1 082                              | 150 822        | 911 974           | 112 870            | 229 252           | 609 085         | 1 725 817                                      | 78 742                              | 139 344                | 1 321 534                                      |
|      | NORTHEAST . . . . .                   | 940            | 383                                | 50 715         | 296 461           | 37 434             | 75 797            | 195 178         | 543 627  | 24 409                              | 47 616                 | 429 567  |
|      | NEW ENGLAND . . . . .                 | 217            | 84                                 | 12 973         | 74 483            | 9 254              | 18 940            | 46 879          | 128 865  | 6 035                               | 14 255                 | 112 678  |
|      | MASSACHUSETTS . . . . .               | 114            | 41                                 | 6 570          | 39 558            | 4 409              | 9 129             | 23 510          | 65 098   | 2 569                               | 6 687                  | 55 983   |
|      | RHODE ISLAND . . . . .                | 24             | 11                                 | 1 790          | 9 998             | 1 298              | 2 760             | 6 533           | 19 907   | 976                                 | 1 714                  | 14 817   |
|      | CONNECTICUT . . . . .                 | 65             | 29                                 | 4 198          | 22 988            | 3 206              | 6 366             | 15 427          | 40 752   | 2 388                               | 5 695                  | 40 867   |
|      | MIDDLE ATLANTIC . . . . .             | 723            | 299                                | 37 742         | 221 978           | 28 180             | 56 857            | 148 299         | 414 762  | 18 374                              | 33 361                 | 316 889  |
|      | NEW YORK . . . . .                    | 326            | 97                                 | 9 584          | 51 790            | 7 595              | 15 581            | 37 636          | 94 658   | 5 927                               | 8 183                  | 70 846   |
|      | NEW JERSEY . . . . .                  | 170            | 80                                 | 10 340         | 64 137            | 7 464              | 15 337            | 40 114          | 118 087  | 5 676                               | 8 784                  | 83 697   |
|      | PENNSYLVANIA . . . . .                | 227            | 122                                | 17 818         | 106 051           | 13 121             | 25 939            | 70 549          | 202 017  | 6 771                               | 16 394                 | 162 346  |
|      | NORTH CENTRAL . . . . .               | 856            | 390                                | 65 201         | 407 849           | 48 934             | 99 149            | 275 259         | 783 049  | 33 288                              | 63 904                 | 613 338  |
|      | EAST NORTH CENTRAL . . . . .          | 712            | 338                                | 57 231         | 361 524           | 43 147             | 87 104            | 244 124         | 679 053  | 29 705                              | 58 006                 | 546 309  |
|      | OHIO . . . . .                        | 190            | 102                                | 19 128         | 120 524           | 14 532             | 29 488            | 83 580          | 239 347  | 9 108                               | 19 101                 | 193 625  |
|      | INDIANA . . . . .                     | 65             | 40                                 | 6 604          | 40 320            | 4 996              | 9 906             | 26 866          | 77 968   | 2 607                               | 6 175                  | 60 251   |
|      | ILLINOIS . . . . .                    | 250            | 106                                | 19 240         | 123 201           | 14 314             | 28 651            | 80 958          | 231 135  | 12 629                              | 23 164                 | 217 671  |
|      | MICHIGAN . . . . .                    | 159            | 72                                 | 9 971          | 63 671            | 7 766              | 15 891            | 44 391          | 109 414  | 3 850                               | 8 048                  | 62 315   |
|      | WISCONSIN . . . . .                   | 48             | 18                                 | 2 288          | 13 808            | 1 539              | 3 168             | 8 329           | 21 189   | 1 511                               | 1 518                  | 12 447   |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area   | 1963           |                                    |                |                   |                    |                   |                 |  | 1958                                |                        |  |
|------|--------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |                                      | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |                                      | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 349  | FABRICATED METAL PRODUCTS, NEC-CONT. | 144            | 52                                 | 7 970          | 46 325            | 5 787              | 12 045            | 31 135          | 103 996  | 3 583                               | 5 898                  | 67 029   |
|      | WEST NORTH CENTRAL . . . . .         | 38             | 14                                 | 1 710          | 9 616             | 1 367              | 2 761             | 7 092           | 18 900   | 889                                 | 1 159                  | 11 288   |
|      | MINNESOTA . . . . .                  | 24             | 10                                 | 2 402          | 14 288            | 1 648              | 3 594             | 9 228           | 34 609   | 1 212                               | 1 716                  | 22 332   |
|      | IOWA . . . . .                       | 53             | 21                                 | 3 110          | 18 342            | 2 209              | 4 530             | 11 953          | 39 634   | 1 148                               | 2 236                  | 23 003   |
|      | MISSOURI . . . . .                   |                |                                    |                |                   |                    |                   |                 |  |                                     |                        |  |
|      | SOUTH . . . . .                      | 416            | 176                                | 22 258         | 124 668           | 17 469             | 35 159            | 87 572          | 253 235  | 11 600                              | 18 314                 | 183 750  |
|      | SOUTH ATLANTIC . . . . .             | 155            | 55                                 | 5 630          | 29 463            | 4 417              | 9 200             | 20 340          | 65 634   | 3 105                               | 5 213                  | 47 072   |
|      | MARYLAND . . . . .                   | 23             | 12                                 | 879            | 4 661             | 719                | 1 559             | 3 361           | 12 972   | 493                                 | 745                    | 11 193   |
|      | VIRGINIA . . . . .                   | 16             | 6                                  | 794            | 4 363             | 631                | 1 322             | 3 036           | 9 282  | 539                                 | (0)                    | (0)  |
|      | WEST VIRGINIA . . . . .              | 13             | 9                                  | 1 508          | 8 042             | 1 260              | 2 527             | 6 166           | 21 810   | 678                                 | 1 268                  | 12 879   |
|      | NORTH CAROLINA . . . . .             | 16             | 7                                  | 689            | 3 342             | 516                | 1 080             | 1 938           | 5 816  | 766                                 | 464                    | 2 371  |
|      | GEORGIA . . . . .                    | 20             | 6                                  | 684            | 3 478             | 527                | 1 149             | 2 480           | 6 228  | 322                                 | 408                    | 3 546  |
|      | FLORIDA . . . . .                    | 54             | 10                                 | 630            | 2 967             | 489                | 965               | 1 936           | 5 697  | 210                                 | 1 214                  | 8 022  |
|      | EAST SOUTH CENTRAL . . . . .         | 62             | 35                                 | 7 883          | 44 135            | 6 489              | 12 306            | 32 804          | 87 080   | 5 171                               | 6 224                  | 62 695   |
|      | KENTUCKY . . . . .                   | 24             | 16                                 | 3 264          | 19 745            | 2 584              | 5 090             | 13 995          | 38 328   | 3 969                               | 2 627                  | 30 662   |
|      | ALABAMA . . . . .                    | 17             | 11                                 | 3 110          | 16 315            | 2 661              | 4 699             | 12 055          | 32 355   | 925                                 | 2 693                  | 23 899   |
|      | WEST SOUTH CENTRAL . . . . .         | 199            | 86                                 | 8 745          | 51 070            | 6 563              | 13 653            | 34 428          | 100 521  | 3 324                               | 6 877                  | 73 983   |
|      | ARKANSAS . . . . .                   | 16             | 7                                  | 884            | 3 698             | 804                | 1 608             | 3 163           | 8 008  | 301                                 | (0)                    | (0)  |
|      | LOUISIANA . . . . .                  | 16             | 9                                  | 1 172          | 6 341             | 853                | 1 788             | 4 468           | 13 483   | 432                                 | 629                    | 7 175  |
|      | OKLAHOMA . . . . .                   | 33             | 13                                 | 771            | 4 880             | 575                | 1 224             | 3 134           | 9 315  | 359                                 | (0)                    | (0)  |
|      | TEXAS . . . . .                      | 134            | 57                                 | 5 918          | 36 151            | 4 331              | 9 033             | 23 663          | 69 715   | 2 232                               | 4 803                  | 53 519   |
|      | WEST . . . . .                       | 423            | 132                                | 12 596         | 82 621            | 8 961              | 19 013            | 50 701          | 151 488  | 9 420                               | 9 510                  | 94 879   |
|      | MOUNTAIN . . . . .                   | 40             | 9                                  | 952            | 6 066             | 673                | 1 360             | 3 618           | 13 072   | 650                                 | 724                    | 7 056  |
|      | COLORADO . . . . .                   | 18             | 6                                  | 758            | 5 146             | 516                | 1 048             | 2 908           | 11 709   | 571                                 | 667                    | 6 729  |
|      | ARIZONA . . . . .                    | 8              | 2                                  | 113            | 461               | 94                 | 189               | 360             | 698  | 39                                  | (0)                    | (0)  |
|      | PACIFIC . . . . .                    | 383            | 123                                | 11 644         | 76 555            | 8 288              | 17 653            | 47 083          | 138 416  | 8 770                               | 8 786                  | 87 823   |
|      | OREGON . . . . .                     | 24             | 8                                  | 554            | 3 074             | 377                | 753               | 2 110           | 5 314  | 338                                 | 298                    | 3 468  |
|      | CALIFORNIA . . . . .                 | 334            | 113                                | 10 910         | 72 434            | 7 777              | 16 652            | 44 266          | 131 197  | 8 347                               | 8 345                  | 83 265   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.  
 1This industry group consists of a single 4-digit industry. Detailed data by State are included in the 4-digit industry tables.

TABLE 3. Detailed Statistics: 1963

| Item  | Fabricated metal products (SIC 34) | Metal cans (SIC 341) | Cutlery, hand tools, hardware (SIC 342) | Plumbing and heating, except electric (SIC 343) | Structural metal products (SIC 344) | Screw machine products, bolts, etc. (SIC 345) | Metal stampings (SIC 346) | Metal services, n.e.c. (SIC 347) | Fabricated wire products, n.e.c. (SIC 348) | Fabricated metal products, n.e.c. (SIC 349) |
|---|------------------------------------|----------------------|---|---|-------------------------------------|---|---------------------------|----------------------------------|--|---|
| ESTABLISHMENTS, TOTAL . . . . . NUMBER . .                                  | 26 975                             | 270                  | 2 022                                   | 979   | 10 199                              | 2 447   | 2 574                     | 4 281                            | 1 567                                      | 2 636                                       |
| WITH 1 TO 19 EMPLOYEES . . . . . DO. . .                                    | 17 765                             | 64                   | 1 212                                   | 552   | 6 979                               | 1 608   | 1 458                     | 3 328                            | 1 010                                      | 1 554                                       |
| WITH 20 TO 99 EMPLOYEES . . . . . DO. . .                                   | 6 931                              | 93                   | 530                                     | 253   | 2 546                               | 650   | 818                       | 882                              | 415  | 744   |
| WITH 100 EMPLOYEES OR MORE . . . . . DO. .                                  | 2 279                              | 113                  | 280                                     | 174   | 674                                 | 189   | 298                       | 71                               | 142  | 338   |
| PROPRIETORS AND WORKING PARTNERS . . . DO. .                                | 13 700                             | 23                   | 756                                     | 294   | 4 892                               | 1 110   | 848                       | 2 523                            | 1 407                                      | 1 847                                       |
| ALL EMPLOYEES (AVERAGE FOR THE YEAR) . . . . . DO. . . . .                  | 1 082 102                          | 53 245               | 136 554                                 | 68 160  | 325 470                             | 94 527  | 132 179                   | 65 631                           | 55 514                                     | 150 822                                     |
| PAYROLL (ALL EMPLOYEES), TOTAL FOR YEAR . . . . . \$1,000 . . . . .         | 6 387 508                          | 377 031              | 799 483                                 | 391 355   | 1 922 670                           | 584 198                                       | 772 557                   | 330 614                          | 297 626                                    | 911 974                                     |
| PRODUCTION WORKERS:   |                                    |                      |   |   |                                     |   |                           |                                  |  |   |
| AVERAGE FOR THE YEAR . . . . . NUMBER . .                                   | 843 795                            | 46 110               | 108 001                                 | 51 379  | 242 426                             | 74 768  | 108 336                   | 54 835                           | 45 070                                     | 112 870                                     |
| MARCH . . . . . DO. . . . .   | 819 958                            | 44 538               | 107 150                                 | 49 770  | 224 783                             | 75 699  | 108 483                   | 53 657                           | 44 576                                     | 111 302                                     |
| MAY . . . . . DO. . . . .   | 839 356                            | 46 568               | 107 422                                 | 50 334  | 240 598                             | 74 667  | 107 944                   | 54 369                           | 45 127                                     | 112 777                                     |
| AUGUST . . . . . DO. . . . .  | 857 477                            | 48 606               | 105 382                                 | 52 650  | 255 564                             | 73 787  | 106 634                   | 55 056                           | 44 857                                     | 110 941                                     |
| NOVEMBER . . . . . DO. . . . .  | 859 698                            | 44 684               | 112 187                                 | 52 762  | 248 945                             | 75 009  | 110 880                   | 56 621                           | 46 091                                     | 112 519                                     |
| MAN-HOURS . . . . . \$1,000 . . . . .                                       | 1 721 034                          | 97 340               | 221 382                                 | 101 524   | 490 819                             | 156 772                                       | 222 005                   | 109 844                          | 92 096                                     | 229 252                                     |
| JANUARY-MARCH . . . . . DO. . . . .   | 413 228                            | 21 941               | 54 812                                  | 24 292  | 112 469                             | 39 876  | 54 312                    | 26 536                           | 22 353                                     | 56 637                                      |
| APRIL-JUNE . . . . . DO. . . . .  | 434 518                            | 25 249               | 55 947                                  | 25 212  | 123 724                             | 39 850  | 55 702                    | 27 565                           | 23 061                                     | 58 208                                      |
| JULY-SEPTEMBER . . . . . DO. . . . .  | 429 501                            | 26 341               | 51 814                                  | 25 862  | 127 422                             | 37 461  | 53 768                    | 27 732                           | 22 709                                     | 56 392                                      |
| OCTOBER-DECEMBER . . . . . DO. . . . .                                      | 443 821                            | 23 817               | 58 807                                  | 26 158  | 127 203                             | 39 585  | 58 223                    | 28 011                           | 23 973                                     | 58 044                                      |
| WAGES . . . . . \$1,000 . . . . .   | 4 483 688                          | 311 058              | 572 588                                 | 263 067   | 1 281 056                           | 417 468                                       | 567 309                   | 248 728                          | 213 329                                    | 609 085                                     |
| COST OF MATERIALS, ETC., TOTAL <sup>1</sup> . . . DO. .                     | 11 397 850                         | 1 265 197            | 1 049 382                               | 802 984   | 3 892 920                           | 760 738                                       | 1 324 939                 | 285 531                          | 490 937                                    | 1 525 222                                   |
| MATERIALS, PARTS, CONTAINERS, AND SUPPLIES CONSUMED . . . . . DO. . .       | 10 003 865                         | 1 212 470            | 913 753                                 | 704 373   | 3 353 344                           | 617 326                                       | 1 171 137                 | 237 719                          | 433 668                                    | 1 360 075                                   |
| COST OF REALES . . . . . DO. . . . .  | 744 382                            | 35 741               | 72 459                                  | 72 192  | 340 785                             | 50 374  | 51 023                    | 5 345                            | 29 104                                     | 87 359                                      |
| FUELS CONSUMED . . . . . DO. . . . .  | 100 578                            | 6 816                | 12 053                                  | 8 637   | 23 127                              | 6 965   | 11 704                    | 12 010                           | 3 649                                      | 15 617                                      |
| ELECTRIC ENERGY:  |                                    |                      |   |   |                                     |   |                           |                                  |  |   |
| PURCHASED:  |                                    |                      |   |   |                                     |   |                           |                                  |  |   |
| QUANTITY . . . . . MILLION KW.-HRS. . .                                     | 9 301                              | 679                  | 1 222                                   | 543   | 2 315                               | 788   | 1 214                     | 901                              | 338  | 1 301                                       |
| COST . . . . . \$1,000 . . . . .  | 139 900                            | 8 076                | 16 564                                  | 7 982   | 35 319                              | 12 666  | 17 957                    | 15 808                           | 5 712                                      | 19 813                                      |
| GENERATED LESS SOLO . . . . . MILLION KW.-HRS. .                            | 12 504                             | (0)                  | 2 510                                   | 1 143   | 1 797                               | 1 709   | 24                        | 8                                | (0)  | 2 318                                       |
| CONTRACT WORK . . . . . \$1,000 . . . . .                                   | 409 120                            | 2 094                | 34 530                                  | 9 815   | 140 345                             | 73 407  | 73 118                    | 14 649                           | 18 804                                     | 42 358                                      |
| VALUE OF SHIPMENTS (INCLUDING REALES), TOTAL <sup>1</sup> . . . . . DO. . . | 23 065 207                         | 2 075 014            | 2 736 858                               | 1 588 515                                       | 7 069 942                           | 1 807 228                                     | 2 678 996                 | 839 711                          | 1 030 876                                  | 3 238 067                                   |
| VALUE OF REALES . . . . . DO. . . . .                                       | 965 874                            | 40 598               | 108 997                                 | 90 524  | 441 568                             | 61 096  | 66 129                    | 10 971                           | 38 362                                     | 107 629                                     |
| VALUE ADDED BY MANUFACTURE, ADJUSTED . . . . . DO. . . . .                  | 11 791 081                         | 830 515              | 1 707 558                               | 790 263   | 3 219 813                           | 1 054 237                                     | 1 368 993                 | 554 748                          | 539 137                                    | 1 725 817                                   |
| MANUFACTURERS' INVENTORIES:   |                                    |                      |   |   |                                     |   |                           |                                  |  |   |
| BEGINNING OF YEAR, TOTAL . . . . . DO. . .                                  | 3 783 909                          | 292 330              | 449 994                                 | 299 366   | 1 289 720                           | 268 794                                       | 336 751                   | 45 295                           | 150 688                                    | 650 971                                     |
| FINISHED PRODUCTS . . . . . DO. . . . .                                     | 1 093 779                          | 97 361               | 145 365                                 | 135 071   | 198 445                             | 117 655                                       | 95 765                    | 9 627                            | 59 365                                     | 235 125                                     |
| WORK-IN-PROCESS . . . . . DO. . . . .                                       | 1 246 973                          | 84 288               | 171 239                                 | 61 481  | 556 921                             | 56 015  | 88 313                    | 5 641                            | 28 830                                     | 194 245                                     |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO. . . . .                         | 1 443 127                          | 110 651              | 133 390                                 | 102 814   | 534 354                             | 95 124  | 152 673                   | 30 027                           | 62 493                                     | 221 601                                     |
| END OF YEAR, TOTAL . . . . . DO. . . . .                                    | 3,954,077                          | 321 722              | 481 205                                 | 306 338   | 1 335 876                           | 281 002                                       | 360 833                   | 49 554                           | 150 692                                    | 666 853                                     |
| FINISHED PRODUCTS . . . . . DO. . . . .                                     | 1 134 996                          | 112 560              | 149 517                                 | 133 176   | 200 801                             | 122 314                                       | 102 149                   | 10 094                           | 59 541                                     | 248 844                                     |
| WORK-IN-PROCESS . . . . . DO. . . . .                                       | 1 329 977                          | 89 787               | 187 169                                 | 68 108  | 597 356                             | 59 103  | 96 865                    | 5 742                            | 28 352                                     | 197 498                                     |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO. . . . .                         | 1 489 101                          | 119 375              | 144 519                                 | 105 054   | 537 719                             | 99 585  | 161 819                   | 33 718                           | 62 799                                     | 224 513                                     |
| EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . . . DO. . . . .           | 630 985                            | 69 086               | 106 449                                 | 32 298  | 140 683                             | 60 123  | 73 166                    | 32 117                           | 27 675                                     | 89 388                                      |
| NEW, TOTAL . . . . . DO. . . . .  | 570 077                            | 66 507               | 100 636                                 | 30 220  | 126 134                             | 50 107  | 64 248                    | 28 688                           | 24 795                                     | 78 742                                      |
| NEW STRUCTURES AND ADDITIONS TO PLANT . . . . . DO. . . . .                 | 137 737                            | 7 997                | 24 159                                  | 7 640   | 38 510                              | 9 251   | 16 054                    | 6 933                            | 6 036                                      | 21 157                                      |
| NEW MACHINERY AND EQUIPMENT . . . . . DO. . . . .                           | 432 340                            | 58 510               | 76 477                                  | 22 580  | 87 624                              | 40 856  | 48 194                    | 21 755                           | 18 759                                     | 57 585                                      |
| USED PLANT AND EQUIPMENT . . . . . DO. . . . .                              | 60 907                             | 2 579                | 5 813                                   | 2 078   | 14 548                              | 10 016  | 8 918                     | 3 429                            | 2 880                                      | 10 646                                      |
| SELECTED OPERATING RATIOS:  |                                    |                      |   |   |                                     |   |                           |                                  |  |   |
| PAYROLL/TOTAL EMPLOYMENT . . . . .  | 5 903                              | 7 081                | 5 855                                   | 5 742   | 5 907                               | 6 180   | 5 845                     | 5 037                            | 5 343                                      | 6 047                                       |
| PRODUCTION WORKERS/TOTAL EMPLOYMENT . . . . .                               | .78                                | .87                  | .79                                     | .75   | .74                                 | .79   | .82                       | .84                              | .81  | .75   |
| MAN-HOURS/PRODUCTION WORKERS . . . . .                                      | 2 040                              | 2 111                | 2 050                                   | 1 976   | 2 025                               | 2 097   | 2 049                     | 2 003                            | 2 043                                      | 2 031                                       |
| PRODUCTION WORKER WAGES/MAN-HOURS . . . . .                                 | 2.61                               | 3.20                 | 2.59                                    | 2.59  | 2.61                                | 2.66  | 2.59                      | 2.26                             | 2.32                                       | 2.66  |
| COST OF MATERIALS AND PAYROLLS/TOTAL VALUE OF SHIPMENTS . . . . .           | .77                                | .79                  | .68                                     | .75   | .82                                 | .74   | .78                       | .73                              | .76  | .75   |
| COST OF MATERIALS/TOTAL VALUE OF SHIPMENTS . . . . .                        | .49                                | .61                  | .38                                     | .51   | .55                                 | .42   | .49                       | .34                              | .48  | .47   |
| ADJUSTED VALUE ADDED/TOTAL EMPLOYMENT . . . . .                             | 10 896                             | 15 598               | 12 505                                  | 11 594  | 9 893                               | 11 153  | 10 357                    | 8 453                            | 9 712                                      | 11 443                                      |
| SALARIES AND WAGES/ADJUSTED VALUE ADDED . . . . .                           | .54                                | .43                  | .47                                     | .50   | .60                                 | .55   | .56                       | .60                              | .55  | .53   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.



## METAL CANS, CUTLERY, HAND TOOLS, AND GENERAL HARDWARE

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3411—Metal Cans
- 3421—Cutlery
- 3423—Hand and Edge Tools, Except Machine Tools and Hand Saws
- 3425—Hand Saws and Saw Blades
- 3429—Hardware, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3411—METAL CANS

This industry comprises establishments primarily engaged in manufacturing metal cans from purchased tinplate, terneplate, blackplate, or enameled sheet metal. Establishments primarily engaged in the manufacture of composite cans made partly of metal and partly of nonmetallic materials (such as fiberboard) are excluded from this industry. For a detailed list of products of industry 3411, refer to table 6A, product codes 3411001 to 3411091.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Metal Cans Industry totaled \$2,075 million. This amount included shipments of metal cans (primary products) valued at \$1,960 million, shipments of other products (secondary products) valued at \$63 million, and miscellaneous receipts (mainly sales of products bought and resold), at \$52 million.

This industry's shipments of metal cans represented 97 percent of its total product shipments. The industry specialization ratio in 1958 was 98 percent. Secondary products shipped by this industry in 1963 included steel shipping pails (\$12 million).

Shipments of metal cans by this industry represented 98 percent of all shipments of these products (\$2,002 million) by all industries. In 1958 the coverage ratio was 99 percent. Other industries shipping metal cans (primary products) included industry 3491, Metal Barrels, Drums, and Pails, \$7 million.

The production index for the primary products of the industry increased to 123 in 1963 from the 1958 level of 113. The unit value index for 1963 was 122 compared to 117 in 1958. Both indexes were computed on a basis of 1954 = 100.

Detailed figures on the shipments of metal cans are collected on a monthly basis by the Bureau of the Census on Form M34D. Table 6A shows totals for the data collected in the monthly survey and in the census of manufactures for the same period. The differences are due to minor revisions in the reports for some companies. Both the census of manufactures data for industry 3411 and the monthly survey include data for "captive" production, that is, the production of cans for use by the producing company. Most of these "captive" establishments are part of food, petroleum, and paint companies.

The monthly survey data are reported in terms of base boxes of metal consumed in the manufacture of cans. Also reported separately are the base boxes of steel (tinplate) and aluminum consumed in the manufacture of cans. For 1963 the base boxes of steel (tinplate) have been converted to short tons by use of the factor 23.5 base boxes per short ton of steel. For 1958 the conversion factors which appear in the table below were applied to individual types of cans.

The weight of aluminum consumed in producing metal cans was reported separately and totaled 43,321 short tons in 1963. Aluminum was not a significant factor in the production of metal cans in 1958.

Certain of the larger companies operating establishments classified in industry 3411 also have establishments producing other types of metal containers as well as containers made of other materials and which are classified in other industries; for example: steel shipping barrels, drums, and pails in industry 3491, Metal Barrels, Drums, and Pails; paper and paperboard boxes, drums, etc., in Major Group 26, Paper and Allied Products.

| Type of can  | Base boxes per short ton of steel |
|--|-----------------------------------|
| Fruit and vegetable (including juice) . . . . .              | 21.4                              |
| Evaporated and condensed milk . . . . .                      | 25.0                              |
| Other dairy products . . . . .                               | 20.4                              |
| Meat (including poultry) . . . . .                           | 21.7                              |
| Fish and seafood . . . . .                                   | 23.0                              |
| Coffee . . . . .   | 21.3                              |
| Lard and shortening . . . . .                                | 21.7                              |
| Soft drink . . . . .   | 22.1                              |
| Beer . . . . .   | 20.6                              |
| Pet food . . . . .   | 24.0                              |
| Oil, open-top (1 quart and 5 quart) . . . . .                | 23.3                              |
| All other food (including soup and baby food cans) . . . . . | 23.0                              |
| All other nonfood . . . . .                                  | 21.2                              |

#### 3421—CUTLERY

This industry comprises establishments primarily engaged in manufacturing cutlery. Establishments primarily engaged in manufacturing table cutlery made entirely of metal are classified in industry 3914; those manufacturing electric razors, in industry 3634; and those manufacturing hair clippers for human use, in industry 3999, and for animal use, in industry 3522. For a detailed list of products of industry 3421, refer to table 6A, product codes 3421111 to 3421251.



The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Cutlery Industry totaled \$283 million. This amount included shipments of cutlery (primary products) valued at \$246 million; shipments of other products (secondary products) valued at \$30 million; and miscellaneous receipts (mainly sales of products bought and resold) at \$7 million.

This industry's shipments of cutlery represented 89 percent of its total product shipments. The industry specialization ratio in 1958 was 93 percent.

Shipments of cutlery by this industry represented 97 percent of all shipments of these products (\$254 million) by all industries. In 1958 the coverage ratio was 98 percent. Another industry shipping cutlery (primary products) was industry 3423, Hand and Edge Tools, \$4 million.

#### 3423—HAND AND EDGE TOOLS, EXCEPT MACHINE TOOLS AND HAND SAWS

This industry comprises establishments primarily engaged in manufacturing files and other hand and edge tools for metalworking, woodworking, and general maintenance. Establishments primarily engaged in manufacturing saws are classified in industry 3425; and metal cutting dies and power driven hand tools, and attachments and accessories for machine tools in Major Group 35. For a detailed list of products of industry 3423, refer to table 6A, product codes 3423111 to 3423398.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Hand and Edge Tools Industry totaled \$566 million. This amount included shipments of hand and edge tools (primary products) valued at \$445 million, shipments of other products (secondary products) valued at \$69 million, and miscellaneous receipts (mainly sale of products bought and resold) at \$51 million.

This industry's shipments of hand and edge tools represented 87 percent of its total product shipments. The industry specialization ratio in 1958 was 91 percent. Secondary products shipped by this industry in 1963 included hand saws, sawblades, and saw accessories (\$6 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 51 percent of the total industry shipments are represented by plants specializing in mechanics' hand service tools; and 28 percent in files, rasps, and file accessories and other hand tools.

Shipments of hand and edge tools by this industry represented 84 percent of all shipments of these products (\$536 million) by all industries. In 1958 the coverage ratio was 85 percent. Other industries shipping hand and edge tools (primary products) included industry 3429, Hardware, N.E.C., \$4 million; and industry 3421, Cutlery, \$3 million.

#### 3425—HAND SAWS AND SAW BLADES

This industry comprises establishments primarily engaged in manufacturing hand saws and saw blades for hand and power driven saws. Establishments primarily engaged in manufacturing power driven sawing machines are classified in Major Group 35. For a

detailed list of products of industry 3425, refer to table 6A, product codes 3425011 to 3425049.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Hand Saws and Saw Blades Industry totaled \$103 million. This amount included shipments of hand saws and saw blades (primary products) valued at \$72 million; shipments of other products (secondary products) valued at \$20 million; and miscellaneous receipts at \$11 million.

This industry's shipments of hand saws and saw blades represented 78 percent of its total product shipments. The industry specialization ratio in 1958 was 82 percent.

Shipments of hand saws and saw blades by this industry in 1963 represented 85 percent of all shipments of these products (\$85 million) by all industries. In 1958 the coverage ratio was 90 percent.

The production index for the primary products of the industry increased to 89 in 1963 from the 1958 level of 88. The unit value index for 1963 was 148 compared to 134 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3429—HARDWARE, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing miscellaneous metal products usually termed "hardware" and not elsewhere classified. Establishments primarily engaged in manufacturing bolts and nuts are classified in industry 3452, nails and spikes in Major Group 33, cutlery in industry 3421, hand tools in industry 3423, and pole line and transmission hardware in Major Group 36. For a detailed list of products of industry 3429, refer to table 6A, product codes 3429111 to 3429598.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Hardware, N.E.C., Industry totaled \$1,785 million. This amount included shipments of hardware, n.e.c., (primary products) valued at \$1,553 million; shipments of other products (secondary products) valued at \$158 million; and miscellaneous receipts (mainly sales of products bought and resold) at \$74 million.

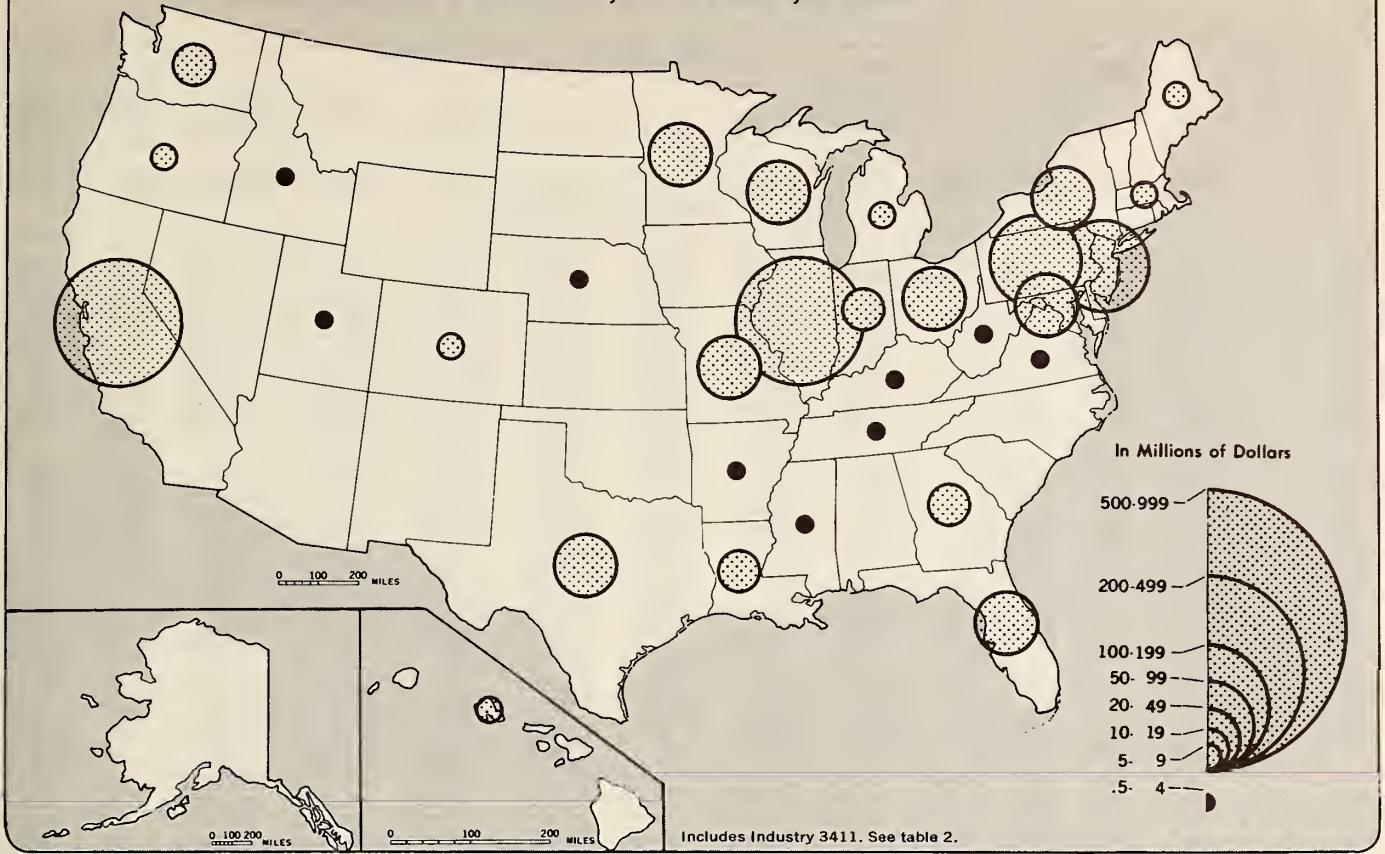
This industry's shipments of hardware, n.e.c., represented 91 percent of its total product shipments. The industry specialization ratio in 1958 was 89 percent. Secondary products shipped by this industry in 1963 included fabricated metal products, n.e.c. (\$13 million), and job stampings, except automatic (\$8 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 48 percent of the total industry shipments are represented by plants specializing in transportation hardware, and 28 percent in builders' hardware.

Shipments of hardware, n.e.c., by this industry represented 93 percent of all shipments of these products (\$1,663 million) by all industries. In 1958 the coverage ratio was also 93 percent. Other industries shipping hardware, n.e.c., included industry 3461, Metal Stampings, \$13 million; industry 3537, Industrial Trucks and Tractors, \$6 million; and industry 3964, Needles, Pins, and Fasteners, \$6 million.



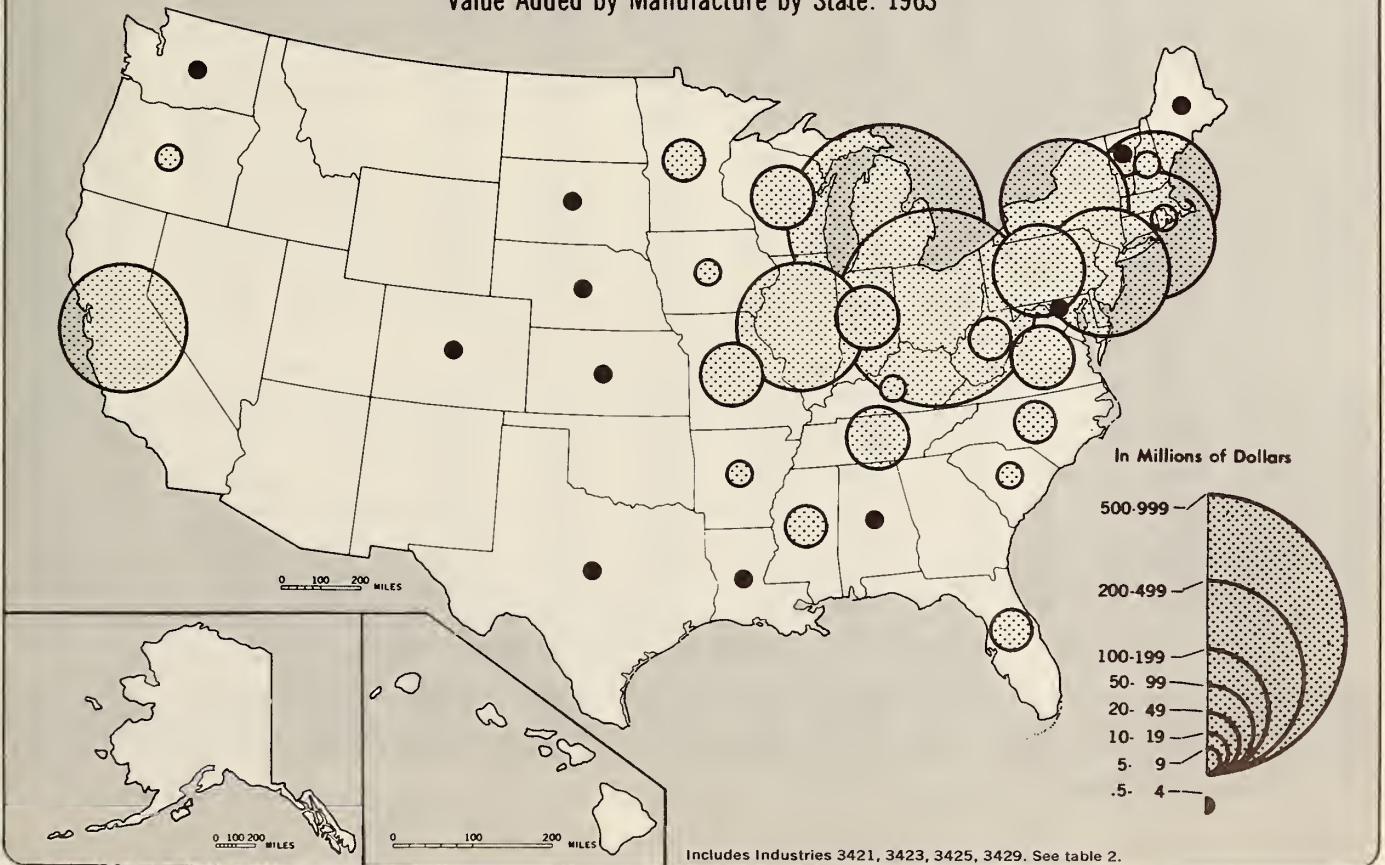
**METAL CANS: SIC 341**  
 Value Added by Manufacture by State: 1963



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

**CUTLERY, HAND TOOLS, HARDWARE: SIC 342**  
 Value Added by Manufacture by State: 1963



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics: 1963 and Earlier Years

| Year                                    | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expendi-<br>tures,<br>new<br>(\$1,000) | Speci-<br>alization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|--|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |  |  |
| INDUSTRY 3411.—METAL CANS               |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963.....                               | 99                         | 270               | 206  | 53,245            | 377,031              | 46,110             | 97,340               | 311,058            | 830,515  | 1,265,197                         | 2,075,014                          | 66,507  | 97   | 98                                       |
| 1962 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 53,069            | 369,321              | 46,018             | 98,442               | 305,401            | 772,377  | 1,339,631                         | 2,112,439                          | 59,974  | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 53,355            | 347,613              | 46,206             | 96,001               | 286,885            | 758,725  | 1,343,545                         | 2,095,282                          | 47,853  | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 53,554            | 333,624              | 46,369             | 95,789               | 275,092            | 666,151  | 1,279,234                         | 1,936,373                          | 68,425  | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 53,764            | 332,097              | 46,613             | 97,349               | 273,998            | 668,260  | 1,250,791                         | 1,933,746                          | 50,772  | (NA)   | (NA)                                     |
| 1958 <sup>2 3 4</sup> .....             | 82                         | 222               | 189  | 54,238            | 303,885              | 46,921             | 94,295               | 249,514            | 668,606  | 1,169,699                         | 1,824,106                          | 54,346  | 98   | 99                                       |
| 1957 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 54,777            | 290,224              | 47,502             | 96,998               | 238,549            | 647,888  | 1,063,708                         | 1,694,461                          | 46,529  | 98   | 99                                       |
| 1956 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 55,083            | 277,640              | 47,986             | 99,274               | 229,983            | 631,040  | 1,037,981                         | 1,646,655                          | 47,713  | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 54,506            | 255,707              | 47,359             | 96,784               | 211,287            | 570,551  | 898,585                           | 1,461,795                          | 43,762  | (NA)   | (NA)                                     |
| 1954 <sup>4</sup> .....                 | 109                        | 227               | 175  | 55,234            | 245,134              | 48,008             | 97,574               | 202,112            | 500,408  | 897,795                           | 1,381,359                          | 50,093  | 98   | 99                                       |
| 1953 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 55,719            | 225,224              | 48,541             | 97,877               | 184,439            | 469,816  | 858,590                           | 1,328,406                          | 30,761  | (NA)   | (NA)                                     |
| 1952 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 52,203            | 209,627              | 45,281             | 94,604               | 172,900            | 424,877  | 786,483                           | 1,211,360                          | 26,836  | (NA)   | (NA)                                     |
| 1951 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 53,392            | 196,046              | 46,406             | 95,331               | 160,966            | 392,087  | 794,010                           | 1,186,097                          | 38,962  | (NA)   | (NA)                                     |
| 1950 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 51,611            | 171,962              | 44,855             | 93,814               | 141,900            | 342,210  | 734,214                           | 1,076,424                          | 38,988  | (NA)   | (NA)                                     |
| 1949 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 46,744            | 145,797              | 40,218             | 85,348               | 117,753            | 275,311  | 625,614                           | 900,925                            | 29,651  | (NA)   | (NA)                                     |
| 1947.....                               | 102                        | 215               | 172  | 46,760            | 126,941              | 40,779             | 84,715               | 105,394            | 231,503  | 447,421                           | 678,924                            | 20,183  | 97   | 99                                       |
| 1939 <sup>5</sup> .....                 | (NA)                       | 195               | (NA)   | (NA)              | (NA)                 | (NA)               | (NA)                 | 33,722             | 116,152  | 242,669                           | 358,821                            | (NA)  | (NA)   | (NA)                                     |
| 1937.....                               | (NA)                       | 224               | (NA)   | 38,330            | 48,426               | 33,145             | (NA)                 | 37,194             | 113,686  | 245,110                           | 358,796                            | (NA)  | (NA)   | (NA)                                     |
| 1935 <sup>6</sup> .....                 | (NA)                       | 204               | (NA)   | 31,674            | 37,067               | 27,484             | (NA)                 | 27,826             | 86,270   | 206,118                           | 292,388                            | (NA)  | (NA)   | (NA)                                     |
| 1933 <sup>6</sup> .....                 | (NA)                       | 194               | (NA)   | 25,883            | 27,604               | 23,343             | (NA)                 | 22,693             | 70,900   | 137,046                           | 207,946                            | (NA)  | (NA)   | (NA)                                     |
| 1931 <sup>6</sup> .....                 | (NA)                       | 199               | (NA)   | (NA)              | (NA)                 | 25,271             | (NA)                 | 27,978             | 74,513   | 149,121                           | 223,634                            | (NA)  | (NA)   | (NA)                                     |
| 1929 <sup>3 6</sup> .....               | (NA)                       | 232               | (NA)   | 35,254            | 46,461               | 31,497             | (NA)                 | 38,173             | 101,914  | 194,987                           | 296,901                            | (NA)  | (NA)   | (NA)                                     |
| 1927 <sup>6</sup> .....                 | (NA)                       | 236               | (NA)   | 33,056            | 42,400               | 29,721             | (NA)                 | 35,001             | 84,058   | 169,421                           | 253,479                            | (NA)  | (NA)   | (NA)                                     |
| 1925 <sup>6</sup> .....                 | (NA)                       | 221               | (NA)   | 33,234            | 41,063               | 29,901             | (NA)                 | 34,392             | 84,581   | 175,779                           | 260,360                            | (NA)  | (NA)   | (NA)                                     |
| 1923.....                               | (NA)                       | 241               | (NA)   | 35,036            | 41,933               | 30,511             | (NA)                 | 32,816             | 79,991   | 135,980                           | 215,971                            | (NA)  | (NA)   | (NA)                                     |
| 1921.....                               | (NA)                       | 244               | (NA)   | 25,168            | 29,943               | 22,711             | (NA)                 | 24,595             | 59,557   | 108,748                           | 168,305                            | (NA)  | (NA)   | (NA)                                     |
| 1919.....                               | (NA)                       | 301               | (NA)   | 38,781            | 42,703               | 34,386             | (NA)                 | 34,493             | 68,793   | 165,171                           | 233,964                            | (NA)  | (NA)   | (NA)                                     |
| 1914.....                               | (NA)                       | 294               | (NA)   | 25,130            | 15,660               | 22,584             | (NA)                 | 12,217             | 28,090   | 53,841                            | 81,931                             | (NA)  | (NA)   | (NA)                                     |
| 1909.....                               | (NA)                       | 318               | (NA)   | (NA)              | (NA)                 | 19,754             | (NA)                 | 8,675              | 19,541   | 39,273                            | 58,814                             | (NA)  | (NA)   | (NA)                                     |
| 1904 <sup>7</sup> .....                 | (NA)                       | 377               | (NA)   | 18,135            | 8,872                | 16,919             | (NA)                 | 6,842              | 15,645   | 26,248                            | 41,893                             | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3421.—CUTLERY                  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963.....                               | 156                        | 161               | 67   | 11,837            | 64,281               | 9,487              | 19,312               | 43,896             | 213,998  | 72,934                            | 283,352                            | 12,382  | 89   | 97                                       |
| 1962 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 12,418            | 65,832               | 9,472              | 19,095               | 40,634             | 194,593  | 63,273                            | 257,288                            | 11,423  | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 11,675            | 60,289               | 8,608              | 17,393               | 37,223             | 174,717  | 57,849                            | 232,276                            | 6,487   | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 11,298            | 55,834               | 8,585              | 17,202               | 35,215             | 157,487  | 54,726                            | 209,325                            | 3,387   | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 12,093            | 56,243               | 8,880              | 17,552               | 35,254             | 150,814  | 51,799                            | 201,902                            | 3,270   | (NA)   | (NA)                                     |
| 1958.....                               | 178                        | 183               | 72   | 11,831            | 52,745               | 9,107              | 17,986               | 34,875             | 126,310  | 51,146                            | 179,271                            | 2,370   | 93   | 98                                       |
| 1957 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 14,421            | 62,769               | 11,411             | 22,060               | 41,366             | 133,563  | 57,094                            | 191,545                            | 2,654   | 89   | 96                                       |
| 1956 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 14,905            | 63,154               | 11,825             | 23,782               | 42,210             | 141,374  | 57,547                            | 191,018                            | 3,388   | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 15,226            | 60,532               | 12,137             | 24,661               | 40,804             | 130,497  | 53,836                            | 172,991                            | 4,272   | (NA)   | (NA)                                     |
| 1954.....                               | 179                        | 182               | 79   | 15,102            | 56,062               | 12,362             | 24,578               | 39,609             | 120,951  | 50,642                            | 173,565                            | 2,393   | 88   | 96                                       |
| 1953 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 17,251            | 66,612               | 14,061             | 28,367               | 47,067             | 137,131  | 59,744                            | 196,875                            | (NA)  | (NA)   | (NA)                                     |
| 1952 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 17,068            | 61,705               | 14,323             | 27,919               | 45,239             | 123,743  | 46,253                            | 169,996                            | (NA)  | (NA)   | (NA)                                     |
| 1951 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 20,667            | 70,391               | 17,853             | 36,048               | 52,715             | 126,556  | 59,451                            | 186,006                            | (NA)  | (NA)   | (NA)                                     |
| 1950 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 21,305            | 61,442               | 18,341             | 35,424               | 45,980             | 126,852  | 49,729                            | 176,581                            | (NA)  | (NA)   | (NA)                                     |
| 1949 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 18,616            | 53,546               | 15,866             | 32,380               | 39,795             | 101,066  | 43,112                            | 144,178                            | (NA)  | (NA)   | (NA)                                     |
| 1947.....                               | 192                        | 195               | 97   | 20,248            | 54,142               | 17,579             | 37,219               | 42,350             | 104,833  | 37,738                            | 142,571                            | 5,774   | 93   | 94                                       |
| 1939 <sup>8</sup> .....                 | (NA)                       | 124               | (NA)   | (NA)              | (NA)                 | 10,252             | (NA)                 | 10,768             | 28,381   | 14,400                            | 42,781                             | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3423.—HAND AND EDGE TOOLS      |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963.....                               | 681                        | 716               | 255  | 31,480            | 176,837              | 24,508             | 48,716               | 125,652            | 364,265  | 207,356                           | 565,590                            | 10,955  | 87   | 84                                       |
| 1962 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 33,715            | 180,042              | 26,062             | 53,853               | 125,953            | 358,111  | 234,550                           | 589,247                            | 12,141  | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 32,018            | 164,906              | 24,557             | 49,856               | 114,591            | 334,562  | 205,795                           | 538,451                            | 9,089   | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 31,106            | 156,003              | 24,165             | 48,854               | 109,501            | 315,934  | 185,436                           | 492,595                            | 8,330   | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 31,923            | 156,687              | 25,070             | 50,760               | 111,127            | 325,886  | 193,777                           | 510,026                            | 10,453  | (NA)   | (NA)                                     |
| 1958.....                               | 731                        | 763               | 250  | 30,273            | 142,551              | 23,626             | 45,720               | 99,674             | 267,316  | 168,173                           | 440,150                            | 8,588   | 91   | 85                                       |
| 1954.....                               | (NA)                       | 780               | 261  | 33,397            | 134,138              | 27,398             | 53,053               | 98,270             | 229,241  | 140,964                           | 375,672                            | 9,383   | (NA)   | (NA)                                     |
| 1952 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 42,373            | 160,750              | 34,348             | 69,149               | 118,286            | 267,521  | 146,423                           | 413,944                            | (NA)  | (NA)   | (NA)                                     |
| 1951 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 43,737            | 160,537              | 36,063             | 74,705               | 120,817            | 266,364  | 154,450                           | 420,814                            | (NA)  | (NA)   | (NA)                                     |
| 1950 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 41,479            | 138,301              | 33,596             | 66,901               | 99,138             | 234,309  | 129,177                           | 363,486                            | (NA)  | (NA)   | (NA)                                     |
| 1947.....                               | (NA)                       | 852               | (NA)   | 48,345            | 137,183              | 41,422             | (NA)                 | 107,005            | 230,890  | 123,443                           | 354,333                            | (NA)  | (NA)   | (NA)                                     |
| 1939 <sup>8</sup> .....                 | (NA)                       | 539               | (NA)   | 3,728             | 4,909                | 22,816             | (NA)                 | 26,874             | 68,134   | 34,046                            | 102,180                            | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3425.—HAND SAWS AND SAW BLADES |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963.....                               | 70                         | 76                | 42   | 5,095             | 29,148               | 3,768              | 7,721                | 19,621             | 65,634   | 38,610                            | 102,782                            | 6,340   | .78  | .85                                      |
| 1962 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 5,285             | 29,116               | 3,957              | 8,046                | 18,866             | 64,884   | 37,604                            | 102,702                            | 2,156   | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 5,494             | 29,723               | 4,100              | 8,131                | 19,095             | 67,489   | 38,293                            | 102,257                            | 1,763   | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                 | (NA)                       | (NA)              | (NA)   | 5,453             | 29,708               | 4,045              | 8,389                | 19,490             | 65,240   | 34,767                            | 100,107                            | 2,300   | (NA)   | (NA)                                     |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years -Continued

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees or<br>more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3425.—HAND SAWS AND SAW BLADES—Continued |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1959 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 5,657             | 30,946               | 4,321              | 8,640                | 21,403             | 67,539   | 38,479                            | 105,205                            | 1,636   | (NA)  | (NA)                                     |
| 1958  | 82                         | 89                | 38   | 5,509             | 28,311               | 4,077              | 7,883                | 18,482             | 53,658   | 32,799                            | 87,626                             | 1,225   | 82  | 90                                       |
| 1957 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 6,197             | 31,375               | 4,763              | 9,015                | 21,167             | 59,714   | 35,608                            | 93,452                             | 1,961   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 7,249             | 34,047               | 5,705              | 11,056               | 23,884             | 65,852   | 40,707                            | 103,477                            | 2,462   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 7,415             | 32,544               | 5,906              | 11,474               | 23,210             | 57,933   | 37,023                            | 93,841                             | (S)   | (NA)  | (NA)                                     |
| 1954  | 95                         | 99                | 42   | 6,879             | 29,287               | 5,327              | 10,320               | 19,927             | 51,097   | 33,834                            | 88,426                             | 1,582   | 71  | 90                                       |
| 1953 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 7,712             | 32,335               | 6,076              | 12,976               | 23,603             | 52,701   | 35,243                            | 87,944                             | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 6,831             | 27,882               | 5,241              | 11,255               | 19,819             | 49,051   | 30,145                            | 79,196                             | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 7,946             | 33,477               | 6,435              | 14,487               | 25,444             | 59,407   | 40,525                            | 99,932                             | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 7,366             | 27,139               | 5,861              | 12,046               | 20,064             | 50,310   | 25,138                            | 75,448                             | (NA)  | (NA)  | (NA)                                     |
| 1947  | 81                         | 89                | 43   | 8,441             | 25,600               | 7,380              | 15,543               | 20,872             | 42,975   | 27,455                            | 70,430                             | (NA)  | 78  | 87                                       |
| 1939  | (NA)                       | 87                | (NA)   | 4,902             | 7,097                | 4,072              | (NA)                 | 5,198              | 11,686   | 6,785                             | 18,471                             | (NA)  | (NA)  | (NA)                                     |
| 1937  | (NA)                       | 80                | (NA)   | 4,953             | 7,043                | 4,384              | (NA)                 | 5,576              | 12,438   | 7,415                             | 19,853                             | (NA)  | (NA)  | (NA)                                     |
| 1935  | (NA)                       | 82                | (NA)   | 4,156             | 5,239                | 3,425              | (NA)                 | 3,731              | 8,426  | 5,223                             | 13,649                             | (NA)  | (NA)  | (NA)                                     |
| 1933  | (NA)                       | 71                | (NA)   | 3,129             | 3,213                | 2,528              | (NA)                 | 2,347              | 6,923  | 3,003                             | 9,926                              | (NA)  | (NA)  | (NA)                                     |
| 1931  | (NA)                       | 78                | (NA)   | (NA)              | (NA)                 | 3,005              | (NA)                 | 3,084              | 7,537  | 4,035                             | 11,572                             | (NA)  | (NA)  | (NA)                                     |
| 1929  | (NA)                       | 81                | (NA)   | 5,077             | 8,002                | 4,137              | (NA)                 | 5,727              | 15,731   | 6,884                             | 22,615                             | (NA)  | (NA)  | (NA)                                     |
| 1927  | (NA)                       | 77                | (NA)   | 5,134             | 7,873                | 4,182              | (NA)                 | 5,754              | 14,954   | 7,674                             | 22,628                             | (NA)  | (NA)  | (NA)                                     |
| 1925  | (NA)                       | 71                | (NA)   | 5,534             | 7,626                | 4,710              | (NA)                 | 5,873              | 16,485   | 8,224                             | 24,709                             | (NA)  | (NA)  | (NA)                                     |
| 1923  | (NA)                       | 80                | (NA)   | 6,373             | 8,959                | 5,420              | (NA)                 | 6,730              | 21,047   | 9,740                             | 30,787                             | (NA)  | (NA)  | (NA)                                     |
| 1921  | (NA)                       | 79                | (NA)   | 4,570             | 6,099                | 3,788              | (NA)                 | 4,087              | 11,705   | 6,480                             | 18,185                             | (NA)  | (NA)  | (NA)                                     |
| 1919  | (NA)                       | 112               | (NA)   | 6,621             | 8,672                | 5,510              | (NA)                 | 6,281              | 19,669   | 11,792                            | 31,461                             | (NA)  | (NA)  | (NA)                                     |
| 1914  | (NA)                       | 100               | (NA)   | 5,411             | 4,174                | 4,560              | (NA)                 | 3,019              | 7,803  | 4,714                             | 12,517                             | (NA)  | (NA)  | (NA)                                     |
| 1909  | (NA)                       | 96                | (NA)   | 5,673             | 3,823                | 4,832              | (NA)                 | 2,856              | 6,624  | 4,912                             | 11,536                             | (NA)  | (NA)  | (NA)                                     |
| 1904  | (NA)                       | 83                | (NA)   | 5,226             | 3,331                | 4,650              | (NA)                 | 2,707              | 5,784  | 4,036                             | 9,820                              | (NA)  | (NA)  | (NA)                                     |
| 1899  | (NA)                       | 86                | (NA)   | 3,527             | 2,022                | 3,215              | (NA)                 | 1,693              | 3,844  | 2,600                             | 6,444                              | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3429.—HARDWARE, N.E.C.                   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963  | 1,025                      | 1,069             | 446  | 88,142            | 529,217              | 70,238             | 145,633              | 383,419            | 1,063,661  | 730,482                           | 1,785,134                          | 70,959  | 91  | 93                                       |
| 1962 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 89,914            | 500,554              | 69,177             | 142,035              | 355,194            | 966,592  | 693,650                           | 1,651,811                          | 36,601  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 87,174            | 465,186              | 65,813             | 133,105              | 320,668            | 838,328  | 636,879                           | 1,467,415                          | 39,234  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 92,200            | 497,107              | 71,435             | 145,050              | 344,108            | 886,139  | 668,765                           | 1,552,388                          | 37,785  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 89,350            | 471,996              | 69,555             | 145,735              | 329,510            | 872,944  | 647,737                           | 1,500,780                          | 26,858  | (NA)  | (NA)                                     |
| 1958  | 1,022                      | 1,059             | 454  | 88,105            | 433,304              | 68,078             | 134,166              | 301,509            | 754,943  | 590,744                           | 1,347,879                          | 25,644  | 89  | 93                                       |
| 1957 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 92,732            | 450,273              | 74,463             | 150,757              | 328,117            | 783,191  | 585,763                           | 1,359,422                          | 35,559  | 89  | 91                                       |
| 1956 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 92,887            | 428,748              | 75,418             | 153,489              | 316,108            | 766,578  | 561,657                           | 1,312,616                          | 51,944  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 99,200            | 444,002              | 83,055             | 170,346              | 341,966            | 821,526  | 545,345                           | 1,344,590                          | 53,820  | (NA)  | (NA)                                     |
| 1954  | 852                        | 869               | 361  | 88,296            | 380,464              | 72,708             | 147,920              | 286,371            | 638,962  | 483,219                           | 1,126,335                          | 47,436  | 86  | 90                                       |
| 1953 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 93,437            | 390,837              | 78,780             | 162,619              | 303,897            | 632,739  | 495,595                           | 1,128,334                          | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 76,780            | 309,364              | 63,188             | 130,246              | 233,198            | 502,883  | 350,620                           | 853,503                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 82,972            | 309,587              | 69,043             | 141,380              | 235,617            | 531,810  | 383,235                           | 915,045                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 83,500            | 283,741              | 70,310             | 144,601              | 217,638            | 507,878  | 339,168                           | 847,046                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup>                                 | (NA)                       | (NA)              | (NA)   | 75,885            | 242,860              | 62,859             | 126,764              | 181,740            | 395,194  | 296,372                           | 691,566                            | (NA)  | (NA)  | (NA)                                     |
| 1947  | (NA)                       | 730               | (NA)   | 77,473            | 216,558              | 65,611             | 133,018              | 169,642            | 350,511  | 235,499                           | 586,010                            | (NA)  | 89  | 91                                       |
| 1939 <sup>8</sup>                                 | (NA)                       | 462               | (NA)   | (NA)              | (NA)                 | 38,035             | (NA)                 | 43,373             | 100,767  | 66,615                            | 167,382                            | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing, or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>2</sup>Data for Alaska and Hawaii are excluded for 1958 and earlier years.

<sup>3</sup>Figures for 1958-1963 and 1929 and earlier years do not include dairymen's tinware.

<sup>4</sup>A number of small establishments were misclassified into industry 3411 that should have been included in other industries. This affects the total establishments and total company counts and the number of establishments in the smaller size classes for industry 3411, but has no appreciable effect on the employment, value of shipments and other statistics of this industry.

<sup>5</sup>The figures for 1939 are not entirely comparable with those for earlier years. Value added by manufacture for 1939 on a basis comparable with earlier years was \$123.6 million.

<sup>6</sup>Data for stamped tinware, other than tin cans, are excluded from the figures for 1925-1935.

<sup>7</sup>"Metal cans" was formerly a part of the discontinued industry "Tinsmithing, coppersmithing and sheet iron working." Separate figures for 1899 are, therefore, not available.

<sup>8</sup>No comparable data are available for earlier years.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>       | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                    |                                      |
|------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|--------------------|--------------------------------------|
|                                    | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees      | Value added by manufacture, adjusted |
|                                    | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                    |                                      |
| INDUSTRY 3411.—METAL CANS          |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                    |                                      |
| Total.....                         | 270            | 206                                | 53,245         | 377,031           | 46,110             | 97,340            | 311,058         | 830,515                              | 1,265,197         | 2,075,014          | 66,507                    | 54,238             | 668,606                              |
| New England.....                   | 7              | 6                                  | 765            | 5,176             | 644                | 1,360             | 3,932           | 13,013                               | 21,619            | 34,370             | 591                       | 748                | 9,390                                |
| Middle Atlantic....                | 62             | 46                                 | 13,217         | 90,172            | 11,542             | 24,771            | 75,083          | 190,023                              | 264,893           | 452,864            | 14,686                    | 13,835             | 150,718                              |
| New York.....                      | 28             | 15                                 | 3,286          | 21,917            | 2,800              | 5,891             | 17,538          | 44,342                               | 65,557            | 109,269            | 2,529                     | 3,830              | 36,656                               |
| New Jersey.....                    | 19             | 16                                 | 5,562          | 39,092            | 4,836              | 10,322            | 32,325          | 90,544                               | 114,353           | 203,840            | 6,006                     | 5,637              | 72,370                               |
| Pennsylvania....                   | 15             | 15                                 | 4,369          | 29,163            | 3,906              | 8,558             | 25,220          | 55,137                               | 84,983            | 139,755            | 6,151                     | 4,368              | 41,692                               |
| East North Central.                | 52             | 48                                 | 15,143         | 106,283           | 12,997             | 27,051            | 86,631          | 226,726                              | 324,364           | 548,722            | 15,130                    | ( <sup>2</sup> )   | ( <sup>2</sup> )                     |
| Illinois.....                      | 21             | 21                                 | 10,051         | 70,997            | 8,655              | 18,021            | 58,328          | 139,284                              | 177,131           | 314,686            | 10,336                    | 11,233             | 128,821                              |
| Wisconsin.....                     | 9              | 7                                  | 2,006          | 14,425            | 1,768              | 3,628             | 12,150          | 27,919                               | 62,453            | 90,002             | 2,217                     | 2,025              | 33,466                               |
| West North Central.                | 16             | 10                                 | 4,140          | 30,154            | 3,641              | 7,622             | 25,462          | 68,778                               | 103,710           | 171,535            | 5,051                     | ( <sup>2</sup> )   | ( <sup>2</sup> )                     |
| South Atlantic....                 | 34             | 27                                 | 6,269          | 46,467            | 5,368              | 11,842            | 38,250          | 84,315                               | 147,414           | 227,951            | 8,817                     | 6,198              | 63,937                               |
| Maryland.....                      | 10             | 9                                  | 3,694          | 26,962            | 3,186              | 6,966             | 22,317          | 44,229                               | 70,947            | 113,040            | 1,748                     | 4,269              | 38,833                               |
| Florida.....                       | 12             | 9                                  | 1,621          | 13,297            | 1,345              | 3,111             | 10,817          | 24,802                               | 49,072            | 72,316             | 4,370                     | 1,591              | 20,820                               |
| East South Central.                | 8              | 5                                  | 378            | 2,029             | 344                | 720               | 1,764           | 8,377                                | 17,579            | 25,958             | 712                       | 221                | 2,551                                |
| West South Central.                | 18             | 11                                 | 3,386          | 25,344            | 2,906              | 6,127             | 20,560          | 50,296                               | 81,820            | 131,367            | 7,294                     | 3,429              | 43,959                               |
| Texas.....                         | 12             | 7                                  | 1,978          | 15,000            | 1,678              | 3,534             | 11,934          | 33,208                               | 52,057            | 84,464             | 5,937                     | 2,117              | 26,448                               |
| Mountain.....                      | 9              | 5                                  | 415            | 2,854             | 347                | 760               | 2,220           | 11,508                               | 19,700            | 31,079             | 544                       | 294                | 4,948                                |
| Colorado.....                      | 3              | 3                                  | 243            | 1,781             | 208                | 478               | 1,419           | 7,287                                | 12,477            | 19,561             | 274                       | ( <sup>2</sup> )   | ( <sup>2</sup> )                     |
| Pacific.....                       | 64             | 48                                 | 9,532          | 68,552            | 8,321              | 17,087            | 57,156          | 177,470                              | 284,098           | 451,168            | 13,672                    | <sup>3</sup> 9,601 | <sup>3</sup> 128,835                 |
| Washington.....                    | 9              | 7                                  | 815            | 5,834             | 695                | 1,358             | 4,734           | 18,485                               | 32,847            | 47,916             | 432                       | ( <sup>2</sup> )   | ( <sup>2</sup> )                     |
| California.....                    | 44             | 33                                 | 7,905          | 57,633            | 6,931              | 14,316            | 48,495          | 143,400                              | 209,555           | 347,284            | 11,920                    | 8,129              | 109,986                              |
| INDUSTRY 3421.—CUTLERY             |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                    |                                      |
| Total.....                         | 161            | 67                                 | 11,837         | 64,281            | 9,487              | 19,312            | 43,896          | 213,998                              | 72,934            | 283,352            | 12,382                    | 11,831             | 126,310                              |
| New England.....                   | 30             | 20                                 | 5,089          | 29,176            | 4,020              | 8,192             | 19,817          | 148,520                              | 35,838            | 183,690            | 10,168                    | 4,884              | 73,213                               |
| New Hampshire....                  | 6              | 3                                  | 162            | 766               | 151                | 312               | 612             | 1,199                                | 717               | 1,969              | 23                        | ( <sup>2</sup> )   | ( <sup>2</sup> )                     |
| Middle Atlantic....                | 61             | 32                                 | 4,041          | 20,818            | 3,341              | 6,743             | 15,033          | 34,052                               | 19,015            | 52,432             | 626                       | 4,842              | 33,652                               |
| New York.....                      | 28             | 18                                 | 2,137          | 10,838            | 1,753              | 3,343             | 7,809           | 16,717                               | 11,608            | 27,859             | (D)                       | 2,724              | 17,860                               |
| North Central.....                 | 46             | 10                                 | 1,298          | 5,909             | 1,088              | 2,093             | 4,357           | 14,219                               | 9,438             | 21,948             | 721                       | 729                | 5,685                                |
| Ohio.....                          | 16             | 5                                  | 879            | 3,985             | 730                | 1,384             | 2,889           | 10,323                               | 6,898             | 15,417             | 633                       | 394                | 3,168                                |
| South and West....                 | 24             | 5                                  | 1,409          | 8,378             | 1,038              | 2,284             | 4,689           | 17,207                               | 8,643             | 25,282             | 867                       | 1,376              | 13,760                               |
| INDUSTRY 3423.—HAND AND EDGE TOOLS |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                    |                                      |
| Total.....                         | 716            | 255                                | 31,480         | 176,837           | 24,508             | 48,716            | 125,652         | 364,265                              | 207,356           | 565,590            | 10,955                    | 30,273             | 267,316                              |
| New England.....                   | 119            | 44                                 | 5,628          | 31,181            | 4,326              | 8,841             | 21,843          | 54,457                               | 33,500            | 85,190             | 2,487                     | 6,265              | 48,572                               |
| Massachusetts....                  | 57             | 20                                 | 2,968          | 16,283            | 2,265              | 4,500             | 11,031          | 28,003                               | 18,812            | 44,644             | 839                       | 2,926              | 22,039                               |
| Rhode Island.....                  | 15             | 2                                  | 122            | 546               | 96                 | 202               | 427             | 975                                  | 430               | 1,411              | 31                        | ( <sup>2</sup> )   | ( <sup>2</sup> )                     |
| Connecticut.....                   | 28             | 13                                 | 2,103          | 12,417            | 1,587              | 3,367             | 8,836           | 22,040                               | 13,044            | 34,468             | 1,249                     | 2,024              | 16,491                               |
| Middle Atlantic....                | 168            | 77                                 | 8,502          | 44,869            | 6,783              | 13,308            | 33,133          | 94,867                               | 56,242            | 151,257            | 3,130                     | 7,375              | 63,432                               |
| New York.....                      | 71             | 29                                 | 4,120          | 22,524            | 3,181              | 6,229             | 16,127          | 47,415                               | 29,931            | 77,833             | 1,489                     | 3,546              | 30,418                               |
| New Jersey.....                    | 40             | 19                                 | 1,646          | 7,850             | 1,312              | 2,647             | 5,855           | 18,683                               | 10,573            | 29,179             | 475                       | 1,540              | 12,714                               |
| Pennsylvania....                   | 57             | 29                                 | 2,736          | 14,495            | 2,290              | 4,432             | 11,151          | 28,769                               | 15,738            | 44,245             | 1,166                     | 2,289              | 20,300                               |
| East North Central.                | 223            | 77                                 | 10,442         | 61,627            | 8,203              | 16,147            | 44,414          | 138,808                              | 76,916            | 214,704            | 3,455                     | 10,045             | 98,601                               |
| Ohio.....                          | 76             | 28                                 | 4,435          | 27,337            | 3,467              | 6,867             | 19,546          | 56,246                               | 30,531            | 86,784             | 1,291                     | 4,410              | 40,745                               |
| Illinois.....                      | 66             | 24                                 | 3,081          | 17,964            | 2,393              | 4,705             | 12,710          | 41,860                               | 21,066            | 62,395             | 959                       | 3,369              | 33,219                               |
| Michigan.....                      | 42             | 13                                 | 837            | 5,126             | 578                | 1,153             | 3,141           | 11,436                               | 5,515             | 16,658             | 349                       | 658                | 5,190                                |
| West South Central.                | 57             | 26                                 | 2,493          | 14,041            | 2,050              | 4,159             | 10,483          | 25,164                               | 13,292            | 38,141             | 494                       | 2,985              | 24,170                               |
| Minnesota.....                     | 13             | 7                                  | 880            | 4,858             | 677                | 1,398             | 3,415           | 8,105                                | 4,639             | 12,682             | 166                       | 853                | 6,533                                |
| Iowa.....                          | 9              | 2                                  | 152            | 864               | 131                | 274               | 632             | 1,842                                | 1,232             | 3,076              | (D)                       | 259                | 3,603                                |
| South.....                         | 47             | 13                                 | 2,575          | 13,756            | 1,907              | 3,831             | 9,175           | 29,274                               | 15,353            | 42,643             | 823                       | 1,738              | 15,248                               |
| West.....                          | 102            | 18                                 | 1,840          | 11,363            | 1,239              | 2,430             | 6,604           | 21,695                               | 12,053            | 33,655             | 566                       | 1,865              | 17,293                               |
| California.....                    | 82             | 12                                 | 1,425          | 8,942             | 936                | 1,844             | 5,059           | 16,950                               | 9,221             | 25,972             | 395                       | 1,474              | 13,768                               |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>            | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3425.—HAND SAWS AND SAW BLADES |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                              | 76             | 42                                 | 5,095          | 29,148            | 3,768              | 7,721             | 19,621          | 65,634                               | 38,610            | 102,782            | 6,340                     | 5,509            | 53,658                               |
| New England.....                        | 11             | 9                                  | 2,012          | 11,999            | 1,526              | 3,175             | 9,081           | 30,071                               | 17,048            | 46,381             | 5,213                     | 1,921            | 23,111                               |
| Middle Atlantic....                     | 19             | 12                                 | 694            | 4,063             | 506                | 1,020             | 2,545           | 7,697                                | 3,437             | 11,163             | 263                       | 1,676            | 11,356                               |
| New York.....                           | 10             | 6                                  | 395            | 2,386             | 294                | 598               | 1,473           | 4,503                                | 2,581             | 7,182              | (D)                       | 480              | 3,340                                |
| North Central.....                      | 22             | 12                                 | 945            | 5,440             | 728                | 1,464             | 3,689           | 12,186                               | 6,508             | 18,443             | 573                       | 1,541            | 14,653                               |
| Ohio.....                               | 12             | 5                                  | 311            | 1,661             | 244                | 489               | 1,229           | 3,128                                | 1,727             | 4,740              | 175                       | 245              | 1,457                                |
| South and West.....                     | 24             | 9                                  | 1,446          | 7,646             | 1,008              | 2,062             | 4,306           | 15,680                               | 11,617            | 26,795             | 291                       | 371              | 4,538                                |
| INDUSTRY 3429.—HARDWARE, N.E.C.         |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                              | 1,069          | 446                                | 88,142         | 529,217           | 70,238             | 145,633           | 383,419         | 1,063,661                            | 730,482           | 1,785,134          | 70,959                    | 88,105           | 754,943                              |
| New England.....                        | 106            | 48                                 | 13,159         | 69,504            | 9,891              | 19,407            | 47,706          | 119,167                              | 78,206            | 196,211            | 8,327                     | 16,722           | 113,863                              |
| New Hampshire....                       | 4              | 3                                  | 390            | 1,980             | 331                | 711               | 1,366           | 2,874                                | 1,569             | 4,360              | 45                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Massachusetts....                       | 38             | 15                                 | 2,780          | 12,753            | 2,038              | 4,226             | 9,645           | 18,956                               | 13,084            | 31,419             | 640                       | 3,596            | 23,087                               |
| Connecticut.....                        | 55             | 27                                 | 9,496          | 52,535            | 7,168              | 13,759            | 34,841          | 94,911                               | 59,593            | 153,947            | 7,528                     | 12,225           | 85,898                               |
| Middle Atlantic....                     | 230            | 93                                 | 13,958         | 85,771            | 11,168             | 23,488            | 62,076          | 172,098                              | 117,382           | 287,349            | 13,671                    | 14,089           | 116,540                              |
| New York.....                           | 135            | 49                                 | 5,874          | 33,712            | 4,515              | 9,357             | 22,435          | 60,872                               | 53,655            | 114,016            | 7,106                     | 5,141            | 42,809                               |
| New Jersey.....                         | 39             | 16                                 | 5,317          | 38,369            | 4,424              | 9,663             | 29,942          | 87,944                               | 46,891            | 133,404            | (D)                       | 5,271            | 49,540                               |
| Pennsylvania.....                       | 56             | 28                                 | 2,767          | 13,690            | 2,229              | 4,468             | 9,699           | 23,282                               | 16,836            | 39,939             | (D)                       | 3,677            | 24,191                               |
| East North Central.                     | 346            | 168                                | 42,856         | 279,085           | 35,073             | 74,296            | 211,700         | 584,071                              | 400,546           | 981,971            | 37,450                    | 41,835           | 384,617                              |
| Ohio.....                               | 65             | 29                                 | 8,476          | 58,771            | 6,642              | 13,760            | 43,436          | 133,097                              | 92,402            | 226,098            | 13,828                    | 8,038            | 77,587                               |
| Indiana.....                            | 34             | 18                                 | 2,753          | 15,820            | 2,183              | 4,513             | 11,132          | 32,979                               | 28,820            | 61,555             | 3,257                     | 2,706            | 23,407                               |
| Illinois.....                           | 112            | 57                                 | 11,574         | 65,301            | 9,295              | 19,068            | 47,418          | 121,747                              | 76,834            | 198,529            | 4,310                     | 11,391           | 109,142                              |
| Michigan.....                           | 107            | 52                                 | 17,636         | 125,644           | 14,914             | 32,843            | 99,748          | 266,256                              | 186,309           | 450,458            | 14,881                    | 17,879           | 157,190                              |
| Wisconsin.....                          | 28             | 12                                 | 2,417          | 13,549            | 2,039              | 4,112             | 9,966           | 29,992                               | 16,181            | 45,331             | 1,174                     | 1,821            | 17,291                               |
| West North Central.                     | 43             | 17                                 | 1,946          | 10,279            | 1,586              | 3,043             | 6,638           | 19,428                               | 18,820            | 38,127             | 777                       | 1,944            | 17,003                               |
| Minnesota.....                          | 15             | 4                                  | 475            | 2,275             | 365                | 668               | 1,212           | 5,638                                | 4,764             | 10,362             | 212                       | 632              | 4,911                                |
| Iowa.....                               | 7              | 4                                  | 454            | 2,260             | 366                | 633               | 1,459           | 4,243                                | 6,955             | 11,327             | 255                       | 419              | 5,576                                |
| Missouri.....                           | 16             | 8                                  | 949            | 5,497             | 798                | 1,629             | 3,789           | 8,948                                | 6,423             | 15,194             | 297                       | 769              | 5,390                                |
| South Atlantic....                      | 54             | 30                                 | 2,715          | 11,167            | 2,180              | 4,463             | 7,975           | 24,189                               | 16,450            | 40,805             | 857                       | 1,970            | 11,295                               |
| North Carolina...                       | 13             | 7                                  | 784            | 3,354             | 647                | 1,340             | 2,404           | 5,539                                | 4,653             | 10,185             | 441                       | 528              | 3,314                                |
| Florida.....                            | 24             | 8                                  | 897            | 3,848             | 640                | 1,344             | 2,455           | 11,669                               | 7,449             | 19,228             | 240                       | 377              | 2,214                                |
| East South Central.                     | 29             | 17                                 | 3,809          | 15,558            | 3,112              | 5,974             | 10,664          | 34,382                               | 23,346            | 55,677             | 2,215                     | 2,544            | 19,828                               |
| West South Central.                     | 42             | 9                                  | 1,005          | 4,179             | 752                | 1,549             | 2,643           | 7,800                                | 7,768             | 15,224             | 307                       | 831              | 6,298                                |
| Arkansas.....                           | 6              | 4                                  | 552            | 2,332             | 372                | 781               | 1,263           | 4,791                                | 5,271             | 9,707              | 161                       | 518              | 3,878                                |
| Texas.....                              | 28             | 4                                  | 264            | 1,245             | 211                | 465               | 901             | 1,988                                | 2,318             | 4,315              | 141                       | 148              | 1,063                                |
| Mountain.....                           | 11             | 3                                  | 141            | 741               | 102                | 207               | 474             | 2,204                                | 1,272             | 3,510              | 102                       | 131              | 1,560                                |
| Colorado.....                           | 6              | 3                                  | 122            | 676               | 87                 | 196               | 423             | 2,128                                | 1,160             | 3,339              | (D)                       | 131              | 1,560                                |
| Pacific.....                            | 208            | 71                                 | 8,553          | 52,933            | 6,374              | 13,206            | 33,543          | 100,322                              | 66,692            | 166,260            | 7,253                     | 8,039            | 83,939                               |
| Washington.....                         | 11             | 3                                  | 134            | 792               | 110                | 214               | 621             | 1,706                                | 1,044             | 2,484              | 169                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Oregon.....                             | 13             | 5                                  | 309            | 1,480             | 224                | 426               | 1,085           | 2,447                                | 2,135             | 4,525              | 116                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                         | 184            | 63                                 | 8,110          | 50,661            | 6,040              | 12,566            | 31,837          | 96,169                               | 63,513            | 159,251            | 6,968                     | 7,533            | 79,077                               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State. SIC 3411, Metal Cans: New England—Maine, 2 (250-499); Massachusetts, 4 (250-499); Connecticut, 1 (1-19); East North Central—Ohio, 14 (2,115); Indiana, 4 (812); Michigan, 4 (159); West North Central—Minnesota, 5 (1,173); Missouri, 9 (2,500-4,999); Nebraska, 1 (250-499); Kansas, 1 (1-19); South Atlantic—Virginia, 2 (100-249); West Virginia, 3 (162); North Carolina, 1 (1-19); South Carolina, 1 (1-19); Georgia, 5 (619); East South Central—Kentucky, 1 (20-99); Tennessee, 6 (100-249); Mississippi, 1 (20-99); West South Central—Arkansas, 2 (100-249); Louisiana, 2 (1,000-2,499); Oklahoma, 2 (20-99); Mountain—Idaho, 3 (20-99); Utah, 3 (135); Pacific—Oregon, 7 (250-499); Hawaii, 4 (250-499). SIC 3421, Cutlery: New England—Massachusetts, 8 (2,350); Rhode Island, 4 (500-999); Connecticut, 12 (1,000-2,499); New Jersey, 25 (1,270); Pennsylvania, 8 (634); East North Central—Indiana, 3 (1-19); Illinois, 5 (113); Michigan, 8 (100-249); Wisconsin, 3 (131); West North Central—Minnesota, 3 (1-19); Iowa, 6 (20-99); Missouri, 2 (20-99); South Atlantic—Delaware, 1 (1-19); Maryland, 1 (1-19); Virginia, 2 (500-999); Florida, 3 (20-99); West South Central—Arkansas, 2 (100-249); Texas, 1 (1-19); Mountain—Montana, 1 (1-19); Colorado, 1 (100-249); Pacific—Washington, 1 (1-19); Oregon, 2 (1-19); California, 9 (126).

Footnotes continued on next page.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

## Footnotes for Table 2—34A—Continued

SIC 3423, Hand and Edge Tools: New England—Maine, 9 (106); New Hampshire, 5 (100-249); Vermont, 5 (100-249); East North Central—Indiana, 25 (1,549); Wisconsin, 14 (540); West North Central—Missouri, 24 (961); Nebraska, 5 (100-249); Kansas, 6 (250-499); South Atlantic—Maryland, 2 (1-19); District of Columbia, 1 (1-19); Virginia, 3 (20-99); West Virginia, 4 (1,000-2,499); North Carolina, 5 (371); South Carolina, 1 (500-999); Georgia, 1 (1-19); Florida, 6 (20-99); East South Central—Kentucky, 4 (20-99); Tennessee, 3 (1-19); Alabama, 2 (1-19); Mississippi, 2 (20-99); West South Central—Arkansas, 6 (20-99); Oklahoma, 1 (1-19); Texas, 6 (100-249); Mountain—Colorado, 4 (100-249); Utah, 3 (20-99); Pacific—Washington, 5 (100-249); Oregon, 8 (141).

SIC 3425, Hand Saws and Saw Blades: New England—New Hampshire, 1 (20-99); Massachusetts, 5 (1,443); Connecticut, 5 (500-999); Middle Atlantic—New Jersey, 3 (20-99); Pennsylvania, 6 (279); East North Central—Indiana, 1 (20-99); Illinois, 5 (295); Michigan, 2 (100-249); West North Central—Minnesota, 1 (1-19); Missouri, 1 (100-249); South Atlantic—Maryland, 1 (1-19); Virginia, 1 (250-499); North Carolina, 3 (20-99); Georgia, 2 (20-99); East South Central—Kentucky, 3 (250-499); Alabama, 1 (20-99); Mississippi, 1 (500-999); West South Central—Arkansas, 1 (1-19); Texas, 1 (1-19); Pacific—Washington, 1 (1-19); Oregon, 2 (20-99); California, 7 (123).

SIC 3429, Hardware, N.E.C.: New England—Maine, 3 (265); Vermont, 1 (20-99); Rhode Island, 5 (100-249); West North Central—South Dakota, 3 (20-99); Nebraska, 1 (1-19); Kansas, 1 (1-19); South Atlantic—Maryland, 7 (20-99); District of Columbia, 2 (20-99); Virginia, 3 (624); West Virginia, 1 (20-99); South Carolina, 1 (250-499); Georgia, 3 (1-19); East South Central—Kentucky, 7 (252); Tennessee, 15 (2,460); Alabama, 3 (463); Mississippi, 4 (634); West South Central—Louisiana, 2 (100-249); Oklahoma, 6 (1-19); Mountain—Idaho, 1 (1-19); Wyoming, 1 (1-19); Arizona, 2 (1-19); Utah, 1 (1-19).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.

<sup>3</sup>Excludes data for Alaska and Hawaii.



TABLE 3. Detailed Statistics: 1963

| Item   | Metal cans<br>(SIC 3411) | Cutlery<br>(SIC 3421) | Hand and<br>edge tools<br>(SIC 3423) | Hand saws and<br>saw blades<br>(SIC 3425) | Hardware, n.e.c.<br>(SIC 3429) |
|--|--------------------------|-----------------------|--------------------------------------|---|--------------------------------|
| Primary product specialization ratio <sup>1</sup> .....        | .97                      | .89                   | .87                                  | .78                                       | .91                            |
| Coverage ratio <sup>2</sup> .....                              | .98                      | .97                   | .84                                  | .85                                       | .93                            |
| Establishments, total.....number..                             | 270                      | 161                   | 716                                  | 76  | 1,069                          |
| With 1 to 19 employees.....do....                              | 64                       | 94                    | 461                                  | 34  | 623                            |
| With 20 to 99 employees.....do....                             | 93                       | 40                    | 177                                  | 30  | 283                            |
| With 100 employees or more.....do....                          | 113                      | 27                    | 78                                   | 12  | 163                            |
| Proprietors and working partners.....do....                    | 23                       | 66                    | 309                                  | 20  | 361                            |
| All employees (average for the year).....do....                | 53,245                   | 11,837                | 31,480                               | 5,095                                     | 88,142                         |
| Payroll (all employees), total for year.....\$1,000..          | 377,031                  | 64,281                | 176,837                              | 29,148                                    | 529,217                        |
| Production workers:  |                          |                       |                                      |   |                                |
| Average for the year.....number..                              | 46,110                   | 9,487                 | 24,508                               | 3,768                                     | 70,238                         |
| March.....do....   | 44,538                   | 9,353                 | 24,770                               | 3,768                                     | 69,259                         |
| May.....do....   | 46,568                   | 9,305                 | 24,363                               | 3,767                                     | 69,987                         |
| August.....do....  | 48,606                   | 9,280                 | 24,089                               | 3,738                                     | 68,275                         |
| November.....do....  | 44,684                   | 10,016                | 24,870                               | 3,798                                     | 73,503                         |
| Man-hours.....1,000..  | 97,340                   | 19,312                | 48,716                               | 7,721                                     | 145,633                        |
| January-March.....do....                                       | 21,941                   | 4,818                 | 12,398                               | 1,949                                     | 35,647                         |
| April-June.....do....  | 25,249                   | 4,732                 | 12,524                               | 2,005                                     | 36,686                         |
| July-September.....do....                                      | 26,341                   | 4,486                 | 11,113                               | 1,796                                     | 34,419                         |
| October-December.....do....                                    | 23,817                   | 5,256                 | 12,681                               | 1,989                                     | 38,881                         |
| Wages.....\$1,000..  | 311,058                  | 43,896                | 125,652                              | 19,621                                    | 383,419                        |
| Cost of materials, etc., total.....do....                      | 1,265,197                | 72,934                | 207,356                              | 38,610                                    | 730,482                        |
| Materials, parts, containers, and supplies consumed.....do.... | 1,212,470                | 64,462                | 162,649                              | 32,665                                    | 653,977                        |
| Cost of resales.....do....                                     | 35,741                   | 3,823                 | 31,199                               | 3,883                                     | 33,554                         |
| Fuels consumed.....do....                                      | 6,816                    | 878                   | 3,275                                | 531                                       | 7,369                          |
| Electric energy:   |                          |                       |                                      |   |                                |
| Purchased:   |                          |                       |                                      |   |                                |
| Quantity.....million kw.-hrs..                                 | 679                      | 116                   | 217                                  | 60  | 829                            |
| Cost.....\$1,000..   | 8,076                    | 1,473                 | 3,433                                | 897                                       | 10,764                         |
| Generated less sold.....million kw.-hrs..                      | (D)                      | (D)                   | (D)                                  | -   | (D)                            |
| Contract work.....\$1,000..                                    | 2,094                    | 2,278                 | 6,800                                | 634                                       | 24,818                         |
| Value of shipments (including resales), total.....do....       | 2,075,014                | 283,352               | 565,590                              | 102,782                                   | 1,785,134                      |
| Value of resales.....do....                                    | 40,598                   | 5,290                 | 45,341                               | 5,029                                     | 53,337                         |
| Value added by manufacture, adjusted.....do....                | 830,515                  | 213,998               | 364,265                              | 65,634                                    | 1,063,661                      |
| Manufacturers' inventories:                                    |                          |                       |                                      |   |                                |
| Beginning of year, total.....do....                            | 292,330                  | 41,370                | 126,961                              | 21,969                                    | 259,694                        |
| Finished products.....do....                                   | 97,361                   | 15,864                | 51,615                               | 8,899                                     | 68,987                         |
| Work-in-process.....do....                                     | 84,288                   | 12,000                | 43,063                               | 5,800                                     | 110,376                        |
| Materials, supplies, fuel, etc.....do....                      | 110,651                  | 13,506                | 32,283                               | 7,270                                     | 80,331                         |
| End of year, total.....do....                                  | 321,722                  | 47,220                | 132,160                              | 24,361                                    | 277,464                        |
| Finished products.....do....                                   | 112,560                  | 17,585                | 52,360                               | 9,835                                     | 69,737                         |
| Work-in-process.....do....                                     | 89,787                   | 13,859                | 48,349                               | 6,326                                     | 118,635                        |
| Materials, supplies, fuel, etc.....do....                      | 119,375                  | 15,776                | 31,451                               | 8,200                                     | 89,092                         |
| Expenditures for plant and equipment, total.....do....         | 69,086                   | 13,698                | 12,415                               | 6,551                                     | 73,785                         |
| New, total.....do....  | 66,507                   | 12,382                | 10,955                               | 6,340                                     | 70,959                         |
| New structures and additions to plant.....do....               | 7,997                    | 3,085                 | 1,958                                | 3,696                                     | 15,420                         |
| New machinery and equipment.....do....                         | 58,510                   | 9,297                 | 8,997                                | 2,644                                     | 55,539                         |
| Used plant and equipment.....do....                            | 2,579                    | 1,316                 | 1,460                                | 211                                       | 2,826                          |
| Selected operating ratios:                                     |                          |                       |                                      |   |                                |
| Payroll/Total employment.....                                  | 7,081                    | 5,430                 | 5,617                                | 5,721                                     | 6,004                          |
| Production workers/Total employment.....                       | .87                      | .80                   | .78                                  | .74                                       | .80                            |
| Man-hours/Production workers.....                              | 2,111                    | 2,036                 | 1,988                                | 2,049                                     | 2,073                          |
| Production worker wages/Man-hours.....                         | 3.20                     | 2.27                  | 2.58                                 | 2.54                                      | 2.63                           |
| Cost of materials and payrolls/Total value of shipments....    | .79                      | .48                   | .68                                  | .66                                       | .71                            |
| Cost of materials/Total value of shipments.....                | .61                      | .26                   | .37                                  | .38                                       | .41                            |
| Adjusted value added/Total employment.....                     | 15,598                   | 18,079                | 11,571                               | 12,882                                    | 12,068                         |
| Salaries and wages/Adjusted value added.....                   | .45                      | .30                   | .49                                  | .44                                       | .50                            |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item                                    | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3411.—METAL CANS               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..             | 270                   | 22                                 | 16               | 26                 | 46                 | 47                 | 44                   | 39                   | 24                   | 6                        | -                        |
| All employees:                          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                        | 53,245                | 26                                 | 116              | 381                | 1,519              | 3,400              | 6,857                | <u>31,776</u>        | (D)                  | 9,170                    | -                        |
| Payroll.....\$1,000..                   | 377,031               | 133                                | 672              | 2,314              | 9,013              | 21,874             | 45,619               | <u>230,105</u>       | (D)                  | 67,301                   | -                        |
| Value added, adjusted.....do....        | 830,515               | 272                                | 3,254            | 8,004              | 31,539             | 72,408             | 137,995              | <u>470,174</u>       | (D)                  | 106,869                  | -                        |
| Value of shipments.....do....           | 2,075,014             | 780                                | 7,039            | 22,637             | 87,384             | 202,277            | 359,604              | <u>1,129,649</u>     | (D)                  | 265,644                  | -                        |
| Capital expenditures, new...do....      | 66,507                | <u>14,324</u>                      | 240              | 1,118              | 2,332              | 4,635              | 12,470               | <u>31,353</u>        | (D)                  | 10,035                   | -                        |
| INDUSTRY 3421.—CUTLERY                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..             | 161                   | 44                                 | 21               | 29                 | 23                 | 17                 | 18                   | 4                    | 4                    | 1                        | -                        |
| All employees:                          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                        | 11,837                | 65                                 | 132              | 378                | 710                | 1,246              | 2,882                | 1,521                | 4,903                | (D)                      | -                        |
| Payroll.....\$1,000..                   | 64,281                | 258                                | 712              | 1,769              | 3,399              | 5,327              | 14,283               | 7,274                | <u>31,259</u>        | (D)                      | -                        |
| Value added, adjusted.....do....        | 213,998               | 791                                | 1,234            | 3,311              | 5,494              | 8,917              | 24,116               | 15,056               | <u>155,079</u>       | (D)                      | -                        |
| Value of shipments.....do....           | 283,352               | 1,215                              | 1,757            | 5,612              | 9,287              | 14,083             | 36,617               | 23,121               | <u>191,660</u>       | (D)                      | -                        |
| Capital expenditures, new...do....      | 12,382                | 13                                 | 52               | 56                 | 178                | 256                | 447                  | 841                  | <u>10,539</u>        | (D)                      | -                        |
| INDUSTRY 3423.—HAND AND EDGE TOOLS      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..             | 716                   | 279                                | 102              | 80                 | 123                | 54                 | 49                   | 18                   | 10                   | 1                        | -                        |
| All employees:                          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                        | 31,480                | 514                                | 690              | 1,082              | 3,770              | 3,705              | 7,649                | 5,904                | 8,166                | (D)                      | -                        |
| Payroll.....\$1,000..                   | 176,837               | 2,163                              | 3,329            | 5,558              | 18,992             | 20,138             | 42,440               | 35,614               | <u>48,603</u>        | (D)                      | -                        |
| Value added, adjusted.....do....        | 364,265               | 5,142                              | 6,480            | 11,330             | 34,598             | 41,719             | 85,758               | 83,338               | <u>95,900</u>        | (D)                      | -                        |
| Value of shipments.....do....           | 565,590               | 8,530                              | 10,799           | 17,776             | 55,880             | 60,963             | 136,479              | 132,891              | <u>142,272</u>       | (D)                      | -                        |
| Capital expenditures, new...do....      | 10,955                | 205                                | 160              | 278                | 1,347              | 1,211              | 3,197                | 1,989                | <u>2,568</u>         | (D)                      | -                        |
| INDUSTRY 3425.—HAND SAWS AND SAW BLADES |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..             | 76                    | 11                                 | 12               | 11                 | 20                 | 10                 | 7                    | 3                    | 2                    | -                        | -                        |
| All employees:                          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                        | 5,095                 | <u>108</u>                         | (D)              | 148                | 615                | 656                | 1,196                | 2,372                | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                   | 29,148                | <u>652</u>                         | (D)              | 665                | 3,420              | 3,488              | 7,879                | <u>13,044</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....        | 65,634                | <u>988</u>                         | (D)              | 1,143              | 7,180              | 6,793              | 17,453               | <u>32,077</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....           | 102,782               | <u>1,759</u>                       | (D)              | 1,780              | 10,554             | 9,600              | 27,476               | <u>51,613</u>        | (D)                  | -                        | -                        |
| Capital expenditures, new...do....      | 6,340                 | <u>5,195</u>                       | (D)              | (D)                | (D)                | (D)                | 640                  | <u>505</u>           | (D)                  | -                        | -                        |
| INDUSTRY 3429.—HARDWARE, N.E.C.         |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..             | 1,069                 | 322                                | 140              | 161                | 179                | 104                | 94                   | 41                   | 13                   | 11                       | 4                        |
| All employees:                          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                        | 88,142                | 471                                | 962              | 2,128              | 5,754              | 7,270              | 15,097               | 13,716               | 8,778                | 33,966                   | (D)                      |
| Payroll.....\$1,000..                   | 529,217               | 2,145                              | 4,612            | 11,079             | 29,653             | 37,288             | 79,745               | 75,596               | 51,511               | <u>237,588</u>           | (D)                      |
| Value added, adjusted.....do....        | 1,063,661             | 5,122                              | 9,374            | 20,760             | 57,130             | 73,623             | 158,272              | 136,472              | 102,182              | <u>500,726</u>           | (D)                      |
| Value of shipments.....do....           | 1,785,134             | 10,198                             | 18,373           | 39,126             | 107,796            | 136,103            | 285,869              | 244,082              | 150,493              | <u>793,094</u>           | (D)                      |
| Capital expenditures, new...do....      | 70,959                | <u>2,242</u>                       | 560              | 997                | 2,639              | 3,814              | 5,584                | 5,915                | 6,370                | <u>42,838</u>            | (D)                      |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left. n.e.c. Not elsewhere classified.

<sup>1</sup>Includes capital expenditures for plants under construction but not in operation of approximately \$2-\$5 million.<sup>2</sup>Includes capital expenditures for plants under construction but not in operation of approximately \$1-\$2 million.



TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year            | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|-------------------------------------|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |                                     | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |                                     | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |                                     | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3411      | Metal cans.....1963..               | 2,075,014          | 1,960,089        | 62,903             | 52,022                 | 97                                   | 2,002,211                          | 1,960,089             | 42,122                   | 98                            |
|           |                                     | 1958 <sup>1</sup>  | 1,824,106        | 1,747,407          | 34,810                 | 41,889                               | 98                                 | 1,762,346             | 1,747,407                | 14,939                        |
| 3421      | Cutlery.....1963..                  | 283,352            | 246,217          | 29,660             | 7,475                  | 89                                   | 254,321                            | 246,217               | 8,104                    | 97                            |
|           |                                     | 1958..             | 179,271          | 158,890            | 12,217                 | 8,164                                | 93                                 | 162,177               | 158,890                  | 3,287                         |
| 3423      | Hand and edge tools.....1963..      | 565,590            | 444,926          | 69,429             | 51,235                 | 87                                   | 536,090                            | 444,926               | 91,164                   | 84                            |
|           |                                     | 1958..             | 440,150          | 367,822            | 35,562                 | 36,766                               | 91                                 | 434,202               | 367,822                  | 66,380                        |
| 3425      | Hand saws and saw blades.....1963.. | 102,782            | 72,103           | 20,006             | 10,673                 | 78                                   | 85,000                             | 72,103                | 12,897                   | 85                            |
|           |                                     | 1958..             | 87,626           | 67,789             | 14,926                 | 4,911                                | 82                                 | 75,629                | 67,789                   | 7,840                         |
| 3429      | Hardware, n.e.c.....1963..          | 1,785,134          | 1,552,991        | 158,196            | 73,947                 | 91                                   | 1,663,119                          | 1,552,991             | 110,128                  | 93                            |
|           |                                     | 1958..             | 1,347,879        | 1,144,281          | 142,581                | 61,017                               | 89                                 | 1,224,108             | 1,144,281                | 79,827                        |

NOTE: See Introduction for an explanation of terms used.

n.e.c. Not elsewhere classified.

<sup>1</sup>Data for Alaska and Hawaii are excluded.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars except for ranges (shown in parentheses) which are expressed in millions of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous

receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code    | Class of products and miscellaneous receipts  | All industries | Metal cans (SIC 3411) | Other industries | Prod. class code           | Class of products and miscellaneous receipts  | All industries | Cutlery (SIC 3421)             | Other industries |
|---------------------|---|----------------|-----------------------|------------------|----------------------------|---|----------------|--------------------------------|------------------|
| METAL CANS INDUSTRY |   |                |                       |                  | CUTLERY INDUSTRY—Continued |   |                |                                |                  |
|                     | Total shipments and receipts of the industry.....   | (X)            | 2,075,014             | (X)              |                            | Miscellaneous receipts.....   | (X)            | 7,475                          | (X)              |
| 34110               | Metal cans.....   | 2,002,211      | 1,960,089             | 42,122           |                            | Receipts for contract work.....   | (X)            | 724                            | (X)              |
|                     | Secondary products.....   | (X)            | 62,903                | (X)              |                            | Sales of products bought and resold   | (X)            | 5,290                          | (X)              |
| 26510               | Folding paperboard boxes and cartons (except ice cream, butter, margarine, frozen food, etc.).....                | (X)            | (2-5)                 | (X)              | 34211                      | Other miscellaneous receipts.....   | (X)            | 1,461                          | (X)              |
| 26552               | Fiber cans, tubes, and other fiber products.....  | (X)            | (over 2)              | (X)              |                            | Listing of other industries with over \$2 million shipments of each primary product class:  |                |                                |                  |
| 34615               | Stamped and spun commercial and hospital utensils and cooking and kitchen household utensils except aluminum..... | (X)            | (2-5)                 | (X)              |                            | 3423 Hand and edge tools.....   | (X)            | (X)                            | 3,939            |
| 34617               | Crowns.....   | (X)            | (5-10)                | (X)              |                            |   | All industries | Hand and edge tools (SIC 3423) | Other industries |
| 34911               | Steel shipping pails (1 to 12 gallon capacity).....   | (X)            | 11,753                | (X)              |                            | HAND AND EDGE TOOLS INDUSTRY  |                |                                |                  |
|                     | Miscellaneous receipts.....   | (X)            | 52,022                | (X)              |                            | Total shipments and receipts of the industry.....   | (X)            | 565,590                        | (X)              |
|                     | Sales of products bought and resold.....  | (X)            | 40,598                | (X)              | 34231                      | Primary products.....   | 536,090        | 444,926                        | 91,164           |
|                     | Scrap and salable refuse.....   | (X)            | 8,825                 | (X)              | 34232                      | Mechanics' hand service tools.....  | 252,390        | 211,513                        | 40,877           |
|                     | Other miscellaneous receipts.....   | (X)            | 2,599                 | (X)              | 34233                      | Edge tools.....   | 106,258        | 76,142                         | 31,547           |
|                     | Listing of other industries with over \$2 million shipments of the primary product class:                         |                |                       |                  | 34230                      | Files, rasps, and file accessories and other hand tools.....                                | 154,595        | 136,243                        | 18,352           |
| 34110               | 2023 Condensed and evaporated milk.....   | (X)            | (X)                   | (2-5)            |                            | Hand and edge tools, n.s.k.....   | 21,416         | 21,028                         | 388              |
|                     | 2851 Paints and allied products.....  | (X)            | (X)                   | (5-10)           |                            | Secondary products.....   | (X)            | 69,429                         | (X)              |
|                     | 3269 Pottery products, n.e.c.....   | (X)            | (X)                   | (2-5)            | 33911                      | Drop, upset and press steel forgings (closed die).....                                      | (X)            | (5-10)                         | (X)              |
|                     | 3491 Metal barrels, drums and pails.....  | (X)            | (X)                   | 6,643            | 34211                      | Cutlery, scissors, shears, trimmers, and snips.....   | (X)            | 3,939                          | (X)              |
|                     |   |                |                       |                  | 34250                      | Hand saws, saw blades, and saw accessories.....   | (X)            | 5,963                          | (X)              |
|                     |   |                |                       |                  | 34990                      | Fabricated metal products, n.e.c.....   | (X)            | 2,075                          | (X)              |
|                     |   |                |                       |                  | 35361                      | Hoists.....   | (X)            | (2-5)                          | (X)              |
|                     |   |                |                       |                  | 35419                      | Parts for metal cutting type machine tools, sold separately, and rebuilt machine tools..... | (X)            | (2-5)                          | (X)              |
|                     |   |                |                       |                  | 35451                      | Small cutting tools for machine tools and metalworking machinery..                          | (X)            | (5-10)                         | (X)              |
|                     |   |                |                       |                  | 35453                      | Other attachments and accessories for machine tools and metalworking machinery.....         | (X)            | 2,684                          | (X)              |
|                     |   |                |                       |                  |                            | Miscellaneous receipts.....   | (X)            | 51,235                         | (X)              |
|                     |   |                |                       |                  |                            | Contract work.....  | (X)            | 3,258                          | (X)              |
|                     |   |                |                       |                  |                            | Sales of products bought and resold   | (X)            | 45,341                         | (X)              |
|                     |   |                |                       |                  |                            | Sale of scrap.....  | (X)            | 1,095                          | (X)              |
|                     |   |                |                       |                  |                            | Other miscellaneous receipts.....   | (X)            | 1,541                          | (X)              |
|                     |   |                |                       |                  |                            | Listing of other industries with over \$2 million shipments of each primary product class:  |                |                                |                  |
| 34211               | Cutlery, scissors, shears, trimmers, and snips.....   | 90,484         | 246,217               | 8,104            | 34231                      | 3322 Malleable iron foundries.....  | (X)            | (X)                            | (5-10)           |
| 34212               | Razor blades and razors, except electric.....   | 159,423        |                       |                  | 3429 Hardware, n.e.c.....  | (X)   | (X)            | 4,155                          |                  |
| 34210               | Cutlery, n.s.k.....   | 4,414          |                       |                  | 3461 Metal stampings.....  | (X)   | (X)            | (2-5)                          |                  |
|                     | Secondary products.....   | (X)            | 29,660                | (X)              |                            | 3541 Metal cutting machine tools..  | (X)            | (X)                            | (5-10)           |
| 28441               | Shaving preparations.....   | (X)            | (10-20)               | (X)              |                            | 3545 Machine tool accessories.....  | (X)            | (X)                            | (2-5)            |
| 28445               | Other cosmetics and toilet preparations.....  | (X)            | (5-10)                | (X)              |                            | 3548 Metalworking machinery, n.e.c.   | (X)            | (X)                            | (2-5)            |
| 34233               | Files, rasps, and file accessories and other hand tools   | (X)            | 2,722                 | (X)              | 34232                      | 3644 Noncurrent carrying devices..  | (X)            | (X)                            | (2-5)            |
| 34294               | Builders' hardware.....   | (X)            | (2-5)                 | (X)              |                            | 3425 Hand saws and saw blades.....  | (X)            | (X)                            | (5-10)           |
| 39142               | Flatware.....   | (X)            | (2-5)                 | (X)              |                            | 3461 Metal stampings.....   | (X)            | (X)                            | (2-5)            |
|                     |   |                |                       |                  | 34233                      | 3542 Metal forming machine tools..  | (X)            | (X)                            | (2-5)            |
|                     |   |                |                       |                  |                            | 3421 Cutlery.....   | (X)            | (X)                            | 2,722            |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code | Class of products and miscellaneous receipts  | All industries    | Hand saws and saw blades (SIC 3425) | Other industries  | Prod. class code                 | Class of products and miscellaneous receipts  | All industries  | Hardware, n.e.c. (SIC 3429)                                 | Other industries   |
|------------------|---|-------------------|-------------------------------------|-------------------|----------------------------------|---|---|---|--|
|                  | HAND SAWS AND SAW BLADES INDUSTRY   |                   |                                     |                   |                                  | HARDWARE, N.E.C., INDUSTRY—Con.   |   |   |  |
|                  | Total shipments and receipts of the industry.....   | (X)               | 102,782                             | (X)               | 30798                            | Secondary products.....   | (X)   | 158,196   | (X)  |
| 34250            | Hand saws, saw blades and saw accessories.....  | 85,000            | 72,103                              | 12,897            | 34231<br>34320                   | Consumer and commercial plastics products, n.e.c.....   | (X)   | (2-5)   | (X)  |
|                  | Secondary products.....   | (X)               | 20,006                              | (X)               | 34612<br>34813<br>34990<br>35441 | Mechanics' hand service tools...<br>Plumbing fixture fittings and trim (brass goods).....<br>Job stampings, except automotive.<br>Other wire springs.....   | (X)<br>(X)<br>(X)<br>(X)                                    | 4,155<br>2,499<br>7,921<br>(20-50)                          | (X)<br>(X)<br>(X)<br>(X)   |
| 34232<br>34990   | Edge tools.....<br>Fabricated metal products, n.e.c.  | (X)<br>(X)        | (5-10)<br>(2-5)                     | (X)<br>(X)        | 37423                            | Fabricated metal products, n.e.c.<br>Special dies and tools, die sets, jigs and fixtures.....<br>Street cars, parts and accessories for railroad and street cars; rebuilt passenger and freight train cars.....   | (X)<br>(X)<br>(X)   | (20-50)<br>(20-50)<br>(2-5)                                 | (X)<br>(X)<br>(X)  |
|                  | Miscellaneous receipts.....   | (X)               | 10,673                              | (X)               |                                  | Miscellaneous receipts.....   | (X)   | 73,947  | (X)  |
|                  | Contract and commission work....<br>Sales of products bought and resold.....<br>Other miscellaneous receipts.....   | (X)<br>(X)<br>(X) | 822<br>5,029<br>4,822               | (X)<br>(X)<br>(X) |                                  | Contract and commission work....<br>Sales of products bought and resold.....<br>Scrap.....<br>Other miscellaneous receipts.....   | (X)<br>(X)<br>(X)<br>(X)                                    | 7,829<br>53,337<br>8,762<br>4,019                           | (X)<br>(X)<br>(X)<br>(X)   |
| 3425             | Listing of other industries with over \$2 million shipments of each primary product class:<br>3423 Hand and edge tools.....<br>3545 Machine tool accessories... | (X)<br>(X)        | (X)<br>(X)                          | 5,963<br>(2-5)    | 34291                            | Listing of other industries with over \$2 million shipments of each primary product class:<br>3461 Metal stampings.....<br>3717 Motor vehicles and parts...   | (X)<br>(X)  | (X)<br>(X)  | 4,671<br>3,242   |
|                  |   | All industries    | Hardware, n.e.c. (SIC 3429)         | Other industries  | 34293                            | 3422 Heating equipment, except electric.....<br>3634 Electric housewares and fans   | (X)<br>(X)  | (X)<br>(X)  | (2-5)<br>(5-10)  |
|                  |   |                   |                                     |                   | 34294                            | 2421 Millwork plants.....<br>3421 Cutlery.....<br>3442 Metal doors, sash, and trim<br>3461 Metal stampings.....   | (X)<br>(X)<br>(X)<br>(X)                                    | (X)<br>(X)<br>(X)<br>(X)                                    | (5-10)<br>2,899<br>(2-5)<br>2,762  |
|                  | HARDWARE, N.E.C., INDUSTRY  |                   |                                     |                   | 34295                            | 1961 Small arms ammunition.....<br>3442 Plumbing fixtures, brass goods.....<br>3452 Bolts, nuts, rivets, and washers.....<br>3461 Metal stampings.....<br>3494 Valves and pipe fittings...<br>3525 Conveyors.....<br>3527 Industrial trucks and tractors.....<br>3569 General industry machines, n.e.c.....<br>3821 Mechanical measuring devices<br>3964 Needles, pins, and fasteners | (X)<br>(X)<br>(X)<br>(X)<br>(X)<br>(X)<br>(X)<br>(X)<br>(X) | (X)<br>(X)<br>(X)<br>(X)<br>(X)<br>(X)<br>(X)<br>(X)<br>(X) | 3,072<br>(2-5)<br>3,079<br>(2-5)<br>5,380<br>4,062<br>(2-5)<br>5,841<br>2,238<br>(2-5) |
|                  | Total shipments and receipts of the industry.....   | (X)               | 1,785,134                           | (X)               |                                  |   |   |   |  |
|                  | Primary products.....   | 1,663,119         | 1,552,991                           | 110,128           |                                  |   |   |   |  |
| 34291            | Transportation equipment hardware   | 778,514           | 758,127                             | 20,387            |                                  |   |   |   |  |
| 34292            | Furniture hardware.....   | 95,334            | 89,742                              | 5,592             |                                  |   |   |   |  |
| 34293            | Vacuum and insulated bottles, jugs, and chests.....   | 47,973            | 36,411                              | 11,562            |                                  |   |   |   |  |
| 34294            | Builders' hardware.....   | 465,795           | 442,709                             | 23,086            |                                  |   |   |   |  |
| 34295            | Other hardware.....   | 237,425           | 188,510                             | 48,915            |                                  |   |   |   |  |
| 34290            | Hardware, n.e.c., n.s.k.....  | 38,078            | 37,492                              | 586               |                                  |   |   |   |  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Total shipments including interplant transfers    |                 |   |                        |
|--------------|---|---|-----------------|---|------------------------|
|              |   | 1963  |                 | 1958  |                        |
|              |   | Quantity (1,000 base boxes of metal) <sup>1</sup> | Value (\$1,000) | Quantity (1,000 base boxes of metal) <sup>1</sup> | Value (\$1,000)        |
| 3411- --     | METAL CANS, TOTAL.....  | (X)   | 2,002,211       | (X)   | <sup>2</sup> 1,762,346 |
|              | Metal cans <sup>3</sup> :   |   |                 |   |                        |
|              | Steel (tinplate):   |   |                 |   |                        |
| 34110 01     | As reported in the census of manufactures.....  | <sup>4</sup> 109,151                              | 1,932,868       | <sup>2</sup> 103,579                              | <sup>2</sup> 1,754,984 |
|              | As reported on Monthly Form M34D.....   | 108,593   | (NA)            | <sup>4</sup> 103,849                              | (NA)                   |
|              | Aluminum:   |   |                 |   |                        |
| 34110 02     | Reported in census of manufactures.....   | 2,389   | 55,051          | (NA)  | (NA)                   |
|              | Reported on Monthly Form M34D.....  | <sup>5</sup> 2,356                                | (NA)            | (NA)  | (NA)                   |
|              | Detail data by type of can from Monthly Survey M34D:  |   |                 |   |                        |
| 34110 24     | Fruit and fruit juices (including cans for fruit base, still drinks sold as soft drinks.....    | 15,474  | (NA)            | } 33,379  | (NA)                   |
| 34110 25     | Vegetable and vegetable juice.....  | 18,306  | (NA)            |   |                        |
| 34110 26     | Evaporated and condensed milk.....  | 4,161   | (NA)            | 5,175   | (NA)                   |
| 34110 28     | Other dairy products.....   | 595   | (NA)            | 728   | (NA)                   |
| 34110 32     | Meat, including poultry.....  | 3,654   | (NA)            | 2,950   | (NA)                   |
| 34110 34     | Fish and seafood.....   | 2,875   | (NA)            | 2,843   | (NA)                   |
| 34110 36     | Coffee.....   | 4,748   | (NA)            | 4,452   | (NA)                   |
| 34110 38     | Lard and shortening.....  | 2,034   | (NA)            | 2,383   | (NA)                   |
| 34110 42     | Soft drinks.....  | 4,116   | (NA)            | 810   | (NA)                   |
| 34110 44     | Beer.....   | 19,580  | (NA)            | 16,902  | (NA)                   |
| 34110 46     | Baby food, including formulas.....  | 701   | (NA)            | } 11,363  | (NA)                   |
| 34110 48     | All other foods (including soups).....  | 12,182  | (NA)            |   |                        |
| 34110 52     | Pet foods.....  | 4,625   | (NA)            | 4,155   | (NA)                   |
| 34110 56     | Oil (open top up through 5-quart).....  | 3,995   | (NA)            | 6,337   | (NA)                   |
| 34110 54     | Paint and varnish products (including painter's supplies).....                                  | 3,689   | (NA)            | } 12,372  | (NA)                   |
| 34110 64     | Anti-freeze.....  | 1,057   | (NA)            |   |                        |
| 34110 66     | Pressure packing (valvetype).....   | 2,501   | (NA)            |   |                        |
| 34110 68     | All other nonfoods.....   | 6,656   | (NA)            |   |                        |
| 34110 91     | Tinware end products (including ice cream cans but excluding cooking and kitchen utensils)..... | (X)   | 9,045           | (X)   | 3,914                  |
| 34110 00     | Metal cans, n.s.k.....  | (X)   | 5,247           | (X)   | 3,448                  |

| Product code | Product  | Value of shipments including interplant transfers (\$1,000) |                     |
|--------------|--|---|---------------------|
|              |  | 1963  | 1958                |
| 3421- --     | CUTLERY, TOTAL.....  | 254,321   | 162,177             |
| 34211 --     | Cutlery, scissors, shears, trimmers, and snips.....  | 90,484  | 77,326              |
| 34211 11     | Table cutlery (consists of knives, forks, spoons, etc. for the serving and eating of food, with handles of materials other than metal). Carving sets with handles of materials other than metal are to be included with "table cutlery" rather than "kitchen cutlery"..... | 6,014   | 5,353               |
| 34211 21     | Kitchen cutlery.....   | 15,918  | 16,579              |
| 34211 31     | Butchers and meatpacking cutlery.....  | 4,754   | 2,919               |
| 34211 41     | Pocket knives, and other folding blade knives.....   | <sup>6</sup> 14,216   | <sup>7</sup> 12,436 |
| 34211 53     | Scissors and shears, including household types, barber shears, pinking and tailoring shears, etc. but excluding manicure, pedicure, surgical, and the types reported below for "All other scissors and shears".....  | 13,826  | 12,304              |
| 34211 55     | All other scissors and shears, including hedge and grass shears and pruners (except electric) aviation and tinnerns snips, BX and wire filament cutters, etc.....  | 16,379  | 9,041               |
| 34211 61     | Manicure and pedicure scissors and implements.....   | 8,109   | 6,106               |
| 34211 98     | Other cutlery.....   | 9,887   | 8,686               |
| 34211 00     | Cutlery, scissors, shears, trimmers and snips, n.s.k.....  | 1,381   | 3,894               |
| 34212 --     | Razor blades and razors, except electric.....  | 159,423   | 80,713              |
| 34212 11     | Safety razors.....   | } 159,423   | 80,713              |
| 34212 51     | Razor blades.....  |   |                     |
| 34210 00     | Cutlery, n.s.k.....  | 4,414   | 4,138               |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                 |          |                 |
|--------------|---|-----------------|--|-----------------|----------|-----------------|
|              |   |                 | 1963   |                 | 1958     |                 |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 3423- --     | HAND AND EDGE TOOLS, TOTAL.....   |                 | (X)  | 536,090         | (X)      | 434,202         |
| 34231 --     | Mechanics' hand service tools.....  |                 | (X)  | 252,390         | (X)      | 188,460         |
| 34231 11     | Pliers.....   | 1,000 units...  | 17,307   | 23,262          | 14,683   | 17,818          |
| 34231 21     | Ball peen hammers.....  | ..do.....       | 1,938  | 2,849           | 1,415    | 2,008           |
|              | Wrenches:   |                 |  |                 |          |                 |
| 34231 33     | Socket.....   | ..do.....       | 55,154   | 32,586          | 37,808   | 22,146          |
| 34231 35     | Flat (open-end, box-end and combination open-end and box).....  | ..do.....       | 28,601   | 21,321          | 26,175   | 16,931          |
| 34231 37     | Adjustable.....   | ..do.....       | 9,415  | 18,058          | 8,464    | 17,611          |
| 34231 39     | All other.....  | ..do.....       | 31,281   | 20,782          | 11,794   | 9,962           |
| 34231 41     | Screw drivers.....  | ..do.....       | 52,822   | 21,005          | 37,356   | 15,947          |
| 34231 51     | Automobile jacks, mechanical (exclude hydraulic and pneumatic).....   | ..do.....       | 10,420   | 17,886          | (X)      | 73,261          |
| 34231 98     | Other mechanics' hand service tools.....  |                 | (X)  | 84,653          | (X)      | 12,776          |
| 34231 00     | Mechanics' hand service tools, n.s.k.....   |                 | (X)  | 9,988           | (X)      | 12,776          |
| 34232 --     | Edge tools hand operated.....   |                 | (X)  | 106,258         | (X)      | 90,614          |
| 34232 11     | Agricultural edged hand tools, except scissors and shears (scythes, sickles, grass hooks, machetes, hay knives, and similar tools).....   |                 | (X)  | 3,110           | (X)      | 2,647           |
| 34232 31     | Axes, adzes, and hatchets.....  |                 | (X)  | 6,429           | (X)      | 7,737           |
| 34232 51     | Cutting dies, for use in cutting cloth, paper, leather, etc., excluding dies for cutting metal.....   |                 | (X)  | 20,283          | (X)      | 14,454          |
| 34232 55     | Machine knives, except metal cutting.....   |                 | (X)  | 13,539          | (X)      | 10,362          |
| 34232 61     | Can openers (except electric).....  |                 | (NA)   | 6,647           | (NA)     | 11,833          |
| 34232 71     | Auger bits.....   | 1,000 units...  | 4,598  | 4,587           | 4,950    | 4,725           |
| 34232 83     | Chisels.....  | ..do.....       | 7,553  | 5,837           | (NA)     | 4,634           |
| 34232 81     | Planes.....   |                 | (X)  | 43,514          | (X)      | 2,621           |
| 34232 98     | Other edge tools.....   |                 | (X)  | 2,312           | (X)      | 6,884           |
| 34232 00     | Edge tools, n.s.k.....  |                 | (X)  | 2,312           | (X)      | 6,884           |
| 34233 --     | Files, rasps, and file accessories and other hand tools.....  |                 | (X)  | 156,026         | (X)      | 142,017         |
| 34233 11     | Shovels, spades, scoops, telegraph spoons, and scrapers.....  |                 | (X)  | 22,430          | (X)      | 18,839          |
| 34233 21     | Light forged hammers, under 4 pounds, excluding ball peen hammers.....  |                 | (X)  | 8,819           | (X)      | 7,778           |
| 34233 31     | Heavy forged tools (sledges, 4 pounds and over, picks, pick mattocks, and mauls).....   |                 | (X)  | 4,309           | (X)      | 3,464           |
| 34233 41     | Steel goods (forks, hoes, rakes, weeders, etc.).....  |                 | (X)  | 20,343          | (X)      | 19,433          |
| 34233 61     | Metalworking files and rasps, including precision files.....  | 1,000 units...  | 62,760   | 25,141          | 65,411   | 26,722          |
| 34233 71     | Woodworking files and rasps.....  | ..do.....       | (NA)   | 870             | 2,791    | 1,262           |
| 34233 81     | Soldering irons (electric).....   | ..do.....       | 2,034  | 9,784           | 2,732    | 9,036           |
| 34233 98     | Other hand tools, except edge tools.....  |                 | (X)  | 60,645          | (X)      | 48,092          |
| 34233 00     | Files, rasps, and file accessories and other hand tools, n.s.k.....   |                 | (X)  | 3,685           | (X)      | 7,391           |
| 34230 00     | Hand and edge tools, except machine tools and hand saws, n.e.c.....   |                 | (X)  | 21,416          | (X)      | 13,111          |
| 3425- --     | HAND SAWS AND SAW BLADES, TOTAL.....  |                 | (X)  | 85,000          | (X)      | 75,629          |
|              | Power saw blades:   |                 |  |                 |          |                 |
|              | Woodworking:  |                 |  |                 |          |                 |
|              | Circular:   |                 |  |                 |          |                 |
| 34250 11     | Solid tooth <sup>8</sup> .....  |                 | (NA)   | 10,103          | (NA)     | 8,639           |
| 34250 13     | Inserted tooth.....   |                 | (NA)   | 3,096           | (NA)     | 6,059           |
|              | Band:   |                 |  |                 |          |                 |
| 34250 15     | Under 2 inches.....   | 1,000 ft.....   | 13,901   | 3,374           | 13,430   | 2,392           |
| 34250 17     | 2 inches and over.....  | ..do.....       | 743  | 3,655           | 565      | 3,098           |
| 34250 19     | All other woodworking power saw blades.....   |                 | (NA)   | 2,669           | (NA)     | 2,947           |
|              | Metalworking:   |                 |  |                 |          |                 |
| 34250 31     | Circular.....   |                 | (NA)   | 4,315           | (NA)     | 3,656           |
| 34250 35     | Hack (power only).....  | 1,000 units...  | 4,773  | 6,921           | 2,758    | 4,862           |
| 34250 36     | Band (flexible back, spring temper metal cutting and high speed metal cutting).....   | 1,000 ft.....   | 119,664  | 22,838          | 112,472  | 15,969          |
| 34250 39     | Other metalworking saw blades (saber, reciprocating, etc.).....   |                 | (X)  | 1,427           | (X)      | (X)             |
|              | Hand operated saws:   |                 |  |                 |          |                 |
| 34250 43     | Hacksaw blades (hand only).....   | 1,000 units...  | 59,144   | 12,071          | 58,160   | 11,637          |
| 34250 45     | Carpenter crosscuts and rip saws.....   | ..do.....       | 703  | 1,519           | 1,518    | 3,916           |
| 34250 49     | Other handsaws (heavy handsaws, including crosscut and buck, miter, coping, pruning, compass, etc., including handsaw frames and handsaw blades sold together or handsaw blades sold separately)..... |                 | (X)  | 7,114           | (X)      | 5,855           |
| 34250 00     | Handsaws, saw blades and accessories, n.s.k.....  |                 | (X)  | 5,898           | (X)      | 6,599           |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Value of shipments including interplant transfers (\$1,000) |                      |
|--------------|---|---|----------------------|
|              |   | 1963  | 1958                 |
| 3429- --     | HARDWARE, N.E.C., TOTAL.....  | 1,663,119   | 1,224,108            |
| 34291 --     | Transportation equipment hardware.....  | 778,514   | 472,157              |
| 34291 11     | Marine hardware, including shackles, rope sockets, tackle blocks, wire rope, clips, clamps, and joiner's hardware.....                                  | 34,884  | 33,104               |
| 34291 31     | Aircraft hardware.....  | 35,839  | 33,274               |
| 34291 51     | Motor vehicle hardware, including lock units, door and window handles, window regulators, hinges, license plate brackets, instrument panel knobs, etc.: |   |                      |
| 34291 55     | Shipments to motor vehicle manufacturers (auto, truck, bus, trailer, etc.).....   | <sup>9</sup> 668,612  | <sup>9</sup> 359,478 |
| 34291 98     | Shipments to all other customers.....   | <sup>9</sup> 13,817   | <sup>9</sup> 11,088  |
| 34291 98     | Other transportation equipment hardware, including railroad car hardware.....   | 22,187  | 27,980               |
| 34291 00     | Transportation equipment hardware, n.s.k.....   | 3,175   | 7,233                |
| 34292 --     | Furniture hardware.....   | 95,334  | 77,409               |
| 34292 11     | Furniture hardware (exclude casters), including hardware for office and household furniture.....  | 61,929  | 51,434               |
| 34292 53     | Furniture casters.....  | 23,563  | 21,164               |
| 34292 55     | Other floor protective devices, including slides, glides, furniture rests, and desk leg cups.....   | 5,736   | 4,811                |
| 34292 00     | Furniture hardware, n.s.k.....  | 4,106   | 4,811                |
| 34293 --     | Vacuum and insulated bottles, jugs, and chests.....   | 47,973  | 41,147               |
| 34293 15     | Vacuum (air-evacuated) bottles, pitchers, servers, etc.....   | 33,167  | 22,928               |
| 34293 17     | Insulated (portable and other than air-evacuated) picnic jugs, picnic chests, coolers, etc. (except those made principally of plastics).....            | 14,806  | 18,219               |
| 34294 --     | Builders' hardware.....   | 465,795   | 387,083              |
| 34294 11     | Padlocks.....   | 22,732  | 19,771               |
| 34294 23     | Door locks, locksets, and lock trim.....  | 107,182   | 97,799               |
| 34294 25     | Night latches and deadlocks.....  | 9,326   |                      |
| 34294 27     | Emergency exit devices (antipanic) devices.....   | 10,057  |                      |
| 34294 31     | Miscellaneous sash, screen, and shelf hardware (window hardware, transom hardware, door pulls, and bolts, screendoor hardware, etc.).....               | 50,369  | 52,959               |
| 34294 41     | Door closers and checking devices, including floor types.....   | 41,081  | 30,239               |
| 34294 51     | Hinges and butts, excluding cabinet hinges, including spring hinges.....  | 40,882  | 38,583               |
| 34294 61     | Cabinet hardware, including cabinet hinges and cabinet locks.....   | 57,082  | 34,561               |
| 34294 71     | Hangers, tracks, and related items, including overhead door hardware (except sliding and folding door hardware, residential and commercial).....        | 37,485  | 52,864               |
| 34294 73     | Sliding and folding door hardware (residential and commercial).....   | 12,857  |                      |
| 34294 98     | Other builder's hardware.....   | 68,116  | 47,572               |
| 34294 00     | Builder's hardware, n.s.k.....  | 8,626   | 12,735               |
| 34295 --     | Other hardware.....   | 237,425   | 215,220              |
| 34295 12     | Casket and casket shell hardware.....   | 13,617  | 10,845               |
| 34295 22     | Casters and wheels, for dollies and industrial hand trucks.....   | 41,783  | 33,181               |
| 34295 32     | Trunk and luggage hardware, including locks.....  | 15,015  | 11,181               |
| 34295 52     | Fireplace fixtures and equipment, including dampers and irons, and fire screens.....  | 16,377  | 12,059               |
| 34295 62     | Hose fittings and couplings.....  | 63,120  | 54,396               |
| 34295 65     | Refrigerator and stove hardware.....  | 21,595  | 27,298               |
| 34295 98     | Other hardware, including saddlery and harness hardware, but excluding drapery hardware.....  | 61,504  | 53,572               |
| 34295 00     | Other hardware, n.s.k.....  | 4,414   | 12,688               |
| 34290 00     | Hardware, n.e.c., n.s.k.....  | 38,078  | 31,092               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>A base box is an area of 31,360 square inches, equivalent to 112 sheets, 14" x 20" in size.

<sup>2</sup>Data for Alaska and Hawaii are excluded.

<sup>3</sup>A metal can is defined as a single-walled container constructed wholly of tinplate, terneplate, blackplate, waste plate, aluminum sheet or impact extrusions (slugs) designed for packing products. This definition excludes steel pails, defined as single-walled shipping containers having capacities of 1-12 gallons inclusive that are cylindrically constructed of steel sheet of 29 gauge and heavier.

<sup>4</sup>The 1963 and 1958 figures represent, respectively, 4,621 and 4,762 thousand short tons of steel. The 1963 estimate is derived by use of the factor 23.5 base boxes per short ton of steel. The 1958 figure is derived by use of separate conversion factors for each type of can. These factors vary from 20.4 to 25.0 base boxes per short ton of steel depending on the type of can.

<sup>5</sup>Represents 43,321 short tons of aluminum.

<sup>6</sup>For 1963, represents shipments of 20,140 thousand units.

<sup>7</sup>For 1958, represents shipments of 15,872 thousand units valued at \$8,978 thousand; the remaining \$3,458 thousand had no quantity reported.

<sup>8</sup>Includes all types and sizes of solid-tooth circular saw blades for industrial and home workshop type circular saws as well as saw blades for portable power saws and for sawing attachments for portable hand tools.

<sup>9</sup>Includes only the value of motor vehicle hardware reported as such. It is likely that an indeterminate amount of motor vehicle hardware was reported as motor vehicle parts and classified accordingly in the Motor Vehicle and Parts Industry.



TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year                                  | Indexes (1954 = 100) |                  |
|--------------|---|----------------------|------------------|
|              |   | Production           | Unit value       |
| 341--        | Metal cans.....1963...                            | 123                  | 122              |
|              | .....1958...                                      | 113                  | 117              |
| 3411-        | Metal cans.....1963...                            | 123                  | 122              |
|              | .....1958...                                      | 113                  | 117              |
| 342--        | Cutlery, hand tools, hardware cutlery.....1963... | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | .....1958...                                      | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 3421-        | Cutlery.....1963...                               | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | .....1958...                                      | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 3423-        | Hand and edge tools.....1963...                   | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | .....1958...                                      | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 34231        | Mechanics' hand service tools.....1963...         | 139                  | 113              |
|              | .....1958...                                      | 96                   | 117              |
| 3425-        | Hand saws and saw blades.....1963...              | 89                   | 148              |
|              | .....1958...                                      | 88                   | 134              |
| 3429-        | Hardware, n.e.c.....1963...                       | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | .....1958...                                      | ( <sup>1</sup> )     | ( <sup>1</sup> ) |

n.e.c. Not elsewhere classified.

<sup>1</sup>Not shown because comparable quantity data were not obtained for a significant portion of these products.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class   | 1963      | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958                   | 1954                   | 1947                 |
|-------|---|-----------|-------------------|-------------------|-------------------|-------------------|------------------------|------------------------|----------------------|
| 34110 | Metal cans.....   | 2,002,211 | 2,056,211         | 2,012,649         | 1,868,601         | 1,886,862         | <sup>2</sup> 1,762,346 | <sup>2</sup> 1,331,967 | <sup>2</sup> 644,422 |
| 3421- | Cutlery.....  | 254,321   | 231,478           | 209,816           | 190,530           | 186,339           | 162,177                | 153,315                | 141,085              |
| 34211 | Cutlery, scissors, shears, trimmers and snips.....            | 90,484    | 83,013            | 74,884            | 72,823            | 81,705            | 77,326                 | 85,485                 | 81,104               |
| 34212 | Razor blades and razors, except electric.....                 | 159,423   | 145,481           | 131,956           | 114,762           | 100,668           | 80,713                 | 67,830                 | 59,981               |
| 34210 | Cutlery, n.s.k.....   | 4,414     | (2,984)           | (2,976)           | (2,945)           | (3,966)           | 4,138                  | -                      | -                    |
| 3423- | Hand and edge tools, except machine tools, and hand saws..... | 536,090   | 545,331           | 513,983           | 484,147           | 501,068           | 434,202                | 370,461                | 348,701              |
| 34231 | Mechanics' hand service tools.....                            | 252,390   | 237,993           | 221,387           | 210,180           | 213,283           | 188,460                | 168,800                | 130,450              |
| 34232 | Edge tools.....   | 106,258   | 122,246           | 117,876           | 112,195           | 110,923           | 90,614                 | 73,686                 | 63,749               |
| 34233 | Files, rasps, and file accessories and other hand tools.....  | 156,026   | 176,255           | 165,724           | 153,599           | 163,110           | 142,017                | 120,060                | 142,153              |
| 34230 | Hand and edge tools, n.s.k.....                               | 21,416    | (8,837)           | (8,996)           | (8,173)           | (13,752)          | 13,111                 | 7,915                  | 12,349               |
| 34250 | Hand saws, saw blades, and saw accessories...                 | 85,000    | 86,644            | 86,622            | 84,162            | 89,593            | 75,629                 | 64,540                 | 62,089               |
| 3429- | Hardware, n.e.c.....  | 1,663,119 | 1,511,586         | 1,328,952         | 1,391,515         | 1,369,797         | 1,224,108              | 1,053,650              | 564,588              |
| 34291 | Transportation equipment hardware.....                        | 778,514   | 622,480           | 502,068           | 583,470           | 532,912           | 472,157                | 441,014                | 203,281              |
| 34292 | Furniture hardware.....                                       | 95,334    | 92,539            | 87,279            | 85,688            | 94,492            | 77,409                 | 60,189                 | 39,134               |
| 34293 | Vacuum and insulated bottles, jugs and chests.....            | 47,973    | 47,974            | 45,873            | 52,969            | 48,679            | 41,147                 | 27,916                 | 17,779               |
| 34294 | Builders' hardware.....                                       | 465,795   | 463,635           | 430,065           | 403,523           | 418,444           | 387,083                | 323,518                | 184,435              |
| 34295 | Other hardware.....   | 237,425   | 257,143           | 239,012           | 238,054           | 244,792           | 215,220                | 191,281                | 109,222              |
| 34290 | Hardware, n.e.c., n.s.k.....                                  | 38,078    | (27,815)          | (24,655)          | (27,811)          | (30,478)          | 31,092                 | 9,732                  | 10,737               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Data for Alaska and Hawaii are excluded.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area                     | Value of shipments |         | Product class and geographic area                               | Value of shipments |         | Product class and geographic area    | Value of shipments |         |
|---|--------------------|---------|---|--------------------|---------|--------------------------------------|--------------------|---------|
|   | 1963 <sup>1</sup>  | 1958    |   | 1963 <sup>1</sup>  | 1958    |                                      | 1963 <sup>1</sup>  | 1958    |
| CUTLERY, SCISSORS, SHEARS, TRIMMERS AND SNIPS (34211) |                    |         | FILES, RASPS, AND FILE ACCESSORIES AND OTHER HAND TOOLS (34233) |                    |         | FURNITURE HARDWARE (34292)—Continued |                    |         |
| United States, total....                              | 90,484             | 77,326  | United States, total....  | 154,595            | 142,017 | West North Central.....              | 3,637              | 1,549   |
| New England.....                                      | 28,009             | 23,325  | New England.....  | 16,043             | 20,845  | Missouri.....                        | 3,637              | 1,549   |
| Massachusetts.....                                    | 6,792              | 6,186   | Middle Atlantic.....  | 46,176             | 40,124  | South.....                           | 11,144             | 7,203   |
| Connecticut.....                                      | 12,039             | 8,690   | New York.....   | 21,680             | 17,378  | North Carolina.....                  | 5,901              | (2)     |
| Middle Atlantic.....                                  | 38,634             | 41,345  | New Jersey.....   | 5,324              | 6,481   | Pacific.....                         | 4,447              | (2)     |
| New York.....   | 17,465             | 21,901  | Pennsylvania.....   | 19,172             | 16,265  | BUILDERS' HARDWARE (34294)           |                    |         |
| New Jersey.....                                       | 15,496             | 14,958  | East North Central.....   | 66,742             | 58,204  | United States, total....             | 465,795            | 387,083 |
| Pennsylvania.....                                     | 5,673              | 4,486   | Ohio.....   | 31,948             | 30,030  | New England.....                     | 86,136             | 86,915  |
| East North Central.....                               | 13,136             | 7,447   | Indiana.....  | 17,277             | 12,467  | Connecticut.....                     | 71,182             | 69,749  |
| Ohio.....   | 8,672              | 4,565   | Illinois.....   | 13,869             | 12,732  | Middle Atlantic.....                 | 43,728             | 47,894  |
| Michigan.....   | 1,085              | (Z)     | Michigan.....   | 2,238              | 1,421   | New York.....                        | 21,013             | 16,956  |
| West North Central.....                               | 1,234              | 1,008   | Wisconsin.....  | 1,410              | 1,554   | New Jersey.....                      | 1,454              | 6,527   |
| South.....  | 6,855              | 2,472   | West North Central.....   | 3,326              | 4,667   | Pennsylvania.....                    | 21,261             | 24,411  |
| West.....   | 2,616              | 1,729   | South.....  | 18,366             | 14,222  | East North Central.....              | 184,540            | 142,871 |
| MECHANICS' HAND SERVICE TOOLS (34231)                 |                    |         | Pacific.....  | 3,942              | (2)     | Ohio.....                            | 19,582             | 11,120  |
| United States, total....                              | 252,390            | 188,460 | HAND SAWS, SAW BLADES AND SAW ACCESSORIES (34250)               |                    |         | Indiana.....                         | 10,753             | 6,296   |
| New England.....                                      | 40,863             | 31,386  | United States, total....  | 85,000             | (NA)    | Illinois.....                        | 102,016            | 81,491  |
| Massachusetts.....                                    | 23,253             | 17,292  | New England.....  | 37,078             | (NA)    | Michigan.....                        | 35,568             | 31,602  |
| Connecticut.....                                      | 17,414             | 13,482  | Middle Atlantic.....  | 11,405             | (NA)    | Wisconsin.....                       | 16,621             | 12,362  |
| Middle Atlantic.....                                  | 59,973             | 46,981  | New York.....   | 8,086              | (NA)    | West North Central.....              | 20,755             | 14,523  |
| New York.....   | 30,500             | 26,050  | North Central.....  | 16,494             | (NA)    | Minnesota.....                       | 8,854              | 5,637   |
| New Jersey.....                                       | 15,555             | 10,109  | Illinois.....   | 9,098              | (NA)    | South Atlantic.....                  | 19,540             | 5,692   |
| Pennsylvania.....                                     | 13,918             | 10,822  | South.....  | 16,965             | (NA)    | Florida.....                         | 14,547             | 1,808   |
| East North Central.....                               | 102,909            | 76,765  | Pacific.....  | 3,058              | (NA)    | East South Central.....              | 23,558             | 17,676  |
| Ohio.....   | 31,352             | 27,845  | California.....   | 1,015              | (NA)    | West South Central.....              | 2,747              | 2,545   |
| Illinois.....   | 32,148             | 29,102  | TRANSPORTATION EQUIPMENT HARDWARE (34291)                       |                    |         | Pacific.....                         | 84,791             | 67,398  |
| Wisconsin.....  | 20,176             | 4,458   | United States, total....  | 778,514            | 472,157 | California.....                      | 84,454             | (2)     |
| West North Central.....                               | 15,875             | 16,154  | Northeast.....  | 175,684            | 112,250 | OTHER HARDWARE (34295)               |                    |         |
| Minnesota.....  | 6,435              | 8,654   | Connecticut.....  | 14,834             | 13,815  | United States, total....             | 237,425            | 215,220 |
| Kansas.....   | 1,667              | (2)     | New York.....   | 40,232             | 9,032   | New England.....                     | 34,907             | 38,795  |
| South.....  | 11,964             | 2,803   | East North Central.....   | 556,188            | 327,321 | Massachusetts.....                   | 6,593              | 7,102   |
| Mountain.....   | 2,410              | (Z)     | Ohio.....   | 133,888            | 85,175  | Connecticut.....                     | 26,127             | 30,488  |
| Pacific.....  | 18,396             | (2)     | Illinois.....   | 32,164             | 22,460  | Middle Atlantic.....                 | 46,993             | 43,174  |
| California.....                                       | 16,775             | 12,494  | Michigan.....   | 351,353            | 199,292 | New York.....                        | 18,817             | 24,955  |
| EDGE TOOLS (34232)                                    |                    |         | West North Central.....   | 1,756              | 3,426   | New Jersey.....                      | 10,705             | 6,712   |
| United States, total....                              | 106,258            | 90,614  | South Atlantic.....   | 5,676              | (Z)     | Pennsylvania.....                    | 17,471             | 11,507  |
| New England.....                                      | 37,485             | 33,088  | East South Central.....   | 3,498              | (Z)     | East North Central.....              | 98,620             | 88,081  |
| Massachusetts.....                                    | 25,278             | 21,406  | West South Central.....   | 1,083              | (Z)     | Ohio.....                            | 24,435             | 19,202  |
| Connecticut.....                                      | 9,500              | 8,887   | West.....   | 34,629             | 23,054  | Illinois.....                        | 25,070             | 25,902  |
| Middle Atlantic.....                                  | 15,026             | 15,271  | California.....   | 31,746             | 22,394  | Michigan.....                        | 25,638             | 23,519  |
| New York.....   | 5,853              | 7,594   | FURNITURE HARDWARE (34292)                                      |                    |         | West North Central.....              | 5,621              | 5,033   |
| New Jersey.....                                       | 4,192              | 2,325   | United States, total....  | 95,334             | 77,409  | Iowa.....                            | 3,788              | 3,289   |
| Pennsylvania.....                                     | 4,981              | 5,352   | New England.....  | 20,705             | 20,973  | South Atlantic.....                  | 6,480              | 4,931   |
| East North Central.....                               | 30,608             | 19,158  | Connecticut.....  | 14,485             | 14,786  | East South Central.....              | 6,655              | 2,334   |
| Ohio.....   | 14,554             | 8,302   | Middle Atlantic.....  | 14,181             | 10,675  | Tennessee.....                       | 4,610              | 1,935   |
| Illinois.....   | 14,689             | 8,166   | New York.....   | 10,951             | 8,185   | West South Central.....              | 8,168              | 4,788   |
| Michigan.....   | 1,020              | 1,574   | East North Central.....   | 41,220             | 32,068  | West.....                            | 29,981             | 28,084  |
| West North Central.....                               | 13,819             | 13,990  | Illinois.....   | 23,044             | 18,411  | Oregon.....                          | 2,835              | 1,271   |
| Missouri.....   | 12,189             | 13,417  |   |                    |         | California.....                      | 25,567             | 25,841  |
| South.....  | 5,141              | 5,914   |   |                    |         |                                      |                    |         |
| West.....   | 4,179              | 3,195   |   |                    |         |                                      |                    |         |
| California.....                                       | 2,676              | 1,758   |   |                    |         |                                      |                    |         |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 34211, New Hampshire, Rhode Island, Illinois, Wisconsin, Maryland, Virginia, West Virginia, and California; 34231, Indiana, Wisconsin, Missouri, Nebraska, West Virginia, North Carolina, South Carolina, Colorado, and Oregon; 34232, Vermont, Iowa, West Virginia, Colorado, and Washington; 34233, Massachusetts, Connecticut, Iowa, West Virginia, Kentucky, Mississippi, and California; 34250, Massachusetts, Connecticut, Pennsylvania, Ohio, Michigan, Virginia, Kentucky, Mississippi, and Oregon; 34291, Maine, Massachusetts, New Jersey, Pennsylvania, Indiana, Wisconsin, Iowa, North Carolina, Georgia, Florida, Kentucky, Alabama, Colorado, and Washington; 34292, Massachusetts, Pennsylvania, Indiana, Michigan, Virginia, Arkansas, and California; 34294, New Hampshire, Massachusetts, Missouri, Virginia, South Carolina, Tennessee, Mississippi, Oklahoma, and Texas; 34295, Rhode Island, Indiana, Wisconsin, Maryland, West Virginia, North Carolina, Georgia, Kentucky, Arkansas, and Texas.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code                               | Material  | Unit of measure | 1963             |                          | 1958      |                          |
|------------------------------------|---|-----------------|------------------|--------------------------|-----------|--------------------------|
|                                    |   |                 | Quantity         | Delivered cost (\$1,000) | Quantity  | Delivered cost (\$1,000) |
| INDUSTRY 3411.—METAL CANS          |   |                 |                  |                          |           |                          |
|                                    | Materials, parts, containers, and supplies, total.....                            |                 | (X)              | 1,212,470                | (X)       | 1,131,055                |
|                                    | Mill shapes and forms (except castings):  |                 |                  |                          |           |                          |
|                                    | Carbon steel:   |                 |                  |                          |           |                          |
| 331017                             | Wire and wire products.....   | Short tons..... | 3,353            | 1,090                    | 8,525     | 1,865                    |
| 331018                             | Tin plate, terneplate and black plate.....  | ..do.....       | 4,611,431        | 938,805                  | 4,700,337 | 889,531                  |
| 331011                             | Bars and bar shapes.....  | ..do.....       |                  |                          | 82        | 35                       |
| 331012                             | Sheet and strip.....  | ..do.....       | 7,904            | 1,671                    | 16,939    | 4,049                    |
| 331019                             | All other carbon steel mill shapes and forms.....                                 | ..do.....       |                  |                          | -         | -                        |
| 331020                             | Alloy steel (except stainless).....   | ..do.....       |                  |                          | (NA)      |                          |
| 331031                             | Stainless steel mill shapes and forms.....  | ..do.....       | 340              | 177                      | (NA)      | 110                      |
|                                    | Aluminum and aluminum base alloy:   |                 |                  |                          |           |                          |
| 335202                             | Sheet, plate and foil.....  | 1,000 lbs.....  |                  |                          |           |                          |
| 335205                             | Extruded shapes, including extruded rod, pipe, tube, etc.....                     | ..do.....       | 2115,190         | 35,412                   | 2,020     | 1,293                    |
| 335209                             | All other aluminum mill shapes and forms (wire, rod, etc.).....                   | ..do.....       |                  |                          |           |                          |
| 333401                             | Aluminum and aluminum-base alloy refinery shapes.....                             | Short tons..... | (D)              | (D)                      | (NA)      | (NA)                     |
| 285101                             | Paints, varnishes, lacquers, japans, and enamels.....                             | 1,000 gal.....  | 15,657           | 39,422                   | (NA)      | (NA)                     |
| 260091                             | Paper and paperboard containers, including corrugated boxes.....                  |                 | (X)              | 33,253                   | (NA)      | (NA)                     |
| 970099                             | All other materials and components, parts, containers, and supplies consumed..... |                 | (X)              | 151,481                  | (X)       | 227,510                  |
| 97600                              | Materials, parts, containers, and supplies, n.s.k.....                            |                 | (X)              | 11,159                   | (X)       | 6,662                    |
| INDUSTRY 3421.—CUTLERY             |   |                 |                  |                          |           |                          |
|                                    | Materials, parts, containers, and supplies, total.....                            |                 | (X)              | 64,462                   | (X)       | 44,352                   |
|                                    | Mill shapes and forms (except castings):  |                 |                  |                          |           |                          |
|                                    | Carbon steel:   |                 |                  |                          |           |                          |
| 331011                             | Bars and bar shapes.....  | Short tons..... | 4,300            | 773                      | 2,569     | 496                      |
| 331012                             | Sheet and strip.....  | ..do.....       | 14,216           | 5,450                    | 11,871    | 5,346                    |
| 331013                             | Plates.....   | ..do.....       | ( <sup>3</sup> ) | ( <sup>3</sup> )         |           |                          |
| 331017                             | Wire and wire products.....   | ..do.....       | 341              | 109                      | 1,626     | 434                      |
| 331019                             | All other carbon steel mill shapes and forms.....                                 | ..do.....       | 2,392            | 3543                     |           |                          |
|                                    | Alloy steel (except stainless):   |                 |                  |                          |           |                          |
| 331021                             | Bars and bar shapes.....  | ..do.....       |                  |                          | 180       | 103                      |
| 331029                             | All other alloy steel mill shapes and forms.....                                  | ..do.....       | 362              | 163                      | 1,951     | 2,019                    |
| 331031                             | Stainless steel.....  | ..do.....       | 6,732            | 6,405                    | 4,189     | 3,853                    |
|                                    | Copper and copper-base alloy mill shapes and forms:                               |                 |                  |                          |           |                          |
| 335102                             | Rod, bar and mechanical wire, including extruded and/or drawn shapes.....         | 1,000 lbs.....  |                  |                          |           |                          |
| 335123                             | Plate, sheet and strip (including military cups and discs).....                   | ..do.....       | 3,750            | 1,669                    | 3,279     | 1,466                    |
| 335127                             | Pipe and tube.....  | ..do.....       | 250              | 257                      |           |                          |
|                                    | Aluminum and aluminum-base alloy mill shapes and forms:                           |                 |                  |                          |           |                          |
| 335202                             | Sheet, plate, and foil.....   | ..do.....       |                  |                          | 1,477     | 717                      |
| 335205                             | Extruded shapes.....  | ..do.....       | 2,755            | 1,219                    | 57        | 51                       |
| 335209                             | All other aluminum mill shapes and forms.....                                     | ..do.....       |                  |                          |           |                          |
|                                    | Castings (rough and semifinished): <sup>4</sup>                                   |                 |                  |                          |           |                          |
| 332011                             | Iron (gray and malleable).....  | Short tons..... | 748              | 438                      | 627       | 353                      |
| 332300                             | Steel.....  | ..do.....       | 149              | 213                      | 420       | 665                      |
| 336100                             | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....  | 26               | 17                       | 137       | 146                      |
| 336200                             | Copper and copper-base alloy.....   | ..do.....       | -                | -                        | 109       | 67                       |
| 339100                             | Iron and steel forgings <sup>4</sup> .....  | Short tons..... | 205              | 276                      | (NA)      | (NA)                     |
| 970099                             | All other materials and components, parts, containers, and supplies consumed..... |                 | (X)              | 42,761                   | (X)       | 23,804                   |
| 976000                             | Materials, parts, containers and supplies, n.s.k. <sup>5</sup> .....              |                 | (X)              | 4,169                    | (X)       | 4,832                    |
| INDUSTRY 3423.—HAND AND EDGE TOOLS |   |                 |                  |                          |           |                          |
|                                    | Materials, parts, containers, and supplies, total.....                            |                 | (X)              | 162,649                  | (X)       | 134,803                  |
|                                    | Mill shapes and forms (except castings):  |                 |                  |                          |           |                          |
|                                    | Carbon steel:   |                 |                  |                          |           |                          |
| 331011                             | Bars and bar shapes.....  | Short tons..... | 91,726           | 17,165                   | 69,319    | 13,055                   |
| 331012                             | Sheet and strip.....  | ..do.....       | 60,088           | 11,858                   | 54,507    | 10,381                   |
| 331013                             | Plates.....   | ..do.....       | 967              | 236                      | 833       | 149                      |
| 331017                             | Wire and wire products.....   | ..do.....       | 4,828            | 1,549                    | 6,126     | 1,780                    |
| 331019                             | All other carbon steel mill shapes and forms.....                                 | ..do.....       | 4,719            | 1,588                    | 2,371     | 895                      |
|                                    | Alloy steel (except stainless):   |                 |                  |                          |           |                          |
| 331021                             | Bars and bar shapes.....  | ..do.....       | 37,330           | 10,233                   | 29,995    | 8,232                    |
| 331029                             | All other alloy steel mill shapes and forms.....                                  | ..do.....       | 3,413            | 1,959                    | 1,734     | 1,725                    |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure             | 1963     |                          | 1958     |                          |
|---|---|-----------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                             | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3423.—HAND AND EDGE TOOLS—Continued            |   |                             |          |                          |          |                          |
| Mill shapes and forms (except castings)--Continued:     |   |                             |          |                          |          |                          |
| 331031  | Stainless steel.....  | Short tons.....             | 527      | 554                      | 344      | 350                      |
| Copper and copper-base alloy mill shapes and forms:     |   |                             |          |                          |          |                          |
| 335728  | Bare wire.....  | 1,000 lbs.....              | 382      | 265                      | 118      | 81                       |
| 335790  | Insulated wire and cable.....   | 1,000 lbs. (copper content) |          |                          | 177      | 187                      |
| 335102  | Rod, bar, and mechanical wire.....  | 1,000 lbs.....              |          |                          | 875      | 494                      |
| 335123  | Plate, sheet and strip.....   | ..do.....                   | 417      | 276                      | 1,809    | 1,010                    |
| 335127  | Pipe and tube.....  | ..do.....                   | 761      | 584                      |          |                          |
| Aluminum and aluminum-base alloy mill shapes and forms: |   |                             |          |                          |          |                          |
| 335202  | Sheet, plate, and foil.....   | ..do.....                   | 3,261    | 1,297                    | 2,804    | 1,317                    |
| 335205  | Extruded shapes.....  | ..do.....                   | 773      | 453                      |          |                          |
| 335209  | All other aluminum mill shapes and forms.....                                     | ..do.....                   | 464      | 239                      | 550      | 437                      |
| Castings (rough and semifinished) <sup>4</sup> :        |   |                             |          |                          |          |                          |
| 332011  | Iron (gray and malleable).....  | Short tons.....             | 15,400   | 8,791                    | 12,183   | 5,702                    |
| 332300  | Steel.....  | ..do.....                   | 1,904    | 1,338                    | 1,019    | 747                      |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....              | 3,157    | 2,209                    | 2,551    | 1,725                    |
| 336200  | Copper and copper-base alloy.....   | ..do.....                   | (D)      | (D)                      | 364      | 264                      |
| 339100  | Iron and steel forgings <sup>6</sup> .....  | Short tons.....             | 8,149    | 7,277                    | (NA)     | (NA)                     |
| 970099  | All other materials and components, parts, containers, and supplies consumed..... | .....                       | (X)      | 67,978                   | (X)      | 71,778                   |
| 976000  | Materials, parts, containers, and supplies, n.s.k. <sup>5</sup> .....             | .....                       | (X)      | 26,306                   | (X)      | 14,988                   |
| INDUSTRY 3425.—HANDSAWS AND SAW BLADES                  |   |                             |          |                          |          |                          |
| Materials, parts, containers, and supplies, total.....  |   |                             |          |                          |          |                          |
|   |   |                             | (X)      | 32,665                   | (X)      | 28,132                   |
| Mill shapes and forms (except castings):                |   |                             |          |                          |          |                          |
| Carbon steel:   |   |                             |          |                          |          |                          |
| 331012  | Sheet and strip.....  | Short tons.....             | 8,003    | 5,190                    | 5,388    | 3,343                    |
| 331013  | Plates.....   | ..do.....                   | 777      | 244                      | 917      | 212                      |
| 331011  | Bars and bar shapes.....  | ..do.....                   | 3,621    | 1,428                    | 1,224    | 452                      |
| 331017  | Wire and wire products.....   | ..do.....                   |          |                          | 1,079    | 487                      |
| 331019  | All other carbon steel mill shapes and forms.....                                 | ..do.....                   |          |                          |          |                          |
| Alloy steel (except stainless):                         |   |                             |          |                          |          |                          |
| 331021  | Bars and bar shapes.....  | ..do.....                   | 10,444   | 12,791                   | 3,056    | 2,148                    |
| 331029  | All other alloy steel mill shapes and forms.....                                  | ..do.....                   |          |                          | 5,345    | 8,218                    |
| 331031  | Stainless steel.....  | ..do.....                   | 19       | 29                       | 24       | 58                       |
| Aluminum and aluminum-base alloy mill shapes and forms: |   |                             |          |                          |          |                          |
| 335205  | Extruded shapes, (including extruded rod, bar, pipe, tube, etc.)                  | 1,000 lbs.....              | (D)      | (D)                      | (NA)     | (NA)                     |
| 970099  | All other materials and components, parts, containers, and supplies consumed..... | .....                       | (X)      | 12,118                   | (X)      | 8,914                    |
| 973000  | Materials, parts, containers, and supplies, n.s.k. <sup>5</sup> .....             | .....                       | (X)      | 1,865                    | (X)      | 4,300                    |
| INDUSTRY 3429.—HARDWARE, N.E.C.                         |   |                             |          |                          |          |                          |
| Materials, parts, containers, and supplies, total.....  |   |                             |          |                          |          |                          |
|   |   |                             | (X)      | 653,977                  | (X)      | 530,894                  |
| Mill shapes and forms (except castings):                |   |                             |          |                          |          |                          |
| Carbon steel:   |   |                             |          |                          |          |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....             | 89,448   | 16,386                   | 57,026   | 9,943                    |
| 331012  | Sheet and strip.....  | ..do.....                   | 635,202  | 111,317                  | 470,952  | 82,033                   |
| 331013  | Plates.....   | ..do.....                   | 3,857    | 642                      | 3,617    | 520                      |
| 331017  | Wire and wire products.....   | ..do.....                   | 91,331   | 19,662                   | 63,582   | 14,320                   |
| 331019  | All other carbon steel mill shapes and forms.....                                 | ..do.....                   | 14,714   | 4,944                    | 16,749   | 4,649                    |
| 331020  | Alloy steel (except stainless).....   | ..do.....                   | 3,556    | 1,579                    | 5,843    | 2,864                    |
| 331031  | Stainless steel.....  | ..do.....                   | 37,860   | 37,264                   | 26,035   | 26,410                   |
| Copper and copper-base alloy:                           |   |                             |          |                          |          |                          |
| 335728  | Bare wire for electrical conduction.....  | 1,000 lbs.....              | (D)      | (D)                      | 1,480    | 803                      |
| 335790  | Insulated wire and cable.....   | 1,000 lbs. (copper content) | (D)      | (D)                      | 325      | 218                      |
| 335102  | Rod, bar, and mechanical wire.....  | 1,000 lbs.....              | 22,815   | 10,711                   | 56,802   | 24,887                   |
| 335123  | Plate, sheet, and strip.....  | ..do.....                   | 30,777   | 17,571                   |          |                          |
| 335127  | Pipe and tube.....  | ..do.....                   | 2,026    | 1,636                    |          |                          |
| Aluminum and aluminum-base alloy:                       |   |                             |          |                          |          |                          |
| 335202  | Sheet, plate and foil.....  | ..do.....                   | 25,110   | 11,346                   | 17,056   | 8,551                    |
| 335205  | Extruded shapes.....  | ..do.....                   | 16,276   | 7,789                    | 9,707    | 4,855                    |
| 335209  | All other aluminum mill shapes and forms.....                                     | ..do.....                   | 8,361    | 4,459                    |          |                          |
| Primary metals:   |   |                             |          |                          |          |                          |
| 333122  | Copper and copper-base alloy refinery shapes.....                                 | Short tons.....             | 7,411    | 4,820                    | 7,512    | 3,879                    |
| 333348  | Zinc and zinc-base alloy refinery shapes.....                                     | ..do.....                   | 119,664  | 33,764                   | 61,802   | 17,144                   |
| 333401  | Aluminum and aluminum-base alloy refinery shapes.....                             | ..do.....                   | 4,355    | 2,402                    | (NA)     | (NA)                     |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | Unit of measure | 1963     |                             | 1958     |                             |
|--|---|-----------------|----------|-----------------------------|----------|-----------------------------|
|  |   |                 | Quantity | Delivered cost<br>(\$1,000) | Quantity | Delivered cost<br>(\$1,000) |
| INDUSTRY 3429.—HARDWARE, N.E.C.—Continued        |   |                 |          |                             |          |                             |
| 999808   | Scrap (exclude home scrap):   |                 |          |                             |          |                             |
|  | Aluminum and aluminum-base alloy.....   | Short tons..... | (D)      | (D)                         | (NA)     | (NA)                        |
| 999812   | Copper and copper-base alloy.....   | ...do.....      | (D)      | (D)                         | 152      | 78                          |
| Castings (rough and semifinished) <sup>7</sup> : |   |                 |          |                             |          |                             |
| 332011   | Iron (gray and malleable).....  | ...do.....      | 58,850   | 20,449                      | 38,859   | 13,893                      |
| 332300   | Steel.....  | ...do.....      | 4,204    | 2,344                       | 12,150   | 4,626                       |
| 336100   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....  | 5,254    | 3,382                       | 4,869    | 2,788                       |
| 336200   | Copper and copper-base alloy.....   | ...do.....      | (NA)     | 5,585                       | 9,246    | 6,506                       |
| 970099   | All other materials and components, parts, containers, and supplies consumed..... | .....           | (X)      | 291,804                     | (X)      | 243,300                     |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....             | .....           | (X)      | 44,121                      | (X)      | 58,627                      |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. Data are included in code 970099.  
 (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Data for Alaska and Hawaii are excluded.

<sup>2</sup>Data on the weight of aluminum consumed in the production of cans constructed wholly of metal are published in Current Industrial Reports Series M34D, "Metal Cans." The consumption total reported in the census also includes aluminum consumed in the production of secondary products.

<sup>3</sup>Material code 331013, carbon steel plates, is combined with material code 331019, all other carbon steel mill shapes and forms.

<sup>4</sup>Does not include castings or forgings produced and consumed in the same establishment.

<sup>5</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

<sup>6</sup>In 1963, 3,802 short tons of iron and steel forgings were produced and consumed in the same establishment. No comparable data are available for 1958.

<sup>7</sup>In 1963, there were, in addition, 2,748 short tons of iron castings and 2,216 thousand pounds of aluminum castings produced and consumed in the same establishment. Data for other types of castings produced and consumed in the same establishment in 1963 are not available. No data are available for 1958.

TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item   | Metal cans<br>(SIC 3411) | Cutlery<br>(SIC 3421) | Edge tools<br>(SIC 3423) | Hand saws<br>and<br>saw blades<br>(SIC 3425) | Hardware, n.e.c.<br>(SIC 3429) |
|--|--------------------------|-----------------------|--------------------------|--|--------------------------------|
| Total cost of purchased fuels and electric energy.....\$1,000..  | 15,044                   | 2,295                 | 7,860                    | 1,334  | 16,036                         |
| Total cost of purchased fuels.....do....   | 7,267                    | 1,069                 | 3,942                    | 479  | 6,702                          |
| Bituminous coal, lignite, and anthracite:  |                          |                       |                          |  |                                |
| Quantity.....1,000 short tons..  | 67                       | (S)                   | 50                       | 3  | 182                            |
| Cost.....\$1,000..   | 563                      | (S)                   | 328                      | 34   | 1,509                          |
| Coke and breeze:   |                          |                       |                          |  |                                |
| Quantity.....1,000 short tons..  | -                        | (S)                   | (S)                      | -  | 4                              |
| Cost.....\$1,000..   | -                        | (S)                   | (S)                      | -  | 132                            |
| Fuel oil (distillate and residual):  |                          |                       |                          |  |                                |
| Quantity.....1,000 barrels of 42 gallons..   | 262                      | 173                   | 329                      | 31   | 501                            |
| Cost.....\$1,000..   | 844                      | 541                   | 1,290                    | 117  | 1,739                          |
| Gas (natural, manufactured, still, blast furnace,<br>and coke oven):   |                          |                       |                          |  |                                |
| Quantity.....million cu.ft..   | 8,986                    | 187                   | 2,909                    | 291  | 4,492                          |
| Cost.....\$1,000..   | 5,432                    | 177                   | 1,995                    | 273  | 2,669                          |
| Other fuels.....do....   | 428                      | (S)                   | 328                      | 55   | 653                            |
| Electric energy:   |                          |                       |                          |  |                                |
| Purchased:   |                          |                       |                          |  |                                |
| Quantity.....million kw.-hrs..   | 668                      | 70                    | 233                      | 52   | 682                            |
| Cost.....\$1,000..   | 7,777                    | 1,226                 | 3,918                    | 855  | 9,334                          |
| Generated less sold.....million kw.-hrs..  | (S)                      | 22                    | 6                        | -  | 35                             |
| Aggregate horsepower of prime movers and electric motors<br>driven by purchased energy (December 31), total.....1,000 hp.. | 364                      | 48                    | 204                      | 27   | 424                            |
| Prime movers, total.....do....   | 86                       | 6                     | 18                       | 2  | 33                             |
| Driving generators.....do....  | 6                        | 5                     | 4                        | -  | 16                             |
| Not driving generators.....do....  | 80                       | 1                     | 14                       | 2  | 17                             |
| Electric motors, total.....do....  | 281                      | 43                    | 191                      | 25   | 393                            |
| Driven by purchased energy.....do....  | 278                      | 42                    | 186                      | 25   | 390                            |
| Driven by energy generated at establishment.....do....   | 3                        | 2                     | 6                        | -  | 3                              |
| Aggregate horsepower per 100 production workers.....   | 785                      | 507                   | 783                      | 682  | 613                            |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.



**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3421-                          | <b>CUTLERY</b>   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 161                     | 11,837         | 64,281            | 9,487              | 19,312            | 43,896          | 213,998  | 72,934                      | 283,352                      | 12,382                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 140                     | 8,387          | 43,406            | 6,853              | 14,204            | 30,183          | 100,144  | 37,991                      | 137,533                      | 4,355                               |
| 34211                          | Cutlery, scissors, shears, trimmers, and snips (primary product class of estab.).....          | 96                      | 7,322          | 35,227            | 6,147              | 12,318            | 25,904          | 62,713   | 34,858                      | 95,447                       | 1,753                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 80                      | 5,867          | 28,167            | 4,959              | 10,053            | 20,723          | 47,797   | 22,898                      | 70,530                       | 977                                 |
|                                | 75-89% specialization.....   | 5                       | 119            | 580               | 98                 | 176               | 424             | 1,114  | 637                         | 1,720                        | (D)                                 |
| 3423-                          | <b>HAND AND EDGE TOOLS</b>   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 716                     | 31,480         | 176,837           | 24,508             | 48,716            | 125,652         | 364,265  | 207,356                     | 565,590                      | 10,955                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 631                     | 21,741         | 120,164           | 17,134             | 34,138            | 87,123          | 249,197  | 135,518                     | 378,412                      | 7,473                               |
|                                | 75-89% specialization.....   | 25                      | 2,862          | 16,201            | 2,205              | 4,465             | 11,306          | 33,361   | 22,642                      | 57,579                       | 1,016                               |
| 34231                          | Mechanics' hand service tools (primary product class of estab.)....                            | 169                     | 15,107         | 86,502            | 11,225             | 22,389            | 57,861          | 188,257  | 108,691                     | 291,143                      | 5,656                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 114                     | 8,219          | 45,793            | 6,105              | 12,207            | 30,789          | 109,751  | 61,853                      | 167,320                      | 3,366                               |
|                                | 75-89% specialization.....   | 22                      | 1,872          | 10,293            | 1,469              | 2,950             | 7,491           | 19,921   | 10,744                      | 30,434                       | 673                                 |
| 34232                          | Edge tools (primary product class of estab.).....  | 168                     | 5,706          | 33,163            | 4,656              | 9,333             | 24,732          | 60,026   | 26,851                      | 86,597                       | 1,641                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 137                     | 3,410          | 20,030            | 2,827              | 5,764             | 15,434          | 33,609   | 13,459                      | 46,622                       | 935                                 |
|                                | 75-89% specialization.....   | 8                       | 609            | 3,655             | 449                | 858               | 2,216           | 6,165  | 2,604                       | 8,611                        | 79                                  |
| 34233                          | Files, racks, and file accessories and other hand tools (primary product class of estab.)..... | 95                      | 8,937          | 49,001            | 7,206              | 14,291            | 36,491          | 97,408   | 63,061                      | 160,502                      | 3,084                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% specialization.....  | 67                      | 4,360          | 24,258            | 3,670              | 7,066             | 18,994          | 48,754   | 27,547                      | 75,970                       | 1,119                               |
|                                | 75-89% specialization.....   | 11                      | 1,683          | 9,303             | 1,249              | 2,586             | 6,387           | 18,649   | 15,765                      | 35,722                       | 498                                 |
| 3425-                          | <b>HAND SAWS AND SAW BLADES</b>  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 76                      | 5,095          | 29,148            | 3,768              | 7,721             | 19,621          | 65,634   | 38,610                      | 102,782                      | 6,340                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 56                      | 2,281          | 13,600            | 1,642              | 3,448             | 8,254           | 27,818   | 17,395                      | 44,976                       | 828                                 |
|                                | 75-89% specialization.....   | 3                       | 748            | 3,938             | 556                | 1,112             | 2,363           | 8,775  | 6,109                       | 14,573                       | 246                                 |
| 3429-                          | <b>HARDWARE, N.E.C.</b>  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 1,069                   | 88,142         | 529,217           | 70,238             | 145,633           | 383,419         | 1,063,661                                      | 730,482                     | 1,785,134                    | 70,959                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 899                     | 67,284         | 406,329           | 53,925             | 112,241           | 296,190         | 810,751  | 550,598                     | 1,353,350                    | 55,778                              |
|                                | 75-89% specialization.....   | 54                      | 8,091          | 45,088            | 6,332              | 13,584            | 32,468          | 86,553   | 63,344                      | 149,072                      | 3,746                               |
| 34291                          | Transportation equipment hardware (primary product class of estab.)....                        | 135                     | 34,839         | 246,812           | 28,982             | 62,713            | 194,408         | 522,353  | 349,326                     | 866,809                      | 41,283                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 88                      | 23,013         | 167,624           | 19,050             | 41,508            | 131,371         | 362,237  | 246,333                     | 605,776                      | 33,312                              |
|                                | 75-89% specialization.....   | 19                      | 3,397          | 20,498            | 2,914              | 6,066             | 16,686          | 36,993   | 29,697                      | 66,333                       | 655                                 |
| 34292                          | Furniture hardware (primary product class of estab.).....                                      | 91                      | 7,564          | 40,871            | 5,739              | 12,235            | 28,386          | 67,212   | 47,309                      | 114,922                      | 4,461                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 60                      | 1,730          | 8,129             | 1,427              | 2,852             | 5,666           | 15,969   | 13,710                      | 29,225                       | 713                                 |
|                                | 75-89% specialization.....   | 13                      | 1,067          | 5,482             | 672                | 1,863             | 4,085           | 8,083  | 5,111                       | 13,138                       | 95                                  |
| 34293                          | Vacuum and insulated bottles, jugs, and chests (primary product class of estab.).....          | 9                       | 2,465          | 13,295            | 1,726              | 3,248             | 7,533           | 29,657   | 25,105                      | 53,627                       | 1,806                               |
| 34294                          | Builders' hardware (primary product class of estab.).....                                      | 237                     | 29,421         | 158,680           | 23,099             | 46,114            | 107,042         | 313,161  | 196,780                     | 505,929                      | 15,291                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 173                     | 21,747         | 114,454           | 17,369             | 34,570            | 79,606          | 221,065  | 135,166                     | 351,349                      | 11,278                              |
|                                | 75-89% specialization.....   | 25                      | 3,197          | 19,500            | 2,364              | 4,932             | 11,718          | 46,296   | 27,333                      | 73,422                       | 2,276                               |
| 34295                          | Other hardware (primary product class of estab.).....  | 190                     | 11,305         | 58,688            | 8,644              | 17,184            | 38,054          | 107,631  | 94,499                      | 203,111                      | 5,050                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 127                     | 6,054          | 34,147            | 4,493              | 9,041             | 19,937          | 60,273   | 54,844                      | 116,170                      | 2,152                               |
|                                | 75-89% specialization.....   | 14                      | 1,023          | 5,760             | 820                | 1,621             | 3,963           | 10,606   | 7,033                       | 17,495                       | 817                                 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations  | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3411.—METAL CANS  |                          |   |         |            |                                       |   |         |            |
| Machine shop.....  | 128                      | 29  | 53      | 46         | 2,826                                 | 70  | 587     | 2,169      |
| Tool and die shop.....   | 12                       | 7   | 4       | 1          | 107                                   | 15  | (D)     | (D)        |
| Plate or structural fabrication.....   | 8                        | 1   | 1       | 6          | 771                                   | (D)                                       | (D)     | (D)        |
| Stamping, blanking and forming of metals.....  | 131                      | 20  | 35      | 76         | 11,673                                | 44  | 346     | 11,283     |
| Painting, lacquering and enameling on metals.....  | 77                       | 17  | 25      | 35         | 2,319                                 | 41  | 227     | 2,051      |
| INDUSTRY 3421.—CUTLERY   |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 1                        | -   | -       | 1          | (D)                                   | -   | -       | (D)        |
| Nonferrous foundry (except die casting).....   | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 19                       | 15  | 4       | -          | 67                                    | 27  | 40      | -          |
| Electroplating and other plating.....  | 17                       | 8   | 7       | 2          | 152                                   | 16  | (D)     | (D)        |
| Heat treating of metals.....   | 50                       | 42  | 5       | 3          | 201                                   | 59  | 47      | 95         |
| Automatic screw machine department.....  | 6                        | 4   | 1       | 1          | 41                                    | (D)                                       | (D)     | (D)        |
| Machine shop.....  | 46                       | 23  | 19      | 4          | 413                                   | 50  | 157     | 206        |
| Tool and die shop.....   | 25                       | 12  | 11      | 2          | 157                                   | 23  | (D)     | (D)        |
| Stamping, blanking and forming of metals.....  | 61                       | 35  | 21      | 5          | 684                                   | 62  | 160     | 462        |
| Painting, lacquering and enameling on metals.....  | 26                       | 21  | 5       | -          | 77                                    | 36  | 41      | -          |
| INDUSTRY 3423.—HAND AND EDGE TOOLS   |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 3                        | 1   | 2       | -          | 17                                    | (D)                                       | (D)     | -          |
| Nonferrous foundry (except die casting).....   | 9                        | 7   | 2       | -          | 29                                    | (D)                                       | (D)     | -          |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 99                       | 38  | 38      | 23         | 1,285                                 | 96  | 367     | 822        |
| Electroplating and other plating.....  | 59                       | 32  | 26      | 1          | 295                                   | 54  | (D)     | (D)        |
| Heat treating of metals.....   | 155                      | 119                                       | 31      | 5          | 641                                   | 199                                       | 288     | 154        |
| Automatic screw machine department.....  | 62                       | 35  | 19      | 8          | 459                                   | 56  | 155     | 248        |
| Machine shop.....  | 200                      | 88  | 73      | 39         | 2,605                                 | 178                                       | 673     | 1,754      |
| Tool and die shop.....   | 114                      | 67  | 34      | 13         | 945                                   | 136                                       | 350     | 459        |
| Stamping, blanking and forming of metals.....  | 162                      | 83  | 60      | 19         | 1,893                                 | 148                                       | 529     | 1,216      |
| Painting, lacquering and enameling on metals.....  | 134                      | 110                                       | 23      | 1          | 391                                   | 160                                       | (D)     | (D)        |
| INDUSTRY 3425.—HAND SAWS AND SAW BLADES  |                          |   |         |            |                                       |   |         |            |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 3                        | 2   | -       | 1          | (D)                                   | (D)                                       | -       | (D)        |
| Electroplating and other plating.....  | 5                        | 3   | 2       | -          | 18                                    | (D)                                       | (D)     | -          |
| Heat treating of metals.....   | 24                       | 14  | 9       | 1          | 157                                   | 28  | (D)     | (D)        |
| Automatic screw machine department.....  | 3                        | 3   | -       | -          | 6                                     | -   | -       | -          |
| Machine shop.....  | 25                       | 10  | 8       | 7          | 391                                   | 20  | 92      | 279        |
| Tool and die shop.....   | 11                       | 6   | 5       | -          | 60                                    | 10  | 50      | -          |
| Stamping, blanking and forming of metals.....  | 27                       | 16  | 7       | 4          | 441                                   | 30  | 65      | 346        |
| Painting, lacquering and enameling on metals.....  | 13                       | 12  | 1       | -          | 26                                    | (D)                                       | (D)     | -          |
| INDUSTRY 3429.—HARDWARE, N.E.C.  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 8                        | 2   | 2       | 4          | 202                                   | (D)                                       | (D)     | 180        |
| Nonferrous foundry (except die casting).....   | 53                       | 17  | 24      | 12         | 666                                   | 43  | 212     | 411        |
| Nonferrous die casting.....  | 52                       | 18  | 14      | 20         | 2,045                                 | 38  | 128     | 1,879      |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 24                       | 14  | 6       | 4          | 203                                   | 22  | 53      | 128        |
| Electroplating and other plating.....  | 149                      | 67  | 41      | 41         | 3,829                                 | 158                                       | 384     | 3,287      |
| Galvanizing and other hot dip coating.....   | 13                       | 11  | -       | 2          | 76                                    | (D)                                       | -       | (D)        |
| Heat treating of metals.....   | 52                       | 44  | 6       | 2          | 223                                   | 74  | (D)     | (D)        |
| Automatic screw machine department.....  | 80                       | 44  | 29      | 7          | 573                                   | 75  | 285     | 213        |
| Machine shop.....  | 263                      | 84  | 108     | 71         | 5,912                                 | 143                                       | 1,059   | 4,710      |
| Tool and die shop.....   | 225                      | 126                                       | 72      | 27         | 3,622                                 | 255                                       | 687     | 2,680      |
| Foundry pattern shop.....  | 37                       | 34  | 2       | 1          | 83                                    | 45  | (D)     | (D)        |
| Plate or structural fabrication.....   | 35                       | 21  | 14      | -          | 142                                   | 31  | 111     | -          |
| Stamping, blanking and forming of metals.....  | 349                      | 124                                       | 133     | 92         | 19,136                                | 200                                       | 1,344   | 17,592     |
| Painting, lacquering and enameling on metals.....  | 243                      | 172                                       | 51      | 20         | 1,847                                 | 275                                       | 441     | 1,131      |

See footnotes at end of table.



TABLE 9. Establishments, and Production Workers for Selected Metalworking Operations: 1963—Continued

Footnotes for Table 9-34A

Note: Very small establishments were not requested to report their metalworking operations and in some instances a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production worker employment on the last line of the table below.

| Item  | 3411    | 3421  | 3423  | 3425  | 3429  |
|---|---------|-------|-------|-------|-------|
| Total number of establishments in the industry.....   | 270     | 161   | 716   | 76    | 1,069 |
| Number of establishments which reported one or more of the specified operations.....                          | 184     | 79    | 303   | 39    | 513   |
| Percent of industry production workers in these establishments.....   | 85-90   | 85-90 | 80-85 | 80-85 | 85-90 |
| Number of establishments which reported "none" of the operations apply.....                                   | 49      | 10    | 35    | 5     | 53    |
| Percent of industry production workers in these establishments.....   | 10-15   | 0-5   | 0-5   | 0-5   | 0-5   |
| Percent of industry production workers in establishments which completed metalworking operations inquiry..... | over 95 | 90-95 | 80-85 | 85-90 | 90-95 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>These size groups are based on the number of production workers in the specified operation. They are not based on total employment of the establishment.





## HEATING APPARATUS, EXCEPT ELECTRIC, AND PLUMBING FIXTURES

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3431—Enameled Iron and Metal Sanitary Ware
- 3432—Plumbing Fixture Fittings and Trim (Brass Goods)
- 3433—Heating Equipment, Except Electric

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3431—ENAMELED IRON AND METAL SANITARY WARE

This industry comprises establishments primarily engaged in manufacturing enameled iron, cast iron, or pressed metal sanitary ware. Establishments primarily engaged in manufacturing vitreous and semivitreous pottery sanitary ware are classified in industry 3261; and those manufacturing porcelain enameled kitchen, household, and hospital ware in industry 3461. For a detailed list of products of industry 3431, refer to table 6A, product codes 3431002 to 3431098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Metal Plumbing Fixtures Industry in 1963 totaled \$234 million. This amount included shipments of metal plumbing fixtures (primary products) valued at \$184 million, shipments of other products (secondary products) valued at \$34 million, and miscellaneous receipts (mainly resales) at \$16 million.

This industry's shipments of metal plumbing fixtures in 1963 represented 84 percent of its total product shipments. The industry specialization ratio in 1958 was also 84 percent. Secondary products shipped by this industry in 1963 consisted mainly of plumbing fixture fittings and trim (brass goods).

Shipments of metal plumbing fixtures by this industry in 1963 represented 91 percent of all shipments of these products (\$204 million) by all industries. In 1958 the coverage ratio was 92 percent. Another industry shipping metal plumbing fixtures included industry 3461, Metal Stampings, \$9.3 million.

The production index for the primary products of the industry increased to 136 in 1963 from the 1958 level of 104. The unit value index for 1963 was 72 compared to 83 in 1958. Both indexes were computed on a basis of 1954 = 100.

Industry 3431 includes establishments which fall into two significantly different categories, namely those producing cast iron plumbing fixtures and those producing metal fixtures of pressed metal. Accordingly, the manufacturing plants included in this industry involve different manufacturing processes depending upon the line of products produced. Those fixture plants producing cast iron fixtures include significant foundry operations while the pressed metal fixture plants are more closely allied to metal fabricating plants producing their product by forming processes (stamping, drawing, etc.).

The operations of the largest establishments in this industry cover the entire production process including the casting of the fixture, through the machining, finishing, and assembly operations. In general these processes are carried on at a single manufacturing plant. However, in a few instances the foundry operations were performed at separate locations and, accordingly, those separate foundries were classified in the foundry industries (SIC industries 3321, 3322, 3323, 3361, 3362 and 3369). In the latter case the plants classified in this industry would be limited to machining and finishing operations on castings received from their associated plants.

Certain of the companies operating plants classified in this industry also have establishments producing allied products classified in other industries. For example, the larger fixture manufacturers also have plants engaged in manufacturing fixture fittings and such allied products as vitreous china fixtures, kitchen cabinets, warm air furnaces, boilers and other consumer durable items in the plumbing and heating line.

As is shown in table 7, certain of the more important materials consumed by the industry are pig iron, and iron and steel scrap metal consumed in the foundry operations and steel mill shapes and forms. In addition, data are also shown for the quantity of iron castings produced and consumed within the plants classified in this industry.

Data on shipments of plumbing fixtures were collected by the Bureau of the Census on a quarterly basis on Form M34E. The detailed statistics shown in table 6A were taken from the quarterly survey.

#### 3432--PLUMBING FIXTURE FITTINGS AND TRIM (BRASS GOODS)

This industry comprises establishments primarily engaged in manufacturing plumbing fixture fittings and trim (brass goods). Establishments primarily engaged in the manufacture of steam or water line valves are classified in industry 3494. For a detailed list of products of industry 3432, refer to table 6A, product codes 3432001 to 3432098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Plumbing Fittings, Brass Goods, Industry in 1963 totaled \$334 million. This amount included shipments of plumbing fixture fittings and trim, brass goods (primary products) valued at \$274 million, shipments of other products (secondary products) valued at \$31 million, and miscellaneous receipts (mainly resales) at \$29 million.

This industry's shipments of plumbing fixture fittings and trim, brass goods, in 1963 represented 90 percent of its total product shipments. The industry specialization ratio in 1958 was 91 percent. Secondary products shipped by this industry in 1963 included metal valves for piping systems (except plumbing and heating valves) (\$3.2 million),



and plumbing and heating valves and specialties (except plumbers brass goods) (\$3.2 million).

Shipments of plumbing fixture fittings and trim, brass goods, by this industry in 1963 represented 83 percent of all shipments of these products (\$330 million) by all industries. In 1958 the coverage ratio was also 83 percent. Another industry shipping plumbing fixture fittings and trim, brass goods included industry 3494, Valves and Pipe Fittings, \$10.8 million.

The production index for the primary products of the industry increased to 167 in 1963 from the 1958 level of 123. The unit value index for 1963 was 93 compared to 99 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3433—HEATING EQUIPMENT, EXCEPT ELECTRIC

This industry comprises establishments primarily engaged in manufacturing heating equipment for all purposes other than power, including all gas, oil, and stoker coal fired equipment for the automatic utilization of gaseous, liquid, and solid fuels. Establishments primarily engaged in manufacturing electric stoves and ranges are classified in industry 3631; boiler shops primarily engaged in the production of industrial, power, and marine boilers in industry 3443; and industrial process furnaces and ovens in industry 3567. For a detailed list of products of industry 3433, refer to table 6A, product codes 3433110 to 3433698.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Heating Equipment, Except Electric, Industry in 1963 totaled \$1,020 million. This amount included shipments of heating equipment, except electric (primary products) valued at \$721 million, shipments of other products (secondary products) valued at \$226 million, and miscellaneous receipts of \$73 million.

This industry's shipments of heating equipment, except electric, in 1963 represented 76 percent of its total product shipments. The industry specialization ratio in 1958 was 81 percent. Secondary products shipped by this industry in 1963 included steel power boilers, parts and attachments (over 15 p.s.i. steam working pressure) (\$18.6 million), and heat transfer equipment (\$77.6 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent to this specialization is indicated in table 8. Approximately 22 percent of the total industry shipments are represented by plants specializing in product class 34332, Warm air furnaces (except floor and wall), except parts; and 30 percent in product class 34336, Other heating equipment (except electric) and parts for nonelectric heating equipment.

Shipments of heating equipment, except electric, by this industry in 1963 represented 81 percent of all shipments of these products (\$893 million) by all industries. In 1958 the coverage ratio was 80 percent. Another industry shipping heating equipment, except electric was industry 3585, Refrigeration Machinery, \$69.2 million.

The production index for the primary products of the industry increased to 116 in 1963 from the 1958 level of 103. The unit value index for 1963 was 105 compared to 110 in 1958. Both indexes were computed on a basis of 1954 = 100.

Inasmuch as the primary products of industry 3433 represent a wide and heterogeneous group of heating equipment products, the establishments in this industry are involved in

a variety of manufacturing processes. Many heating equipment plants are engaged in metal fabricating activities, namely, stamping and forming. In addition, a significant number of the establishments in the industry are engaged in foundry and plate fabricating activities.

Some of the companies operating plants classified in industry 3433 have establishments engaged in the production of allied products such as metal tanks, electric and nonelectric ranges, electric and nonelectric water heaters and other consumer durable items principally in the heating and cooking line.

The establishments of this industry vary greatly in the degree to which they manufacture the components used in the production of heating and cooking equipment. Some manufacturers produce practically all of the component parts and incorporate only such purchased parts as the motor, electrical controls, and blowers. Other manufacturers produce only a small part of the complete unit purchasing most of the components from other manufacturers and limiting their manufacturing activities to assembly operations.

Data are shown in table 6A for "oil burners sold separately." These statistics exclude the quantity and value of oil burners which were both produced and incorporated into other types of heating equipment in the same plant. In these instances the value of the boiler- or furnace-burner unit includes the value of the oil burner.

Data on shipments of domestic heating stoves, mechanical stokers, oil burners, and furnaces were collected during 1963 by the Bureau of the Census on Annual Form MA-34N, Heating and Cooking Equipment (Except Electric). The product data shown for 1963 in table 6A are from that source.

Data for unit ventilators, unit heaters, and parts for unit heaters and ventilators, and heat transfer coils were collected during 1963 by the Bureau of the Census on a quarterly basis on Form M35H, Fans and Blowers. The product data shown in table 6A were taken from the quarterly survey.



PLUMBING AND HEATING EXCEPT ELECTRIC: SIC 343  
 Value Added by Manufacture by State: 1963

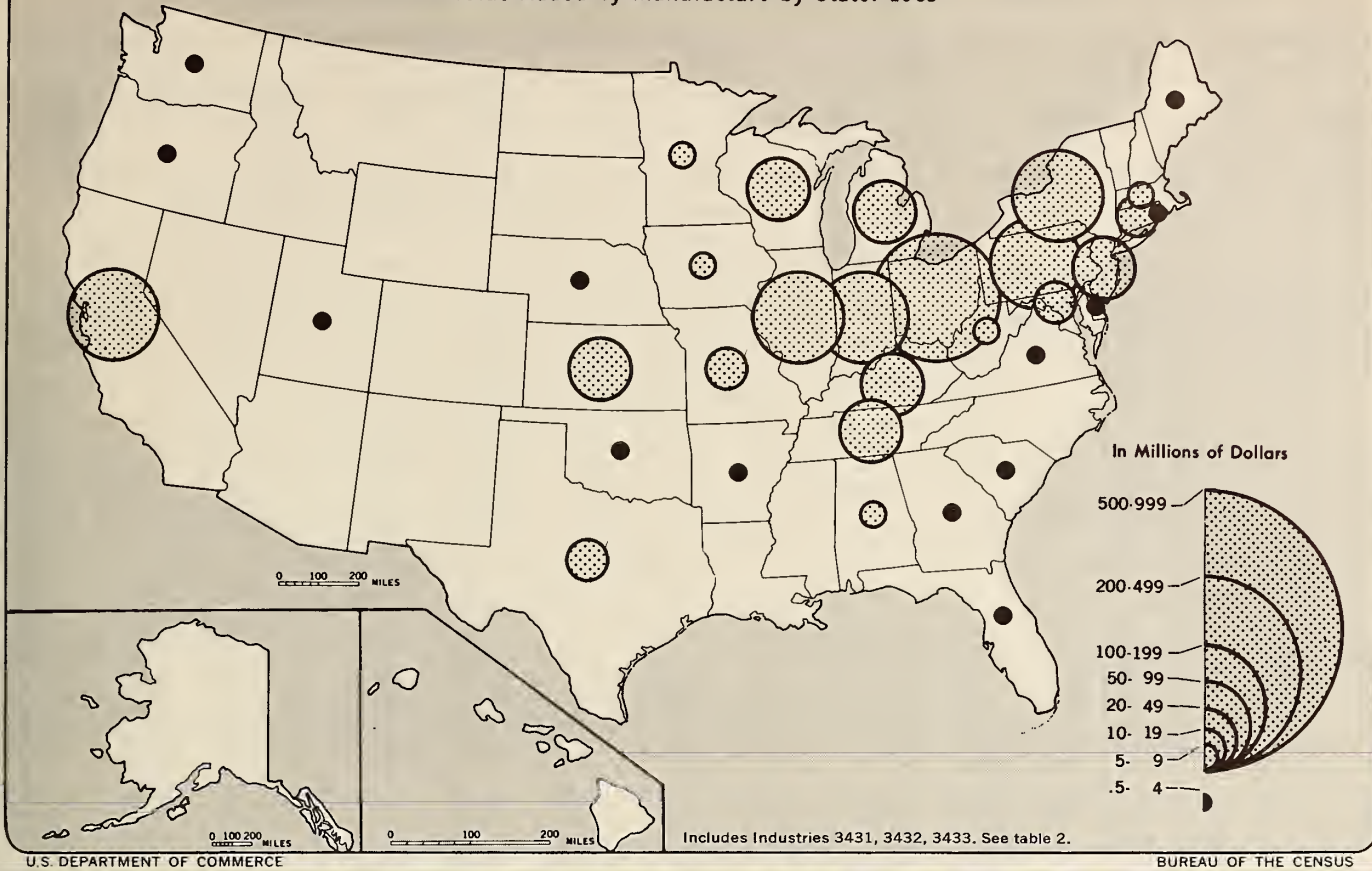


TABLE 1. General Statistics: 1963 and Earlier Years

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3431.—METAL PLUMBING FIXTURES            |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....   | 75                         | 81                | 45   | 11,011            | 68,162               | 8,833              | 17,501               | 50,373             | 139,859  | 96,196                            | 234,896                            | 5,863   | 84  | 91                                       |
| 1962 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 9,498             | 57,557               | 7,588              | 15,678               | 42,417             | 111,764  | 95,075                            | 209,541                            | (5,432)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 8,647             | 48,682               | 7,004              | 13,950               | 37,157             | 87,485   | 78,780                            | 178,453                            | (4,996)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | (9,829)           | (54,674)             | (7,933)            | (16,139)             | (41,564)           | (110,742)  | (91,128)                          | (196,613)                          | (5,027)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | (11,784)          | (68,704)             | (9,281)            | (19,842)             | (51,727)           | (133,632)  | (107,801)                         | (234,931)                          | (7,691)   | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                           | 56                         | 63                | 41   | 12,432            | 67,848               | 10,058             | 19,179               | 50,754             | 118,555  | 95,207                            | 214,872                            | 8,928   | 84  | 92                                       |
| INDUSTRY 3432.—PLUMBING FITTINGS, BRASS GOODS     |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....   | 247                        | 250               | 102  | 15,129            | 79,336               | 12,314             | 23,988               | 58,259             | 154,752  | 181,271                           | 333,832                            | 6,542   | 90  | 83                                       |
| 1962 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 14,044            | 73,114               | 11,204             | 21,362               | 52,933             | 136,923  | 167,940                           | 306,050                            | 4,872   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 13,087            | 67,566               | 10,440             | 20,353               | 48,428             | 128,881  | 145,246                           | 271,906                            | 4,792   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 15,272            | 76,335               | 12,364             | 23,712               | 55,851             | 140,079  | 149,152                           | 289,235                            | 3,546   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 15,850            | 77,183               | 13,152             | 25,621               | 58,188             | 158,077  | 155,795                           | 310,854                            | 4,349   | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                           | 250                        | 254               | 84   | 14,663            | 66,937               | 12,140             | 22,993               | 50,425             | 120,560  | 131,530                           | 250,326                            | 3,564   | 91  | 83                                       |
| PLUMBING FIXTURES AND FITTINGS <sup>3</sup>       |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....   | (NA)                       | 331               | 147  | 26,140            | 147,498              | 21,147             | 41,489               | 108,632            | 294,611  | 277,467                           | 568,728                            | 12,405  | (NA)  | (NA)                                     |
| 1962 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 23,542            | 130,671              | 18,792             | 37,040               | 95,350             | 248,687  | 263,015                           | 515,591                            | 10,304  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 21,734            | 116,248              | 17,444             | 34,303               | 85,585             | 216,366  | 224,026                           | 450,359                            | 9,788   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 25,101            | 131,009              | 20,297             | 39,851               | 97,415             | 250,821  | 240,280                           | 485,848                            | 8,573   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 27,634            | 145,887              | 22,433             | 45,463               | 109,915            | 291,709  | 263,596                           | 545,785                            | 12,040  | (NA)  | (NA)                                     |
| 1958 <sup>1</sup> .....                           | (NA)                       | 317               | 125  | 27,095            | 134,785              | 22,198             | 42,172               | 101,179            | 239,115  | 226,737                           | 465,198                            | 12,492  | (NA)  | (NA)                                     |
| 1957 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 27,691            | 128,726              | 22,684             | 41,889               | 97,325             | 222,328  | 204,331                           | 426,659                            | 15,888  | 87  | 87                                       |
| 1956 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 30,362            | 134,926              | 25,285             | 47,877               | 104,374            | 267,048  | 212,241                           | 479,319                            | 16,928  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 33,729            | 149,821              | 28,752             | 56,578               | 117,941            | 288,201  | 155,059                           | 443,260                            | 11,836  | (NA)  | (NA)                                     |
| 1954 <sup>1</sup> .....                           | 307                        | 321               | 129  | 30,612            | 132,070              | 25,675             | 50,706               | 102,346            | 239,465  | 222,848                           | 468,277                            | 12,286  | 87  | 89                                       |
| 1953 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 35,362            | 146,083              | 29,959             | 59,275               | 114,018            | 253,275  | 219,949                           | 473,224                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 33,913            | 131,971              | 28,346             | 56,035               | 101,378            | 218,816  | 191,339                           | 410,155                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 40,227            | 154,598              | 33,944             | 69,163               | 120,542            | 263,592  | 222,139                           | 485,731                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 40,846            | 142,535              | 34,775             | 71,593               | 112,491            | 257,110  | 206,438                           | 463,548                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 30,225            | 100,851              | 25,395             | 49,834               | 77,190             | 155,775  | 138,701                           | 293,846                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....   | 263                        | 277               | 134  | 34,748            | 98,316               | 30,698             | 61,083               | 81,849             | 159,081  | 139,464                           | 298,545                            | (NA)  | 90  | 92                                       |
| 1939 <sup>4</sup> .....                           | (NA)                       | 247               | (NA)   | (NA)              | (NA)                 | 22,889             | (NA)                 | 28,686             | 66,743   | 45,648                            | 112,391                            | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3433.—HEATING EQUIPMENT, EXCEPT ELECTRIC |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....   | 611                        | 648               | 280  | 42,020            | 243,857              | 30,232             | 60,035               | 154,435            | 495,652  | 525,517                           | 1,019,787                          | 17,815  | 76  | 81                                       |
| 1962 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 43,873            | 244,985              | 31,054             | 61,494               | 149,846            | 522,469  | 531,537                           | 1,046,284                          | 12,800  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 45,308            | 247,730              | 32,466             | 63,397               | 155,353            | 505,727  | 544,672                           | 1,052,919                          | 14,453  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 45,726            | 243,887              | 33,191             | 64,278               | 152,798            | 511,946  | 517,154                           | 1,019,355                          | 13,114  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                           | (NA)                       | (NA)              | (NA)   | 46,699            | 243,227              | 34,211             | 66,648               | 154,958            | 487,040  | 542,914                           | 1,020,980                          | 13,351  | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                           | 642                        | 672               | 303  | 44,680            | 222,681              | 32,433             | 63,178               | 142,329            | 432,799  | 470,630                           | 912,878                            | 13,415  | 81  | 80                                       |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification. Accordingly, the data for 1958-1963 are not comparable with those for earlier years.

<sup>3</sup>The two industries shown above were a single industry in 1957 and earlier years. They are shown combined so that historical data may be presented.

<sup>4</sup>No comparable figures are available for earlier years.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                      | 1963           |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     | 1958                   |  |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|------------------------|--|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |                        |  |
| INDUSTRY 3431.—METAL PLUMBING FIXTURES            |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| Total.....  | 81             | 45                                 | 11,011         | 68,162            | 8,833              | 17,501            | 50,373          | 139,859  | 96,196                      | 234,896                      | 5,863                               | 12,432                 | 118,555  |
| Northeast.....                                    | 26             | 11                                 | 1,925          | 11,574            | 1,541              | 2,834             | 8,607           | 20,994   | 16,993                      | 37,635                       | 825                                 | 1,941                  | 18,455   |
| Pennsylvania.....                                 | 10             | 6                                  | 1,254          | 7,528             | 969                | 1,711             | 5,269           | 13,685   | 10,826                      | 24,539                       | 528                                 | 1,410                  | 12,834   |
| North Central.....                                | 24             | 18                                 | 5,233          | 31,961            | 4,144              | 8,320             | 23,046          | 65,922   | 46,862                      | 113,425                      | 2,342                               | 5,930                  | 57,799   |
| Ohio.....   | 7              | 6                                  | 1,798          | 10,390            | 1,451              | 2,579             | 7,610           | 26,275   | 19,730                      | 47,016                       | 584                                 | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| Indiana.....                                      | 3              | 1                                  | 216            | 1,194             | 157                | 343               | 748             | 1,948  | 2,759                       | 4,683                        | 203                                 | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| Illinois.....                                     | 7              | 6                                  | 723            | 4,740             | 509                | 1,013             | 3,002           | 10,398   | 6,011                       | 16,573                       | 347                                 | 677                    | 7,624  |
| South.....  | 16             | 8                                  | 2,836          | 18,207            | 2,295              | 4,668             | 13,740          | 41,523   | 23,427                      | 63,311                       | 1,664                               | } 4,561                | 42,301   |
| West.....   | 15             | 8                                  | 1,017          | 6,420             | 853                | 1,679             | 4,980           | 11,420   | 8,914                       | 20,525                       | 1,032                               |                        |  |
| INDUSTRY 3432.—PLUMBING FITTINGS, BRASS GOODS     |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| Total.....  | 250            | 102                                | 15,129         | 79,336            | 12,314             | 23,988            | 58,259          | 154,752  | 181,271                     | 333,832                      | 6,542                               | 14,663                 | 120,560  |
| Northeast.....                                    | 76             | 28                                 | 2,421          | 11,427            | 1,962              | 3,866             | 8,028           | 23,164   | 27,550                      | 51,019                       | 716                                 | 2,309                  | 18,887   |
| Connecticut.....                                  | 11             | 6                                  | 455            | 2,045             | 384                | 767               | 1,593           | 3,950  | 6,211                       | 10,198                       | 49                                  | 563                    | 5,258  |
| Pennsylvania.....                                 | 15             | 5                                  | 543            | 2,308             | 469                | 911               | 1,825           | 3,663  | 4,907                       | 8,475                        | 282                                 | 586                    | 2,868  |
| North Central.....                                | 90             | 44                                 | 7,164          | 40,047            | 5,718              | 11,066            | 28,887          | 76,495   | 87,291                      | 161,538                      | 2,880                               | 6,563                  | 54,108   |
| Ohio.....   | 28             | 15                                 | 3,006          | 16,577            | 2,430              | 4,360             | 12,214          | 30,794   | 31,256                      | 60,966                       | 1,640                               | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| Indiana.....                                      | 5              | 4                                  | 728            | 3,507             | 639                | 1,416             | 2,873           | 11,650   | 13,559                      | 25,004                       | 221                                 | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| Illinois.....                                     | 21             | 9                                  | 969            | 6,259             | 762                | 1,615             | 4,239           | 8,797  | 15,491                      | 24,264                       | 284                                 | 1,170                  | 8,867  |
| South.....  | 30             | 12                                 | 3,321          | 15,564            | 2,771              | 5,365             | 12,257          | 31,264   | 37,536                      | 69,038                       | 1,004                               | } 5,791                | 47,565   |
| West.....   | 54             | 18                                 | 2,223          | 12,298            | 1,863              | 3,691             | 9,087           | 23,829   | 28,894                      | 52,237                       | 1,942                               |                        |  |
| INDUSTRY 3433.—HEATING EQUIPMENT, EXCEPT ELECTRIC |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| Total.....  | 648            | 280                                | 42,020         | 243,857           | 30,232             | 60,035            | 154,435         | 495,652  | 525,517                     | 1,019,787                    | 17,815                              | 44,680                 | 432,799  |
| New England.....                                  | 47             | 16                                 | 1,644          | 9,344             | 1,199              | 2,503             | 5,969           | 16,431   | 17,802                      | 34,071                       | 669                                 | 1,344                  | 11,438   |
| Massachusetts.....                                | 24             | 6                                  | 780            | 4,584             | 585                | 1,238             | 2,965           | 7,851  | 6,672                       | 14,406                       | 280                                 | 851                    | 7,256  |
| Connecticut.....                                  | 13             | 8                                  | 672            | 3,895             | 465                | 932               | 2,272           | 6,565  | 9,384                       | 15,934                       | 324                                 | 415                    | 3,631  |
| Middle Atlantic....                               | 191            | 81                                 | 11,979         | 72,717            | 8,814              | 17,459            | 47,786          | 156,828  | 152,178                     | 308,647                      | 4,394                               | 12,678                 | 126,853  |
| New York.....                                     | 62             | 22                                 | 3,624          | 22,223            | 2,676              | 5,358             | 14,798          | 44,806   | 46,370                      | 92,495                       | 1,070                               | 4,206                  | 39,909   |
| New Jersey.....                                   | 53             | 21                                 | 2,630          | 15,406            | 1,867              | 3,777             | 9,497           | 31,641   | 34,984                      | 66,964                       | 1,149                               | 2,812                  | 23,960   |
| Pennsylvania.....                                 | 76             | 38                                 | 5,725          | 35,088            | 4,271              | 8,424             | 23,491          | 80,381   | 70,824                      | 149,188                      | 2,175                               | 5,660                  | 62,984   |
| East North Central..                              | 182            | 94                                 | 17,360         | 105,320           | 11,604             | 23,025            | 62,436          | 207,690  | 231,622                     | 437,902                      | 7,382                               | 18,567                 | 188,494  |
| Ohio.....   | 55             | 30                                 | 6,617          | 43,601            | 4,519              | 9,259             | 26,665          | 88,427   | 98,577                      | 184,433                      | 3,173                               | 6,023                  | 66,143   |
| Indiana.....                                      | 26             | 17                                 | 3,113          | 18,828            | 2,016              | 3,827             | 9,893           | 37,770   | 48,730                      | 85,817                       | 2,137                               | 2,459                  | 22,402   |
| Illinois.....                                     | 50             | 24                                 | 3,904          | 22,909            | 2,820              | 5,498             | 13,919          | 48,670   | 47,365                      | 95,004                       | 1,265                               | 6,067                  | 64,515   |
| Michigan.....                                     | 35             | 12                                 | 1,665          | 8,091             | 922                | 1,862             | 4,915           | 14,671   | 20,206                      | 37,218                       | 418                                 | 1,706                  | 13,165   |
| Wisconsin.....                                    | 16             | 11                                 | 2,061          | 11,891            | 1,327              | 2,979             | 7,046           | 18,152   | 16,764                      | 35,430                       | 389                                 | 2,312                  | 22,269   |
| West North Central..                              | 53             | 22                                 | 3,067          | 16,789            | 2,500              | 5,101             | 12,560          | 38,348   | 41,466                      | 78,728                       | 1,199                               | 3,192                  | 40,726   |
| Missouri.....                                     | 24             | 9                                  | 1,070          | 5,777             | 752                | 1,465             | 3,433           | 10,351   | 11,016                      | 21,484                       | 263                                 | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| South.....  | 72             | 32                                 | 5,153          | 23,512            | 4,009              | 7,852             | 15,060          | 45,385   | 48,778                      | 94,831                       | 3,524                               | 5,348                  | 34,262   |
| Tennessee.....                                    | 9              | 8                                  | 1,686          | 7,804             | 1,264              | 2,253             | 4,761           | 13,877   | 17,987                      | 33,094                       | 348                                 | 1,972                  | 13,256   |
| Alabama.....                                      | 5              | 4                                  | 910            | 3,714             | 791                | 1,595             | 2,751           | 6,879  | 6,213                       | 13,140                       | 277                                 | 735                    | 3,988  |
| Texas.....  | 19             | 3                                  | 444            | 2,335             | 282                | 609               | 1,234           | 6,518  | 5,752                       | 12,032                       | 291                                 | 567                    | 4,992  |
| Mountain.....                                     | 10             | 1                                  | 113            | 322               | 91                 | 167               | 271             | 810  | 1,285                       | 2,138                        | 19                                  | } 3,551                | 31,026   |
| Pacific.....                                      | 93             | 34                                 | 2,704          | 15,853            | 2,015              | 3,925             | 10,351          | 30,160   | 32,386                      | 63,470                       | 628                                 |                        |  |
| California.....                                   | 71             | 28                                 | 2,440          | 14,357            | 1,820              | 3,561             | 9,331           | 27,477   | 30,313                      | 58,766                       | 554                                 | 2,860                  | 26,565   |

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3431, Metal Plumbing Fixtures: New England—Massachusetts, 5 (20-99); Middle Atlantic—New York, 7 (20-99); New Jersey, 4 (557); East North Central—Michigan, 3 (500-999); Wisconsin, 3 (1,904); West North Central—Missouri, 1 (20-99); South Atlantic—Maryland, 3 (804); North Carolina, 1 (1-19); South Carolina, 1 (20-99); Georgia, 2 (20-99); Florida, 2 (1-19); East South Central—Kentucky, 2 (1,000-2,499); Tennessee, 2 (500-999); West South Central—Texas, 3 (226); Mountain—Colorado, 1 (1-19); Pacific—California, 14 (1,000-2,499).

SIC 3432, Plumbing Fittings, Brass Goods: New England—Massachusetts, 8 (100-249); Rhode Island, 2 (1-19); Middle Atlantic—New York, 35 (726); New Jersey, 5 (495); East North Central—Michigan, 16 (1,000-2,499); Wisconsin, 7 (482); West North Central—Minnesota, 2 (100-249); Iowa, 3 (174); Missouri, 5 (100-249); Kansas, 3 (20-99); South Atlantic—Delaware, 2 (250-499); Maryland, 2 (20-99); West Virginia, 2 (1,000-2,499); North Carolina, 1 (20-99); South Carolina, 2 (20-99); Georgia, 1 (100-249); Florida, 7 (20-45); East South Central—Kentucky, 2 (500-999); Alabama, 3 (20-99); West South Central—Arkansas, 1 (1-19); Texas, 7 (516); Mountain—Montana, 1 (1-19); Colorado, 2 (1-19); Pacific—Washington, 2 (1-19); Oregon, 1 (1-19); California, 47 (1,000-2,499); Hawaii, 1 (1-19).

SIC 3433, Heating Equipment, Except Electrical: New England—Maine, 2 (20-99); Vermont, 1 (1-19); Rhode Island, 7 (100-249); West North Central—Minnesota, 14 (250-499); Iowa, 5 (445); North Dakota, 1 (1-19); South Dakota, 2 (1-19); Nebraska, 2 (100-249); Kansas, 5 (1,174); South Atlantic—Maryland, 4 (100-249); Virginia, 6 (312); West Virginia, 1 (100-249); North Carolina, 4 (20-99); South Carolina, 1 (20-99); Georgia, 3 (441); Florida, 6 (20-99); East South Central—Kentucky, 6 (409); West South Central—Arkansas, 2 (250-499); Louisiana, 3 (1-19); Oklahoma, 3 (134); Mountain—Montana, 2 (1-19); Colorado, 2 (1-19); Arizona, 2 (1-19); Utah, 4 (20-99); Pacific—Washington, 12 (100-249); Oregon, 10 (20-99).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.

TABLE 3. Detailed Statistics: 1963

| Item   | Metal plumbing fixtures (SIC 3431) | Plumbing fittings, brass goods (SIC 3432) | Heating equipment, except electric (SIC 3433) |
|--|------------------------------------|---|---|
| Primary product specialization ratio <sup>1</sup> .....        | .84                                | .90                                       | .76   |
| Coverage ratio <sup>2</sup> .....                              | .91                                | .83                                       | .81   |
| Establishments, total.....number..                             | 81                                 | 250                                       | 648   |
| With 1 to 19 employees.....do....                              | 36                                 | 148                                       | 368   |
| With 20 to 99 employees.....do....                             | 24                                 | 62  | 167   |
| With 100 employees or more.....do....                          | 21                                 | 40  | 113   |
| Proprietors and working partners.....do....                    | 27                                 | 80  | 187   |
| All employees (average for the year).....do....                | 11,011                             | 15,129                                    | 42,020  |
| Payroll (all employees), total for year.....\$1,000..          | 68,162                             | 79,336                                    | 243,857                                       |
| Production workers:  |                                    |   |   |
| Average for the year.....number..                              | 8,833                              | 12,314                                    | 30,232  |
| March.....do....   | 8,629                              | 12,154                                    | 28,987  |
| May.....do....   | 8,864                              | 12,356                                    | 29,114  |
| August.....do....  | 9,050                              | 12,368                                    | 31,232  |
| November.....do....  | 8,789                              | 12,378                                    | 31,595  |
| Man-hours.....1,000..  | 17,501                             | 23,988                                    | 60,035  |
| January-March.....do....                                       | 4,230                              | 5,972                                     | 14,090  |
| April-June.....do....  | 4,495                              | 6,029                                     | 14,688  |
| July-September.....do....                                      | 4,397                              | 5,942                                     | 15,523  |
| October-December.....do....                                    | 4,379                              | 6,045                                     | 15,734  |
| Wages.....\$1,000..  | 50,373                             | 58,259                                    | 154,435                                       |
| Cost of materials, etc., total.....do....                      | 96,196                             | 181,271                                   | 525,517                                       |
| Materials, parts, containers, and supplies consumed.....do.... | 77,354                             | 156,923                                   | 470,096                                       |
| Cost of resales.....do....                                     | 12,559                             | 15,303                                    | 44,330  |
| Fuels consumed.....do....                                      | 3,587                              | 1,129                                     | 3,921   |
| Electric energy:   |                                    |   |   |
| Purchased:   |                                    |   |   |
| Quantity.....million kw.-hrs..                                 | 154                                | 130                                       | 259   |
| Cost.....\$1,000..   | 1,907                              | 1,924                                     | 4,151   |
| Generated less sold.....million kw.-hrs..                      | (D)                                | -   | (D)   |
| Contract work.....\$1,000..                                    | 789                                | 6,007                                     | 3,019   |
| Value of shipments (including resales), total.....do....       | 234,896                            | 333,832                                   | 1,019,787                                     |
| Value of resales.....do....                                    | 15,007                             | 20,068                                    | 55,449  |
| Value added by manufacture, adjusted.....do....                | 139,859                            | 154,752                                   | 495,652                                       |
| Manufacturers' inventories:                                    |                                    |   |   |
| Beginning of year, total.....do....                            | 36,247                             | 61,484                                    | 201,635                                       |
| Finished products.....do....                                   | 19,570                             | 26,253                                    | 89,248  |
| Work-in-process.....do....                                     | 5,798                              | 18,942                                    | 36,741  |
| Materials, supplies, fuel, etc.....do....                      | 10,879                             | 16,289                                    | 75,646  |
| End of year, total.....do....                                  | 37,380                             | 64,736                                    | 204,222                                       |
| Finished products.....do....                                   | 19,685                             | 28,174                                    | 85,317  |
| Work-in-process.....do....                                     | 6,842                              | 19,212                                    | 42,054  |
| Materials, supplies, fuel, etc.....do....                      | 10,853                             | 17,350                                    | 76,851  |
| Expenditures for plant and equipment, total.....do....         | 5,943                              | 7,074                                     | 19,281  |
| New, total.....do....  | 5,863                              | 6,542                                     | 17,815  |
| New structures and additions to plant.....do....               | 531                                | 1,700                                     | 5,409   |
| New machinery and equipment.....do....                         | 5,332                              | 4,842                                     | 12,406  |
| Used plant and equipment.....do....                            | 80                                 | 532                                       | 1,466   |
| Selected operating ratios:                                     |                                    |   |   |
| Payroll/Total employment.....                                  | 6,190                              | 5,244                                     | 5,803   |
| Production workers/Total employment.....                       | .80                                | .81                                       | .72   |
| Man-hours/Production workers.....                              | 1,981                              | 1,948                                     | 1,986   |
| Production worker wages/Man-hours.....                         | 2.88                               | 2.43                                      | 2.57  |
| Cost of materials and payrolls/Total value of shipments.....   | .70                                | .78                                       | .75   |
| Cost of materials/Total value of shipments.....                | .41                                | .54                                       | .52   |
| Adjusted value added/Total employment.....                     | 12,702                             | 10,229                                    | 11,796  |
| Salaries and wages/Adjusted value added.....                   | .49                                | .51                                       | .49   |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3431.—METAL PLUMBING FIXTURES            |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                       | 81                    | 18                                 | 10               | 8                  | 13                 | 11                 | 8                    | 7                    | 4                    | 2                        | -                        |
| All employees:                                    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                  | 11,011                | 25                                 | 73               | 108                | 424                | 835                | 1,442                | 2,723                | 5,381                | (D)                      | -                        |
| Payroll.....\$1,000..                             | 68,162                | 162                                | 444              | 520                | 1,966              | 5,264              | 7,875                | 17,923               | 34,008               | (D)                      | -                        |
| Value added, adjusted.....do....                  | 139,859               | 308                                | 919              | 1,087              | 3,623              | 16,068             | 16,769               | 32,649               | 68,436               | (D)                      | -                        |
| Value of shipments.....do....                     | 234,896               | 716                                | 2,720            | 2,539              | 7,885              | 26,123             | 30,335               | 55,869               | 108,709              | (D)                      | -                        |
| Capital expenditures, new...do....                | 5,863                 | 24                                 | 104              | 187                | 84                 | 509                | 521                  | 1,782                | 2,652                | (D)                      | -                        |
| INDUSTRY 3432.—PLUMBING FITTINGS, BRASS GOODS     |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                       | 250                   | 78                                 | 35               | 35                 | 32                 | 30                 | 27                   | 7                    | 5                    | 1                        | -                        |
| All employees:                                    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                  | 15,129                | 131                                | 234              | 483                | 992                | 2,060              | 4,151                | 2,241                | 4,837                | (D)                      | -                        |
| Payroll.....\$1,000..                             | 79,336                | 631                                | 1,060            | 2,450              | 5,014              | 9,972              | 21,761               | 11,593               | 26,855               | (D)                      | -                        |
| Value added, adjusted.....do....                  | 154,752               | 1,267                              | 2,143            | 5,569              | 11,282             | 18,437             | 45,744               | 21,169               | 49,141               | (D)                      | -                        |
| Value of shipments.....do....                     | 333,832               | 2,830                              | 4,978            | 12,129             | 21,220             | 41,426             | 105,294              | 39,321               | 106,634              | (D)                      | -                        |
| Capital expenditures, new...do....                | 6,542                 | 71                                 | 76               | 145                | 512                | 695                | 1,231                | 312                  | 3,500                | (D)                      | -                        |
| INDUSTRY 3433.—HEATING EQUIPMENT, EXCEPT ELECTRIC |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                       | 648                   | 186                                | 79               | 103                | 102                | 64                 | 65                   | 38                   | 10                   | 1                        | -                        |
| All employees:                                    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                  | 42,020                | 335                                | 539              | 1,441              | 3,300              | 4,582              | 10,778               | 12,995               | 8,050                | (D)                      | -                        |
| Payroll.....\$1,000..                             | 243,857               | 1,470                              | 2,523            | 7,638              | 17,976             | 25,638             | 61,101               | 75,702               | 51,809               | (D)                      | -                        |
| Value added, adjusted.....do....                  | 495,652               | 3,423                              | 4,676            | 14,899             | 32,456             | 49,798             | 129,829              | 152,217              | 108,354              | (D)                      | -                        |
| Value of shipments.....do....                     | 1,019,787             | 7,248                              | 9,861            | 33,473             | 72,215             | 109,298            | 258,208              | 330,631              | 198,853              | (D)                      | -                        |
| Capital expenditures, new...do....                | 17,815                | 1,927                              | 148              | 377                | 1,176              | 1,158              | 4,313                | 5,172                | 3,544                | (D)                      | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

<sup>1</sup>Includes capital expenditures for plants under construction but not in operation which constitute \$1-\$2 million of the total for the industry.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                      | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|---|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |   | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |   | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |   | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3431      | Metal plumbing fixtures.....1963..            | 234,896            | 184,248          | 34,301             | 16,347                 | 84                                   | 203,517                            | 184,248               | 19,269                   | 91                            |
|           | .....1958..                                   | 214,872            | 164,787          | 30,493             | 19,592                 | 84                                   | 180,006                            | 164,787               | 15,219                   | 92                            |
| 3432      | Plumbing fittings, brass goods...1963..       | 333,832            | 274,134          | 30,722             | 28,976                 | 90                                   | 329,575                            | 274,134               | 55,441                   | 83                            |
|           | .....1958..                                   | 250,326            | 215,210          | 21,475             | 13,641                 | 91                                   | 259,485                            | 215,210               | 44,275                   | 83                            |
| 3433      | Heating equipment, except electric.....1963.. | 1,019,787          | 721,423          | 225,810            | 72,554                 | 76                                   | 893,230                            | 721,423               | 171,807                  | 81                            |
|           | .....1958..                                   | 912,878            | 677,918          | 168,599            | 66,361                 | 81                                   | 836,974                            | 677,918               | 159,056                  | 80                            |

Note: See Introduction for an explanation of terms used.





TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code | Class of products and miscellaneous receipts   | All industries | Heating equipment, except electric (SIC 3433) | Other industries | Prod. class code | Class of products and miscellaneous receipts  | All industries | Heating equipment, except electric (SIC 3433) | Other industries |
|------------------|--|----------------|---|------------------|------------------|---|----------------|---|------------------|
|                  | HEATING EQUIPMENT, EXCEPT ELECTRIC INDUSTRY—Continued                                      |                |   |                  |                  | HEATING EQUIPMENT, EXCEPT ELECTRIC INDUSTRY—Continued   |                |   |                  |
|                  | Listing of other industries with over \$2 million shipments of each primary product class: |                |   |                  |                  | Listing of other industries with over \$2 million shipments of each primary product class—Continued |                |   |                  |
| 34331            | 3621 Motors and generators.....  | (X)            | (X)   | (over 2)         | 34335            | 3443 Boiler shop products.....  | (X)            | (X)   | 3,831            |
| 34332            | 3443 Boiler shop products.....   | (X)            | (X)   | (2-5)            |                  |   |                |   |                  |
|                  | 3585 Refrigeration machinery....   | (X)            | (X)   | 32,608           | 34336            | 3443 Boiler shop products.....  | (X)            | (X)   | 3,786            |
|                  | 3621 Motors and generators.....  | (X)            | (X)   | (over 2)         |                  | 3461 Metal stampings.....   | (X)            | (X)   | 3,270            |
|                  | 3631 Household cooking equipment   | (X)            | (X)   | (over 2)         |                  | 3531 Construction machinery....   | (X)            | (X)   | (2-5)            |
|                  | 3639 Household appliances, n.e.c.  | (X)            | (X)   | (5-10)           |                  | 3561 Pumps and compressors.....   | (X)            | (X)   | (2-5)            |
| 34333            | 3585 Refrigeration machinery....   | (X)            | (X)   | (5-10)           |                  | 3564 Blowers and fans.....  | (X)            | (X)   | 8,692            |
| 34334            | 3585 Refrigeration machinery....   | (X)            | (X)   | (over 2)         |                  | 3585 Refrigeration machinery....  | (X)            | (X)   | 26,620           |
|                  | 3621 Household cooking equipment   | (X)            | (X)   | 4,529            |                  | 3639 Household appliances, n.e.c.   | (X)            | (X)   | 13,248           |
|                  |  |                |   |                  |                  | 3731 Ship building and repairing  | (X)            | (X)   | (over 2)         |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                 |                  |                  |
|--------------|---|-----------------|--|-----------------|------------------|------------------|
|              |   |                 | 1963   |                 | 1958             |                  |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity         | Value (\$1,000)  |
| 3431- --     | METAL PLUMBING FIXTURES, TOTAL <sup>1</sup> .....   |                 | (X)  | 203,517         | (X)              | 180,006          |
|              | Enameled iron and metal plumbing fixtures:  |                 |  |                 |                  |                  |
| 34310 11     | As reported in the census of manufactures <sup>2</sup> .....  |                 | (X)  | 195,472         | (X)              | 168,259          |
|              | As reported on quarterly Form M34E.....   |                 | (X)  | 202,272         | (X)              | 180,153          |
| 34310 02     | Drinking fountains (cast iron and other metals, concrete and composition).....  | 1,000 units...  | 42   | (NA)            | 55               | (NA)             |
|              | Lavatories:   |                 |  |                 |                  |                  |
| 34310 04     | Cast iron.....  | ..do.....       | 1,882  | (NA)            | 1,301            | (NA)             |
| 34310 06     | Steel.....  | ..do.....       | 637  | (NA)            | 271              | (NA)             |
| 34310 07     | Urinals (cast iron, other metals and glazed earthenware).....   | ..do.....       | 12   | (NA)            | (NA)             | (NA)             |
|              | Kitchen sinks:  |                 |  |                 |                  |                  |
| 34310 08     | Cast iron.....  | ..do.....       | 744  | (NA)            | 818              | (NA)             |
|              | Steel:  |                 |  |                 |                  |                  |
| 34310 10     | Porcelain enameled.....   | ..do.....       | 1,800  | (NA)            | 979              | (NA)             |
| 34310 12     | Stainless.....  | ..do.....       | 924  | (NA)            | 332              | (NA)             |
| 34310 14     | Other metals, vitreous china, and glazed earthenware.....   | ..do.....       | 3  | (NA)            | 2                | (NA)             |
| 34310 16     | Wash sinks (cast iron, steel, aluminum, concrete, and composition).....   | ..do.....       | 19   | (NA)            | 24               | (NA)             |
|              | Service sinks:  |                 |  |                 |                  |                  |
| 34310 17     | Cast iron.....  | ..do.....       | 100  | (NA)            | 84               | (NA)             |
| 34310 19     | Other metals, vitreous china, and glazed earthenware.....   | ..do.....       | 22   | (NA)            | 20               | (NA)             |
|              | Sink and laundry tray combinations:   |                 |  |                 |                  |                  |
| 34310 21     | Cast iron.....  | ..do.....       | 43   | (NA)            | 57               | (NA)             |
| 34310 23     | Steel.....  | ..do.....       | 9  | (NA)            | 25               | (NA)             |
| 34310 24     | Laundry trays (vitreous china, cast iron, steel, and glazed earthenware).....   | ..do.....       | 53   | (NA)            | 77               | (NA)             |
|              | Bathtubs:   |                 |  |                 |                  |                  |
| 34310 25     | Cast iron.....  | ..do.....       | 1,588  | (NA)            | 1,464            | (NA)             |
| 34310 27     | Steel.....  | ..do.....       | 1,017  | (NA)            | 697              | (NA)             |
| 34310 28     | Shower receptors, sold separately (steel, other metals, concrete and composition).....                                  | ..do.....       | 15   | (NA)            | 12               | (NA)             |
|              | Showerstalls, including receptors:  |                 |  |                 |                  |                  |
| 34310 29     | Steel.....  | ..do.....       | 176  | (NA)            | 179              | (NA)             |
| 34310 31     | Aluminum, Monel, and other metal, concrete, and composition.....  | ..do.....       |  |                 | 2                | (NA)             |
| 34310 98     | Other metal plumbing fixtures.....  |                 | (X)  | 8,045           | (X)              | 11,747           |
| 32610 11     | VITREOUS AND SEMIVITREOUS (EARTHENWARE) PLUMBING FIXTURES   |                 |  |                 |                  |                  |
|              | Reported in the census of manufactures.....   |                 | (NA)   | 138,174         | (NA)             | 119,226          |
|              | Reported on quarterly Form M34E <sup>3</sup> .....  |                 | (NA)   | 4144,557        | (NA)             | 4124,522         |
|              | Drinking fountains.....   | Units.....      | 50,978   | (NA)            | 68,978           | (NA)             |
|              | Lavatories.....   | ..do.....       | 5,007,332                                      | (NA)            | 2,179,706        | (NA)             |
|              | Water closet bowls:   |                 |  |                 |                  |                  |
|              | Syphon jets.....  | ..do.....       | 1,022,291                                      | (NA)            | 484,436          | (NA)             |
|              | Washdown.....   | ..do.....       | 1,662,971                                      | (NA)            | 1,813,522        | (NA)             |
|              | Reverse trap.....   | ..do.....       | 2,734,725                                      | (NA)            | 1,938,405        | (NA)             |
|              | Flush tanks.....  | ..do.....       | 4,600,563                                      | (NA)            | 3,639,123        | (NA)             |
|              | Urinals.....  | ..do.....       | 191,926  | (NA)            | 157,186          | (NA)             |
| 3432- --     | PLUMBING FIXTURE FITTINGS AND TRIM (BRASS GOODS), TOTAL.....  |                 | (X)  | 329,575         | (X)              | 259,485          |
|              | Bath and shower fittings:   |                 |  |                 |                  |                  |
| 34320 01     | Single control bath and shower fittings.....  | 1,000 units...  | 632  | 7,477           | 5,125            | 34,251           |
|              | Other than single control fittings:   |                 |  |                 |                  |                  |
| 34320 03     | Bathtub fillers.....  | ..do.....       | 1,416  | 4,988           |                  |                  |
| 34320 05     | Bathtub and shower combinations.....  | ..do.....       | 2,022  | 16,400          |                  |                  |
| 34320 07     | Shower fittings (with shower heads).....  | ..do.....       | 953  | 6,419           |                  |                  |
| 34320 18     | Bath drains and overflows.....  | ..do.....       | 3,152  | 12,077          | 2,764            | 10,858           |
| 34320 19     | Other bath and shower fittings, including single bath faucets, shower heads and pop-up drains sold separately, etc..... | ..do.....       | 3,746  | 9,451           | ( <sup>5</sup> ) | ( <sup>5</sup> ) |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure | Total shipments including interplant transfers |                 |                      |                     |
|--------------|--|-----------------|--|-----------------|----------------------|---------------------|
|              |  |                 | 1963   |                 | 1958                 |                     |
|              |  |                 | Quantity                                       | Value (\$1,000) | Quantity             | Value (\$1,000)     |
| 3432- --     | PLUMBING FIXTURE FITTINGS AND TRIM(BRASS GOODS)—Continued  |                 |  |                 |                      |                     |
|              | Laboratory fittings:   |                 |  |                 |                      |                     |
|              | Combination 4" center-set fittings (with or without pop-up drains):                                    |                 |  |                 |                      |                     |
| 34320 20     | Single control type.....   | 1,000 units...  | 792  | 8,432           | } 3,113              | 18,247              |
| 34320 22     | Other type.....  | ..do.....       | 2,629  | 14,983          |                      |                     |
| 34320 23     | Other combination fittings (with or without pop-up drains).....  | ..do.....       | 1,824  | 12,725          | 1,316                | 11,386              |
| 34320 27     | Single lavatory faucets (compression).....   | ..do.....       | 1,484  | 2,861           | 2,837                | 4,647               |
| 34320 29     | Other lavatory fittings, including pop-up drains sold separately                                       | ..do.....       | 2,630  | 4,880           | ( <sup>5</sup> )     | ( <sup>5</sup> )    |
|              | Sink fittings:   |                 |  |                 |                      |                     |
|              | Deck-type combination sink faucets:  |                 |  |                 |                      |                     |
| 34320 30     | Single control type.....   | ..do.....       | 1,296  | 15,507          | } 3,386              | 25,957              |
| 34320 32     | Other type.....  | ..do.....       | 3,170  | 19,484          |                      |                     |
| 34320 33     | Other combination sink faucets.....  | ..do.....       | 1,336  | 7,900           | 1,179                | 7,274               |
| 34320 35     | Single sink faucets.....   | ..do.....       | 2,327  | 2,340           | 2,747                | 3,603               |
| 34320 39     | Other sink fittings, including sink strainers sold separately...                                       | ..do.....       | 8,330  | 9,648           | ( <sup>5</sup> )     | ( <sup>3</sup> )    |
|              | Miscellaneous items:   |                 |  |                 |                      |                     |
| 34320 47     | Compression stops, including those with drains.....  | ..do.....       | 14,029   | 9,957           | 14,056               | 8,360               |
| 34320 48     | Sediment, lawn, hose bibb and sill faucets.....  | ..do.....       | 13,659   | 10,297          | ( <sup>5</sup> )     | ( <sup>5</sup> )    |
| 34320 44     | Double laundry-tray faucets.....   | ..do.....       | 604  | 1,991           | 632                  | 2,253               |
| 34320 45     | P-traps.....   | ..do.....       | 7,866  | 9,956           | 5,673                | 7,606               |
| 34320 46     | S-traps.....   | ..do.....       | 2,673  | 4,407           | 1,539                | 2,636               |
| 34320 51     | Lawn hose nozzles and lawn sprinklers.....   | } (X)           | (X)  | 26,556          | (X)                  | <sup>5</sup> 90,771 |
| 34320 53     | Water closet tank flushing controls.....   |                 |  | 20,007          |                      |                     |
| 34320 98     | Other miscellaneous items.....   |                 |  | 70,075          |                      |                     |
| 34320 00     | Plumbing fixture fittings and trim, n.s.k.....   |                 | (X)  | 20,757          | (X)                  | 31,636              |
| 3433- --     | HEATING EQUIPMENT, EXCEPT ELECTRIC, TOTAL.....   |                 | (X)  | 893,230         | (X)                  | 836,974             |
| 34331 --     | Oil burners, residential, commercial and industrial (sold separately), except parts.....               |                 | (X)  | 41,978          | (X)                  | 46,601              |
| 34331 10     | Reported in the census of manufactures.....  |                 | (X)  | 36,808          | (X)                  | 39,835              |
|              | Reported on Annual Form MA-34N.....  | Units.....      | <sup>6</sup> 423,566                           | 34,667          | <sup>6</sup> 414,658 | 37,227              |
|              | Residential (sold separately):   |                 |  |                 |                      |                     |
| 34331 13     | High-pressure atomizing.....   | ..do.....       | 369,703  | 18,930          | 365,323              | 20,747              |
| 34331 11     | Low-pressure atomizing.....  | ..do.....       | } 10,778                                       | 720             | 12,820               | 1,089               |
| 34331 15     | Pot natural draft vaporizing.....  | ..do.....       |  |                 |                      |                     |
| 34331 17     | Pot mechanical draft vaporizing.....   | ..do.....       |  |                 |                      |                     |
| 34331 19     | Rotary (atomizing and vaporizing).....   | ..do.....       | 1,483  | 194             | 1,885                | 220                 |
|              | Commercial and industrial (sold separately): <sup>7</sup>  |                 |  |                 |                      |                     |
| 34331 25     | Low-pressure atomizing.....  | ..do.....       | 20,439   | 4,960           | 12,059               | 2,951               |
| 34331 27     | High-pressure atomizing.....   | ..do.....       | 17,066   | 5,334           | 13,619               | 4,300               |
| 34331 29     | Rotary atomizing.....  | ..do.....       | 4,097  | 4,529           | 6,565                | 7,827               |
|              | Furnace-burner units:  |                 |  |                 |                      |                     |
|              | Residential:   |                 |  |                 |                      |                     |
| 34331 51     | High-pressure atomizing.....   | ..do.....       | 73,975   | (X)             | 131,014              | (X)                 |
| 34331 59     | All other.....   | ..do.....       | 2,687  | (X)             | 13,862               | (X)                 |
| 34331 65     | Commercial and industrial.....   |                 | (D)  | (X)             | (D)                  | (X)                 |
|              | Boiler-burner units:   |                 |  |                 |                      |                     |
|              | Residential:   |                 |  |                 |                      |                     |
| 34331 31     | High-pressure atomizing.....   | Units.....      | 49,746   | (X)             | 48,568               | (X)                 |
| 34331 39     | All other.....   | ..do.....       | 10,065   | (X)             | 14,121               | (X)                 |
| 34331 45     | Commercial and industrial.....   | ..do.....       | 3,188  | (X)             | 2,665                | (X)                 |
| 34331 71     | Oil burners, range type (sleeve type and pot type for use in water heaters, stoves, ranges, etc.)..... |                 | (NA)   | 2,431           | (NA)                 | 2,136               |
| 34331 00     | Oil burners, n.s.k.....  |                 | (X)  | 2,757           | (X)                  | 4,630               |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure              | Total shipments including interplant transfers |                    |                  |                    |
|--------------|---|------------------------------|--|--------------------|------------------|--------------------|
|              |   |                              | 1963   |                    | 1958             |                    |
|              |   |                              | Quantity                                       | Value (\$1,000)    | Quantity         | Value (\$1,000)    |
| 3433- --     | HEATING EQUIPMENT, EXCEPT ELECTRIC—Continued  |                              |  |                    |                  |                    |
| 34332 --     | Warm air furnaces (except floor and wall), except parts:<br>Reported in the census of manufactures..... | Units.....                   | (X)<br>1,384,459                               | 204,478<br>197,510 | (X)<br>1,234,685 | 232,530<br>224,244 |
|              | Reported on Annual Form MA-34N.....   |                              |  |                    |                  |                    |
|              | Forced air type (cast iron and steel):<br>Solid fuel (coal, coke, and wood):                            |                              |  |                    |                  |                    |
| 34332 11, 21 | 150,000 BTU bonnet output and under.....  | ...do.....                   | 11,380   | 2,856              | 13,758           | 3,862              |
| 34332 12, 22 | Over 150,000 BTU bonnet output.....   | ...do.....                   | 867  | 417                |                  |                    |
|              | Oil:  |                              |  |                    |                  |                    |
| 34332 13, 23 | 150,000 BTU bonnet output and under.....  | ...do.....                   | 240,633  | 47,565             | 328,959          | 78,239             |
| 34332 14, 24 | Over 150,000 BTU bonnet output.....   | ...do.....                   | 18,362   | 8,275              |                  |                    |
|              | Gas:  |                              |  |                    |                  |                    |
| 34332 15, 25 | 150,000 BTU bonnet output and under.....  | ...do.....                   | 1,067,896                                      | 123,242            | 832,520          | 133,161            |
| 34332 16, 26 | Over 150,000 BTU bonnet output.....   | ...do.....                   | 25,437   | 12,212             |                  |                    |
|              | Gravity air-flow type (cast iron and steel):  |                              |  |                    |                  |                    |
| 34332 31     | Solid fuel.....   | ...do.....                   | 9,517  | 1,857              | 26,467           | 4,994              |
| 34332 35     | Oil.....  | ...do.....                   | 204  | 43                 | 2,455            | 635                |
| 34332 37     | Gas.....  | ...do.....                   | 10,163   | 1,041              | 30,526           | 3,353              |
| 34333 --     | Cast iron heating boilers, radiators, and convectors, except parts                                      |                              | (X)  | 138,852            | (X)              | 121,491            |
|              | Cast iron boilers:  |                              |  |                    |                  |                    |
| 34333 20     | Reported on Annual Form MA-34N.....   | 1,000 lbs.....               | 188,497  | 73,741             | 215,763          | 63,560             |
|              | Reported in the census of manufacturers.....  | ...do.....                   | 188,497  | 73,741             | 196,455          | 58,624             |
| 34333 11     | Oil.....  | ...do.....                   | 63,687   | 22,725             | 93,112           | 24,019             |
| 34333 13     | Gas.....  | ...do.....                   | 100,495  | 42,820             | 84,306           | 29,098             |
| 34333 15     | Solid fuel.....   | ...do.....                   | 24,315   | 8,196              | 19,037           | 5,507              |
|              | Radiators and convectors:   |                              |  |                    |                  |                    |
|              | Cast iron:  |                              |  |                    |                  |                    |
| 34333 30     | Reported in the census of manufacturers.....  |                              | (X)  | 12,551             | (NA)             | 18,156             |
| 34333 50     | Reported on Annual Form MA-34N.....   | 1,000 sq. ft. of radiation.. | 15,925   | 12,469             | 22,350           | 16,754             |
| 34333 81     | Steel, residential and industrial.....  | ...do.....                   | 19,700   | 7,820              | 17,734           | 8,601              |
|              | Aluminum:   |                              |  |                    |                  |                    |
| 34333 72     | Residential.....  | ...do.....                   | 63,498   | 22,674             | (NA)             | 31,569             |
| 34333 74     | Industrial and special types.....   | ...do.....                   | (NA)   | 17,127             |                  |                    |
| 34333 79     | Other nonferrous metal.....   | ...do.....                   | (X)  | 4,939              | (X)              | 4,541              |
| 34333 00     | Heating boilers, radiators, and convectors, n.s.k.....  |                              |  |                    |                  |                    |
| 34334 --     | Domestic heating stoves (except electric), except parts:<br>Reported in the census of manufactures..... | Units.....                   | (X)<br>2,306,899                               | 79,122<br>76,068   | (X)<br>2,604,360 | 69,774<br>73,782   |
|              | Reported on Annual Form MA-34N.....   |                              |  |                    |                  |                    |
|              | Gas:  |                              |  |                    |                  |                    |
| 34334 11     | Vented circulators.....   | ...do.....                   | 410,219  | 28,116             | 436,535          | 25,793             |
| 34334 13     | Unvented circulators.....   | ...do.....                   | 667,448  | 8,661              | 711,499          | 10,280             |
| 34334 15     | Radiants.....   | ...do.....                   | 184,468  | 2,425              | 235,899          | 2,771              |
| 34334 17     | All other (including laundry stoves).....   | ...do.....                   | 82,483   | 1,556              | 101,035          | 797                |
| 34334 27     | Wood (sheet-metal airtight type).....   | ...do.....                   | 279,497  | 1,437              | 342,140          | 2,160              |
|              | Coal and wood (other than sheet-metal airtight types):  |                              |  |                    |                  |                    |
| 34334 31     | Circulators (standard and magazine types).....  | ...do.....                   | 78,969   | 4,844              | 80,077           | 4,543              |
| 34334 33     | Magazine radiants.....  | ...do.....                   | 60,994   | 1,956              | 62,346           | 2,236              |
| 34334 35     | Oaks and hot blasts.....  | ...do.....                   | 21,473   | 435                | 23,872           | 501                |
| 34334 37     | Laundry stoves (without cored fire pots).....   | ...do.....                   | 34,306   | 410                | 39,905           | 459                |
| 34334 39     | All other (including kitchen heaters, caboose, schoolroom, woodbox, etc.).....                          | ...do.....                   | 73,996   | 1,903              | 104,318          | 2,159              |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                 |           |                 |                  |
|--------------|---|-----------------|--|-----------------|-----------|-----------------|------------------|
|              |   |                 | 1963   |                 | 1958      |                 |                  |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity  | Value (\$1,000) |                  |
| 3433- --     | HEATING EQUIPMENT, EXCEPT ELECTRIC—Continued  |                 |  |                 |           |                 |                  |
|              | Kerosene, gasoline, and fuel oil:   |                 |  |                 |           |                 |                  |
| 34334 41     | Flue-connected circulators and radiant circulators with vaporizing pot-type burners.....                            | Units.....      | } 220,738                                      | 22,261          | } 193,701 | 59,515          | 14,412           |
| 34334 43     | Flue-connected radiant heaters (without casing) and trailer heaters, equipped with vaporizing pot-type burners..... | ..do.....       |  |                 |           |                 |                  |
| 34334 45     | Flue-connected heater equipped with sleeve burner.....  | ..do.....       |  |                 |           |                 |                  |
| 34334 47     | Unvented portable kerosene heaters.....   | ..do.....       | 192,308  | 2,064           | 213,518   | 2,506           |                  |
| 34335 --     | Steel heating boilers (except electric), except parts.....  | .....           | (X)  | 70,269          | (X)       |                 | 62,826           |
|              | Steel heating boilers (15p.s.i. steam working pressure and under, and all hot water boilers):                       |                 |  |                 |           |                 |                  |
| 34335 12     | 294 sq. ft. of heating surface or less.....   | Units.....      | 114,275  | 36,910          | 77,476    |                 | 28,384           |
|              | Over 294 sq. ft. of heating surface:  |                 |  |                 |           |                 |                  |
| 34335 21     | Horizontal fire box.....  | ..do.....       | 1,621  | 7,143           | } 9,063   | 3,797           | 14,711           |
| 34335 31     | Scotch type.....  | ..do.....       | 2,856  | 16,144          |           |                 |                  |
| 34335 43     | Other.....  | ..do.....       | (NA)   | 7,853           |           |                 |                  |
| 34335 00     | Steel heating boilers, n.s.k.....   | .....           | (X)  | 2,214           | (X)       |                 | 1,768            |
| 34336 --     | Other heating equipment, except electric, including parts.....  | .....           | (X)  | 317,330         | (X)       |                 | 268,037          |
|              | Gas burners (for furnaces, boilers, water heaters, etc.):   |                 |  |                 |           |                 |                  |
| 34336 12     | Residential, commercial and industrial, sold separately (except gas conversion):                                    |                 |  |                 |           |                 |                  |
|              | Quantity reported.....  | Units.....      | 69,903   | 11,194          | } (X)     |                 | 9,055            |
|              | Quantity not reported.....  | .....           | (X)  | 3,706           |           |                 |                  |
| 34336 14     | Gas conversion burners, residential, commercial, and industrial.....  | Units.....      | 105,913  | 10,197          | 135,365   |                 | 12,628           |
| 34336 18     | Parts and attachments for gas burners (sold separately).....  | .....           | (X)  | 9,106           | (X)       |                 | 4,405            |
|              | Floor and wall furnaces:  |                 |  |                 |           |                 |                  |
| 34336 19     | Reported in the census of manufactures.....   | .....           | (X)  | 36,418          | (X)       |                 | 28,963           |
|              | Reported on Annual Form MA-34N.....   | Units.....      | 525,994  | 34,242          | 494,505   |                 | 32,306           |
| 34336 21     | Oil floor furnaces.....   | ..do.....       | 10,544   | 1,522           | 15,828    |                 | 1,739            |
| 34336 23     | Gas floor furnaces.....   | ..do.....       | 81,030   | 5,400           | 98,541    |                 | 7,074            |
| 34336 25     | Oil wall furnaces.....  | ..do.....       | 13,422   | 1,320           | 24,681    |                 | 2,599            |
| 34336 27     | Gas wall furnaces.....  | ..do.....       | 420,998  | 26,000          | 355,455   |                 | 20,894           |
|              | Unit heaters:   |                 |  |                 |           |                 |                  |
|              | Gas-fired:  |                 |  |                 |           |                 |                  |
| 34336 33     | Reported in the census of manufactures.....   | ..do.....       | (X)  | 20,969          | (X)       |                 | 847,912          |
|              | Reported on Annual Form MA-34N.....   | Units.....      | 139,566  | 19,955          | (NA)      |                 | 20,570           |
| 34336 32     | Centrifugal fan type.....   | ..do.....       | 7,671  | 1,585           | (NA)      |                 | 4,153            |
| 34336 37     | Propeller fan type.....   | ..do.....       | 131,895  | 18,370          | (NA)      |                 | 16,417           |
|              | Steam or hot water heating elements:  |                 |  |                 |           |                 |                  |
| 34336 34     | Reported in the census of manufactures.....   | .....           | (X)  | 26,088          | (X)       |                 | ( <sup>8</sup> ) |
|              | Reported on quarterly Form M35H.....  | .....           | (X)  | 26,009          | (X)       |                 | 23,137           |
| 34336 31     | Centrifugal fan type.....   | .....           | (X)  | 13,747          | (X)       |                 | 11,746           |
| 34336 36     | Propeller fan type.....   | .....           | (X)  | 12,262          | (X)       |                 | 11,391           |
| 34336 35     | Heavy-duty forced warm air type (over 400,000 BTU/hr.).....   | Units.....      | (NA)   | 2,677           | (NA)      |                 | (NA)             |
|              | Duct furnaces:  |                 |  |                 |           |                 |                  |
| 34336 39     | Reported in the census of manufactures.....   | .....           | (X)  | 6,044           | (X)       |                 | (NA)             |
|              | Reported on Annual Form MA-34N.....   | Units.....      | 32,794   | 5,871           | (NA)      |                 | (NA)             |
|              | Heat transfer coils:  |                 |  |                 |           |                 |                  |
| 34336 40     | Reported in the census of manufactures.....   | .....           | (X)  | 9,736           | (X)       |                 | 8,075            |
|              | Reported on quarterly Form M35H.....  | .....           | (X)  | 9,250           | (X)       |                 | 8,437            |
| 34336 41     | Copper or aluminum.....   | .....           | (X)  | 7,857           | (X)       |                 | 8,160            |
| 34336 42     | All other.....  | .....           | (X)  | 1,393           | (X)       |                 | 277              |
|              | Range boilers, expansion tanks and hot water storage tanks:   |                 |  |                 |           |                 |                  |
| 34336 52     | Reported in the census of manufactures.....   | .....           | (X)  | 9,015           | (X)       |                 | 9,462            |
|              | Reported on Annual Form MA-34N.....   | Units.....      | 275,861  | 8,838           | 322,722   |                 | 9,430            |
| 34336 51     | Range boilers.....  | ..do.....       | 33,130   | 804             | } (NA)    |                 | 9,430            |
| 34336 53     | Expansion tanks (including basement tanks).....   | ..do.....       | 207,912  | 2,622           |           |                 |                  |
| 34336 55     | Hot water storage tanks.....  | ..do.....       | 34,819   | 5,412           |           |                 |                  |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                 |               |                      |
|--------------|---|-----------------|--|-----------------|---------------|----------------------|
|              |   |                 | 1963   |                 | 1958          |                      |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity      | Value (\$1,000)      |
| 3433- --     | HEATING EQUIPMENT, EXCEPT ELECTRIC—Continued  |                 |  |                 |               |                      |
| 34336 --     | Other heating equipment, except electric, including parts—Continued   |                 |  |                 |               |                      |
|              | Mechanical stokers:   |                 |  |                 |               |                      |
| 34336 54     | Reported in the census of manufactures.....   | Units.....      | (X)<br>8,210                                   | 9,293<br>9,547  | (X)<br>16,005 | 9,328<br>(NA)        |
|              | Reported on Annual Form MA-34N.....   |                 |  |                 |               |                      |
| 34336 56     | Class 1 (capacity under 61 pounds of coal per hour):  |                 |  |                 |               |                      |
|              | Bituminous.....   | ..do.....       | 2,317  | 483             | 4,797         | (NA)                 |
|              | Anthracite:   |                 |  |                 |               |                      |
| 34336 57     | Conversion stokers <sup>9</sup> .....   | ..do.....       | 118  | 42              | 626           | (NA)                 |
| 34336 62     | Integral units <sup>10</sup> .....  | ..do.....       | 4,121  | 2,470           | 7,357         | (NA)                 |
|              | Class 2 (capacity 61 to 100 pounds of coal per hour):   |                 |  |                 |               |                      |
| 34336 63     | Bituminous.....   | ..do.....       | 409  | 159             | 766           | (NA)                 |
| 34336 64     | Anthracite.....   | ..do.....       | 63   | 49              | 198           | (NA)                 |
| 34336 65     | Class 3 (capacity 100 to 300 pounds of coal per hour).....  | ..do.....       | 669  | 452             | 1,346         | (NA)                 |
| 34336 66     | Class 4 (capacity 301 to 1,200 pounds of coal per hour).....  | ..do.....       | 309  | 387             | 679           | (NA)                 |
|              | Class 5 (capacity 1,201 pounds of coal per hour and over):  |                 |  |                 |               |                      |
| 34336 67     | Installed under fire-tube boilers.....  | ..do.....       | 29   | 201             | 66            | (NA)                 |
| 34336 68     | Installed under water-tube boilers.....   | ..do.....       | 175  | 5,304           | 170           | (NA)                 |
|              | Parts for unit heaters and unit ventilators:  |                 |  |                 |               |                      |
| 34336 59     | Reported in the census of manufactures.....   | .....           | (X)  | 2,252           | (X)           | ( <sup>11</sup> )    |
|              | Reported on quarterly Form M35H.....  | .....           | (X)  | 2,048           | (X)           | (NA)                 |
|              | Unit ventilators:   |                 |  |                 |               |                      |
| 34336 60     | Reported in the census of manufactures.....   | .....           | (X)  | 27,261          | (X)           | 29,903               |
|              | Reported on quarterly Form M35H.....  | .....           | (X)  | 25,984          | (X)           | 28,879               |
| 34336 61     | Tanks for water heaters (sold separately).....  | Units.....      | 250,381  | 5,385           | 779,429       | 15,413               |
|              | Parts and attachments for heating equipment (sold separately):  |                 |  |                 |               |                      |
| 34336 73     | For warm air furnaces.....  | .....           | (X)  | 17,585          | (X)           | 11,915               |
| 34336 74     | For cast iron and steel heating boilers.....  | .....           | (X)  | 15,512          | (X)           | 11,037               |
| 34336 83     | For mechanical stokers.....   | .....           | (X)  | 3,045           | (X)           | 5,154                |
| 34336 85     | For oil burners.....  | .....           | (X)  | 14,565          | (X)           | 9,403                |
| 34336 98     | Other heating equipment, except electric (including incinerators, solar heaters, and circulating fireplace heaters) and other parts for heating equipment, except electric (sold separately)..... | .....           | (X)  | 60,367          | (X)           | <sup>11</sup> 34,991 |
| 34336 00     | Other heating equipment, n.s.k.....   | .....           | (X)  | 16,915          | (X)           | 20,390               |
| 34330 00     | Heating equipment, n.s.k.....   | .....           | (X)  | 41,201          | (X)           | 35,715               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k Not specified by kind.

<sup>1</sup>The quantity data for plumbing fixtures were obtained from Census Quarterly Survey M34E. In this survey it is necessary to combine certain metal fixtures with fixtures made of other materials such as vitreous china, concrete, etc. Accordingly the quantity data do not relate exactly to the value figures shown for enameled iron and metal plumbing fixtures.

<sup>2</sup>Differs from value of shipments of metal plumbing fixtures reported in the Census Quarterly Survey due to different methods of reporting values in the two surveys.

<sup>3</sup>The quantity data for vitreous china plumbing fixtures were obtained from the Census Quarterly Survey M34E. No separate quantity data for vitreous and semivitreous sinks, laundry trays, and other plumbing fixtures are available since these items were combined, in the quarterly survey, with similar items made of other materials.

<sup>4</sup>Represents vitreous china only. In addition, shipments of \$2,398 thousand and \$2,236 thousand were reported for 1963 and 1958, respectively, for plumbing fixtures made of glazed earthenware, concrete, and composition.

<sup>5</sup>For 1958, product codes 34320, 19, 29, 39, and 48 are included with product code 34320 98.

<sup>6</sup>Excludes furnace-burner and boiler-burner units, product codes 3433151, 59, 65, 31, 39, and 45. The total number of oil burners including such units is 563,227 in 1963 and 624,888 in 1958.

<sup>7</sup>Commercial and industrial burners are those with consumption rates of 6 gallon per hour or more.

<sup>8</sup>In 1958, the value of steam or hot water heating elements were included with the value for gas-fired unit heaters.

<sup>9</sup>Conversion stoker—a conversion stoker is a mechanical stoker which may be installed in any of the common types of furnaces or boilers.

<sup>10</sup>Integral unit—an integral unit consists of a boiler or furnace, an automatic coal-feeding mechanism, accessories, and usually a metal enclosure, the whole assembly having been designed as a complete, compact and coordinated heating unit.

<sup>11</sup>Parts for unit heaters and unit ventilators are included with other heating equipment, except electric, and parts for other heating equipment, except electric, code 3433698 for 1958.



TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year   | Indexes (1954 = 100) |            |
|--------------|--|----------------------|------------|
|              |  | Production           | Unit value |
| 343--        | Plumbing and heating, except electric.....1963..   | 129                  | 96         |
|              | 1958..   | 107                  | 103        |
| 3431-        | Metal plumbing fixtures.....1963..   | 136                  | 72         |
|              | 1958..   | 104                  | 83         |
| 3432-        | Plumbing fixture fittings and trim (brass goods)...1963..                                      | 167                  | 93         |
|              | 1958..   | 123                  | 99         |
| 3433-        | Heating equipment, except electric <sup>1</sup> .....1963..                                    | 116                  | 105        |
|              | 1958..   | 103                  | 110        |
| 34331        | Oil burners, residential, commercial and industrial (sold separately), except parts.....1963.. | 89                   | 86         |
|              | 1958..   | 91                   | 93         |
| 34332        | Warm air furnaces (except floor and wall), except parts.....1963..                             | 113                  | 81         |
|              | 1958..   | 105                  | 100        |
| 34333        | Cast iron heating boilers, radiators, and convectors, except parts... ..1963..                 | 98                   | 135        |
|              | 1958..   | 106                  | 115        |
| 34334        | Domestic heating stoves (except electric), except parts.....1963..                             | 84                   | 136        |
|              | 1958..   | 88                   | 120        |
| 34335        | Steel heating boilers (except electric), except parts.... ..1963..                             | 103                  | 129        |
|              | 1958..   | 83                   | 142        |

<sup>1</sup>Adjusted to include product class 34336 (other heating equipment, except electric, including parts) and heating equipment, n.s.k.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class  | 1963    | 1962 <sup>1</sup>    | 1961 <sup>1</sup>    | 1960 <sup>1</sup>    | 1959 <sup>1</sup>    | 1958    | 1954    | 1947    |
|-------|--|---------|----------------------|----------------------|----------------------|----------------------|---------|---------|---------|
| 34310 | Metal plumbing fixtures.....   | 203,517 | 193,121              | 181,053              | 184,465              | 204,403              | 180,006 | 207,236 | 126,912 |
| 34320 | Plumbing fixture fittings and trim (brass goods).....                                      | 329,575 | 290,809              | 275,204              | 284,690              | 315,945              | 259,485 | 212,404 | 159,687 |
| 3433- | Heating equipment, except electric.....  | 893,230 | 838,016              | 811,716              | 818,983              | 876,856              | 836,974 | 772,519 | (NA)    |
| 34331 | Oil burners, residential and industrial (sold separately), except parts.....               | 41,978  | (S)                  | (S)                  | 51,293               | 55,345               | 46,601  | 54,805  | 108,643 |
| 34332 | Warm air furnaces (except floor and wall), except parts .....                              | 204,478 | <sup>2</sup> 189,347 | <sup>2</sup> 189,874 | <sup>2</sup> 207,131 | <sup>2</sup> 243,034 | 232,530 | 222,500 | 148,597 |
| 34333 | Cast iron heating boilers, radiators, and convectors, except parts.....                    | 138,852 | 116,854              | 110,662              | 115,095              | 127,367              | 121,491 | 104,210 | 87,730  |
| 34334 | Domestic heating stoves (except electric), except parts.....                               | 79,122  | <sup>2</sup> 64,902  | <sup>2</sup> 63,639  | <sup>2</sup> 66,599  | <sup>2</sup> 79,461  | 69,774  | 70,080  | 146,321 |
| 34335 | Steel heating boilers (15 p.s.i. and under), except parts.....                             | 70,269  | 74,686               | 73,089               | 61,092               | 67,321               | 62,826  | 53,160  | 43,534  |
| 34336 | Other heating equipment (except electric) and parts for nonelectric heating equipment..... | 317,330 | 279,059              | 262,248              | 267,651              | 264,484              | 268,037 | 267,764 | (NA)    |
| 34330 | Heating equipment, except electric, n.s.k..  | 41,201  | (S)                  | (S)                  | (50,122)             | (39,844)             | 35,715  | -       | -       |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Source: Current Industrial Reports Series M34N "Heating and Cooking Equipment."

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area  | Value of shipments |                  | Product class and geographic area   | Value of shipments |                  | Value of shipments  |         |
|--|--------------------|------------------|---|--------------------|------------------|---|---------|
|  | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             | 1963 <sup>1</sup>   | 1958    |
| OIL BURNERS, RESIDENTIAL AND INDUSTRIAL (SOLD SEPARATELY) EXCEPT PARTS (34331) | 1963 <sup>1</sup>  |                  | CAST IRON HEATING BOILERS, RADIATORS, AND CONVECTORS, EXCEPT PARTS (34333)— | 1963 <sup>1</sup>  |                  | STEEL HEATING BOILERS (15 p.s.i. AND UNDER) EXCEPT PARTS (34335)—                             |         |
| United States, total....   | 41,978             |                  | United States, total....  | 138,852            |                  | Continued   |         |
| New England.....   | 4,624              |                  | New England.....  | 15,042             |                  | East North Central.....   | 14,510  |
| Connecticut.....   | 3,378              |                  | Massachusetts.....  | 8,481              |                  | All other divisions.....  | 9,844   |
| Middle Atlantic.....   | 11,732             |                  | Middle Atlantic.....  | 93,923             |                  | California.....   | 6,832   |
| New York.....  | 6,360              |                  | New York.....   | 40,124             |                  | OTHER HEATING EQUIPMENT (EXCEPT ELECTRIC) AND PARTS FOR NONELECTRIC HEATING EQUIPMENT (34336) |         |
| New Jersey.....  | 3,107              |                  | New Jersey.....   | 15,364             |                  | United States, total... 317,330   |         |
| Pennsylvania.....  | 2,265              |                  | Pennsylvania.....   | 38,435             |                  | New England.....  | 11,532  |
| North Central.....   | 20,949             |                  | North Central.....  | 27,442             |                  | Massachusetts.....  | 5,506   |
| Ohio.....  | 7,672              |                  | Indiana.....  | 18,293             |                  | Rhode Island.....   | 2,480   |
| Illinois.....  | 7,420              |                  | South and West.....   | 2,445              |                  | Connecticut.....  | 3,546   |
| South and West.....  | 4,673              |                  | DOMESTIC HEATING STOVES (EXCEPT ELECTRIC), EXCEPT PARTS (34334)             | 1963 <sup>1</sup>  | 1958             | Middle Atlantic.....  | 67,990  |
| California.....  | 3,868              |                  | United States, total... 79,122  | 69,774             |                  | New York.....   | 17,510  |
| WARM AIR FURNACES (EXCEPT FLOOR AND WALL) EXCEPT PARTS (34332)                 | 1963 <sup>1</sup>  | 1958             | East North Central.....   | 31,210             | 31,499           | New Jersey.....   | 12,312  |
| United States, total....   | 204,478            | 232,530          | Ohio.....   | 4,899              | 4,162            | Pennsylvania.....   | 38,168  |
| Northeast.....   | 31,775             | ( <sup>2</sup> ) | Illinois.....   | 16,021             | 17,562           | East North Central.....   | 155,421 |
| New York.....  | 11,963             | 16,261           | West North Central.....   | 16,833             | 7,086            | Ohio.....   | 53,468  |
| East North Central.....  | 113,285            | 121,583          | South Atlantic.....   | 5,778              | 5,869            | Indiana.....  | 19,567  |
| Ohio.....  | 69,435             | 65,556           | Georgia.....  | 2,688              | ( <sup>2</sup> ) | Illinois.....   | 44,232  |
| Indiana.....   | 16,630             | 17,842           | East South Central.....   | 17,465             | 16,922           | Michigan.....   | 10,471  |
| Illinois.....  | 6,177              | 15,040           | Tennessee.....  | 7,411              | 7,699            | Wisconsin.....  | 27,683  |
| Michigan.....  | 12,159             | 13,011           | Alabama.....  | 7,009              | 5,315            | West North Central.....   | 16,576  |
| Wisconsin.....   | 8,884              | 10,134           | All other divisions.....  | 7,836              | ( <sup>2</sup> ) | Minnesota.....  | 4,599   |
| West North Central.....  | 19,513             | 37,272           | STEEL HEATING BOILERS (15 p.s.i. AND UNDER) EXCEPT PARTS (34335)            |                    |                  | Missouri.....   | 2,577   |
| South.....   | 15,673             | 14,257           | United States, total... 70,269  | 62,826             |                  | Kansas.....   | 5,780   |
| West.....  | 24,232             | ( <sup>2</sup> ) | Middle Atlantic.....  | 45,915             | 39,304           | South Atlantic.....   | 5,527   |
| California.....  | 22,942             | 21,428           | New York.....   | 4,371              | 6,632            | East South Central.....   | 16,315  |
|  |                    |                  | New Jersey.....   | 8,843              | 3,636            | Tennessee.....  | 11,757  |
|  |                    |                  | Pennsylvania.....   | 32,701             | 29,036           | West South Central.....   | 13,199  |
|  |                    |                  |   |                    |                  | Texas.....  | 5,646   |
|  |                    |                  |   |                    |                  | Mountain.....   | 2,533   |
|  |                    |                  |   |                    |                  | Utah.....   | 2,046   |
|  |                    |                  |   |                    |                  | Pacific.....  | 28,237  |
|  |                    |                  |   |                    |                  | California.....   | 26,315  |
|  |                    |                  |   |                    |                  |   | 22,192  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 34331, Massachusetts, Indiana, and Wisconsin; 34332, New Jersey, Pennsylvania, Minnesota, Iowa, Missouri, Kansas, Tennessee, Oklahoma, and Texas; 34333, Connecticut, Ohio, and Illinois; 34334, Connecticut, Indiana, Michigan, Wisconsin, Missouri, Kansas, Virginia, West Virginia, Kentucky, and Texas; 34335, Ohio, Indiana, Illinois, and Kentucky; 34336, Iowa, Nebraska, Maryland, Georgia, Kentucky, Alabama, Arkansas, Oklahoma, and Washington.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code  | Material  | Unit of measure            | 1963             |                          | 1958     |                          |
|---|---|----------------------------|------------------|--------------------------|----------|--------------------------|
|   |   |                            | Quantity         | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3431.—METAL PLUMBING FIXTURES        |   |                            |                  |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....                            |                            | (X)              | 77,354                   | (X)      | 73,354                   |
|   | Mill shapes and forms (except castings):  |                            |                  |                          |          |                          |
|   | Carbon steel:   |                            |                  |                          |          |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....            | 897              | 178                      | 405      | 76                       |
| 331012  | Sheet and strip.....  | .....do.....               | 55,738           | 8,681                    | 69,166   | 11,028                   |
| 331013  | Plates.....   | .....do.....               |                  |                          | 899      | 134                      |
| 331019  | All other carbon steel mill shapes and forms.....                                 | .....do.....               | 2,150            | 426                      | 143      | 48                       |
|   | Alloy steel (except stainless):   |                            |                  |                          |          |                          |
| 331021  | Bars and bar shapes.....  | .....do.....               | 1,117            | 148                      |          |                          |
| 331029  | All other alloy steel mill shapes and forms.....                                  | .....do.....               | -                | -                        | 3,299    | 3,954                    |
| 331031  | Stainless steel mill shapes and forms.....  | .....do.....               | 4,774            | 6,458                    |          |                          |
|   | Copper and copper base alloy:   |                            |                  |                          |          |                          |
| 335790  | Insulated wire and cable.....   | 1,000 lbs. copper content. | (D)              | (D)                      | (NA)     | (NA)                     |
| 335102  | Rod, bar, and mechanical wire.....  | 1,000 lbs.....             |                  |                          |          |                          |
| 335123  | Plate, sheet, and strip.....  | .....do.....               | 2,866            | 1,390                    | 3,545    | 1,583                    |
| 335127  | Pipe and tube.....  | .....do.....               |                  |                          |          |                          |
|   | Aluminum and aluminum base alloy:   |                            |                  |                          |          |                          |
| 335202  | Sheet, plate, and foil.....   | .....do.....               | (D)              | (D)                      | 142      | 66                       |
| 335205  | Extruded shapes, rod, pipe, etc.....  | .....do.....               | (D)              | (D)                      |          |                          |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod, etc.).....            | .....do.....               | (D)              | (D)                      | 208      | 149                      |
|   | Primary metals:   |                            |                  |                          |          |                          |
| 331051  | Pig iron.....   | Short tons.....            | 75,799           | 4,765                    | 175,339  | 11,502                   |
| 333401  | Aluminum and aluminum-base alloy refinery shapes, (ingot, slugs, etc.).....       | .....do.....               | (D)              | (D)                      | (NA)     | (NA)                     |
| 333122  | Copper and copper-base alloy refinery shapes.....                                 | .....do.....               | (D)              | (D)                      | (NA)     | (NA)                     |
|   | Scrap (excluding home scrap):   |                            |                  |                          |          |                          |
| 999811  | Iron and steel.....   | .....do.....               | 217,439          | 7,653                    | 112,430  | 4,649                    |
|   | Castings (rough and semi-finished): <sup>1</sup>                                  |                            |                  |                          |          |                          |
| 332011  | Iron (gray and malleable).....  | .....do.....               | 5,123            | 1,655                    | (D)      | (D)                      |
| 332300  | Steel.....  | .....do.....               | (D)              | (D)                      | (NA)     | (NA)                     |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....             | (D)              | (D)                      | (NA)     | (NA)                     |
| 336200  | Copper and copper-base alloy.....   | .....do.....               | (D)              | (D)                      | 126      | 91                       |
| 339100  | Iron and steel forgings.....  | Short tons.....            | (D)              | (D)                      | (NA)     | (NA)                     |
| 970099  | All other materials and components, parts, containers, and supplies consumed..... |                            | (X)              | 42,428                   | (X)      | 36,971                   |
| 976000  | Materials, n.s.k. <sup>2</sup> .....  |                            | (X)              | 3,572                    | (X)      | 3,103                    |
| INDUSTRY 3432.—PLUMBING FITTINGS, BRASS GOODS |   |                            |                  |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....                            |                            | (X)              | 156,923                  | (X)      | 120,065                  |
|   | Mill shapes and forms (except castings):  |                            |                  |                          |          |                          |
|   | Carbon steel:   |                            |                  |                          |          |                          |
| 331012  | Sheet and strip.....  | Short tons.....            | 4,285            | 844                      | 2,471    | 471                      |
| 331013  | Plates.....   | .....do.....               | 1,105            | 190                      |          |                          |
| 331001  | All other carbon steel mill shapes and forms.....                                 | .....do.....               | 8,240            | 2,157                    | 277      | 73                       |
| 331019  |   |                            |                  |                          |          |                          |
|   | Alloy steel (except stainless):   |                            |                  |                          |          |                          |
| 331021  | Bars and bar shapes.....  | .....do.....               |                  |                          |          |                          |
| 331029  | All other alloy steel mill shapes and forms.....                                  | .....do.....               | 346              | 149                      | 49       | 46                       |
| 331031  | Stainless steel mill shapes and forms.....  | .....do.....               | 2,019            | 1,890                    | 783      | 679                      |
|   | Copper and copper base alloy:   |                            |                  |                          |          |                          |
| 335790  | Insulated wire and cable.....   | 1,000 lbs. copper content. | (D)              | (D)                      | (NA)     | (NA)                     |
| 335102  | Rod, bar, and mechanical wire.....  | 1,000 lbs.....             | 47,312           | 21,066                   |          |                          |
| 335123  | Plate, sheet, and strip.....  | .....do.....               | 10,218           | 4,446                    | 55,765   | 22,785                   |
| 335127  | Pipe and tube.....  | .....do.....               | 32,954           | 15,833                   |          |                          |
|   | Aluminum and aluminum base alloy:   |                            |                  |                          |          |                          |
| 335202  | Sheet, plate, and foil.....   | .....do.....               | ( <sup>3</sup> ) | ( <sup>3</sup> )         | 101      | 46                       |
| 335205  | Extruded shapes, rod, bar, etc.....   | .....do.....               | 675              | 405                      |          |                          |
| 335209  | All other aluminum mill shapes and forms (wire, rolled bar, etc.).....            | .....do.....               | 3391             | 3148                     | 434      | 203                      |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material   | Unit of measure | 1963      |                          | 1958      |                          |
|---|--|-----------------|-----------|--------------------------|-----------|--------------------------|
|   |  |                 | Quantity  | Delivered cost (\$1,000) | Quantity  | Delivered cost (\$1,000) |
| INDUSTRY 3432.—PLUMBING FITTINGS, BRASS GOODS—Continued |  |                 |           |                          |           |                          |
| Primary metals:   |  |                 |           |                          |           |                          |
| 331051  | Pig iron.....  | Short tons..... | (D)       | (D)                      | (NA)      | (NA)                     |
| 333401  | Aluminum and aluminum-base alloy refinery shapes.....                                      | ..do.....       | (D)       | (D)                      | (NA)      | (NA)                     |
| 333122  | Copper and copper-base alloy refinery shapes.....  | ..do.....       | 30,480    | 13,671                   | 18,391    | 8,230                    |
| Scrap (excluding home scrap):                           |  |                 |           |                          |           |                          |
| 999811  | Iron and steel.....  | ..do.....       | -         | -                        | 10,297    | 486                      |
| 999808  | Aluminum and aluminum-base alloy.....  | ..do.....       | (D)       | (D)                      | (NA)      | (NA)                     |
| 999812  | Copper and copper-base alloy.....  | ..do.....       | 6,838     | 3,378                    | 14,702    | 6,257                    |
| Castings (rough and semi-finished): <sup>4</sup>        |  |                 |           |                          |           |                          |
| 332011  | Iron (gray and malleable).....   | ..do.....       | 3,993     | 1,074                    | 1,888     | 475                      |
| 332300  | Steel.....   | ..do.....       | (D)       | (D)                      | (NA)      | (NA)                     |
| 336100  | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....  | (D)       | (D)                      | 121       | 117                      |
| 336200  | Copper and copper-base alloy.....  | ..do.....       | 19,390    | 10,116                   | 19,906    | 10,656                   |
| 339100  | Iron and steel forgings.....   | Short tons..... | (D)       | (D)                      | (NA)      | (NA)                     |
| 970099  | All other materials, and components, parts, containers, and supplies consumed.....         | .....           | (X)       | 69,219                   | (X)       | 57,900                   |
| 976000  | Materials, components, parts, containers, and supplies consumed, n.s.k. <sup>2</sup> ..... | .....           | (X)       | 12,337                   | (X)       | 11,641                   |
| INDUSTRY 3433.—NONELECTRIC HEATING EQUIPMENT            |  |                 |           |                          |           |                          |
| Materials, parts, containers, and supplies, total.....  |  |                 | (X)       | 470,096                  | (X)       | 412,955                  |
| Mill shapes and forms (except castings):                |  |                 |           |                          |           |                          |
| Carbon steel:   |  |                 |           |                          |           |                          |
| 331011  | Bars and bar shapes.....   | Short tons..... | 11,301    | 2,031                    | 13,048    | 2,408                    |
| 331012  | Sheet and strip.....   | ..do.....       | 371,613   | 59,292                   | 424,993   | 63,890                   |
| 331013  | Plates.....  | ..do.....       | 49,279    | 6,954                    | 51,122    | 7,474                    |
| 331015  | Structural shapes.....   | ..do.....       | 2,967     | 594                      | 4,136     | 825                      |
| 331017  | Wire and wire products.....  | ..do.....       | 1,726     | 559                      | 1,519     | 420                      |
| 331019  | All other alloy steel mill shapes and forms.....   | ..do.....       | 15,103    | 3,844                    | 9,972     | 2,693                    |
| Alloy steel (except stainless):                         |  |                 |           |                          |           |                          |
| 331021  | Bars and bar shapes.....   | ..do.....       | 663       | 227                      | 440       | 390                      |
| 331029  | All other alloy steel mill shapes and forms.....   | ..do.....       | 7,663     | 2,670                    | 3,701     | 1,719                    |
| 331031  | Stainless steel.....   | ..do.....       | 2,926     | 3,390                    | 2,119     | 2,845                    |
| Copper and copper-base alloy:                           |  |                 |           |                          |           |                          |
| 335728  | Bare wire for electrical conduction.....   | 1,000 lbs.....  | 35        | 31                       | 708       | 420                      |
| 335790  | Insulated wire and cable.....  | 1,000 lbs.....  |           |                          |           |                          |
|   |  | copper content, | 372       | 283                      | 1,077     | 730                      |
| 335102  | Rod, bar, and mechanical wire.....   | 1,000 lbs.....  | 2,537     | 983                      | 13,222    | 7,970                    |
| 335123  | Plate, sheet, and strip.....   | ..do.....       | 1,788     | 1,116                    |           |                          |
| 335127  | Pipe and tube.....   | ..do.....       | 13,408    | 8,574                    |           |                          |
| Aluminum and aluminum-base alloy:                       |  |                 |           |                          |           |                          |
| 335202  | Sheet, plate, and foil.....  | ..do.....       | 16,787    | 6,798                    | 12,523    | 6,048                    |
| 335205  | Extruded shapes, rod, bar, pipe, etc.....  | ..do.....       | 708       | 439                      | 4,720     | 2,317                    |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, etc.).....     | ..do.....       | 757       | 186                      |           |                          |
| Primary metals:   |  |                 |           |                          |           |                          |
| 331051  | Pig iron.....  | Short tons..... | 61,210    | 3,783                    | 86,393    | 5,293                    |
| 999811  | Iron and steel scrap (excluding home scrap).....   | ..do.....       | 101,648   | 3,678                    | 89,140    | 3,686                    |
| Casting (rough and semi-finished): <sup>4</sup>         |  |                 |           |                          |           |                          |
| 332011  | Iron (gray and malleable).....   | ..do.....       | 31,180    | 10,705                   | 43,630    | 13,680                   |
| 332300  | Steel.....   | ..do.....       | 1,208     | 668                      | 7,634     | 2,499                    |
| 336100  | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....  | 3,857     | 2,892                    | 1,374     | 1,040                    |
| 336200  | Copper and copper-base alloy.....  | ..do.....       | 1,651     | 1,226                    | 1,232     | 757                      |
| Electric motors and generators: <sup>5</sup>            |  |                 |           |                          |           |                          |
| 362110  | Timing motors, synchronous and subsynchronous.....   | Number.....     | 718,705   | 8,087                    | 429,920   | 5,030                    |
| 362115  | Other fractional horsepower electric motors.....   | ..do.....       | 1,566,743 | 17,865                   | 1,806,316 | 20,191                   |
| 362120  | Integral horsepower motor and generators.....  | ..do.....       | 24,346    | 1,728                    | 15,293    | 1,284                    |
| Bearings:   |  |                 |           |                          |           |                          |
| 356218  | Ball.....  | .....           | (X)       | 538                      | (X)       | 258                      |
| 356228  | Roller.....  | .....           |           |                          |           |                          |
| 970099  | All other materials and components, parts, containers, and supplies.....                   | .....           | (X)       | 263,606                  | (X)       | 229,596                  |
| 976000  | Materials, components, parts, containers, and supplies consumed, n.s.k. <sup>2</sup> ..... | .....           | (X)       | 57,349                   | (X)       | 29,492                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

Footnotes continued on next page



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

Footnotes for Table 7A-34B--Continued

<sup>1</sup>Data are not available for castings produced and consumed in the same establishment except for iron castings which totaled 187,541 short tons in 1963 and 211,467 short tons in 1958.

<sup>2</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

<sup>3</sup>For 1963, data for aluminum and aluminum-base alloy, sheet, plate, and foil, are included with "All other aluminum mill shapes and forms."

<sup>4</sup>No data are available for castings produced and consumed in the same establishment.

<sup>5</sup>No data are available for 1963 on the quantities of electric motors and generators produced and consumed in the same establishment. In 1958, there were 119,909 units of code 362115, other fractional horsepower electric motors produced and consumed in the same establishment.

TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Metal plumbing fixtures (SIC 3431) | Plumbing fittings, brass goods (SIC 3432) | Heating equipment, except electric (SIC 3433) |
|---|------------------------------------|---|---|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 7,128                              | 3,202                                     | 8,609   |
| Total cost of purchased fuels.....do....  | 4,981                              | 1,318                                     | 4,418   |
| Bituminous coal, lignite, and anthracite:   |                                    |   |   |
| Quantity.....1,000 short tons..   | 35                                 | (S)                                       | 47  |
| Cost.....\$1,000..  | 400                                | (S)                                       | 434   |
| Coke and breeze:  |                                    |   |   |
| Quantity.....1,000 short tons..   | 43                                 | -   | 22  |
| Cost.....\$1,000..  | 1,615                              | -   | 615   |
| Fuel oil (distillate and residual):   |                                    |   |   |
| Quantity.....1,000 barrels of 42 gallons..  | 57                                 | 56  | 299   |
| Cost.....\$1,000..  | 231                                | 196                                       | 1,188   |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |                                    |   |   |
| Quantity.....million cu.ft..  | 4,594                              | 1,240                                     | 2,906   |
| Cost.....\$1,000..  | 2,560                              | 768                                       | 1,920   |
| Other fuels.....do....  | 175                                | 100                                       | 261   |
| Electric energy:  |                                    |   |   |
| Purchased:  |                                    |   |   |
| Quantity.....million kw.-hrs..  | 167                                | 126                                       | 258   |
| Cost.....\$1,000..  | 2,147                              | 1,884                                     | 4,191   |
| Generated less sold.....million kw.-hrs..   | (S)                                | -   | -   |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 132                                | 70  | 213   |
| Prime movers, total.....do....  | 21                                 | 9   | 30  |
| Driving generators.....do....   | 12                                 | (Z)                                       | 3   |
| Not driving generators.....do....   | 9                                  | 9   | 27  |
| Electric motors, total.....do....   | 125                                | 61  | 183   |
| Driven by purchased energy.....do....   | 110                                | 61  | 183   |
| Driven by energy generated at establishment.....do....  | 14                                 | -   | -   |
| Aggregate horsepower per 100 production workers.....  | 1,740                              | 625                                       | 686   |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3431-                          | METAL PLUMBING FIXTURES  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 81                      | 11,011         | 68,162            | 8,833              | 17,501            | 50,373          | 139,859  | 96,196                      | 234,896                      | 5,863                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.  | 61                      | 6,834          | 43,116            | 5,500              | 10,509            | 32,567          | 86,286   | 55,837                      | 140,805                      | 3,384                               |
| 3433-                          | HEATING EQUIPMENT, EXCEPT ELECTRIC   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 648                     | 42,020         | 243,857           | 30,232             | 60,035            | 154,435         | 495,652  | 525,517                     | 1,019,787                    | 17,815                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 507                     | 18,375         | 100,350           | 13,312             | 26,017            | 63,322          | 204,727  | 205,123                     | 412,407                      | 6,886                               |
|                                | 75-89% specialization.....   | 49                      | 7,499          | 44,674            | 5,377              | 10,791            | 29,270          | 88,437   | 86,104                      | 177,052                      | 2,993                               |
| 34331                          | Oil burners, residential and industrial (sold separately), except parts (primary product class of estab.).....           | 48                      | 1,779          | 11,211            | 1,093              | 2,164             | 5,414           | 20,926   | 33,546                      | 54,418                       | 637                                 |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 30                      | 407            | 2,144             | 272                | 528               | 1,227           | 4,310  | 11,018                      | 15,357                       | 106                                 |
|                                | 75-89% specialization.....   | 6                       | 153            | 742               | 111                | 178               | 371             | 1,089  | 3,118                       | 4,172                        | (D)                                 |
| 34332                          | Warm air furnaces (except floor and wall), except parts (primary product class of estab.).....                           | 54                      | 8,596          | 49,136            | 5,936              | 11,542            | 32,208          | 93,623   | 142,655                     | 239,561                      | 2,722                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 16                      | 967            | 5,241             | 762                | 1,466             | 3,831           | 12,149   | 15,837                      | 27,171                       | 224                                 |
|                                | 75-89% specialization.....   | 12                      | 1,162          | 4,700             | 556                | 1,036             | 2,528           | 6,662  | 9,174                       | 16,440                       | 204                                 |
| 34333                          | Cast iron heating stoves (except electric), except parts (primary product class of estab.).....                          | 50                      | 5,882          | 36,269            | 4,575              | 9,208             | 25,829          | 75,878   | 65,648                      | 142,930                      | 3,284                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 35                      | 2,955          | 17,831            | 2,260              | 4,551             | 12,429          | 39,276   | 36,500                      | 75,866                       | 2,376                               |
|                                | 75-89% specialization.....   | 5                       | 721            | 4,162             | 625                | 1,166             | 3,058           | 6,320  | 5,988                       | 12,393                       | 253                                 |
| 34334                          | Domestic heating stoves (except electric), except parts (primary product class of estab.).....                           | 26                      | 5,759          | 30,669            | 4,539              | 9,050             | 20,397          | 62,224   | 63,046                      | 121,071                      | 2,724                               |
| 34335                          | Steel heating boilers (15 p.s.i. and under), except parts (primary product class of estab.).....                         | 39                      | 3,347          | 19,670            | 2,335              | 4,669             | 11,676          | 45,923   | 53,669                      | 98,184                       | 1,220                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 16                      | 671            | 3,766             | 503                | 1,040             | 2,265           | 8,431  | 10,135                      | 18,581                       | 229                                 |
|                                | 75-89% specialization.....   | 8                       | 890            | 5,243             | 654                | 1,283             | 3,483           | 11,441   | 12,424                      | 23,364                       | 200                                 |
| 34336                          | Other heating equipment (except electric) and parts for non-electric heating equipment (primary product class of estab.) | 178                     | 14,380         | 85,615            | 10,059             | 19,996            | 50,637          | 167,344  | 143,218                     | 308,098                      | 4,529                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 109                     | 5,397          | 29,927            | 4,042              | 7,964             | 18,612          | 55,815   | 48,016                      | 103,508                      | 1,637                               |
|                                | 75-89% specialization.....   | 12                      | 1,483          | 8,493             | 1,043              | 2,161             | 5,693           | 16,550   | 12,317                      | 28,496                       | 994                                 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.



TABLE 9. Establishments, Production Workers, and Man-Hours for Selected Metalworking Operations: 1963

| Metalworking operations  | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |        |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|--------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |        |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |        |
| INDUSTRY 3431.—METAL PLUMBING FIXTURES   |                          |   |         |            |                                       |   |         |            |        |
| Ferrous foundry.....   | 12                       | -   | -       | 12         | 1,690                                 | -   | -       | 1,690      |        |
| Nonferrous foundry (except die casting).....   | 1                        | -   | -       | 1          | (D)                                   | -   | -       | (D)        |        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |        |
| Electroplating and other plating.....  | 3                        | -   | 1       | 2          | (D)                                   | -   | (D)     | (D)        |        |
| Galvanizing and other hot dip coating.....   | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |        |
| Heat treating of metals.....   | 2                        | 2   | -       | -          | (D)                                   | (D)                                       | -       | -          |        |
| Automatic screw machine department.....  | 2                        | 1   | 1       | -          | (D)                                   | (D)                                       | (D)     | -          |        |
| Machine shop.....  | 13                       | 2   | 6       | 5          | 316                                   | (D)                                       | (D)     | 273        |        |
| Tool and die shop.....   | 8                        | 6   | 2       | 1          | 29                                    | (D)                                       | (D)     | -          |        |
| Foundry pattern shop.....  | 7                        | 1   | 5       | -          | 95                                    | (D)                                       | (D)     | (D)        |        |
| Plate or structural fabrication.....   | 5                        | -   | 2       | 3          | 219                                   | -   | (D)     | (D)        |        |
| Stamping, blanking and forming of metals.....  | 18                       | 1   | 9       | 8          | 560                                   | (D)                                       | (D)     | 463        |        |
| Painting, lacquering and enameling on metals.....  | 21                       | 6   | 6       | 9          | 1,068                                 | 8   | 63      | 997        |        |
| INDUSTRY 3432.—PLUMBING FITTINGS, BRASS GOODS  |                          |   |         |            |                                       |   |         |            |        |
| Ferrous foundry.....   | 3                        | 1   | 1       | 1          | (D)                                   | (D)                                       | (D)     | (D)        |        |
| Nonferrous foundry (except die casting).....   | 36                       | 7   | 8       | 21         | 1,223                                 | 9   | 111     | 1,103      |        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 3                        | 1   | 2       | -          | 15                                    | (D)                                       | (D)     | -          |        |
| Electroplating and other plating.....  | 45                       | 14  | 19      | 12         | 799                                   | 26  | 210     | 563        |        |
| Galvanizing and other hot dip coating.....   | 2                        | 2   | -       | -          | (D)                                   | (D)                                       | -       | -          |        |
| Heat treating of metals.....   | 12                       | 10  | 2       | -          | 33                                    | (D)                                       | (D)     | -          |        |
| Automatic screw machine department.....  | 27                       | 12  | 9       | 6          | 331                                   | 23  | 93      | 215        |        |
| Machine shop.....  | 76                       | 22  | 30      | 24         | 1,206                                 | 32  | 307     | 867        |        |
| Tool and die shop.....   | 47                       | 27  | 17      | 3          | 276                                   | 50  | 149     | 77         |        |
| Foundry pattern shop.....  | 13                       | 7   | 6       | -          | 72                                    | 12  | 60      | -          |        |
| Plate or structural fabrication.....   | 4                        | 3   | -       | 1          | (D)                                   | (D)                                       | -       | (D)        |        |
| Stamping, blanking and forming of metals.....  | 31                       | 14  | 9       | 8          | 426                                   | 31  | 81      | 314        |        |
| Painting, lacquering and enameling on metals.....  | 13                       | 13  | -       | -          | 20                                    | 20  | -       | -          |        |
| INDUSTRY 3433.—HEATING EQUIPMENT, EXCEPT ELECTRIC  |                          |   |         |            |                                       |   |         |            |        |
| All operations, total.....   | (X)                      | (X)                                       | (X)     | (X)        | 23,301                                | (X)                                       | (X)     | (X)        | 49,355 |
|  |                          |   |         |            |                                       |   |         |            |        |
| Ferrous foundry.....   | 24                       | 3   | 4       | 17         | 1,754                                 | 4   | 51      | 1,699      | 3,243  |
| Nonferrous foundry (except die casting).....   | 4                        | 3   | 1       | -          | 11                                    | (D)                                       | (D)     | -          | 24     |
| Electroplating and other plating.....  | 10                       | 5   | 5       | -          | 37                                    | 5   | 32      | -          | 82     |
| Galvanizing and other hot dip coating.....   | 4                        | 1   | 2       | 1          | 46                                    | (D)                                       | (D)     | (D)        | 34     |
| Heat treating of metals.....   | 8                        | 4   | 4       | -          | 52                                    | 7   | 45      | -          | 59     |
| Automatic screw machine department.....  | 18                       | 7   | 6       | 5          | 250                                   | 14  | 59      | 177        | 517    |
| Machine shop.....  | 142                      | 63  | 59      | 20         | 1,493                                 | 117                                       | 596     | 780        | 3,395  |
| Tool and die shop.....   | 66                       | 37  | 27      | 2          | 383                                   | 67  | (D)     | (D)        | 765    |
| Foundry pattern shop.....  | 27                       | 21  | 5       | 1          | 116                                   | 39  | (D)     | (D)        | 232    |
| Plate or structural fabrication.....   | 71                       | 34  | 24      | 13         | 886                                   | 66  | 233     | 587        | 1,704  |
| Stamping, blanking and forming of metals.....  | 183                      | 56  | 53      | 74         | 4,501                                 | 113                                       | 560     | 3,828      | 9,513  |
| Painting, lacquering and enameling on metals.....  | 209                      | 145                                       | 50      | 14         | 1,208                                 | 265                                       | 504     | 439        | 2,505  |
| Assembly of product.....   | 242                      | 66  | 88      | 88         | 7,674                                 | 142                                       | 933     | 6,599      | 16,486 |
| Shipping department, including packing and crating.....                                  | 232                      | 145                                       | 68      | 19         | 1,394                                 | 268                                       | 668     | 458        | 2,954  |
| All other operations such as maintenance, warehousing, etc.....                          | 171                      | 86  | 40      | 45         | 3,496                                 | 144                                       | 424     | 2,928      | 7,869  |

Footnotes on next page.

TABLE 9. Establishments, Production Workers, and Man-Hours for Selected Metalworking Operations: 1963—Continued

Footnotes for Table 9-34B

Note: Very small establishments were not requested to report their metalworking operations and in some instances a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production worker employment on the last line of the table below.

| Item  | INDUSTRY |         |         |
|---|----------|---------|---------|
|   | 3431     | 3432    | 3433    |
| Total number of establishments in the industry.....   | 81       | 250     | 648     |
| Number of establishments which reported one or more of the specified operations.....                          | 34       | 115     | 305     |
| Percent of industry production workers in these establishments.....   | (85-90)  | (80-85) | (75-80) |
| Number of establishments which reported "none" of the operations apply....                                    | 5        | 12      | (X)     |
| Percent of industry production workers in these establishments.....   | (0-5)    | (0-5)   | (X)     |
| Percent of industry production workers in establishments which completed metalworking operations inquiry..... | (85-90)  | (85-90) | (75-80) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishment.



## FABRICATED STRUCTURAL METAL PRODUCTS

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3441—Fabricated Structural Steel
- 3442—Metal Doors, Sash, Frames, Molding, and Trim
- 3443—Fabricated Plate Work (Boiler Shops)
- 3444—Sheet Metal Work
- 3446—Architectural and Ornamental Metal Work
- 3449—Miscellaneous Metal Work

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3441—FABRICATED STRUCTURAL STEEL

This industry comprises establishments primarily engaged in manufacturing fabricated iron and steel or other metal for structural purposes, for bridges, buildings, and sections for ships, boats, and barges. Establishments primarily engaged in manufacturing metal doors, sash, frames, molding, and trim are classified in industry 3442; and fabrication work done by construction contractors at the site of construction is classified in construction industries. For a detailed list of products of industry 3441, refer to table 6A, product codes 3441121 to 3441398.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Fabricated Structural Steel Industry in 1963 totaled \$1,916 million. This amount included shipments of fabricated structural steel (primary products) valued at \$1,432 million, shipments of other products (secondary products) valued at \$237 million, and miscellaneous receipts (mainly receipts for resales) at \$247 million.

This industry's shipments of fabricated structural steel in 1963 represented 86 percent of its total product shipments. The industry specialization ratio in 1958 was 87 percent. Secondary products shipped by this industry in 1963 included miscellaneous metal building materials (\$57 million) and ornamental and structural metal work (\$31 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 69 percent of the total industry shipments are represented by plants specializing in fabricated structural metal for buildings.

Shipments of fabricated structural steel by this industry in 1963 represented 89 percent of all shipments of these products (\$1,604 million) by all industries. In 1958 the coverage ratio was 91 percent. Other industries shipping fabricated structural steel included industry 3443, Boiler Shops, \$32 million; and industry 3444, Sheet Metal Work, \$12 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product class of industry 3441, other fabricated structural metal, 77 percent.

The production index for the primary products of the industry increased to 119 in 1963 from the 1958 level of 114. The unit value index for 1963 was 120 compared to 126 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3442—METAL DOORS, SASH, FRAMES, MOLDING, AND TRIM

This industry comprises establishments primarily engaged in manufacturing ferrous and nonferrous metal and metal covered doors and sash, window and door frames and screens, molding, and trim. For a detailed list of products of industry 3442, refer to table 6A, product codes 3442113 to 3442551.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Metal Doors, Sash and Trim Industry in 1963 totaled \$1,254 million. This amount included shipments of metal doors, sash and trim (primary products), valued at \$1,046 million, shipments of other products (secondary products) valued at \$136 million, and miscellaneous receipts (mainly receipts for resales) at \$72 million.

This industry's shipments of metal doors, sash, frames, and molding and trim in 1963 represented 88 percent of its total product shipments. The industry specialization ratio in 1958 was 91 percent. Secondary products shipped by this industry in 1963 included miscellaneous metal building materials (\$32 million) and sheet metal, roofing, drainage and siding equipment (\$16 million).

Shipments of metal doors, sash and trim by this industry in 1963 represented 94 percent of all shipments of these products (\$1,107 million) by all industries. In 1958 the coverage ratio was 93 percent. Other industries shipping metal doors, sash and trim included industry 3441, Fabricated Structural Metal, \$11 million; and industry 3449, Miscellaneous Metal Work, \$7 million.

The production index for the primary products of the industry increased to 158 in 1963 from the 1958 level of 146. The unit value index for 1963 was 94 compared to 99 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3443—FABRICATED PLATE WORK (BOILER SHOPS)

This industry comprises establishments primarily engaged in manufacturing power and marine boilers, pressure and nonpressure tanks, processing and storage vessels, heat exchangers, weldments and similar products, by the process of cutting, forming and joining metal plates, shapes, bars, sheet, pipe mill products and tubing to custom or standard design for factory or field assembly. Establishments primarily engaged in



manufacturing nonelectric heating apparatus other than power boilers are classified in industry 3433, and household cooking apparatus in industry 3631. For a detailed list of products of industry 3443, refer to table 6A, product codes 3443111 to 3443959.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Boiler Shops Industry in 1963 totaled \$1,623 million. This amount included shipments of boiler shop products (primary products), valued at \$1,311 million, shipments of other products (secondary products) valued at \$168 million, and miscellaneous receipts (largely receipts for resales) at \$144 million.

This industry's shipments of boiler shop products in 1963 represented 89 percent of its total product shipments. The industry specialization ratio in 1958 was also 89 percent. Secondary products shipped by this industry in 1963 included fabricated structural metal for buildings (\$21 million), and general industrial machinery and equipment, n.e.c. (\$12 million).

Shipments of boiler shop products by this industry in 1963 represented 83 percent of all shipments of these products (\$1,581 million) by all industries. In 1958 the coverage ratio was also 83 percent. Other industries shipping fabricated plate works (boiler shops) included industry 3441, Fabricated Structural Metal, \$45 million; and industry 3433, Nonelectric Heating Equipment, \$22 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3443, e.g., heat exchangers and steam condensers, 67 percent; fabricated steel plate, 73 percent; steel power boilers, parts and attachments, 93 percent; gas cylinders, 65 percent; metal tanks and vessels, custom fabricated and field erected, 97 percent.

#### 3444—SHEET METAL WORK

This industry comprises establishments primarily engaged in manufacturing sheet metal work for buildings (not including fabrication work done by construction contractors at the place of construction) and manufacturing sheet metal stovepipes, light tanks, etc. For a detailed list of products of industry 3444, refer to table 6A, product codes 344111 to 3444398.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Sheet Metal Work Industry in 1963 totaled \$1,304 million. This amount included shipments of sheet metal work (primary products) valued at \$1,031 million, shipments of other products (secondary products) valued at \$139 million, and miscellaneous receipts (mainly receipts for resales) at \$134 million.

This industry's shipments of sheet metal work in 1963 represented 88 percent of its total product shipments. The industry specialization ratio in 1958 was also 88 percent. Secondary products shipped by this industry in 1963 included fabricated structural metal for buildings (\$11 million) and metal tanks complete at factory (standard line, non-pressure) (\$9 million).

Shipments of sheet metal work by this industry in 1963 represented 78 percent of all shipments of these products (\$1,325 million) by all industries. In 1958 the coverage ratio was 82 percent. Other industries shipping sheet metal work included industry 3312, Blast Furnaces and Steel Mills, \$42 million; and industry 3442, Metal Doors, Sash and Trim, \$32 million. These shipment totals do not take into account the volume of

sheet metal work performed by nonmanufacturing establishments, for example, the production of heating and ventilating ducts by plumbing and heating contractors, the production of skylights by roofing contractors, etc.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3444, e.g., sheet metal roofing, siding, and drainage equipment, 62 percent.

#### 3446—ARCHITECTURAL AND ORNAMENTAL METAL WORK

This industry comprises establishments primarily engaged in manufacturing architectural and ornamental metal work of ferrous and nonferrous metals, such as stairs and staircases, open steel flooring (grating), fire escapes, grills, railings, and fences and gates except wire. Establishments primarily engaged in manufacturing prefabricated and portable metal buildings and parts, and miscellaneous metal work are classified in industry 3449. For a detailed list of products of industry 3446, refer to table 6A, product codes 3446011 to 3446041.

Both the code number and content for this industry for 1963 were changed from the classification system used in 1958. The composition of the industry as now constituted, compared with that under the classification system followed in the 1958 census, is that architectural and ornamental works which were formally included as part of industry 3449 now comprise this new industry.

Value of shipments and other receipts of the Structural Metal Work Industry in 1963 totaled \$269 million. This amount included shipments of architectural and ornamental metal work (primary products) valued at \$219 million, shipments of other products (secondary products) valued at \$36 million, and miscellaneous receipts (mainly receipts for resales) at \$14 million.

This industry's shipments of architectural and ornamental metal work in 1963 represented 86 percent of its total product shipments. Secondary products shipped by this industry in 1963 included fabricated steel plate (\$4 million) and other fabricated structural metal (\$2 million).

Shipments of architectural and ornamental metal work by this industry in 1963 represented 71 percent of all shipments of these products (\$306 million) by all industries. Other industries shipping architectural and ornamental metal work consisted mainly of industry 3441, Fabricated Structural Metal, \$31 million; and industry 3449, Miscellaneous Metal Work, N.E.C., \$17 million.

#### 3449—MISCELLANEOUS METAL WORK

This industry comprises establishments primarily engaged in manufacturing miscellaneous ferrous and nonferrous metal work, such as prefabricated and portable metal buildings and parts, metal plaster bases, fabricated bar joists and concrete reinforcing bars, and prefabricated exterior metal panels. For a detailed list of products of industry 3449, refer to table 6A, product codes 3449211 to 3449379.

The code number for this industry in the Standard Industrial Classification Manual is unchanged, but the content of the industry has been significantly changed from the classification system used in 1958. The change in the composition of the industry as now constituted, compared with that under the classification system followed in the 1958 census, results from the separation of architectural and ornamental work as a separate industry. Such establishments were previously part of this industry.



Value of shipments and other receipts of the Miscellaneous Metal Work Industry in 1963 totaled \$704 million. This amount included shipments of miscellaneous metal work (primary products) valued at \$542 million, shipments of other products (secondary products) valued at \$68 million, and miscellaneous receipts (mainly receipts for resales) at \$92 million.

This industry's shipments of miscellaneous metal work in 1963 represented 89 percent of its total product shipments. Secondary products shipped by this industry in 1963 included ornamental and structural metal work (\$17 million) and fabricated structural metal for buildings (\$10 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 63 percent of the total industry shipments are represented by plants specializing in product class 34493, miscellaneous metal building materials and curtain wall.

Shipments of miscellaneous metal work by this industry in 1963 represented 68 percent of all shipments of these products (\$793 million) by all industries. Other industries shipping miscellaneous metal work included industry 3312, blast furnaces and steel mills, \$90 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3449, prefabricated and portable metal buildings, 81 percent; 34493, miscellaneous metal building materials, 59 percent.

### STRUCTURAL METAL PRODUCTS: SIC 344 Value Added by Manufacture by State: 1963

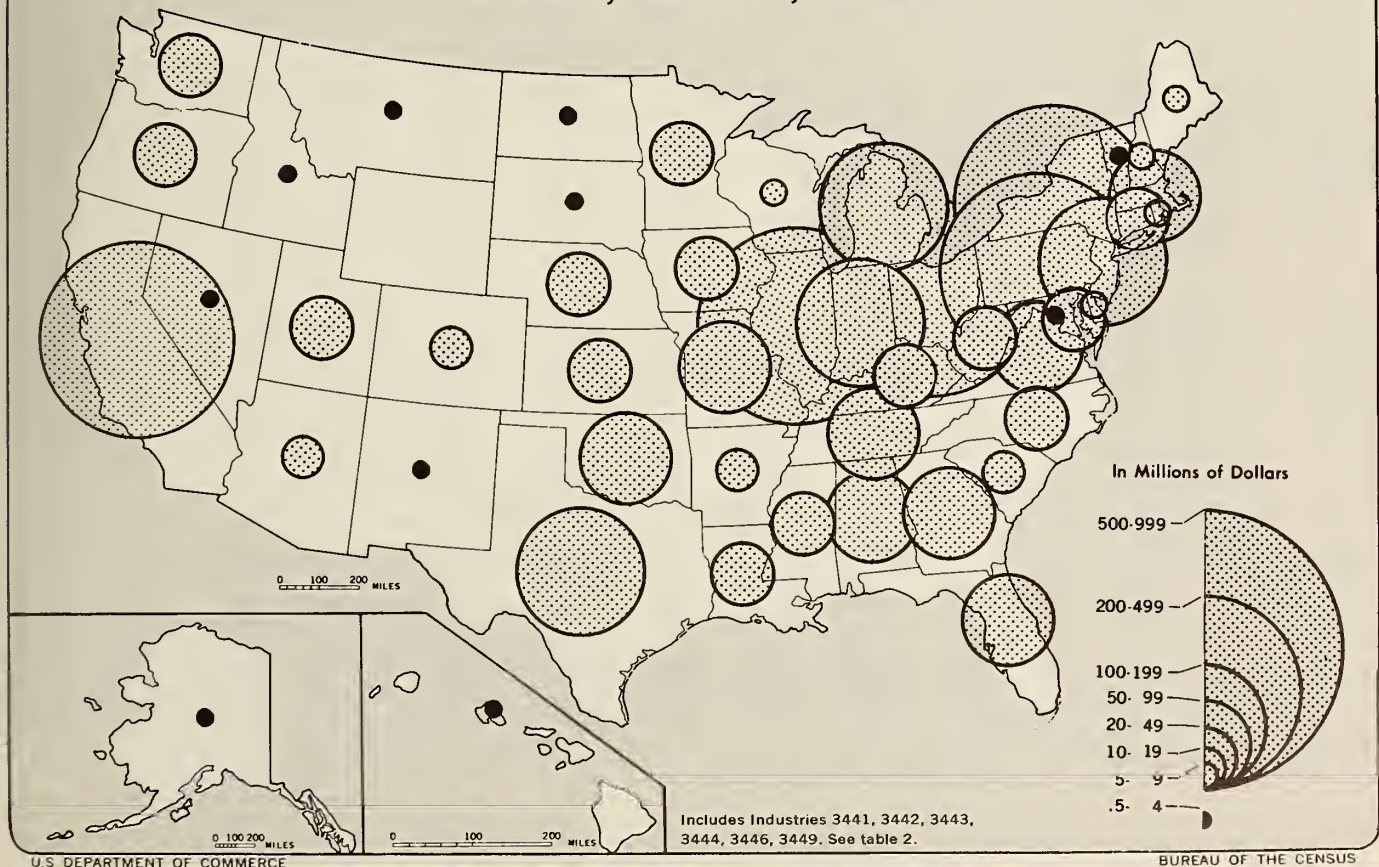


TABLE 1. General Statistics: 1963 and Earlier Years

| Year                                       | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3441.—FABRICATED STRUCTURAL STEEL |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                  | 1,636                      | 1,718             | 817  | 85,423            | 527,220              | 63,674             | 127,899              | 350,337            | 814,805  | 1,140,975                         | 1,916,048                          | 28,162  | 86  | 89                                       |
| 1962 <sup>1 2</sup> .....                  | (NA)                       | (NA)              | (NA)   | 79,218            | 483,571              | 59,036             | 121,532              | 315,797            | 697,812  | 1,065,537                         | 1,795,082                          | 19,227  | (NA)  | (NA)                                     |
| 1961 <sup>1 2</sup> .....                  | (NA)                       | (NA)              | (NA)   | 84,323            | 494,908              | 62,387             | 126,422              | 321,587            | 776,124  | 1,038,035                         | 1,814,112                          | 25,215  | (NA)  | (NA)                                     |
| 1960 <sup>1 2</sup> .....                  | (NA)                       | (NA)              | (NA)   | 87,853            | 509,984              | 63,919             | 133,412              | 326,389            | 819,955  | 1,070,225                         | 1,834,465                          | 27,225  | (NA)  | (NA)                                     |
| 1959 <sup>1 2</sup> .....                  | (NA)                       | (NA)              | (NA)   | 82,719            | 462,506              | 59,853             | 119,918              | 290,618            | 702,028  | 970,348                           | 1,710,458                          | 28,409  | (NA)  | (NA)                                     |
| 1958 <sup>3 4</sup> .....                  | 1,793                      | 1,861             | 780  | 91,252            | 502,697              | 68,009             | 135,764              | 332,691            | 821,626  | 1,017,689                         | 1,901,106                          | 37,698  | 87  | 91                                       |
| INDUSTRY 3442.—METAL DOORS, SASH, AND TRIM |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                  | 1,712                      | 1,817             | 628  | 62,799            | 324,796              | 46,645             | 95,727               | 206,127            | 570,370  | 681,385                           | 1,253,814                          | 21,305  | 88  | 94                                       |
| 1962 <sup>1 2</sup> .....                  | (NA)                       | (NA)              | (NA)   | 59,333            | 307,093              | 43,354             | 96,138               | 189,116            | 541,312  | 636,512                           | 1,172,929                          | 23,673  | (NA)  | (NA)                                     |
| 1961 <sup>1 2</sup> .....                  | (NA)                       | (NA)              | (NA)   | 57,840            | 284,744              | 42,304             | 91,216               | 174,638            | 489,824  | 607,318                           | 1,100,729                          | 17,587  | (NA)  | (NA)                                     |
| 1960 <sup>1 2</sup> .....                  | (NA)                       | (NA)              | (NA)   | 61,632            | 299,903              | 44,789             | 94,402               | 183,851            | 506,010  | 612,622                           | 1,126,762                          | 19,298  | (NA)  | (NA)                                     |
| 1959 <sup>1 2</sup> .....                  | (NA)                       | (NA)              | (NA)   | 59,791            | 287,027              | 44,050             | 89,350               | 176,593            | 500,144  | 635,384                           | 1,139,222                          | (20,018)  | (NA)  | (NA)                                     |
| 1958(new SIC) <sup>3</sup>                 | 1,468                      | 1,546             | 560  | 57,897            | 273,219              | 42,433             | 83,849               | 171,756            | 469,050  | 570,782                           | 1,037,371                          | 18,055  | 91  | 93                                       |
| 1958(old SIC)                              | 1,440                      | 1,516             | 516  | 54,353            | 257,100              | 39,747             | 78,672               | 161,929            | 437,857  | 533,296                           | 969,425                            | 17,096  | 92  | 93                                       |
| 1954.....                                  | 1,086                      | 1,106             | 386  | 43,284            | 184,174              | 33,028             | 66,490               | 125,317            | 342,845  | 303,545                           | 638,501                            | 22,097  | 87  | 89                                       |
| 1953 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 37,160            | 162,841              | 28,345             | 58,846               | 113,850            | 271,831  | 249,085                           | 520,916                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 30,540            | 129,372              | 23,845             | 48,830               | 89,688             | 227,498  | 179,091                           | 406,589                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 30,455            | 125,514              | 23,961             | 48,968               | 85,133             | 251,072  | 192,329                           | 443,401                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 25,036            | 95,747               | 19,829             | 42,348               | 65,850             | 181,937  | 149,931                           | 331,868                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 19,233            | 70,171               | 14,720             | 31,515               | 49,385             | 131,457  | 96,826                            | 231,043                            | (NA)  | (NA)  | (NA)                                     |
| 1947 <sup>5</sup> .....                    | (NA)                       | 364               | (NA)   | 23,336            | 72,176               | 19,100             | 36,630               | 53,630             | 129,366  | 103,402                           | 232,768                            | 6,668   | 84  | 87                                       |
| 1939 <sup>6</sup> .....                    | (NA)                       | 188               | (NA)   | (NA)              | 7,387                | (NA)               | (NA)                 | 10,054             | 27,425   | 17,663                            | 45,088                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>4</sup> .....                    | (NA)                       | 154               | (NA)   | 10,273            | 15,762               | 8,408              | (NA)                 | 11,879             | 29,862   | 20,053                            | 49,915                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                  | (NA)                       | 134               | (NA)   | 5,985             | 7,769                | 4,533              | (NA)                 | 5,093              | 12,456   | 10,284                            | 22,740                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....                                  | (NA)                       | 125               | (NA)   | 4,544             | 4,642                | 3,572              | (NA)                 | 3,123              | 7,424  | 5,953                             | 13,377                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....                                  | (NA)                       | 139               | (NA)   | (NA)              | (NA)                 | 6,816              | (NA)                 | 8,898              | 21,036   | 14,572                            | 35,608                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....                                  | (NA)                       | 148               | (NA)   | 11,916            | 24,265               | 9,557              | (NA)                 | 17,065             | 41,982   | 30,178                            | 72,160                             | (NA)  | (NA)  | (NA)                                     |
| 1927.....                                  | (NA)                       | 117               | (NA)   | 10,080            | 21,618               | 8,050              | (NA)                 | 15,564             | 39,678   | 25,602                            | 65,280                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....                                  | (NA)                       | 92                | (NA)   | 8,357             | 17,350               | 6,791              | (NA)                 | 12,899             | 28,450   | 21,628                            | 50,078                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....                                  | (NA)                       | 37                | (NA)   | 2,972             | 5,786                | 2,429              | (NA)                 | 4,333              | 9,763  | 5,604                             | 15,367                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....                                  | (NA)                       | 45                | (NA)   | 2,252             | 4,140                | 1,782              | (NA)                 | 2,831              | 8,178  | 4,289                             | 12,467                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....                                  | (NA)                       | 57                | (NA)   | 2,638             | 3,988                | 2,077              | (NA)                 | 2,730              | 6,299  | 4,578                             | 10,877                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....                                  | (NA)                       | 43                | (NA)   | 2,373             | 2,085                | 1,985              | (NA)                 | 1,538              | 3,188  | 1,996                             | 5,184                              | (NA)  | (NA)  | (NA)                                     |
| 1909.....                                  | (NA)                       | 29                | (NA)   | 1,798             | 1,098                | 1,601              | (NA)                 | 874                | 1,723  | 1,283                             | 3,006                              | (NA)  | (NA)  | (NA)                                     |
| 1904.....                                  | (NA)                       | 24                | (NA)   | 792               | 525                  | 699                | (NA)                 | 407                | 875  | 602                               | 1,477                              | (NA)  | (NA)  | (NA)                                     |
| 1899.....                                  | (NA)                       | 13                | (NA)   | 137               | 105                  | 117                | (NA)                 | 86                 | 204  | 116                               | 320                                | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3443.—BOILER SHOP PRODUCTS        |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                  | 1,301                      | 1,383             | 601  | 75,018            | 465,372              | 54,629             | 111,409              | 310,471            | 770,064  | 860,612                           | 1,622,988                          | 32,910  | 89  | 83                                       |
| 1962 <sup>1 2</sup> .....                  | (NA)                       | (NA)              | (NA)   | 72,931            | 449,765              | 51,403             | 104,082              | 286,085            | 672,736  | 800,968                           | 1,499,597                          | 31,485  | (NA)  | (NA)                                     |
| 1961 <sup>1 2</sup> .....                  | (NA)                       | (NA)              | (NA)   | 76,593            | 456,205              | 53,880             | 107,273              | 289,800            | 669,175  | 808,505                           | 1,477,433                          | 21,195  | (NA)  | (NA)                                     |
| 1960 <sup>1 2</sup> .....                  | (NA)                       | (NA)              | (NA)   | 79,857            | 468,749              | 56,417             | 113,232              | 299,894            | 677,595  | 843,510                           | 1,521,691                          | 29,406  | (NA)  | (NA)                                     |
| 1959 <sup>1 2</sup> .....                  | (NA)                       | (NA)              | (NA)   | 83,219            | 473,164              | 58,211             | 116,335              | 298,644            | 716,826  | 836,491                           | 1,590,975                          | 40,254  | (NA)  | (NA)                                     |
| 1958(new SIC) <sup>4</sup>                 | 1,180                      | 1,252             | 557  | 90,551            | 497,146              | 64,658             | 127,164              | 323,238            | 754,972  | 878,425                           | 1,670,007                          | 45,043  | 89  | 83                                       |
| 1958(old SIC)                              | 1,189                      | 1,252             | 516  | 81,501            | 444,715              | 58,921             | 115,735              | 292,055            | 682,298  | 789,439                           | 1,500,875                          | 40,740  | 88  | 85                                       |
| 1957 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 86,777            | 453,257              | 65,927             | 133,442              | 314,119            | 678,470  | 784,080                           | 1,420,999                          | 39,920  | 85  | 85                                       |
| 1956 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 76,112            | 382,673              | 58,002             | 116,737              | 262,082            | 659,992  | 614,313                           | 1,219,750                          | 37,047  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 69,758            | 326,567              | 52,872             | 105,646              | 223,076            | 476,488  | 511,080                           | 983,639                            | 24,799  | (NA)  | (NA)                                     |
| 1954.....                                  | 934                        | 977               | 481  | 74,373            | 342,069              | 57,217             | 115,994              | 239,967            | 568,146  | 555,102                           | 1,133,670                          | 23,651  | 82  | 81                                       |
| 1953 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 72,668            | 324,486              | 57,429             | 118,158              | 235,502            | 542,801  | 576,422                           | 1,119,223                          | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 69,996            | 303,834              | 54,025             | 114,473              | 214,036            | 510,735  | 509,143                           | 1,019,878                          | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 64,808            | 269,249              | 49,888             | 107,642              | 190,247            | 449,885  | 466,153                           | 916,038                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 63,407            | 226,567              | 49,086             | 101,591              | 159,953            | 363,368  | 381,474                           | 744,842                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 61,112            | 223,472              | 46,627             | 97,426               | 147,034            | 359,807  | 255,370                           | 615,177                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                  | 783                        | 812               | 437  | 68,232            | 207,118              | 54,185             | 114,795              | 151,698            | 351,139  | 335,548                           | 686,687                            | 21,908  | 80  | 80                                       |
| 1939.....                                  | (NA)                       | 478               | (NA)   | (NA)              | (NA)                 | 20,517             | (NA)                 | 27,552             | 77,891   | 75,380                            | 153,271                            | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                  | (NA)                       | 453               | (NA)   | 29,911            | 45,910               | 24,485             | (NA)                 | 33,842             | 82,301   | 82,979                            | 165,280                            | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                  | (NA)                       | 413               | (NA)   | 16,779            | 21,930               | 13,290             | (NA)                 | 14,770             | 36,572   | 36,598                            | 73,170                             | (NA)  | (NA)  | (NA)                                     |
| 1933 <sup>7</sup> .....                    | (NA)                       | 292               | (NA)   | 12,138            | 12,772               | 9,805              | (NA)                 | 9,094              | 22,385   | 23,481                            | 45,866                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3444.—SHEET METAL WORK            |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                  | 3,139                      | 3,250             | 755  | 61,651            | 373,284              | 48,041             | 97,079               | 264,665            | 632,384  | 669,778                           | 1,303,670                          | 26,180  | 88  | 78                                       |
| 1962 <sup>1 2</sup> .....                  | (NA)                       | (NA)              | (NA)   | 64,401            | 382,732              | 49,159             | 103,726              | 263,083            | 615,155  | 669,121                           | 1,280,477                          | 31,736  | (NA)  | (NA)                                     |
| 1961 <sup>1 2</sup> .....                  | (NA)                       | (NA)              | (NA)   | 62,606            | 354,782              | 47,481             | 99,472               | 239,980            | 581,118  | 629,034                           | 1,203,788                          | 24,088  | (NA)  | (NA)                                     |
| 1960 <sup>1 2</sup> .....                  | (NA)                       | (NA)              | (NA)   | 61,197            | 342,828              | 46,243             | 97,572               | 231,648            | 569,439  | 615,445                           | 1,179,765                          | 25,675  | (NA)  | (NA)                                     |
| 1959 <sup>1 2</sup> .....                  | (NA)                       | (NA)              | (NA)   | 61,613            | 334,282              | 47,128             | 97,161               | 228,622            | 584,115  | 616,823                           | 1,195,033                          | 22,496  | (NA)  | (NA)                                     |
| 1958 <sup>3 8</sup> .....                  | 3,075                      | 3,158             | 698  | 58,800            | 307,905              | 44,395             | 86,142               | 210,892            | 516,136  | 567,632                           | 1,077,811                          | 22,339  | 88  | 82                                       |
| 1957.....                                  | (NA)                       | (NA)              | (NA)   | 51,954            | 263,685              | 39,341             | 76,645               | 174,467            | 484,230  | 429,315                           | 900,579                            | 16,802  | 85  | 80                                       |
| 1956.....                                  | (NA)                       | (NA)              | (NA)   | 53,877            | 262,019              | 41,221             | 81,719               | 177,158            | 475,850  | 430,071                           | 886,885                            | 21,493  | (NA)  | (NA)                                     |
| 1955.....                                  | (NA)                       | (NA)              | (NA)   | 52,111            | 243,379              | 40,298             | 79,745               | 166,905            | 443,341  | 412,743                           | 825,968                            | 24,600  | (NA)  | (NA)                                     |
| 1954.....                                  | 2,363                      | 2,421             | 550  | 50,190            | 227,272              | 38,597             | 77,639               | 155,971            | 393,606  | 416,157                           | 812,238                            | 18,770  | 81  | 80                                       |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3444.—SHEET METAL WORK—Continued   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1953.....   | (NA)                       | (NA)              | (NA)   | 43,119            | 196,667              | 33,424             | (NA)                 | 138,347            | 347,607  | 305,737                           | 653,344                            | (NA)  | (NA)  | (NA)                                     |
| 1952.....   | (NA)                       | (NA)              | (NA)   | 58,526            | 242,703              | 47,945             | (NA)                 | 180,754            | 413,828  | 324,060                           | 737,888                            | (NA)  | (NA)  | (NA)                                     |
| 1951.....   | (NA)                       | (NA)              | (NA)   | 55,163            | 213,382              | 44,949             | (NA)                 | 158,552            | 379,997  | 335,346                           | 715,343                            | (NA)  | (NA)  | (NA)                                     |
| 1950.....   | (NA)                       | (NA)              | (NA)   | 50,248            | 176,663              | 40,536             | (NA)                 | 128,042            | 300,731  | 314,503                           | 615,234                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....   | 1,665                      | 1,706             | (NA)   | 42,375            | 131,739              | 34,897             | (NA)                 | 99,460             | 224,960  | 195,565                           | 420,525                            | (NA)  | 83  | 82                                       |
| 1939.....   | (NA)                       | 1,262             | (NA)   | 24,740            | 36,727               | 18,749             | (NA)                 | 23,079             | 66,360   | 70,981                            | 137,341                            | (NA)  | (NA)  | (NA)                                     |
| 1937.....   | (NA)                       | 1,392             | (NA)   | 27,606            | 40,116               | 22,973             | (NA)                 | 29,263             | 73,161   | 85,935                            | 159,096                            | (NA)  | (NA)  | (NA)                                     |
| 1935.....   | (NA)                       | 1,400             | (NA)   | 21,844            | 28,702               | 17,369             | (NA)                 | 19,551             | 51,210   | 58,123                            | 109,333                            | (NA)  | (NA)  | (NA)                                     |
| 1933.....   | (NA)                       | 1,229             | (NA)   | 16,095            | 16,938               | 13,050             | (NA)                 | 12,658             | 33,344   | 35,463                            | 68,807                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....   | (NA)                       | 1,762             | (NA)   | (NA)              | (NA)                 | 19,365             | (NA)                 | 25,158             | 60,101   | 56,342                            | 116,443                            | (NA)  | (NA)  | (NA)                                     |
| 1929 <sup>9</sup> .....   | (NA)                       | 2,161             | (NA)   | 35,547            | 61,668               | 28,593             | (NA)                 | 43,255             | 109,837  | 112,648                           | 222,485                            | (NA)  | (NA)  | (NA)                                     |
| 1927.....   | (NA)                       | 1,981             | (NA)   | 30,442            | 53,253               | 24,527             | (NA)                 | 38,668             | 92,743   | 98,386                            | 191,129                            | (NA)  | (NA)  | (NA)                                     |
| 1925.....   | (NA)                       | 2,107             | (NA)   | 30,655            | 50,968               | 24,996             | (NA)                 | 37,825             | 90,963   | 84,080                            | 175,043                            | (NA)  | (NA)  | (NA)                                     |
| 1923.....   | (NA)                       | 2,524             | (NA)   | 34,730            | 55,945               | 28,852             | (NA)                 | 42,446             | 95,401   | 93,507                            | 188,908                            | (NA)  | (NA)  | (NA)                                     |
| 1921.....   | (NA)                       | 3,105             | (NA)   | 50,625            | 48,213               | 25,172             | (NA)                 | 36,562             | 72,880   | 75,896                            | 148,776                            | (NA)  | (NA)  | (NA)                                     |
| 1919.....   | (NA)                       | 4,796             | (NA)   | 33,503            | 44,876               | 27,640             | (NA)                 | 33,867             | 79,415   | 80,899                            | 160,314                            | (NA)  | (NA)  | (NA)                                     |
| 1914.....   | (NA)                       | 4,527             | (NA)   | 33,715            | 26,568               | 28,714             | (NA)                 | 20,518             | 44,717   | 50,174                            | 94,891                             | (NA)  | (NA)  | (NA)                                     |
| 1909.....   | (NA)                       | 3,671             | (NA)   | (NA)              | (NA)                 | 28,448             | (NA)                 | 19,368             | 42,455   | 46,933                            | 89,388                             | (NA)  | (NA)  | (NA)                                     |
| 1904 <sup>10</sup> .....  | (NA)                       | 1,989             | (NA)   | (NA)              | (NA)                 | 22,556             | (NA)                 | 13,766             | 28,934   | 27,148                            | 56,082                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3446.—ARCHITECTURAL METAL WORK   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....   | 1,326                      | 1,334             | 173  | 15,587            | 86,956               | 12,474             | 24,195               | 60,613             | 148,763  | 119,313                           | 269,256                            | 6,102   | 86  | 71                                       |
| 1958 <sup>2 11</sup> .....  | (NA)                       | 1,343             | (NA)   | 20,964            | 111,006              | 16,039             | 31,605               | 74,234             | 180,942  | 145,141                           | 322,440                            | 6,537   | (NA)  | (NA)                                     |
| 1954 <sup>11</sup> .....  | (NA)                       | 1,113             | (NA)   | 21,009            | 89,235               | 16,115             | 32,165               | 60,687             | 149,946  | 112,837                           | 262,784                            | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3449.—MISCELLANEOUS METAL WORK, N.E.C.   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....   | 12,649                     | 12,697            | 12,246   | 24,992            | 145,042              | 16,963             | 34,510               | 88,843             | 283,427  | 420,857                           | 704,166                            | 11,475  | 89  | 68                                       |
| 1958 <sup>2 11</sup> .....  | (NA)                       | 248               | (NA)   | 21,158            | 113,798              | 14,817             | 30,385               | 68,373             | 220,134  | 371,413                           | 594,711                            | 9,366   | (NA)  | (NA)                                     |
| 1954 <sup>11</sup> .....  | (NA)                       | 272               | (NA)   | 15,286            | 67,451               | 10,906             | 22,341               | 41,255             | 124,606  | 171,234                           | 295,841                            | (NA)  | (NA)  | (NA)                                     |
| INDUSTRIES 3446 AND 3449.—ARCHITECTURAL METAL WORK AND MISCELLANEOUS METAL WORK, N.E.C. <sup>13</sup> |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....   | (NA)                       | (NA)              | (NA)   | 40,579            | 231,998              | 29,437             | 58,705               | 149,456            | 432,190  | 540,170                           | 973,422                            | 17,577  | (NA)  | (NA)                                     |
| 1962 <sup>1 2</sup> .....   | (NA)                       | (NA)              | (NA)   | 44,535            | 256,035              | 31,910             | 63,542               | 162,344            | 450,848  | 572,771                           | 1,034,461                          | 22,441  | (NA)  | (NA)                                     |
| 1961 <sup>1 2</sup> .....   | (NA)                       | (NA)              | (NA)   | 43,470            | 241,192              | 31,299             | 61,629               | 153,944            | 435,445  | 523,341                           | 997,315                            | 15,936  | (NA)  | (NA)                                     |
| 1960 <sup>1 2</sup> .....   | (NA)                       | (NA)              | (NA)   | 40,397            | 221,461              | 29,247             | 57,948               | 143,475            | 401,977  | 516,002                           | 921,978                            | 19,711  | (NA)  | (NA)                                     |
| 1959 <sup>1 2</sup> .....   | (NA)                       | (NA)              | (NA)   | 42,808            | 228,290              | 30,933             | 61,995               | 145,651            | 429,795  | 528,401                           | 953,153                            | (S)   | (NA)  | (NA)                                     |
| 1958 <sup>3</sup> .....   | 1,532                      | 1,591             | 397  | 42,122            | 224,804              | 30,856             | 61,990               | 142,607            | 401,076  | 516,554                           | 917,151                            | 15,903  | 87  | 74                                       |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: **All employees:** For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** For 1947 and prior years figures represent an average of 12 monthly figures. **Value added:** Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. **Cost of materials:** Cost of materials prior to 1954 excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. **Value of shipments:** Value of shipments for years prior to 1954 excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Includes data for Alaska and Hawaii.

<sup>3</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. The 1957 and earlier figures are on the old SIC definition of the industry.

<sup>4</sup>Excludes data for Alaska and Hawaii. Number of "All Employees" in these two States was between 100 and 249.

<sup>5</sup>The figures for 1947 have been revised for comparability with the figures for 1951-1958 by including data for establishments primarily engaged in the manufacture of "Metal storm doors and sash." Value added by manufacture for 1947 on a basis comparable with 1939, 1949 and 1950, which have not been revised, was \$117.6 million.

<sup>6</sup>The figures for 1939 are not entirely comparable with those for earlier years. Value added by manufacture for 1939 on a basis comparable with earlier years was \$29.2 million.

<sup>7</sup>"Boiler shop products" was formerly a part of the discontinued industry "Foundry and machine-shop products, n.e.c." Separate figures for earlier years are, therefore, not available.

<sup>8</sup>Data for Alaska and Hawaii are not included.

<sup>9</sup>Figures for 1929 and earlier years do not include data for sheetmetal dairymen's supplies, classified for these years in the discontinued industry "Dairymen's supplies, etc."

<sup>10</sup>"Sheetmetal work" was formerly a part of the discontinued industry "Tinsmithing, coppersmithing, and sheet iron working." Separate figures for 1899 are, therefore, not available.

<sup>11</sup>Industry 3446 was not a separate industry in the 1958 Census of Manufactures but was part of SIC 3449, Miscellaneous Metal Work, N.E.C. However, data were published in 1958 for plants classified in SIC 3449 specializing in the production of ornamental and structural metal work. This is the source of the separate data for industries 3446 and 3449. In like manner, data were published in 1954 for plants classified in SIC 3441 (1945 edition) specializing in those products now classified in industries 3446 and 3449.

<sup>12</sup>For 1963, a sizeable number of small establishments (under 20 employees) may have been misclassified in industry 3449, Miscellaneous Metal Work, because of insufficient product information. Although this has a significant effect on the number of establishments for this industry it has a very small effect on any of the other statistics, i.e., number of employees, salaries and wages, value added, etc. It is estimated that the effect on these principal statistics is less than 3 percent.

<sup>13</sup>Prior to 1963 "Architectural Metal Work" and "Miscellaneous Metal Work" constituted a single industry. Combined data for these two industries were obtained for 1958-1962.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>               | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3441.—FABRICATED STRUCTURAL STEEL |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                 | 1,718          | 817                                | 85,423         | 527,220           | 63,674             | 127,899           | 350,337         | 814,805                              | 1,140,975         | 1,916,048          | 28,162                    | 91,252           | 821,626                              |
| New England.....                           | 93             | 40                                 | 2,828          | 17,651            | 2,072              | 4,239             | 11,160          | 29,277                               | 38,214            | 65,421             | 906                       | 2,982            | 28,593                               |
| Maine.....                                 | 6              | 5                                  | 324            | 2,083             | 211                | 514               | 1,196           | 4,588                                | 5,388             | 9,857              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Massachusetts.....                         | 47             | 19                                 | 1,369          | 8,205             | 1,040              | 2,140             | 5,584           | 11,772                               | 16,298            | 27,596             | 306                       | 1,292            | 11,812                               |
| Rhode Island.....                          | 8              | 4                                  | 198            | 1,093             | 138                | 260               | 668             | 1,926                                | 1,625             | 3,423              | 38                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Connecticut.....                           | 27             | 9                                  | 686            | 4,744             | 498                | 943               | 2,685           | 8,429                                | 11,240            | 18,308             | 275                       | 861              | 8,808                                |
| Middle Atlantic....                        | 397            | 186                                | 21,933         | 142,039           | 16,784             | 32,172            | 97,622          | 197,107                              | 252,840           | 430,615            | 8,205                     | 27,312           | 260,973                              |
| New York.....                              | 191            | 80                                 | 5,666          | 40,519            | 4,272              | 8,666             | 27,075          | 66,256                               | 67,149            | 129,807            | 1,262                     | 7,522            | 77,809                               |
| New Jersey.....                            | 75             | 32                                 | 2,902          | 19,467            | 2,254              | 4,331             | 12,829          | 33,041                               | 31,885            | 62,713             | 700                       | 3,309            | 39,860                               |
| Pennsylvania.....                          | 131            | 74                                 | 13,365         | 82,053            | 10,258             | 19,175            | 57,718          | 97,810                               | 153,806           | 238,095            | 6,243                     | 16,481           | 143,304                              |
| East North Central.                        | 382            | 174                                | 18,724         | 120,579           | 13,588             | 27,464            | 78,262          | 202,048                              | 257,399           | 445,474            | 6,048                     | 20,886           | 189,899                              |
| Ohio.....                                  | 102            | 48                                 | 4,611          | 28,777            | 3,380              | 6,854             | 18,806          | 45,348                               | 62,261            | 107,073            | 1,911                     | 4,737            | 43,771                               |
| Indiana.....                               | 48             | 28                                 | 4,722          | 29,036            | 3,529              | 6,820             | 19,413          | 42,379                               | 69,794            | 103,794            | 793                       | 4,551            | 29,575                               |
| Illinois.....                              | 113            | 50                                 | 4,206          | 26,876            | 3,156              | 6,310             | 18,456          | 46,343                               | 47,832            | 92,239             | 1,798                     | 5,492            | 59,248                               |
| Michigan.....                              | 81             | 34                                 | 3,545          | 24,216            | 2,540              | 5,344             | 15,829          | 48,854                               | 52,573            | 98,402             | 1,063                     | 3,895            | 36,972                               |
| Wisconsin.....                             | 38             | 14                                 | 1,640          | 11,674            | 983                | 2,136             | 5,758           | 19,124                               | 24,939            | 43,966             | 483                       | 2,211            | 20,333                               |
| West North Central.                        | 121            | 62                                 | 5,676          | 34,621            | 4,129              | 8,511             | 21,912          | 61,784                               | 92,411            | 154,135            | 1,620                     | 6,287            | 61,909                               |
| Minnesota.....                             | 23             | 11                                 | 890            | 5,773             | 643                | 1,321             | 3,812           | 8,786                                | 13,305            | 22,108             | 97                        | 1,532            | 14,887                               |
| Iowa.....                                  | 25             | 12                                 | 1,012          | 5,774             | 783                | 1,528             | 3,853           | 10,698                               | 17,130            | 29,511             | 244                       | 912              | 8,742                                |
| Missouri.....                              | 41             | 18                                 | 1,642          | 10,348            | 1,181              | 2,586             | 6,532           | 22,874                               | 23,881            | 44,736             | 411                       | 1,624            | 19,976                               |
| Nebraska.....                              | 10             | 7                                  | 648            | 3,631             | 445                | 867               | 2,097           | 4,831                                | 16,469            | 21,807             | 440                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Kansas.....                                | 18             | 11                                 | 1,143          | 7,153             | 853                | 1,744             | 4,573           | 11,513                               | 15,364            | 26,566             | 346                       | 1,223            | 10,427                               |
| South Atlantic....                         | 180            | 103                                | 8,989          | 48,793            | 6,542              | 13,859            | 30,795          | 78,330                               | 126,297           | 205,064            | 3,175                     | 8,116            | 62,622                               |
| Maryland.....                              | 27             | 19                                 | 1,017          | 6,037             | 725                | 1,491             | 3,734           | 9,345                                | 14,538            | 24,190             | 323                       | 1,081            | 9,055                                |
| Virginia.....                              | 32             | 19                                 | 2,543          | 14,569            | 1,834              | 3,761             | 8,987           | 24,029                               | 36,899            | 60,501             | 494                       | 2,645            | 17,679                               |
| North Carolina.....                        | 24             | 13                                 | 1,361          | 7,829             | 954                | 2,145             | 4,570           | 11,665                               | 23,765            | 35,862             | 1,005                     | 1,057            | 7,847                                |
| South Carolina.....                        | 14             | 8                                  | 929            | 4,574             | 678                | 1,709             | 2,854           | 7,652                                | 16,788            | 24,494             | 438                       | 840              | 9,380                                |
| Georgia.....                               | 26             | 13                                 | 929            | 4,555             | 737                | 1,506             | 3,472           | 6,859                                | 7,733             | 14,728             | 303                       | 615              | 3,739                                |
| Florida.....                               | 45             | 22                                 | 1,571          | 7,772             | 1,135              | 2,280             | 4,846           | 12,244                               | 18,954            | 30,670             | 516                       | 1,471            | 11,037                               |
| East South Central.                        | 92             | 51                                 | 5,545          | 29,385            | 4,189              | 8,421             | 18,990          | 46,685                               | 69,269            | 114,603            | 1,686                     | 4,731            | 35,615                               |
| Kentucky.....                              | 10             | 5                                  | 219            | 1,157             | 162                | 328               | 776             | 1,815                                | 2,185             | 3,797              | 85                        | 171              | 1,972                                |
| Tennessee.....                             | 35             | 23                                 | 1,865          | 8,776             | 1,381              | 2,622             | 5,238           | 15,716                               | 25,686            | 42,182             | 673                       | 1,417            | 9,206                                |
| Alabama.....                               | 34             | 16                                 | 2,916          | 16,645            | 2,250              | 4,614             | 11,424          | 23,692                               | 32,718            | 54,618             | 730                       | 2,872            | 22,989                               |
| Mississippi.....                           | 13             | 7                                  | 545            | 2,807             | 396                | 857               | 1,552           | 5,462                                | 8,680             | 14,006             | 198                       | 271              | 1,448                                |
| West South Central.                        | 149            | 80                                 | 10,682         | 58,404            | 8,072              | 17,273            | 38,431          | 76,844                               | 154,347           | 231,739            | 2,324                     | 8,623            | 66,519                               |
| Arkansas.....                              | 8              | 4                                  | 568            | 2,863             | 418                | 790               | 1,859           | 6,069                                | 12,408            | 18,462             | 393                       | 454              | 3,894                                |
| Louisiana.....                             | 23             | 12                                 | 840            | 4,645             | 645                | 1,403             | 3,184           | 11,540                               | 12,117            | 23,746             | 277                       | 1,027            | 8,690                                |
| Oklahoma.....                              | 18             | 13                                 | 2,238          | 13,257            | 1,594              | 3,296             | 7,532           | 13,997                               | 36,448            | 50,954             | 434                       | 2,348            | 20,298                               |
| Texas.....                                 | 100            | 51                                 | 7,036          | 37,639            | 5,415              | 11,784            | 25,856          | 45,238                               | 93,374            | 138,577            | 1,220                     | 4,794            | 33,637                               |
| Mountain.....                              | 63             | 30                                 | 2,653          | 15,959            | 1,867              | 3,733             | 10,981          | 24,688                               | 35,192            | 55,806             | 658                       | 2,811            | 22,368                               |
| Montana.....                               | 6              | 3                                  | 106            | 633               | 77                 | 139               | 433             | 815                                  | 1,412             | 2,248              | 86                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Idaho.....                                 | 6              | 2                                  | 176            | 889               | 120                | 227               | 581             | 1,912                                | 2,100             | 3,940              | 23                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Colorado.....                              | 18             | 8                                  | 644            | 4,069             | 476                | 963               | 2,730           | 5,009                                | 7,991             | 12,775             | 162                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Arizona.....                               | 14             | 6                                  | 992            | 5,973             | 663                | 1,284             | 4,151           | 10,550                               | 9,177             | 16,766             | 168                       | 793              | 6,336                                |
| Utah.....                                  | 12             | 6                                  | 525            | 3,269             | 377                | 793               | 2,299           | 5,244                                | 9,853             | 14,223             | 129                       | 563              | 4,192                                |
| Pacific.....                               | 241            | 91                                 | 8,393          | 59,789            | 6,431              | 12,227            | 42,184          | 98,042                               | 115,006           | 213,191            | 3,540                     | 19,504           | 193,128                              |
| Washington.....                            | 31             | 11                                 | 1,431          | 9,928             | 1,159              | 2,243             | 7,563           | 17,374                               | 14,433            | 30,989             | 605                       | 1,502            | 13,476                               |
| Oregon.....                                | 26             | 7                                  | 907            | 6,421             | 1,381              | 4,582             | 13,062          | 17,279                               | 28,903            | 28,903             | 251                       | 881              | 9,023                                |
| California.....                            | 179            | 70                                 | 5,841          | 41,919            | 4,419              | 8,397             | 29,381          | 64,537                               | 81,228            | 148,153            | 2,645                     | 7,121            | 70,629                               |
| INDUSTRY 3442.—METAL DOORS, SASH, AND TRIM |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                 | 1,817          | 628                                | 62,799         | 324,796           | 46,645             | 95,727            | 206,127         | 570,370                              | 681,385           | 1,253,814          | 21,305                    | 57,897           | 469,050                              |
| New England.....                           | 128            | 40                                 | 2,922          | 14,283            | 2,115              | 4,364             | 8,519           | 26,539                               | 28,572            | 55,283             | 799                       | 2,529            | 20,956                               |
| Maine.....                                 | 9              | 1                                  | 108            | 385               | 84                 | 168               | 302             | 687                                  | 1,417             | 1,417              | 17                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| New Hampshire....                          | 10             | 6                                  | 396            | 1,755             | 309                | 650               | 1,118           | 3,898                                | 3,793             | 7,699              | 244                       | 238              | 1,870                                |
| Massachusetts....                          | 62             | 17                                 | 1,205          | 6,043             | 919                | 1,868             | 3,928           | 10,738                               | 13,584            | 24,589             | 231                       | 1,263            | 10,026                               |
| Rhode Island.....                          | 16             | 3                                  | 296            | 1,084             | 201                | 424               | 630             | 2,597                                | 2,619             | 5,193              | 47                        | 295              | 2,445                                |
| Connecticut.....                           | 31             | 13                                 | 917            | 5,016             | 602                | 1,254             | 2,541           | 8,619                                | 7,794             | 16,385             | 260                       | 674              | 6,287                                |
| Middle Atlantic....                        | 388            | 138                                | 14,480         | 76,470            | 10,599             | 22,229            | 49,038          | 131,454                              | 139,024           | 269,845            | 3,514                     | 14,749           | 113,905                              |
| New York.....                              | 192            | 67                                 | 6,790          | 36,706            | 4,776              | 9,982             | 22,305          | 59,107                               | 55,572            | 114,852            | 1,740                     | 7,382            | 60,830                               |
| New Jersey.....                            | 89             | 31                                 | 2,844          | 14,188            | 2,087              | 4,498             | 8,949           | 25,425                               | 34,034            | 60,154             | 620                       | 1,831            | 14,011                               |
| Pennsylvania.....                          | 107            | 40                                 | 4,846          | 25,576            | 3,736              | 7,749             | 17,784          | 46,922                               | 49,418            | 94,839             | 1,154                     | 5,536            | 39,064                               |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                         | 1963              |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           | 1958             |                                      |
|--|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3442.—METAL DOORS, SASH, AND TRIM—Continued |                   |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           |                  |                                      |
| East North Central..                                 | 396               | 147                                   | 17,261            | 94,465               | 12,985             | 26,304               | 61,704             | 162,507                              | 205,735           | 369,124            | 7,099                     | 18,322           | 154,981                              |
| Ohio.....  | 95                | 41                                    | 5,955             | 33,217               | 4,547              | 9,070                | 22,135             | 56,334                               | 65,801            | 122,129            | 2,303                     | 5,782            | 47,396                               |
| Indiana.....   | 39                | 14                                    | 1,973             | 10,739               | 1,465              | 2,873                | 6,793              | 18,713                               | 19,897            | 37,983             | 728                       | 1,704            | 12,911                               |
| Illinois.....  | 111               | 42                                    | 4,558             | 24,538               | 3,416              | 6,957                | 15,949             | 43,595                               | 50,313            | 93,841             | 1,599                     | 4,407            | 42,594                               |
| Michigan.....  | 126               | 44                                    | 4,095             | 22,414               | 3,084              | 6,333                | 14,707             | 37,585                               | 63,007            | 101,918            | 2,338                     | 5,669            | 47,695                               |
| Wisconsin.....                                       | 25                | 6                                     | 680               | 3,557                | 473                | 1,071                | 2,120              | 6,280                                | 6,717             | 13,253             | 131                       | 760              | 4,385                                |
| West North Central..                                 | 150               | 56                                    | 4,423             | 22,942               | 3,145              | 6,480                | 14,336             | 39,794                               | 41,634            | 81,602             | 1,264                     | 3,282            | 27,843                               |
| Minnesota.....                                       | 32                | 9                                     | 713               | 3,952                | 554                | 1,130                | 2,699              | 6,358                                | 6,393             | 12,613             | 173                       | 456              | 3,425                                |
| Iowa.....  | 18                | 7                                     | 379               | 1,606                | 291                | 635                  | 1,025              | 2,821                                | 2,967             | 6,095              | 96                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Missouri.....  | 53                | 26                                    | 2,560             | 14,140               | 1,777              | 3,670                | 8,701              | 22,886                               | 25,046            | 47,954             | 823                       | 2,097            | 17,014                               |
| Nebraska.....  | 13                | 3                                     | 180               | 764                  | 124                | 254                  | 465                | 1,079                                | 1,462             | 2,507              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Kansas.....  | 29                | 11                                    | 571               | 2,421                | 386                | 769                  | 1,408              | 6,517                                | 5,624             | 12,155             | 131                       | 283              | 2,685                                |
| South Atlantic.....                                  | 238               | 84                                    | 8,914             | 39,334               | 6,805              | 13,807               | 24,422             | 75,853                               | 96,982            | 172,424            | 3,281                     | 7,413            | 50,411                               |
| Maryland.....  | 15                | 6                                     | 297               | 1,532                | 197                | 374                  | 685                | 4,370                                | 4,214             | 7,245              | 81                        | 255              | 2,182                                |
| Virginia.....  | 26                | 9                                     | 671               | 3,158                | 489                | 1,086                | 1,893              | 6,121                                | 5,769             | 11,825             | 181                       | 558              | 3,632                                |
| North Carolina....                                   | 29                | 7                                     | 562               | 2,220                | 420                | 857                  | 1,433              | 3,461                                | 6,540             | 10,014             | 193                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South Carolina....                                   | 13                | 4                                     | 273               | 1,096                | 214                | 442                  | 750                | 2,288                                | 2,537             | 4,745              | 265                       | 177              | 832                                  |
| Georgia.....   | 33                | 10                                    | 2,201             | 10,739               | 1,680              | 3,762                | 6,960              | 21,596                               | 27,346            | 49,609             | 1,272                     | 1,312            | 10,382                               |
| Florida.....   | 104               | 46                                    | 4,774             | 20,053               | 3,701              | 7,075                | 12,335             | 37,019                               | 48,816            | 86,223             | 1,255                     | 4,925            | 32,402                               |
| East South Central..                                 | 80                | 30                                    | 2,586             | 11,196               | 2,021              | 4,198                | 7,593              | 20,785                               | 27,757            | 48,740             | 1,430                     | 2,385            | 19,835                               |
| Kentucky.....  | 25                | 10                                    | 1,131             | 5,050                | 836                | 1,714                | 3,284              | 8,601                                | 9,924             | 18,676             | 287                       | 737              | 8,625                                |
| Tennessee.....                                       | 27                | 10                                    | 732               | 2,868                | 607                | 1,254                | 1,873              | 5,684                                | 7,914             | 13,325             | 597                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Alabama.....   | 19                | 4                                     | 373               | 1,907                | 299                | 643                  | 1,474              | 4,393                                | 5,364             | 9,888              | 467                       | 923              | 7,644                                |
| Mississippi.....                                     | 9                 | 6                                     | 350               | 1,371                | 279                | 587                  | 962                | 2,107                                | 4,555             | 6,851              | 79                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West South Central..                                 | 126               | 42                                    | 3,897             | 16,503               | 2,979              | 6,128                | 10,031             | 32,247                               | 42,869            | 75,246             | 1,668                     | 3,156            | 23,183                               |
| Arkansas.....  | 14                | 2                                     | 285               | 1,155                | 229                | 512                  | 856                | 2,382                                | 3,547             | 5,817              | 141                       | 107              | 818                                  |
| Louisiana.....                                       | 13                | 7                                     | 584               | 2,663                | 426                | 813                  | 1,577              | 4,877                                | 6,924             | 12,128             | 114                       | 451              | 4,015                                |
| Oklahoma.....  | 21                | 7                                     | 914               | 4,759                | 680                | 1,523                | 2,979              | 9,922                                | 6,966             | 17,072             | 455                       | 631              | 6,266                                |
| Texas.....   | 78                | 26                                    | 2,114             | 7,926                | 1,644              | 3,280                | 4,619              | 15,066                               | 25,432            | 40,229             | 958                       | 1,967            | 12,084                               |
| Mountain.....  | 42                | 8                                     | 570               | 3,203                | 397                | 803                  | 1,718              | 5,577                                | 5,409             | 11,048             | 120                       | 581              | 5,382                                |
| Colorado.....  | 22                | 4                                     | 288               | 1,846                | 178                | 355                  | 725                | 3,053                                | 3,257             | 6,329              | 54                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pacific.....   | 269               | 83                                    | 7,746             | 46,400               | 5,599              | 11,414               | 28,766             | 75,614                               | 93,403            | 170,502            | 2,130                     | 5,480            | 52,554                               |
| Washington.....                                      | 36                | 8                                     | 976               | 6,562                | 720                | 1,347                | 4,319              | 10,405                               | 9,742             | 20,284             | 267                       | 875              | 9,242                                |
| California.....                                      | 215               | 69                                    | 6,353             | 37,677               | 4,540              | 9,388                | 22,794             | 61,357                               | 80,727            | 143,420            | 1,769                     | 4,283            | 40,811                               |
| INDUSTRY 3443.—BOILER SHOP PRODUCTS                  |                   |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           |                  |                                      |
| Total.....   | 1,383             | 601                                   | 75,018            | 465,372              | 54,629             | 111,409              | 310,471            | 770,064                              | 860,612           | 1,622,988          | 32,910                    | 90,551           | 754,972                              |
| New England.....                                     | 91                | 31                                    | 2,401             | 15,545               | 1,753              | 3,756                | 9,911              | 28,020                               | 23,409            | 51,369             | 1,403                     | 2,699            | 22,962                               |
| Massachusetts.....                                   | 51                | 24                                    | 1,843             | 12,221               | 1,331              | 2,863                | 7,616              | 22,101                               | 18,743            | 40,940             | 1,057                     | 1,608            | 12,663                               |
| Connecticut.....                                     | 25                | 6                                     | 437               | 2,774                | 327                | 700                  | 1,875              | 5,008                                | 3,881             | 8,714              | 265                       | 848              | 8,619                                |
| Middle Atlantic.....                                 | 296               | 116                                   | 16,893            | 107,750              | 11,959             | 24,035               | 71,033             | 165,325                              | 188,481           | 349,042            | 5,178                     | 24,750           | 220,431                              |
| New York.....  | 89                | 26                                    | 3,831             | 25,596               | 2,638              | 5,502                | 16,413             | 43,698                               | 36,698            | 78,920             | 1,304                     | 6,530            | 59,449                               |
| New Jersey.....                                      | 74                | 24                                    | 2,297             | 14,520               | 1,704              | 3,532                | 10,098             | 23,205                               | 20,477            | 38,785             | 646                       | 2,859            | 24,770                               |
| Pennsylvania.....                                    | 133               | 66                                    | 10,765            | 67,634               | 7,617              | 15,001               | 44,522             | 98,422                               | 131,306           | 231,337            | 3,228                     | 15,361           | 136,212                              |
| East North Central..                                 | 354               | 156                                   | 20,757            | 133,196              | 14,157             | 29,046               | 82,885             | 208,145                              | 213,540           | 417,809            | 7,740                     | 21,972           | 190,660                              |
| Ohio.....  | 93                | 41                                    | 8,640             | 56,901               | 5,183              | 10,711               | 30,797             | 91,040                               | 85,041            | 169,899            | 3,502                     | 10,544           | 92,029                               |
| Indiana.....   | 39                | 16                                    | 2,434             | 15,398               | 1,698              | 3,370                | 9,991              | 21,722                               | 33,340            | 54,404             | 961                       | 3,233            | 34,650                               |
| Illinois.....  | 84                | 42                                    | 3,557             | 22,057               | 2,818              | 5,798                | 15,921             | 36,107                               | 38,411            | 74,568             | 1,677                     | 3,474            | 27,895                               |
| Michigan.....  | 83                | 28                                    | 1,734             | 11,519               | 1,320              | 2,756                | 7,829              | 18,755                               | 20,599            | 40,344             | 415                       | 1,526            | 12,542                               |
| Wisconsin.....                                       | 55                | 29                                    | 4,392             | 27,321               | 3,138              | 6,411                | 18,347             | 40,521                               | 36,149            | 78,594             | 1,185                     | 3,195            | 23,544                               |
| West North Central..                                 | 87                | 34                                    | 4,172             | 25,346               | 3,180              | 6,471                | 17,439             | 40,954                               | 51,519            | 92,138             | 2,171                     | 4,704            | 36,446                               |
| Minnesota.....                                       | 14                | 7                                     | 620               | 3,729                | 481                | 956                  | 2,625              | 4,899                                | 8,230             | 13,377             | 154                       | 610              | 5,479                                |
| Iowa.....  | 18                | 6                                     | 893               | 5,051                | 649                | 1,368                | 3,292              | 9,701                                | 11,320            | 19,319             | 425                       | 307              | 2,442                                |
| Missouri.....  | 26                | 11                                    | 2,049             | 12,916               | 1,575              | 3,114                | 9,062              | 20,283                               | 21,780            | 43,182             | 914                       | 3,039            | 22,716                               |
| Nebraska.....  | 8                 | 4                                     | 275               | 1,797                | 211                | 459                  | 1,065              | 3,395                                | 6,540             | 9,998              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Kansas.....  | 16                | 6                                     | 288               | 1,606                | 222                | 482                  | 1,178              | 2,402                                | 2,966             | 5,310              | 103                       | 609              | 4,450                                |
| South Atlantic.....                                  | 123               | 55                                    | 5,642             | 30,146               | 4,631              | 9,292                | 22,296             | 63,492                               | 64,954            | 134,295            | 3,486                     | 5,081            | 32,704                               |
| Delaware.....  | 6                 | 4                                     | 313               | 2,163                | 258                | 564                  | 1,736              | 6,931                                | 6,999             | 13,457             | 113                       | 492              | 5,018                                |
| Maryland.....  | 20                | 7                                     | 571               | 3,247                | 443                | 903                  | 2,209              | 4,798                                | 6,092             | 10,594             | 100                       | 517              | 3,616                                |
| Virginia.....  | 12                | 8                                     | 1,170             | 6,218                | 863                | 1,563                | 3,706              | 14,833                               | 13,033            | 35,021             | 1,477                     | 1,446            | 6,774                                |
| North Carolina....                                   | 23                | 10                                    | 1,201             | 6,022                | 1,078              | 2,249                | 5,018              | 8,946                                | 13,304            | 22,383             | 159                       | 996              | 6,609                                |
| South Carolina....                                   | 9                 | 2                                     | 151               | 779                  | 123                | 223                  | 592                | 2,006                                | 1,136             | 3,060              | 263                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Georgia.....   | 19                | 12                                    | 1,517             | 7,727                | 1,307              | 2,646                | 6,199              | 18,832                               | 16,229            | 34,601             | 1,065                     | 1,199            | 7,270                                |
| Florida.....   | 29                | 10                                    | 595               | 3,163                | 458                | 934                  | 2,200              | 5,827                                | 7,295             | 13,002             | 229                       | 302              | 2,555                                |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                  | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3443.—BOILER SHOP PRODUCTS—Continued |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| East South Central..                          | 55             | 32                                 | 7,465          | 44,507            | 5,645              | 11,578            | 31,983          | 72,798                               | 73,194            | 145,240            | 3,703                     | 8,750            | 64,916                               |
| Kentucky.....                                 | 15             | 8                                  | 545            | 2,986             | 398                | 802               | 1,990           | 4,503                                | 5,511             | 10,096             | 214                       | 746              | 6,035                                |
| Alabama.....                                  | 18             | 12                                 | 1,722          | 9,914             | 1,277              | 2,711             | 7,666           | 21,375                               | 24,623            | 46,108             | 557                       | 1,215            | 10,819                               |
| West South Central..                          | 151            | 85                                 | 9,356          | 52,321            | 7,284              | 15,592            | 36,870          | 105,807                              | 126,399           | 228,971            | 4,007                     | 9,127            | 70,112                               |
| Arkansas.....                                 | 9              | 4                                  | 208            | 851               | 174                | 366               | 642             | 1,043                                | 2,437             | 3,497              | 113                       | 126              | 895                                  |
| Louisiana.....                                | 14             | 9                                  | 1,763          | 10,690            | 1,314              | 2,866             | 7,215           | 18,252                               | 21,542            | 38,918             | 759                       | 1,541            | 9,511                                |
| Oklahoma.....                                 | 24             | 15                                 | 1,958          | 11,153            | 1,541              | 3,326             | 7,963           | 30,718                               | 34,397            | 64,673             | 423                       | 2,092            | 20,707                               |
| Texas.....                                    | 104            | 57                                 | 5,427          | 29,627            | 4,255              | 9,034             | 21,050          | 55,794                               | 68,023            | 121,883            | 2,712                     | 5,368            | 38,999                               |
| Mountain.....                                 | 36             | 20                                 | 1,948          | 12,392            | 1,462              | 2,946             | 9,090           | 18,881                               | 28,094            | 47,115             | 550                       | 2,348            | 16,334                               |
| Colorado.....                                 | 12             | 6                                  | 655            | 4,474             | 446                | 865               | 2,431           | 8,796                                | 12,872            | 18,778             | 178                       | 701              | 4,882                                |
| Utah.....                                     | 11             | 9                                  | 1,002          | 6,146             | 799                | 1,656             | 4,983           | 10,990                               | 14,026            | 25,500             | 272                       | 1,166            | 7,418                                |
| Pacific.....                                  | 190            | 72                                 | 6,384          | 44,169            | 4,558              | 8,693             | 28,964          | 66,642                               | 91,022            | 157,009            | 4,672                     | 11,120           | 100,407                              |
| Oregon.....                                   | 14             | 6                                  | 467            | 3,164             | 374                | 745               | 2,256           | 5,636                                | 6,542             | 12,040             | 375                       | 454              | 3,066                                |
| California.....                               | 150            | 60                                 | 5,617          | 38,939            | 3,947              | 7,493             | 25,132          | 57,549                               | 81,575            | 138,639            | 4,184                     | 10,090           | 92,530                               |
| INDUSTRY 3444.—SHEET METAL WORK               |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 3,250          | 755                                | 61,651         | 373,284           | 48,041             | 97,079            | 264,665         | 632,384                              | 669,778           | 1,303,670          | 26,180                    | 58,800           | 516,136                              |
| New England.....                              | 271            | 60                                 | 4,052          | 24,777            | 3,201              | 6,526             | 17,835          | 37,181                               | 28,034            | 65,098             | 1,365                     | 3,600            | 28,378                               |
| New Hampshire....                             | 12             | 2                                  | 177            | 778               | 131                | 250               | 499             | 1,122                                | 502               | 1,614              | 21                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Massachusetts.....                            | 165            | 41                                 | 2,848          | 17,662            | 2,249              | 4,604             | 12,456          | 25,778                               | 19,483            | 45,196             | 1,019                     | 2,539            | 20,655                               |
| Rhode Island.....                             | 24             | 3                                  | 178            | 1,134             | 146                | 305               | 888             | 1,903                                | 997               | 2,907              | 52                        | 121              | 1,019                                |
| Connecticut.....                              | 60             | 13                                 | 772            | 4,779             | 613                | 1,246             | 3,676           | 7,602                                | 6,163             | 13,751             | 263                       | 703              | 4,971                                |
| Middle Atlantic....                           | 655            | 185                                | 14,552         | 90,120            | 11,390             | 23,136            | 65,978          | 149,363                              | 124,067           | 273,601            | 4,739                     | 13,672           | 114,569                              |
| New York.....                                 | 291            | 79                                 | 6,344          | 40,426            | 5,190              | 10,486            | 31,022          | 64,303                               | 44,256            | 108,780            | 1,466                     | 5,490            | 45,144                               |
| New Jersey.....                               | 184            | 49                                 | 3,232          | 21,293            | 2,567              | 5,282             | 15,692          | 33,733                               | 27,460            | 61,883             | 1,038                     | 2,773            | 22,358                               |
| Pennsylvania.....                             | 180            | 57                                 | 4,976          | 28,401            | 3,633              | 7,368             | 19,264          | 51,327                               | 52,351            | 102,938            | 2,235                     | 5,409            | 47,067                               |
| East North Central..                          | 680            | 195                                | 17,489         | 108,514           | 13,407             | 27,291            | 73,999          | 186,619                              | 224,968           | 410,868            | 9,059                     | 15,530           | 149,472                              |
| Ohio.....                                     | 206            | 63                                 | 5,539          | 34,321            | 4,157              | 8,434             | 23,076          | 64,657                               | 75,883            | 141,034            | 2,395                     | 5,658            | 57,574                               |
| Indiana.....                                  | 73             | 28                                 | 1,667          | 9,478             | 1,291              | 2,566             | 6,600           | 16,628                               | 19,278            | 35,382             | 636                       | 1,150            | 10,290                               |
| Illinois.....                                 | 196            | 52                                 | 3,708          | 22,543            | 2,893              | 5,973             | 16,092          | 36,853                               | 38,645            | 75,608             | 1,315                     | 3,269            | 27,453                               |
| Michigan.....                                 | 133            | 32                                 | 3,505          | 21,952            | 2,828              | 5,719             | 15,736          | 39,483                               | 37,737            | 77,084             | 2,564                     | 2,827            | 28,989                               |
| Wisconsin.....                                | 72             | 20                                 | 3,070          | 20,220            | 2,238              | 4,599             | 12,495          | 28,998                               | 53,425            | 81,760             | 2,149                     | 2,626            | 25,166                               |
| West North Central..                          | 204            | 58                                 | 5,723          | 34,028            | 4,451              | 8,917             | 23,688          | 61,053                               | 68,220            | 129,958            | 2,519                     | 7,806            | 64,728                               |
| Minnesota.....                                | 49             | 17                                 | 878            | 5,088             | 689                | 1,419             | 3,601           | 7,579                                | 9,426             | 16,713             | 843                       | 1,081            | 9,220                                |
| Iowa.....                                     | 32             | 8                                  | 1,087          | 6,796             | 873                | 1,820             | 5,041           | 10,677                               | 9,829             | 20,992             | 220                       | 857              | 8,806                                |
| Missouri.....                                 | 65             | 16                                 | 2,327          | 14,947            | 1,796              | 3,584             | 10,673          | 26,135                               | 28,885            | 55,761             | 662                       | 4,178            | 29,593                               |
| Nebraska.....                                 | 21             | 9                                  | 784            | 4,020             | 613                | 1,066             | 2,195           | 9,598                                | 10,996            | 20,563             | 316                       | 993              | 11,479                               |
| Kansas.....                                   | 27             | 6                                  | 367            | 1,997             | 294                | 596               | 1,470           | 4,964                                | 4,231             | 8,801              | 427                       | 465              | 3,179                                |
| South Atlantic.....                           | 369            | 73                                 | 5,900          | 30,285            | 4,680              | 9,410             | 21,799          | 53,098                               | 72,465            | 124,896            | 3,560                     | 5,498            | 41,070                               |
| Maryland.....                                 | 46             | 14                                 | 1,026          | 6,000             | 791                | 1,742             | 4,206           | 9,413                                | 11,512            | 20,393             | 365                       | 915              | 8,127                                |
| Virginia.....                                 | 32             | 14                                 | 738            | 3,522             | 582                | 1,219             | 2,522           | 6,090                                | 5,736             | 12,195             | 163                       | 532              | 3,823                                |
| West Virginia.....                            | 15             | 4                                  | 646            | 3,660             | 521                | 969               | 2,727           | 8,597                                | 13,236            | 21,808             | 253                       | 454              | 3,062                                |
| North Carolina....                            | 61             | 9                                  | 874            | 3,883             | 715                | 1,430             | 2,805           | 6,528                                | 16,472            | 22,406             | 1,939                     | 669              | 5,135                                |
| Georgia.....                                  | 61             | 14                                 | 928            | 4,519             | 740                | 1,444             | 3,294           | 7,809                                | 10,563            | 18,278             | 268                       | 1,024            | 7,450                                |
| Florida.....                                  | 120            | 15                                 | 1,356          | 6,822             | 1,037              | 2,086             | 4,665           | 12,247                               | 13,517            | 25,979             | 495                       | 1,586            | 11,577                               |
| East South Central..                          | 168            | 25                                 | 1,639          | 7,807             | 1,288              | 2,628             | 5,601           | 15,190                               | 17,975            | 32,934             | 456                       | 1,543            | 11,963                               |
| Kentucky.....                                 | 24             | 6                                  | 321            | 1,992             | 235                | 478               | 1,423           | 3,321                                | 4,039             | 7,338              | 62                        | 574              | 3,846                                |
| Tennessee.....                                | 57             | 11                                 | 670            | 3,153             | 531                | 1,113             | 2,202           | 6,322                                | 8,136             | 14,321             | 172                       | 423              | 4,038                                |
| Alabama.....                                  | 46             | 7                                  | 446            | 1,837             | 361                | 706               | 1,404           | 3,981                                | 4,423             | 8,331              | 142                       | 376              | 2,775                                |
| Mississippi.....                              | 41             | 1                                  | 202            | 825               | 161                | 331               | 572             | 1,566                                | 1,377             | 2,944              | 80                        | 170              | 1,304                                |
| West South Central..                          | 303            | 37                                 | 3,249          | 16,515            | 2,500              | 5,000             | 11,871          | 25,127                               | 29,178            | 55,023             | 985                       | 2,974            | 20,640                               |
| Arkansas.....                                 | 22             | 4                                  | 170            | 535               | 108                | 242               | 376             | 838                                  | 1,008             | 1,859              | 42                        | 173              | 660                                  |
| Louisiana.....                                | 59             | 6                                  | 553            | 3,021             | 436                | 858               | 2,419           | 4,840                                | 4,866             | 9,498              | 151                       | 356              | 2,564                                |
| Oklahoma.....                                 | 50             | 6                                  | 488            | 2,272             | 379                | 740               | 1,647           | 3,984                                | 4,901             | 9,028              | 125                       | 371              | 3,017                                |
| Texas.....                                    | 172            | 21                                 | 2,038          | 10,687            | 1,577              | 3,160             | 7,429           | 15,465                               | 18,403            | 34,638             | 667                       | 2,074            | 14,399                               |
| Mountain.....                                 | 93             | 12                                 | 996            | 6,045             | 824                | 1,689             | 4,799           | 11,547                               | 11,695            | 23,371             | 384                       | 1,126            | 10,206                               |
| Colorado.....                                 | 24             | 2                                  | 289            | 1,902             | 239                | 483               | 1,537           | 2,965                                | 2,441             | 5,355              | 71                        | 285              | 2,569                                |
| Arizona.....                                  | 29             | 3                                  | 238            | 1,293             | 198                | 406               | 1,002           | 2,277                                | 2,933             | 5,176              | 66                        | 173              | 1,358                                |
| Utah.....                                     | 17             | 4                                  | 202            | 1,355             | 170                | 364               | 1,104           | 2,710                                | 2,462             | 5,334              | 76                        | 236              | 2,166                                |
| Pacific.....                                  | 507            | 110                                | 8,051          | 55,193            | 6,300              | 12,482            | 39,095          | 93,206                               | 93,176            | 187,921            | 3,113                     | 7,051            | 75,110                               |
| Washington.....                               | 49             | 13                                 | 842            | 6,164             | 675                | 1,298             | 4,765           | 9,351                                | 10,135            | 20,017             | 242                       | 777              | 7,580                                |
| Oregon.....                                   | 41             | 8                                  | 683            | 4,406             | 550                | 1,059             | 3,196           | 6,889                                | 9,758             | 16,898             | (D)                       | 860              | 7,945                                |
| California.....                               | 411            | 88                                 | 6,471          | 44,222            | 5,025              | 10,012            | 30,789          | 76,408                               | 72,800            | 150,030            | 2,613                     | 5,414            | 59,585                               |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                    | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3446.—ARCHITECTURAL METAL WORK         |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                      | 1,334          | 173                                | 15,587         | 86,956            | 12,474             | 24,195            | 60,613          | 148,763                              | 119,313           | 269,256            | 6,102                     | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| New England.....                                | 68             | 7                                  | 810            | 5,013             | 618                | 1,152             | 3,279           | 8,942                                | 5,174             | 14,030             | 479                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Massachusetts....                               | 30             | 4                                  | 209            | 1,165             | 172                | 334               | 855             | 1,968                                | 1,443             | 3,429              | 56                        | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Connecticut.....                                | 27             | 3                                  | 584            | 3,782             | 429                | 784               | 2,358           | 6,820                                | 3,657             | 10,371             | (D)                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Middle Atlantic....                             | 400            | 50                                 | 4,611          | 26,324            | 3,747              | 7,256             | 19,165          | 44,935                               | 36,322            | 80,868             | 1,596                     | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| New York.....                                   | 173            | 29                                 | 2,016          | 11,156            | 1,593              | 3,130             | 7,784           | 20,805                               | 13,809            | 34,287             | 889                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| New Jersey.....                                 | 93             | 5                                  | 544            | 3,178             | 434                | 853               | 2,210           | 5,916                                | 3,637             | 9,540              | 102                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Pennsylvania....                                | 134            | 16                                 | 2,051          | 11,990            | 1,720              | 3,273             | 9,171           | 18,214                               | 18,876            | 37,041             | 605                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| East North Central.                             | 243            | 41                                 | 3,208          | 18,477            | 2,488              | 4,885             | 12,274          | 34,025                               | 24,873            | 59,373             | 1,101                     | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Ohio.....                                       | 75             | 16                                 | 1,238          | 6,898             | 978                | 1,890             | 4,669           | 13,318                               | 8,068             | 21,105             | 351                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Indiana.....                                    | 25             | 3                                  | 252            | 1,493             | 183                | 364               | 1,021           | 3,168                                | 3,509             | 6,642              | 33                        | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Illinois.....                                   | 76             | 11                                 | 927            | 4,929             | 737                | 1,474             | 3,548           | 8,195                                | 6,451             | 15,731             | 383                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Michigan.....                                   | 45             | 8                                  | 505            | 3,375             | 400                | 775               | 2,064           | 6,102                                | 4,737             | 10,614             | 272                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Wisconsin.....                                  | 22             | 3                                  | 286            | 1,782             | 190                | 382               | 972             | 3,242                                | 2,108             | 5,281              | 62                        | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| West North Central.                             | 77             | 10                                 | 727            | 3,898             | 592                | 1,141             | 2,811           | 6,743                                | 5,062             | 11,757             | 249                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Minnesota.....                                  | 20             | 5                                  | 263            | 1,475             | 216                | 418               | 1,062           | 2,216                                | 1,575             | 3,743              | 84                        | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Missouri.....                                   | 26             | 2                                  | 283            | 1,529             | 227                | 433               | 1,059           | 2,787                                | 1,600             | 4,318              | 112                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| South Atlantic....                              | 179            | 18                                 | 1,761          | 8,629             | 1,404              | 2,757             | 5,938           | 14,555                               | 13,722            | 28,643             | 542                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Maryland.....                                   | 32             | 2                                  | 413            | 2,289             | 296                | 578               | 1,376           | 4,408                                | 4,090             | 8,502              | 185                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Virginia.....                                   | 22             | 5                                  | 539            | 2,463             | 446                | 886               | 1,767           | 3,364                                | 3,148             | 6,629              | 103                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| South Carolina...                               | 11             | 2                                  | 101            | 345               | 80                 | 155               | 247             | 849                                  | 888               | 1,745              | 33                        | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Georgia.....                                    | 22             | 2                                  | 129            | 579               | 104                | 205               | 404             | 1,356                                | 1,324             | 2,680              | 65                        | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Florida.....                                    | 50             | 4                                  | 342            | 1,720             | 283                | 553               | 1,260           | 2,588                                | 2,737             | 5,532              | 88                        | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| East South Central..                            | 71             | 8                                  | 734            | 3,386             | 619                | 1,164             | 2,535           | 4,855                                | 6,889             | 11,967             | 298                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Kentucky.....                                   | 15             | 4                                  | 292            | 1,540             | 241                | 448               | 1,154           | 2,178                                | 1,846             | 4,017              | 150                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Alabama.....                                    | 21             | 2                                  | 231            | 789               | 205                | 371               | 621             | 810                                  | 2,624             | 3,637              | 68                        | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| West South Central.                             | 106            | 8                                  | 935            | 4,652             | 723                | 1,399             | 2,951           | 8,637                                | 6,637             | 14,784             | 610                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Oklahoma.....                                   | 11             | 2                                  | 115            | 641               | 93                 | 180               | 449             | 1,372                                | 669               | 1,929              | 89                        | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Texas.....                                      | 66             | 6                                  | 720            | 3,584             | 546                | 1,057             | 2,183           | 6,114                                | 4,966             | 10,703             | 447                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Mountain.....                                   | 41             | 8                                  | 938            | 4,648             | 820                | 1,612             | 3,649           | 7,571                                | 5,798             | 13,312             | 207                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Colorado.....                                   | 11             | 1                                  | 100            | 564               | 82                 | 158               | 399             | 768                                  | 597               | 1,375              | 9                         | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Utah.....                                       | 10             | 4                                  | 271            | 1,575             | 223                | 433               | 1,165           | 3,097                                | 2,496             | 5,693              | 52                        | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Pacific.....                                    | 149            | 23                                 | 1,863          | 11,929            | 1,463              | 2,829             | 8,011           | 18,500                               | 14,836            | 34,522             | 1,020                     | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| California.....                                 | 117            | 21                                 | 1,740          | 11,150            | 1,359              | 2,622             | 7,468           | 17,089                               | 13,780            | 31,999             | 963                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| INDUSTRY 3449.—MISCELLANEOUS METAL WORK, N.E.C. |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                      | 697            | 246                                | 24,992         | 145,042           | 16,963             | 34,510            | 88,843          | 283,427                              | 420,857           | 704,166            | 11,475                    | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| New England.....                                | 21             | 10                                 | 424            | 2,321             | 337                | 717               | 1,643           | 3,926                                | 7,092             | 11,084             | 195                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Massachusetts....                               | 12             | 7                                  | 301            | 1,582             | 239                | 501               | 1,134           | 2,597                                | 4,874             | 7,434              | 181                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Middle Atlantic....                             | 163            | 37                                 | 3,253          | 19,808            | 2,088              | 4,126             | 11,464          | 37,132                               | 51,701            | 88,485             | 958                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| New York.....                                   | 65             | 12                                 | 3,303          | 8,497             | 823                | 1,605             | 4,647           | 13,595                               | 11,548            | 24,958             | 302                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| New Jersey.....                                 | 41             | 5                                  | 568            | 3,235             | 355                | 727               | 1,998           | 7,440                                | 13,735            | 21,129             | 299                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Pennsylvania....                                | 57             | 20                                 | 1,382          | 8,076             | 910                | 1,794             | 4,819           | 16,097                               | 26,418            | 42,398             | 357                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| East North Central.                             | 130            | 48                                 | 6,327          | 39,131            | 4,508              | 9,050             | 25,390          | 92,100                               | 127,272           | 215,911            | 4,591                     | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Ohio.....                                       | 33             | 13                                 | 1,700          | 10,889            | 1,283              | 2,407             | 7,658           | 24,835                               | 41,250            | 64,385             | 907                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Indiana.....                                    | 16             | 4                                  | 1,098          | 7,113             | 768                | 1,727             | 4,505           | 15,502                               | 14,299            | 29,299             | 431                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Illinois.....                                   | 46             | 22                                 | 2,940          | 17,826            | 2,025              | 4,067             | 11,199          | 46,094                               | 62,936            | 107,433            | 3,007                     | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Michigan.....                                   | 29             | 9                                  | 557            | 3,131             | 408                | 803               | 1,915           | 5,382                                | 8,540             | 14,249             | 232                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| West North Central.                             | 41             | 22                                 | 2,368          | 12,809            | 1,575              | 3,211             | 7,484           | 24,351                               | 31,546            | 56,487             | 889                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Minnesota.....                                  | 10             | 6                                  | 803            | 4,487             | 635                | 1,265             | 3,108           | 6,448                                | 9,753             | 16,490             | 214                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Missouri.....                                   | 10             | 2                                  | 246            | 1,318             | 136                | 258               | 667             | 2,745                                | 2,237             | 4,830              | 60                        | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Nebraska.....                                   | 8              | 5                                  | 711            | 4,070             | 436                | 935               | 2,001           | 7,974                                | 11,613            | 19,888             | 508                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Kansas.....                                     | 7              | 6                                  | 284            | 1,392             | 110                | 229               | 519             | 2,244                                | 5,237             | 7,752              | 34                        | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| South Atlantic....                              | 92             | 39                                 | 3,791          | 19,729            | 2,587              | 5,345             | 11,811          | 35,848                               | 69,426            | 105,861            | 1,802                     | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Maryland.....                                   | 14             | 6                                  | 952            | 5,297             | 490                | 977               | 2,354           | 9,164                                | 14,135            | 23,959             | 205                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Virginia.....                                   | 8              | 6                                  | 446            | 2,552             | 338                | 757               | 1,777           | 4,737                                | 8,655             | 13,160             | 101                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| North Carolina...                               | 8              | 3                                  | 275            | 1,358             | 170                | 351               | 623             | 1,970                                | 8,144             | 10,091             | 296                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Georgia.....                                    | 13             | 5                                  | 294            | 1,227             | 229                | 438               | 829             | 2,882                                | 5,228             | 8,027              | 285                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Florida.....                                    | 37             | 12                                 | 971            | 4,660             | 697                | 1,451             | 2,746           | 8,252                                | 18,198            | 26,430             | 357                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| East South Central.                             | 49             | 23                                 | 2,311          | 12,212            | 1,658              | 3,241             | 7,656           | 19,091                               | 36,414            | 57,841             | 468                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Kentucky.....                                   | 11             | 6                                  | 629            | 3,513             | 480                | 952               | 2,508           | 2,378                                | 5,617             | 9,737              | 86                        | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Alabama.....                                    | 18             | 9                                  | 1,256          | 6,747             | 860                | 1,663             | 3,873           | 12,976                               | 22,483            | 36,117             | 293                       | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                      | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |               |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|---------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |               |                                      |
| INDUSTRY 3449.—MISCELLANEOUS METAL WORK—Continued |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |               |                                      |
| West South Central..                              | 81             | 27                                 | 2,697          | 12,234            | 1,675              | 3,569             | 7,361           | 19,915                               | 41,070            | 61,479             | 709                       | (3)           | (3)                                  |
| Arkansas.....                                     | 6              | 2                                  | 117            | 402               | 102                | 211               | 333             | 516                                  | 1,062             | 1,613              | (D)                       | (3)           | (3)                                  |
| Louisiana.....                                    | 16             | 3                                  | 245            | 1,300             | 172                | 421               | 1,006           | 2,845                                | 4,323             | 7,017              | (D)                       | (3)           | (3)                                  |
| Oklahoma.....                                     | 9              | 4                                  | 298            | 1,768             | 209                | 446               | 1,128           | 3,039                                | 3,777             | 6,854              | 93                        | (3)           | (3)                                  |
| Texas.....  | 50             | 18                                 | 2,037          | 8,764             | 1,192              | 2,491             | 4,894           | 13,515                               | 31,908            | 45,995             | 545                       | (3)           | (3)                                  |
| Mountain.....                                     | 25             | 9                                  | 582            | 3,171             | 431                | 962               | 2,092           | 4,723                                | 10,299            | 14,937             | 191                       | (3)           | (3)                                  |
| Colorado.....                                     | 11             | 4                                  | 271            | 1,462             | 235                | 531               | 1,250           | 2,258                                | 6,373             | 8,622              | 41                        | (3)           | (3)                                  |
| Pacific.....                                      | 95             | 31                                 | 3,239          | 23,627            | 2,104              | 4,289             | 13,942          | 46,341                               | 46,037            | 92,081             | 1,672                     | (3)           | (3)                                  |
| Oregon.....                                       | 7              | 4                                  | 357            | 2,582             | 151                | 299               | 962             | 4,599                                | 8,181             | 12,964             | 275                       | (3)           | (3)                                  |
| California.....                                   | 77             | 25                                 | 2,788          | 20,405            | 1,900              | 3,885             | 12,674          | 40,991                               | 35,733            | 76,226             | 1,375                     | (3)           | (3)                                  |

(D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3441, Fabricated Structural Steel: New England—New Hampshire, 2 (20-99); Vermont, 3 (100-249); West North Central—North Dakota, 2 (100-249); South Dakota, 2 (100-249); South Atlantic—Delaware, 1 (1-19); District of Columbia, 2 (20-99); West Virginia, 9 (500-999); Mountain—Wyoming, 1 (1-19); New Mexico, 3 (20-99); Nevada, 3 (20-99); Pacific—Alaska, 1 (20-99); Hawaii, 4 (100-249).

SIC 3442, Metal Doors, Sash, and Trim: West North Central—North Dakota, 2 (1-19); South Dakota, 3 (1-19); South Atlantic—Delaware, 5 (20-99); District of Columbia, 3 (1-19); West Virginia, 10 (20-99); Mountain—Montana, 3 (1-19); Idaho, 2 (1-19); New Mexico, 1 (20-99); Arizona, 6 (20-99); Utah, 6 (100-249); Nevada, 2 (1-19); Pacific—Oregon, 15 (250-499); Alaska, 1 (1-19); Hawaii, 2 (20-99).

SIC 3443, Boiler shop products: New England—Maine, 3 (1-19); New Hampshire, 4 (20-99); Vermont, 1 (1-19); Rhode Island, 7 (20-99); West North Central—North Dakota, 1 (1-19); South Dakota, 4 (20-99); South Atlantic—District of Columbia, 1 (20-99); West Virginia, 4 (20-99); East South Central—Tennessee, 16 (4,080); Mississippi, 6 (1,118); Mountain—Montana, 2 (20-99); Idaho, 3 (110); Wyoming, 1 (1-19); New Mexico, 4 (20-99); Arizona, 2 (20-99); Nevada, 1 (1-19); Pacific—Washington, 24 (250-499); Alaska, 2 (1-19).

SIC 3444, Sheet Metal Work: New England—Maine, 7 (20-99); Vermont, 3 (20-99); West North Central—North Dakota, 3 (20-99); South Dakota, 7 (243); South Atlantic—Delaware, 3 (1-19); District of Columbia, 3 (184); South Carolina, 28 (137); Mountain—Montana, 7 (20-99); Idaho, 7 (20-99); Wyoming, 4 (20-99); New Mexico, 4 (20-99); Nevada, 1 (20-99); Pacific—Alaska, 3 (1-19); Hawaii, 3 (20-99).

SIC 3446, Architectural Metal Work: New England—Maine, 1 (1-19); New Hampshire, 3 (1-19); Vermont, 1 (1-19); Rhode Island, 6 (1-19); West North Central—Iowa, 13 (20-99); South Dakota, 1 (1-19); South Atlantic—Delaware, 6 (20-99); District of Columbia, 6 (20-99); West Virginia, 4 (1-19); North Carolina, 26 (20-99); East South Central—Tennessee, 29 (153); Mississippi, 6 (20-99); West South Central—Arkansas, 10 (20-99); Louisiana, 19 (20-99); Mountain—Montana, 2 (1-19); Idaho, 4 (1-19); New Mexico, 4 (1-19); Arizona, 7 (500-999); Nevada, 3 (20-99); Pacific—Washington, 21 (20-99); Oregon, 9 (20-99); Alaska, 1 (1-19); Hawaii, 1 (1-19).

SIC 3449, Miscellaneous Metal Work: New England—Maine, 1 (20-99); New Hampshire, 1 (1-19); Rhode Island, 3 (20-99); Connecticut, 4 (20-99); East North Central—Wisconsin, 6 (20-99); West North Central—Iowa, 5 (250-499); South Dakota, 1 (1-19); South Atlantic—Delaware, 1 (20-99); West Virginia, 3 (250-499); South Carolina, 8 (250-499); East South Central—Tennessee, 17 (329); Mississippi, 3 (20-99); Mountain—Idaho, 1 (1-19); New Mexico, 4 (20-99); Arizona, 6 (143); Utah, 2 (20-99); Nevada, 1 (20-99); Pacific—Washington, 10 (20-99); Hawaii, 1 (1-19).

<sup>2</sup>This State was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.<sup>3</sup>Comparable data for 1958 are not available because of revisions in the Standard Industrial Classifications (see text for description of this change).



TABLE 3. Detailed Statistics: 1963

| Item   | Fabricated structural steel (SIC 3441) | Metal doors, sash, and trim (SIC 3442) | Boiler shop products (SIC 3443) | Sheet metal work (SIC 3444) | Architectural metal work (SIC 3446) | Miscellaneous metal work, n.e.c. (SIC 3449) |
|--|--|--|---------------------------------|-----------------------------|-------------------------------------|---|
| Primary product specialization ratio.....                      | .86                                    | .88                                    | .89                             | .88                         | .86                                 | .89   |
| Coverage ratio.....  | .89                                    | .94                                    | .83                             | .78                         | .71                                 | .68   |
| Establishments, total.....number..                             | 1,718                                  | 1,817                                  | 1,383                           | 3,250                       | 1,334                               | 697   |
| With 1 to 19 employees.....do....                              | 901                                    | 1,189                                  | 782                             | 2,495                       | 1,161                               | 451   |
| With 20 to 99 employees.....do....                             | 622                                    | 483                                    | 458                             | 655                         | 146                                 | 182   |
| With 100-employees or more.....do....                          | 195                                    | 145                                    | 143                             | 100                         | 27                                  | 64  |
| Proprietors and working partners.....do....                    | 561                                    | 665                                    | 562                             | 1,763                       | 1,002                               | 335   |
| All employees (average for the year).....do....                | 85,423                                 | 62,799                                 | 75,018                          | 61,651                      | 15,587                              | 24,992                                      |
| Payroll (all employees), total for year.....do....             | 527,220                                | 324,796                                | 465,372                         | 373,284                     | 86,956                              | 145,042                                     |
| Production workers:  |  |  |                                 |                             |                                     |   |
| Average for the year.....number..                              | 63,674                                 | 46,645                                 | 54,629                          | 48,041                      | 12,474                              | 16,963                                      |
| March.....do....   | 59,486                                 | 40,680                                 | 52,767                          | 45,351                      | 11,602                              | 14,897                                      |
| May.....do....   | 63,430                                 | 45,870                                 | 54,586                          | 47,362                      | 12,465                              | 16,885                                      |
| August.....do....  | 67,872                                 | 49,362                                 | 56,446                          | 50,773                      | 12,947                              | 18,164                                      |
| November.....do....  | 63,912                                 | 50,850                                 | 54,717                          | 48,678                      | 12,882                              | 17,906                                      |
| Man-hours.....1,000..  | 127,899                                | 95,727                                 | 111,409                         | 97,079                      | 24,195                              | 34,510                                      |
| January-March.....do....                                       | 29,271                                 | 20,516                                 | 26,751                          | 22,568                      | 5,666                               | 7,697                                       |
| April-June.....do....  | 32,680                                 | 23,750                                 | 28,211                          | 24,323                      | 5,992                               | 8,768                                       |
| July-September.....do....                                      | 33,279                                 | 25,700                                 | 28,070                          | 25,125                      | 6,149                               | 9,099                                       |
| October-December.....do....                                    | 32,669                                 | 25,761                                 | 28,377                          | 25,063                      | 6,387                               | 8,946                                       |
| Wages.....\$1,000..  | 350,337                                | 206,127                                | 310,471                         | 264,665                     | 60,613                              | 88,843                                      |
| Cost of materials, etc., total.....do....                      | 1,140,975                              | 681,385                                | 860,612                         | 669,778                     | 119,313                             | 420,857                                     |
| Materials, parts, containers, and supplies consumed.....do.... | 947,245                                | 628,166                                | 755,278                         | 562,429                     | 99,865                              | 360,361                                     |
| Cost of resales.....do....                                     | 132,489                                | 31,176                                 | 53,463                          | 67,774                      | 6,223                               | 49,660                                      |
| Fuels consumed.....do....                                      | 5,499                                  | 3,578                                  | 7,220                           | 4,429                       | 693                                 | 1,708                                       |
| Electric energy:   |  |  |                                 |                             |                                     |   |
| Purchased:   |  |  |                                 |                             |                                     |   |
| Quantity.....million kw.-hrs..                                 | 627                                    | 384                                    | 685                             | 302                         | 116                                 | 201   |
| Cost.....\$1,000..   | 8,809                                  | 6,036                                  | 9,490                           | 5,739                       | 1,511                               | 3,734                                       |
| Generated less sold.....million kw.-hrs..                      | (Z)                                    | (D)                                    | 1                               | 3                           | 1                                   | (D)   |
| Contract work.....\$1,000..                                    | 46,933                                 | 12,429                                 | 35,161                          | 29,407                      | 11,021                              | 5,394                                       |
| Value of shipments (including resales), total.....do....       | 1,916,048                              | 1,253,814                              | 1,622,988                       | 1,303,670                   | 269,256                             | 704,166                                     |
| Value of resales.....do....                                    | 165,992                                | 45,549                                 | 68,090                          | 88,088                      | 7,776                               | 66,073                                      |
| Value added by manufacture, adjusted.....do....                | 814,805                                | 570,370                                | 770,064                         | 632,384                     | 148,763                             | 283,427                                     |
| Manufacturers' inventories:                                    |  |  |                                 |                             |                                     |   |
| Beginning of year, total.....do....                            | 463,213                                | 177,335                                | 316,752                         | 184,766                     | 40,481                              | 107,173                                     |
| Finished products.....do....                                   | 24,072                                 | 47,571                                 | 35,499                          | 47,859                      | 6,290                               | 37,154                                      |
| Work-in-process.....do....                                     | 272,188                                | 38,177                                 | 155,376                         | 52,169                      | 15,957                              | 23,054                                      |
| Materials, supplies, fuel, etc.....do....                      | 166,953                                | 91,587                                 | 125,877                         | 84,738                      | 18,234                              | 46,965                                      |
| End of year, total.....do....                                  | 497,896                                | 180,041                                | 319,523                         | 189,123                     | 39,441                              | 109,852                                     |
| Finished products.....do....                                   | 28,091                                 | 46,213                                 | 36,556                          | 46,758                      | 6,468                               | 36,715                                      |
| Work-in-process.....do....                                     | 307,901                                | 37,476                                 | 162,007                         | 51,762                      | 14,599                              | 23,611                                      |
| Materials, supplies, fuel, etc.....do....                      | 161,904                                | 96,352                                 | 120,960                         | 90,603                      | 18,374                              | 49,526                                      |
| Expenditures for plant and equipment, total.....do....         | 31,283                                 | 23,207                                 | 38,856                          | 28,637                      | 6,496                               | 12,204                                      |
| New, total.....do....  | 28,162                                 | 21,305                                 | 32,910                          | 26,180                      | 6,102                               | 11,475                                      |
| New structures and additions to plant.....do....               | 10,347                                 | 5,029                                  | 9,359                           | 7,876                       | 2,084                               | 3,815                                       |
| New machinery and equipment.....do....                         | 17,815                                 | 16,276                                 | 23,551                          | 18,304                      | 4,018                               | 7,660                                       |
| Used plant and equipment.....do....                            | 3,121                                  | 1,901                                  | 5,946                           | 2,457                       | 394                                 | 729   |
| Selected operating ratios:                                     |  |  |                                 |                             |                                     |   |
| Payroll/Total employment.....                                  | 6,172                                  | 5,172                                  | 6,203                           | 6,055                       | 5,579                               | 5,804                                       |
| Production workers/Total employment.....                       | .75                                    | .74                                    | .73                             | .78                         | .80                                 | .68   |
| Man-hours/Production workers.....                              | 2,009                                  | 2,052                                  | 2,039                           | 2,021                       | 1,939                               | 2,034                                       |
| Production worker wages/Man-hours.....                         | 2.74                                   | 2.15                                   | 2.79                            | 2.73                        | 2.51                                | 2.57  |
| Cost of materials and payrolls/Total value of shipments..      | .87                                    | .80                                    | .82                             | .80                         | .77                                 | .80   |
| Cost of materials/Total value of shipments.....                | .60                                    | .54                                    | .53                             | .51                         | .44                                 | .60   |
| Adjusted value added/Total employment.....                     | 9,538                                  | 9,082                                  | 10,249                          | 10,257                      | 9,544                               | 11,341                                      |
| Salaries and wages/Adjusted value added.....                   | .65                                    | .57                                    | .61                             | .59                         | .58                                 | .51   |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

(D) Withheld to avoid disclosing figures for individual companies.

(Z) Less than 500 thousand KWH.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3441.—FABRICATED STRUCTURAL STEEL      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 1,718                 | 273                                | 262              | 366                | 430                | 192                | 142                  | 35                   | 13                   | 4                        | 1                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                               | 85,423                | 519                                | 1,818            | 5,131              | 13,219             | 13,304             | 22,544               | 12,493               | 7,636                | 8,759                    | (D)                      |
| Payroll.....\$1,000..                           | 527,220               | 2,907                              | 10,221           | 30,337             | 80,884             | 85,237             | 135,769              | 78,449               | 48,607               | 54,809                   | (D)                      |
| Value added, adjusted.....do.....               | 814,805               | 7,286                              | 18,803           | 49,119             | 133,618            | 141,728            | 225,512              | 112,407              | 61,953               | 64,379                   | (D)                      |
| Value of shipments.....do.....                  | 1,916,048             | 14,056                             | 38,069           | 104,861            | 294,820            | 319,855            | 557,576              | 302,730              | 146,641              | 137,440                  | (D)                      |
| Capital expenditures, new.....do.....           | 28,162                | 357                                | 808              | 2,113              | 4,598              | 4,177              | 5,995                | 4,455                | 3,970                | 1,689                    | (D)                      |
| INDUSTRY 3442.—METAL DOOR, SASH, AND TRIM       |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 1,817                 | 528                                | 310              | 351                | 338                | 145                | 104                  | 31                   | 9                    | 1                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                               | 62,799                | 1,076                              | 2,140            | 4,921              | 10,484             | 10,035             | 16,217               | 10,887               | 7,039                | (D)                      | -                        |
| Payroll.....\$1,000..                           | 324,796               | 4,814                              | 10,244           | 22,636             | 51,659             | 51,639             | 80,499               | 63,488               | 39,817               | (D)                      | -                        |
| Value added, adjusted.....do.....               | 570,370               | 10,274                             | 18,690           | 40,685             | 90,443             | 95,412             | 141,670              | 99,565               | 73,631               | (D)                      | -                        |
| Value of shipments.....do.....                  | 1,253,814             | 24,404                             | 43,913           | 95,301             | 218,726            | 209,709            | 310,791              | 211,730              | 139,694              | (D)                      | -                        |
| Capital expenditures, new.....do.....           | 21,305                | 491                                | 644              | 1,322              | 3,790              | 3,797              | 4,780                | 3,008                | 3,473                | (D)                      | -                        |
| INDUSTRY 3443.—BOILER SHOP PRODUCTS             |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 1,383                 | 314                                | 208              | 260                | 304                | 154                | 94                   | 21                   | 24                   | 2                        | 2                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                               | 75,018                | 617                                | 1,427            | 3,669              | 9,724              | 10,587             | 14,511               | 7,573                | 26,910               | (D)                      | (D)                      |
| Payroll.....\$1,000..                           | 465,372               | 4,181                              | 7,386            | 20,829             | 58,069             | 64,093             | 87,709               | 48,132               | 174,973              | (D)                      | (D)                      |
| Value added, adjusted.....do.....               | 770,064               | 9,078                              | 13,423           | 35,159             | 98,252             | 106,477            | 136,738              | 83,015               | 287,922              | (D)                      | (D)                      |
| Value of shipments.....do.....                  | 1,622,988             | 16,028                             | 25,609           | 70,529             | 152,064            | 234,997            | 312,278              | 180,852              | 567,631              | (D)                      | (D)                      |
| Capital expenditures, new.....do.....           | 32,910                | 1,203                              | 557              | 1,242              | 4,093              | 4,878              | 7,712                | 2,892                | 9,533                | (D)                      | (D)                      |
| INDUSTRY 3444.—SHEET METAL WORK                 |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 3,250                 | 1,305                              | 587              | 603                | 478                | 177                | 80                   | 15                   | 5                    | -                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                               | 61,651                | 2,395                              | 3,891            | 8,215              | 14,653             | 12,204             | 11,542               | 5,403                | 3,348                | -                        | -                        |
| Payroll.....\$1,000..                           | 373,284               | 12,258                             | 21,000           | 46,513             | 88,985             | 74,708             | 71,427               | 33,049               | 25,344               | -                        | -                        |
| Value added, adjusted.....do.....               | 632,384               | 25,036                             | 37,769           | 82,759             | 146,261            | 124,024            | 115,315              | 64,111               | 37,109               | -                        | -                        |
| Value of shipments.....do.....                  | 1,303,670             | 45,046                             | 72,241           | 163,883            | 298,021            | 245,049            | 244,930              | 133,905              | 100,595              | -                        | -                        |
| Capital expenditures, new.....do.....           | 26,180                | 1,347                              | 1,508            | 3,105              | 5,459              | 4,348              | 3,757                | 5,107                | 1,549                | -                        | -                        |
| INDUSTRY 3446.—ARCHITECTURAL METAL WORK         |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 1,334                 | 853                                | 179              | 129                | 107                | 39                 | 22                   | 4                    | 1                    | -                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                               | 15,587                | 1,553                              | 1,115            | 1,768              | 3,246              | 2,711              | 2,979                | 2,215                | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                           | 86,956                | 7,075                              | 5,564            | 9,623              | 18,313             | 15,750             | 17,317               | 13,314               | (D)                  | -                        | -                        |
| Value added, adjusted.....do.....               | 148,763               | 16,222                             | 10,527           | 16,393             | 30,484             | 27,101             | 29,711               | 18,325               | (D)                  | -                        | -                        |
| Value of shipments.....do.....                  | 269,256               | 27,844                             | 18,271           | 28,161             | 55,153             | 50,932             | 53,519               | 35,376               | (D)                  | -                        | -                        |
| Capital expenditures, new.....do.....           | 6,102                 | 667                                | 491              | 595                | 1,225              | 907                | 1,655                | 562                  | (D)                  | -                        | -                        |
| INDUSTRY 3449.—MISCELLANEOUS METAL WORK, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 697                   | 266                                | 84               | 101                | 120                | 62                 | 45                   | 14                   | 5                    | -                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                               | 24,992                | 412                                | 569              | 1,437              | 3,819              | 4,401              | 6,884                | 4,663                | 2,807                | -                        | -                        |
| Payroll.....\$1,000..                           | 145,042               | 2,507                              | 2,777            | 7,396              | 20,568             | 24,599             | 41,275               | 29,501               | 16,419               | -                        | -                        |
| Value added, adjusted.....do.....               | 283,427               | 5,357                              | 5,535            | 14,288             | 37,097             | 46,688             | 96,407               | 50,150               | 27,905               | -                        | -                        |
| Value of shipments.....do.....                  | 704,166               | 10,099                             | 11,642           | 29,739             | 111,597            | 131,251            | 233,407              | 114,290              | 62,141               | -                        | -                        |
| Capital expenditures, new.....do.....           | 11,475                | 246                                | 264              | 449                | 1,780              | 1,673              | 4,036                | 1,657                | 1,370                | -                        | -                        |

Note: Detailed figures may not add to the totals because of independent rounding.

- Represents zero. (D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

<sup>1</sup>Includes capital expenditures of \$1-2 million for plants under construction but not in operation, the exact amount is withheld to avoid disclosing information for individual companies.



**TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958**

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                             | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B:C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |  | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3441      | Fabricated structural steel.....1963..               | 1,916,048          | 1,432,515        | 236,844            | 246,689                | 86                                   | 1,603,982                          | 1,432,515             | 171,467                  | 89                            |
|           |  | 1,901,106          | 1,455,835        | 223,840            | 221,431                | 87                                   | 1,602,126                          | 1,455,835             | 146,291                  | 91                            |
| 3442      | Metal doors, sash, and trim.....1963..               | 1,253,814          | 1,045,535        | 135,888            | 72,391                 | 88                                   | 1,106,662                          | 1,045,535             | 61,127                   | 94                            |
|           |  | 1,037,371          | 886,920          | 82,574             | 67,877                 | 91                                   | 951,661                            | 886,920               | 64,741                   | 93                            |
| 3443      | Boiler shops products .....1963..                    | 1,622,988          | 1,310,479        | 168,329            | 144,180                | 89                                   | 1,580,802                          | 1,310,479             | 270,323                  | 83                            |
|           |  | 1,670,007          | 1,347,173        | 168,376            | 154,458                | 89                                   | 1,613,999                          | 1,347,173             | 266,826                  | 83                            |
| 3444      | Sheet metal work.....1963..                          | 1,303,670          | 1,030,649        | 139,393            | 133,628                | 88                                   | 1,324,673                          | 1,030,649             | 294,024                  | 78                            |
|           |  | 1,077,811          | 827,471          | 111,683            | 138,657                | 88                                   | 1,008,471                          | 827,471               | 181,000                  | 82                            |
| 3446      | Architectural metal work <sup>1</sup> .....1963..    | 269,256            | 218,854          | 35,979             | 14,423                 | 86                                   | 306,229                            | 218,854               | 87,375                   | 71                            |
| 3449      | Miscellaneous metal work, n.e.c. <sup>1</sup> 1963.. | 704,166            | 541,703          | 67,768             | 94,695                 | 89                                   | 793,330                            | 541,703               | 251,627                  | 68                            |

Note: See table 1, Explanation of terms, for primary product specialization and coverage ratios.

<sup>1</sup>Comparable data for 1958 are not available because of revisions in the Standard Industrial Classification (see text for description of this change).

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code | Class of products and miscellaneous receipts   | All industries | Fabricated structural metal (SIC 3441) | Metal doors, sash, and trim (SIC 3442) | Boiler shop products (SIC 3443) | Sheet metal work (SIC 3444) | Architectural metal work (SIC 3446) | Miscellaneous metal work, n.e.c. (SIC 3449) | Blast furnaces and steel mills (SIC 3312) | Heating equipment, except electric (SIC 3433) | Ship building and repairing (SIC 3731) | Other industries |
|------------------|--|----------------|--|--|---------------------------------|-----------------------------|-------------------------------------|---|---|---|--|------------------|
| 344--            | Total shipments of the industry.....   | (X)            | 1,916,048                              | 1,253,814                              | 1,622,988                       | 1,303,670                   | 269,256                             | 704,166                                     | (X)                                       | (X)   | (X)                                    | (X)              |
| 3441-            | Structural metal products.....   | (X)            | 1,613,946                              | 1,133,067                              | 1,366,487                       | 1,096,241                   | 238,875                             | 591,466                                     | 150,072                                   | 36,301  | 39,851                                 | (X)              |
| 3441-            | Fabricated structural steel, total.....  | 1,603,982      | 1,432,515                              | 6,384                                  | 32,386                          | 12,249                      | 7,533                               | 11,544                                      | (D)                                       | (D)   | (D)                                    | 60,585           |
| 34411            | Fabricated structural metal for buildings.....   | 984,049        | 894,472                                | 5,136                                  | 20,738                          | 10,521                      | (D)                                 | 10,479                                      | (D)                                       | (-)   | 6,826                                  | 233,685          |
| 34412            | Fabricated structural metal for bridges.....   | 224,879        | 209,943                                | 2,426                                  | 2,426                           | 445                         | (D)                                 | (D)   | (D)                                       | (D)   | (D)                                    | 37,702           |
| 34413            | Other fabricated structural metal.....   | 287,248        | 221,906                                | (D)                                    | 9,073                           | (D)                         | 2,408                               | 979   | (D)                                       | (D)   | 25,823                                 | 418,504          |
| 34410            | Fabricated structural metal, n.s.k.....  | 107,806        | 106,194                                | -                                      | 149                             | (D)                         | (D)                                 | (D)   | (D)                                       | (D)   | -                                      | 694              |
| 3442-            | Metal doors, sash, and trim, total.....  | 1,106,602      | 11,092                                 | 1,045,535                              | (D)                             | 4,886                       | 2,454                               | 6,507                                       | (D)                                       | (D)   | (D)                                    | 35,271           |
| 34421            | Metal doors and frames (except storm doors).....   | 289,581        | 7,014                                  | 264,720                                | (D)                             | (D)                         | 1,246                               | 1,816                                       | (D)                                       | (D)   | (D)                                    | 513,138          |
| 34422            | Metal window sash and frames (except storm sash).....  | 308,781        | 3,687                                  | 289,257                                | (D)                             | (D)                         | 865                                 | 3,847                                       | (D)                                       | (D)   | (D)                                    | 610,099          |
| 34423            | Metal molding and trim and store fronts.....   | 116,800        | (D)                                    | 108,986                                | (D)                             | (D)                         | (D)                                 | (D)   | (D)                                       | (D)   | (D)                                    | 5,593            |
| 34424            | Metal combination screen and storm sash and doors.....   | 221,353        | (D)                                    | 217,685                                | (D)                             | 1,717                       | 166                                 | (D)   | (D)                                       | (D)   | (D)                                    | 1,656            |
| 34425            | Metal window and door screens (except combination), and metal window strip.....                            | 56,676         | (D)                                    | 52,797                                 | (D)                             | 350                         | (D)                                 | (D)   | (D)                                       | (D)   | (D)                                    | 3,513            |
| 34420            | Metal doors, sash, and trim, n.s.k.....  | 113,471        | -                                      | 112,090                                | (D)                             | (D)                         | (D)                                 | (D)   | (D)                                       | (D)   | (D)                                    | 1,272            |
| 3443-            | Boiler shop products, total.....   | 1,580,802      | 45,219                                 | 154                                    | 1,310,479                       | 20,328                      | 4,257                               | 954   | (D)                                       | 21,729  | (D)                                    | 163,078          |
| 34431            | Heat exchangers and steam condensers.....  | 374,197        | (D)                                    | (D)                                    | 106,916                         | (D)                         | (D)                                 | (D)   | (D)                                       | (D)   | (D)                                    | 747,737          |
| 34432            | Fabricated steel plate.....  | 368,093        | 31,418                                 | (D)                                    | 271,692                         | 6,473                       | 4,110                               | (D)   | 5,431                                     | (D)   | (D)                                    | 854,694          |
| 34433            | Steel power boilers, parts and attachments (over 15 p.s.i. steam working pressure).....                    | 340,739        | (D)                                    | (D)                                    | 318,582                         | (D)                         | (D)                                 | (D)   | (D)                                       | 18,625  | (D)                                    | (D)              |
| 34434            | Gas cylinders.....   | 46,348         | (D)                                    | (D)                                    | 30,116                          | (D)                         | (D)                                 | (D)   | (D)                                       | (D)   | (D)                                    | 9,515            |
| 34435            | Metal tanks, complete at factory (standard line pressure).....   | 104,442        | 3,117                                  | (D)                                    | 88,123                          | (D)                         | (D)                                 | (D)   | (D)                                       | 1,889   | (D)                                    | 9,357            |
| 34437            | Metal tanks, complete at factory (standard line, nonpressure).....   | 145,586        | 2,031                                  | (D)                                    | 118,083                         | 9,029                       | (D)                                 | (D)   | (D)                                       | (D)   | (D)                                    | 101,5764         |
| 34438            | Metal tanks and vessels, custom fabricated at the factory.....   | 191,109        | 7,056                                  | (D)                                    | 173,370                         | (D)                         | (D)                                 | (D)   | (D)                                       | (D)   | (D)                                    | 11,15,879        |
| 34439            | Metal tanks and vessels, custom fabricated and field erected.....  | 123,278        | (D)                                    | (D)                                    | 118,967                         | 577                         | (D)                                 | (D)   | (D)                                       | (D)   | (D)                                    | (D)              |
| 34430            | Fabricated plate work (boiler shops), n.s.k.....   | 88,555         | (D)                                    | (D)                                    | 84,530                          | (D)                         | (D)                                 | (D)   | (D)                                       | (D)   | (D)                                    | 3,531            |
| 3444-            | Sheet metal work, total.....   | 1,324,673      | 31,094                                 | 32,457                                 | 20,042                          | 1,030,649                   | 1,333                               | 14,230                                      | 41,560                                    | 11,747  | (D)                                    | 141,541          |
| 34441            | Sheet metal roofing, siding, and drainage equipment.....   | 306,172        | 15,408                                 | 15,917                                 | (D)                             | 188,978                     | (D)                                 | 7,450                                       | 31,465                                    | (D)   | (D)                                    | 124,5,932        |
| 34442            | Culverts, flumes, irrigation pipes.....  | 137,527        | 7,782                                  | (D)                                    | 11,024                          | 101,508                     | (D)                                 | (D)   | (D)                                       | (D)   | (D)                                    | (D)              |
| 34443            | Other sheet metal work.....  | 731,750        | 7,568                                  | 15,767                                 | 7,423                           | 595,854                     | 824                                 | (D)   | (D)                                       | 11,440  | (D)                                    | 1380,528         |
| 34440            | Sheet metal work, n.s.k.....   | 149,224        | 336                                    | (D)                                    | (D)                             | 144,309                     | (D)                                 | (D)   | (D)                                       | (D)   | (D)                                    | 2,997            |
| 34460            | Ornamental and structural metal work.....  | 306,229        | 30,688                                 | 6,900                                  | (D)                             | 7,897                       | 218,854                             | 16,528                                      | (D)                                       | (D)   | (D)                                    | 1421,627         |
| 3449-            | Miscellaneous metal work, total.....   | 793,330        | 63,338                                 | 41,637                                 | 1,374                           | 20,232                      | 4,424                               | 541,703                                     | 90,223                                    | 127   | (D)                                    | 30,272           |
| 34492            | Prefabricated and portable metal buildings and parts.....  | 224,549        | (D)                                    | (D)                                    | 1,302                           | (D)                         | (D)                                 | 182,344                                     | (D)                                       | (D)   | (D)                                    | 1514,833         |
| 34493            | Miscellaneous metal building materials.....  | 506,500        | 56,677                                 | 31,357                                 | (D)                             | (D)                         | 775                                 | 299,529                                     | 90,223                                    | (D)   | (D)                                    | 1627,359         |
| 34490            | Miscellaneous metal work, n.s.k.....   | 62,281         | (D)                                    | (D)                                    | (D)                             | (D)                         | (D)                                 | 59,830                                      | (D)                                       | (D)   | (D)                                    | 267              |
| 24315            | Other products.....  | (X)            | 55,413                                 | 48,356                                 | 112,321                         | 71,820                      | 15,870                              | 18,005                                      | (X)                                       | (X)   | (X)                                    | (X)              |
| 25144            | Other wood doors, including garage, screen, storm and combination screen and storm, toilet and louvre..... | (X)            | -                                      | 2,107                                  | (D)                             | (D)                         | (D)                                 | (D)   | (X)                                       | (X)   | (X)                                    | (X)              |
| 29523            | Other metal household furniture.....   | (X)            | -                                      | (D)                                    | (D)                             | 2,659                       | (D)                                 | (D)   | (X)                                       | (X)   | (X)                                    | (X)              |
| 32316            | Asphalt and tar roofing and siding products.....   | (X)            | -                                      | (D)                                    | (D)                             | 2,837                       | (D)                                 | (D)   | (X)                                       | (X)   | (X)                                    | (X)              |
| 34294            | Other glass products.....  | (X)            | (D)                                    | 3,357                                  | (D)                             | (D)                         | (D)                                 | (D)   | (X)                                       | (X)   | (X)                                    | (X)              |
| 34294            | Builders' hardware.....  | (X)            | (D)                                    | 2,762                                  | (D)                             | (D)                         | (D)                                 | (D)   | (X)                                       | (X)   | (X)                                    | (X)              |
| 34335            | Steel heating boilers (15 p.s.i. and under) except parts.....  | (X)            | (D)                                    | 3,831                                  | (D)                             | (D)                         | (D)                                 | (D)   | (X)                                       | (X)   | (X)                                    | (X)              |
| 34336            | Other heating equipment (except electric) and parts for nonelectric heating equipment.....                 | (X)            | (D)                                    | 420                                    | (D)                             | (D)                         | (D)                                 | (D)   | (X)                                       | (X)   | (X)                                    | (X)              |
| 34612            | Job stampings, except automotive.....  | (X)            | (D)                                    | 1,802                                  | (D)                             | 1,020                       | (D)                                 | (D)   | (X)                                       | (X)   | (X)                                    | (X)              |
| 34618            | Other stamped and pressed metal and products.....  | (X)            | (D)                                    | 1,802                                  | (D)                             | 3,087                       | (D)                                 | (D)   | (X)                                       | (X)   | (X)                                    | (X)              |
| 34815            | Nonferrous wire cloth and other woven nonferrous wire products, not made by wire drawers.....              | (X)            | (D)                                    | 2,087                                  | (D)                             | 2,737                       | (D)                                 | (D)   | (X)                                       | (X)   | (X)                                    | (X)              |



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963—Continued

| Prod. class code | Class of products and miscellaneous receipts                  | All industries | Fabricated structural metal (SIC 3441) | Metal doors, sash, and trim (SIC 3442) | Boiler shop products (SIC 3443) | Sheet metal work (SIC 3444) | Architectural metal work (SIC 3446) | Miscellaneous metal work, n.e.c. (SIC 3449) | Blast furnaces and steel mills (SIC 3312) | Heating equipment, except electric (SIC 3433) | Ship building and repairing (SIC 3731) | Other industries |
|------------------|---|----------------|--|--|---------------------------------|-----------------------------|-------------------------------------|---|---|---|--|------------------|
|                  | Other products—Continued                                      |                |  |  |                                 |                             |                                     |   |   |   |  |                  |
| 34990            | Other fabricated wire products, not produced by wire drawers. | (X)            | 2,108                                  | (D)                                    | (D)                             | 1,486                       | (D)                                 | 5,561                                       | (X)                                       | (X)   | (X)                                    | (X)              |
| 35591            | Fabricated metal products, n.e.c.                             | (X)            | 786                                    | 2,220                                  | 2,868                           | 9,026                       | 1,361                               | 1,187                                       | (X)                                       | (X)   | (X)                                    | (X)              |
| 35595            | Chemical manufacturing industries machinery and equipment.    | (X)            | (D)                                    | -                                      | 4,676                           | -                           | -                                   | -   | (X)                                       | (X)   | (X)                                    | (X)              |
| 35690            | Other special industrial machinery and equipment.             | (X)            | 948                                    | -                                      | 12,062                          | (D)                         | (D)                                 | (D)   | (X)                                       | (X)   | (X)                                    | (X)              |
| 35990            | General industrial machinery and equipment, n.e.c.            | (X)            | (D)                                    | (D)                                    | 1,310                           | 451                         | (D)                                 | (D)   | (X)                                       | (X)   | (X)                                    | (X)              |
| 36392            | Carburetors, pistons, and other machine shop products.        | (X)            | 4,696                                  | -                                      | 3,156                           | -                           | -                                   | -   | (X)                                       | (X)   | (X)                                    | (X)              |
| 37150            | Household water heaters, except electric.                     | (X)            | (D)                                    | -                                      | 2,432                           | (D)                         | -                                   | -   | (X)                                       | (X)   | (X)                                    | (X)              |
| 39881            | Truck trailers.   | (X)            | (D)                                    | -                                      | 2,276                           | -                           | -                                   | -   | (X)                                       | (X)   | (X)                                    | (X)              |
|                  | Metal caskets and coffins, completely lined and trimmed.      | (X)            | 1,846,875                              | 1,933,601                              | 20,965,270                      | 21,448,517                  | 14,509                              | 22,112,257                                  | (X)                                       | (X)   | (X)                                    | (X)              |
|                  | Other secondary products <sup>17</sup> .                      | (X)            | -                                      | -                                      | -                               | -                           | -                                   | -   | (X)                                       | (X)   | (X)                                    | (X)              |
|                  | Miscellaneous receipts.                                       | (X)            | 246,689                                | 72,391                                 | 144,180                         | 133,628                     | 14,423                              | 94,695                                      | (X)                                       | (X)   | (X)                                    | (X)              |
|                  | Contract and commission work.                                 | (X)            | 17,321                                 | 5,511                                  | 21,050                          | 20,775                      | 883                                 | 3,886                                       | (X)                                       | (X)   | (X)                                    | (X)              |
|                  | Scrap.  | (X)            | 4,031                                  | 3,861                                  | 4,038                           | 2,263                       | 452                                 | 1,092                                       | (X)                                       | (X)   | (X)                                    | (X)              |
|                  | Installation work by manufacturing plant employees.           | (X)            | 47,133                                 | 11,356                                 | 19,656                          | 14,522                      | 3,303                               | 14,876                                      | (X)                                       | (X)   | (X)                                    | (X)              |
|                  | Resales.  | (X)            | 165,992                                | 45,549                                 | 68,090                          | 88,088                      | 7,776                               | 66,073                                      | (X)                                       | (X)   | (X)                                    | (X)              |
|                  | Other.  | (X)            | 12,212                                 | 6,114                                  | 31,346                          | 7,980                       | 2,009                               | 6,765                                       | (X)                                       | (X)   | (X)                                    | (X)              |

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.  
 (X) Not applicable.  
<sup>1</sup> Less than \$100 thousand.  
<sup>2</sup> Includes \$3,545 thousand produced in industry 3321, Gray Iron Foundries; and an amount between \$2 and \$5 million each produced in industry 3531, Construction Machinery; and industry 3535, Conveyors.  
<sup>3</sup> Includes an amount between \$2 and \$5 million each produced in industry 3491, Metal Barrels, Drums, and Pails; and industry 3642, Lighting Fixtures.  
<sup>4</sup> Includes an amount between \$5 and \$10 million produced in industry 3312, Blast Furnaces and Steel Mills; and amount between \$2 and \$5 million produced in industry 3461, Metal Stampings.  
<sup>5</sup> Includes \$2,914 thousand produced in industry 2431, Millwork Plants; and \$2,213 thousand produced in industry 2542, Metal Partitions and Fixtures.  
<sup>6</sup> Includes an amount between \$5 and \$10 million produced in industry 3352, Aluminum Rolling and Drawing.  
<sup>7</sup> Includes an amount between \$2 and \$5 million each produced in industry 3321, Gray Iron Foundries; industry 3519, Internal Combustion Engines; industry 3561, Pumps and Compressors; industry 3585, Refrigeration Machinery; and industry 3599, Miscellaneous Machinery; also an amount between \$5 and \$10 million produced in industry 3717, Motor Vehicles and Parts; and also an amount between \$10 and \$15 million produced in industry 3511, Steam Engines and Turbines.  
<sup>8</sup> Includes \$2,454 thousand produced in industry 3559, Special Industry Machines, N.E.C.; also an amount between \$5 and \$10 million each produced in industry 3461, Metal Stampings; industry 3523, Construction Machinery; and industry 3821, Mechanical Measuring Devices; also an amount between \$5 and \$10 million each produced in industry 3533, Oil Field Machinery; and industry 3351, Food Products Machinery.  
<sup>9</sup> Includes an amount between \$2 and \$5 million each produced in industry 1929, Ammunition, N.E.C.; and industry 3585, Refrigeration Machinery.  
<sup>10</sup> Includes an amount between \$2 and \$5 million each made in industry 3533, Oil Field Machinery; and industry 3351, Food Products Machinery.  
<sup>11</sup> Includes an amount between \$2 and \$5 million each produced in industry 3494, Valves and Pipe Fittings.  
<sup>12</sup> Includes \$34,360 thousand produced in industry 3352, Aluminum Rolling and Drawing; \$3,369 thousand produced in industry 3461, Metal Stampings; and also an amount between \$2 and \$5 million produced in industry 3497, Metal Foil and Leaf.  
<sup>13</sup> Includes \$2,240 thousand produced in industry 2542, Metal Partitions and Fixtures; \$5,402 thousand produced in industry 2591, Venetian Blinds and Shades; \$7,881 thousand produced in industry 3461, Metal Stampings; \$8,308 thousand produced in industry 3285, Refrigeration Machinery; and \$2,055 thousand produced in industry 3717, Motor Vehicles and Parts; also an amount between \$2 and \$5 million each produced in industry 3079, Plastic Products, N.E.C.; industry 3494, Valves and Pipe Fittings; industry 3576, Scales and Balances; and industry 3639, Household Appliances, N.E.C.; and also an amount between \$5 and \$10 million produced in industry 3822, Automatic Temperature Controls.  
<sup>14</sup> Includes \$2,283 thousand produced in industry 3662, Radio, TV Communication Equipment; and also an amount between \$2 and \$5 million produced in industry 3355, Conveyors; and industry 3564, Blowers and Fans.  
<sup>15</sup> Includes an amount between \$5 and \$10 million produced in industry 3352, Aluminum Rolling and Drawing; and also an amount between \$2 and \$5 million produced in industry 3729, Aircraft Equipment, N.E.C.  
<sup>16</sup> Includes an amount between \$2 and \$5 million each produced in industry 3531, Construction Machinery; and industry 3561, Pumps and Compressors.  
<sup>17</sup> Totals include specific product classes listed as "Other products" for which the symbol "D" appears in the table above.  
<sup>18</sup> Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 35361, Hoists; 35672, Fuel fired industrial furnaces and ovens; and 36425, Outdoor lighting equipment.  
<sup>19</sup> Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 25420, Metal partitions, shelving, lockers, and office and store fixtures; 29990, Products of petroleum and coal, n.e.c.; 35340, Elevators and moving stairways.  
<sup>20</sup> Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 19293, Ammunition, n.e.c.; 19990, Ordnance and accessories, n.e.c.; 34332, Warm air furnaces (except floor and wall) except parts; 34913, All other metal barrels, including beer barrels and fluid milk shipping containers; 34941, Metal valves for piping systems (except plumbing and heating valves); 35511, Dairy and milk products plant machinery and equipment, including dairy bottling machines; 35614, Air and gas compressors, except refrigerator compressors; 37292, Guided missile components and subassemblies, n.e.c.; and 37422, Freight train cars, new.  
<sup>21</sup> Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 35641, Industrial Fans and blowers; 35642, Dust collection, air purification equipment and air washers; 35673, High frequency induction and dielectric heating equipment and parts, attachments and components; and 35690, General industrial machinery, n.e.c.  
<sup>22</sup> Includes product class 36795, Other electronic components and accessories, n.e.c., including parts for electron tubes (except glass blanks), which totals more than \$2 million but is withheld to avoid disclosing individual company figures.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                     |           |                      |
|--------------|---|-----------------|--|---------------------|-----------|----------------------|
|              |   |                 | 1963   |                     | 1958      |                      |
|              |   |                 | Quantity                                       | Value (\$1,000)     | Quantity  | Value (\$1,000)      |
| 3441- --     | FABRICATED STRUCTURAL STEEL, TOTAL.....   |                 | (X)  | 1,603,982           | (X)       | 1,602,126            |
| 34411 --     | Fabricated structural metal for buildings.....  |                 | (X)  | 984,049             | (X)       | 930,399              |
|              | Iron and steel (for sale to other companies): <sup>1</sup>  |                 |  |                     |           |                      |
| 34411 21     | Industrial.....   | Short tons..... | 996,877  | 306,883             | 899,069   | 267,802              |
| 34411 25     | Commercial, residential, and institutional.....   | ...do.....      | 859,141  | 242,974             | 1,018,993 | 263,742              |
| 34411 27     | Public utilities:   |                 |  |                     |           |                      |
|              | Quantity reported.....  | ...do.....      | 105,480  | 34,389              | 173,776   | 56,128               |
|              | Quantity not reported.....  | .....           | (X)  | -                   | (X)       | 16,766               |
|              | Iron and steel (for installation by same company on the site of construction):  |                 |  |                     |           |                      |
| 34411 61     | Industrial.....   | Short tons..... | 452,286  | 160,129             | 281,612   | 100,089              |
| 34411 65     | Commercial, residential, and institutional.....   | ...do.....      | 538,511  | 165,590             | 319,885   | 103,653              |
| 34411 67     | Public utilities:   |                 |  |                     |           |                      |
|              | Quantity reported.....  | ...do.....      | 30,286   | 10,853              | 37,889    | 13,768               |
|              | Quantity not reported.....  | .....           | (X)  | 1,896               | (X)       | 3,230                |
| 34411 71     | Aluminum.....   | Short tons..... | 12,480   | 18,918              | (NA)      | (NA)                 |
| 34411 00     | Fabricated structural metal for buildings, n.s.k.....   | .....           | (X)  | 42,417              | (X)       | <sup>2</sup> 105,221 |
| 34412 --     | Fabricated structural metal for bridges.....  | Short tons..... | (X)  | 224,879             | 843,511   | 279,624              |
|              | Iron and steel (for sale to other companies):   |                 |  |                     |           |                      |
| 34412 11     | Highway bridges, trestles and viaducts.....   | ...do.....      | 506,476  | 136,068             | 659,091   | 219,183              |
| 34412 15     | Railway bridges, trestles and viaducts.....   | ...do.....      | 20,167   | 6,045               | 54,225    | 18,978               |
| 34412 51     | Iron and steel bridges, trestles and viaducts (highway and railway for installation by same company on the site of construction).....   | ...do.....      | 191,564  | 69,344              | 130,195   | 41,463               |
| 34412 71     | Aluminum.....   | .....           | (NA)   | 3,080               | (NA)      | (NA)                 |
| 34412 00     | Fabricated structural metal for bridges, n.s.k.....   | .....           | (X)  | 10,342              | (X)       | ( <sup>2</sup> )     |
| 34413 --     | Other fabricated structural metal.....  |                 | (X)  | 287,248             | (X)       | 261,992              |
|              | Iron and steel (for sale to other companies): <sup>1</sup>  |                 |  |                     |           |                      |
| 34413 11     | For ships, boats, and barges:   |                 |  |                     |           |                      |
|              | Quantity reported.....  | Short tons..... | 14,626   | 8,956               | 44,590    | 20,928               |
|              | Quantity not reported.....  | .....           | (X)  | 1,138               | (X)       | 4,347                |
| 34413 41     | For transmission towers, substations, radio antenna towers, and supporting structures.....  | Short tons..... | 151,959  | 50,460              | 160,936   | 59,948               |
| 34413 51     | Other fabricated structural iron and steel, excluding pressure vessels and storage tanks, fabricated reinforcing bars, bar joists, fabricated metal buildings, steel flooring and roof decks, which are separate: |                 |  |                     |           |                      |
|              | Quantity reported.....  | ...do.....      | 306,477  | 108,974             | 297,500   | 103,829              |
|              | Quantity not reported.....  | .....           | (X)  | 13,150              | (X)       | 18,467               |
|              | Iron and steel (for installation by same company on the site of construction or for shipbuilding):  |                 |  |                     |           |                      |
| 34413 61     | For ships, boats and barges.....  | .....           | (NA)   | <sup>3</sup> 32,500 | (NA)      | <sup>3</sup> 7,712   |
| 34413 71     | For transmission towers, substations, radio antenna towers, and supporting structures.....  | Short tons..... | 57,748   | 23,333              | 3,543     | 2,628                |
| 34413 81     | Other fabricated structural iron and steel, excluding pressure vessels and storage tanks, fabricated reinforcing bars, bar joists, fabricated metal buildings, steel flooring and roof decks, which are separate: |                 |  |                     |           |                      |
|              | Quantity reported.....  | ...do.....      | 59,759   | 22,527              | 64,366    | 36,495               |
|              | Quantity not reported.....  | .....           | (X)  | 7,713               | (X)       | 7,638                |
|              | Aluminum:   |                 |  |                     |           |                      |
| 34413 83     | For ships, boats, and barges.....   | .....           | (NA)   | <sup>3</sup> 516    | (NA)      | (NA)                 |
| 34413 85     | For transmission towers and other structures, excluding tanks, fabricated metal buildings, etc., which are separate.....  | .....           | (NA)   | 1,281               | (NA)      | (NA)                 |
| 34413 98     | Structural metal, other than iron, steel, or aluminum.....  | .....           | (NA)   | 1,644               | (NA)      | (NA)                 |
| 34413 00     | Other fabricated structural metal, n.s.k.....   | .....           | (X)  | 15,056              | (X)       | ( <sup>2</sup> )     |
| 34410 00     | Fabricated structural metal, n.s.k.....   | .....           | (X)  | 107,806             | (X)       | <sup>1</sup> 30,111  |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure | Total shipments including interplant transfers |                 |                  |                  |
|--------------|--|-----------------|--|-----------------|------------------|------------------|
|              |  |                 | 1963   |                 | 1958             |                  |
|              |  |                 | Quantity                                       | Value (\$1,000) | Quantity         | Value (\$1,000)  |
| 3442- --     | METAL DOORS, SASH, FRAMES, AND MOLDING AND TRIM, TOTAL.....              | .....           | (X)  | 1,106,662       | (X)              | 951,661          |
| 34421 --     | Metal doors and frames (except storm doors).....                         | .....           | (X)  | 289,581         | (X)              | 192,389          |
|              | Industrial:  |                 |  |                 |                  |                  |
|              | Overhead:  |                 |  |                 |                  |                  |
| 34421 13     | Aluminum.....  | No. of units..  | 12,186   | 3,678           | } 4 29,759       | } 4 12,286       |
| 34421 20     | Iron and steel, including stainless steel doors.....                     | ..do.....       | 61,432   | 16,781          |                  |                  |
|              | All other:   |                 |  |                 |                  |                  |
| 34421 14     | Aluminum.....  | ..do.....       | 219,878  | 18,179          | } 4 5171,358     | } 4 23,722       |
| 34421 21     | Iron and steel, including stainless steel doors:                         |                 |  |                 |                  |                  |
|              | Quantity reported.....   | ..do.....       | 228,311  | 19,549          |                  |                  |
|              | Quantity not reported.....   | ..do.....       | (X)  | 8,754           |                  |                  |
|              | Residential:   |                 |  |                 |                  |                  |
|              | Garage:  |                 |  |                 |                  |                  |
| 34421 15     | Aluminum.....  | ..do.....       | 192,867  | 9,581           | } 4 113,075      | } 4 5,601        |
| 34421 22     | Iron and steel, including stainless steel doors.....                     | ..do.....       | 126,869  | 8,141           |                  |                  |
| 34421 16     | Sliding (glass, patio type), aluminum.....                               | ..do.....       | 553,945  | 32,079          | } 4 558,559      | } 4 21,416       |
| 34421 18     | All other, excluding shower doors and tub enclosures:                    |                 |  |                 |                  |                  |
| 34421 29     | Aluminum.....  | ..do.....       | 438,855  | 11,753          |                  |                  |
|              | Iron and steel, including stainless steel doors.....                     | ..do.....       | 183,359  | 5,216           |                  |                  |
|              | Commercial and institutional, excluding shower doors and tub enclosures: |                 |  |                 |                  |                  |
| 34421 19     | Aluminum.....  | ..do.....       | 154,657  | 13,372          | } 4 6155,701     | } 4 24,523       |
| 34421 32     | Iron and steel, including stainless steel doors:                         |                 |  |                 |                  |                  |
|              | Quantity reported.....   | ..do.....       | 602,835  | 35,799          | } 532,604        | } 34,930         |
|              | Quantity not reported.....   | ..do.....       | (X)  | 7,628           |                  |                  |
| 34421 39     | Metal doors other than steel or aluminum.....                            | No. of units..  | (NA)   | 5,295           | ( <sup>4</sup> ) | ( <sup>4</sup> ) |
|              | Metal door frames, including trim sold as integral part of door frame:   |                 |  |                 |                  |                  |
| 34421 42     | Aluminum.....  | ..do.....       | 272,026  | 19,971          | } 2,080,377      | } 36,443         |
| 34421 44     | Steel.....   | ..do.....       | 2,798,022                                      | 44,638          |                  |                  |
| 34421 45     | Shower doors and tub enclosures.....                                     | ..do.....       | 467,832  | 9,725           | (NA)             | (NA)             |
| 34421 00     | Metal doors and door frames, n.s.k.....                                  | ..do.....       | (X)  | 19,442          | (X)              | 18,533           |
| 34422 --     | Metal window sash and frames (except storm sash).....                    | .....           | (X)  | 308,781         | (X)              | 285,311          |
|              | Steel:   |                 |  |                 |                  |                  |
|              | Residential:   |                 |  |                 |                  |                  |
| 34422 12     | Casement.....  | .....           | (NA)   | 8,128           | } (NA)           | } 94,172         |
| 34422 19     | All other.....   | .....           | (NA)   | 8,841           |                  |                  |
|              | Other, including commercial, industrial, etc.:                           |                 |  |                 |                  |                  |
| 34422 31     | Casement.....  | .....           | (NA)   | 3,192           | } 170,353        | } 14,489         |
| 34422 32     | Projected.....   | No. of units..  | 170,353  | 3,998           |                  |                  |
| 34422 39     | All other.....   | .....           | (NA)   | 14,489          |                  |                  |
|              | Aluminum:  |                 |  |                 |                  |                  |
|              | Residential:   |                 |  |                 |                  |                  |
| 34422 21     | Single and double-hung.....  | No. of units..  | 4,223,867                                      | 58,716          | } 77,782,207     | } 171,299        |
| 34422 22     | Awning.....  | ..do.....       | 1,540,563                                      | 20,817          |                  |                  |
| 34422 23     | Jalousie.....  | ..do.....       | (NA)   | 19,387          |                  |                  |
| 34422 24     | Horizontal sliding.....  | ..do.....       | (NA)   | 44,917          |                  |                  |
| 34422 29     | All other.....   | ..do.....       | (NA)   | 18,850          |                  |                  |
|              | Other, including commercial, industrial, etc.:                           |                 |  |                 |                  |                  |
| 34422 41     | Single and double-hung.....  | ..do.....       | (NA)   | 24,351          | } 856,292        | } 18,828         |
| 34422 42     | Awning.....  | ..do.....       | (NA)   | 8,519           |                  |                  |
| 34422 43     | Projected.....   | ..do.....       | 856,292  | 33,881          |                  |                  |
| 34422 49     | All other.....   | ..do.....       | (NA)   | 18,828          |                  |                  |
| 34422 98     | Metal window sash and frames, other than steel or aluminum.....          | ..do.....       | (NA)   | 508             | } (X)            | } 19,840         |
| 34422 00     | Metal doors, sash, frames, molding, and trim, n.s.k.....                 | .....           | (X)  | 21,359          |                  |                  |
| 34423 --     | Metal molding and trim and store fronts.....                             | .....           | (X)  | 116,800         | (X)              | 97,283           |
|              | Metal molding and trim:  |                 |  |                 |                  |                  |
| 34423 21     | Steel.....   | .....           | (X)  | 32,123          | } (X)            | } 78,170         |
| 34423 25     | Aluminum.....  | .....           | (X)  | 71,420          |                  |                  |
| 34423 51     | Metal store fronts, sold complete at factory.....                        | .....           | (X)  | 6,726           | (X)              | 12,719           |
| 34423 00     | Metal molding and trim and store fronts, not specified by type..         | .....           | (X)  | 6,531           | (X)              | 6,394            |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure                          | Total shipments including interplant transfers |                 |                            |                       |
|--------------|---|--|--|-----------------|----------------------------|-----------------------|
|              |   |  | 1963   |                 | 1958                       |                       |
|              |   |  | Quantity                                       | Value (\$1,000) | Quantity                   | Value (\$1,000)       |
|              | METAL DOORS, SASH, FRAMES, AND MOLDING AND TRIM—Continued   |  |  |                 |                            |                       |
| 34424 --     | Metal combination screen and storm sash and doors.....  |  | (X)  | 221,353         | (X)                        | 231,510               |
| 34424 11     | Metal storm sash.....   |  | (NA)   | 9,252           | (X)                        | 6,733                 |
| 34424 21     | Metal combination screen and storm sash:<br>Steel:  |  |  |                 |                            |                       |
|              | Quantity reported.....  | No. of units..                           | 161,115  | 2,739           | } 89,969,302               | } 123,352             |
|              | Quantity not reported.....  | ..do.....                                | (X)  | 2,625           |                            |                       |
| 34424 25     | Aluminum:   | ..do.....                                | 9,106,349                                      | 89,913          |                            |                       |
|              | Quantity not reported.....  | ..do.....                                | (X)  | 16,067          |                            |                       |
| 34424 41     | Metal combination screen and storm doors:<br>Steel.....   | ..do.....                                | 145,107  | 3,610           | } 2,736,065                | } 62,101              |
| 34424 45     | Aluminum.....   | ..do.....                                | 3,329,517                                      | 65,228          |                            |                       |
| 34424 00     | Metal storm sash, combination screen and storm sash and doors and parts, n.s.k.....   |  | (X)  | 31,919          | (X)                        | 39,324                |
| 34425 --     | Metal window and door screens (except combination) and metal weatherstrip.....  |  | (X)  | 56,676          | (X)                        | 64,611                |
| 34425 11     | Screen doors, metal.....  | No. of units..                           | 446,402  | 4,576           | <sup>9</sup> 437,439       | 5,605                 |
| 34425 21     | Window screens, with metal frames including tension and roll types:<br>Steel:   |  |  |                 |                            |                       |
|              | Quantity reported.....  | ..do.....                                | 608,811  | 1,946           | } <sup>10</sup> 14,799,049 | } 41,309              |
|              | Quantity not reported.....  | ..do.....                                | (X)  | 1,088           |                            |                       |
| 34425 25     | Aluminum:   | ..do.....                                | 11,594,738                                     | 23,612          |                            |                       |
|              | Quantity not reported.....  | ..do.....                                | (X)  | 5,292           |                            |                       |
| 34425 51     | Weatherstrip, metal:<br>Quantity reported.....  | ..do.....                                | <sup>11</sup> 187,297                          | 13,639          | <sup>11</sup> 263,042      | 12,868                |
|              | Quantity not reported.....  | ..do.....                                | (X)  | 3,731           | (X)                        | 4,829                 |
| 34425 00     | Metal window and door screens, n.s.k.....   |  | (X)  | 2,792           | (X)                        |                       |
| 34420 00     | Metal doors, sash, frames, molding, and trim, n.s.k.....  |  | (X)  | 113,471         | (X)                        | 80,557                |
| 3443 --      | FABRICATED PLATE WORK (BOILER SHOPS), TOTAL.....  |  | (X)  | 1,580,802       | (X)                        | 1,613,999             |
| 34431 --     | Heat exchangers and steam condensers.....   |  | (X)  | 160,548         | (X)                        | 187,243               |
| 34431 11     | Heat exchangers, closed types, industrial:<br>Bare tube.....  | 1,000 sq. ft. of heat transfer surface.. | (NA)   | 91,241          | 14,635                     | 103,440               |
| 34431 15     | Fin tube.....   |  | (NA)   | 40,445          | (NA)                       | 32,769                |
| 34431 51     | Steam condensers.....   |  | (NA)   | 23,413          | (NA)                       | 48,509                |
| 34431 00     | Heat exchangers and steam condensers, n.s.k.....  |  | (X)  | 5,449           | (X)                        | 2,525                 |
| 34432 --     | Fabricated steel plate <sup>12</sup> .....  |  | (X)  | 374,197         | (X)                        | <sup>13</sup> 343,022 |
| 34432 31     | Stacks (smoke or other).....  |  | (NA)   | 5,803           | (NA)                       | 5,257                 |
| 34432 51     | Weldments.....  |  | (NA)   | 61,518          | (NA)                       | 40,878                |
| 34432 11     | Fabricated steel plate (factory assembled or joined and prepared for field erection):<br>For large diameter pipe (over 36" diameter for pipe lines, penstocks, tunnel linings, etc.)..... | Short tons....                           | 210,185  | 70,653          | 127,466                    | 41,164                |
| 34432 98     | Fabricated steel plate for other purposes:<br>Quantity reported.....  | ..do.....                                | 435,878  | 137,388         | 282,900                    | 150,224               |
|              | Quantity not reported.....  | ..do.....                                | (X)  | 79,744          | (X)                        | 75,577                |
| 34432 00     | Fabricated steel plate, n.s.k.....  |  | (X)  | 19,091          | (X)                        | <sup>13</sup> 29,922  |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                 |             |                 |
|--------------|---|-----------------|--|-----------------|-------------|-----------------|
|              |   |                 | 1963   |                 | 1958        |                 |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity    | Value (\$1,000) |
| 3443- --     | FABRICATED PLATE WORK (BOILER SHOPS)—Continued  |                 |  |                 |             |                 |
| 34433 --     | Steel power boilers, parts, and attachments (over 15 p.s.i. steam working pressure).....  |                 | (X)  | 340,739         | (X)         | 409,549         |
|              | Stationary power boilers: <sup>14</sup>   |                 |  |                 |             |                 |
|              | Water tube:   |                 |  |                 |             |                 |
|              | 100,000 lbs./hr. and under:   |                 |  |                 |             |                 |
| 34433 11     | Over 15 to 449 p.s.i. steam working pressure.....   | No. of units..  | 1,674  | 34,053          | } 152,152   | } 15276,324     |
| 34433 13     | 450 p.s.i. steam working pressure and over.....   | ..do.....       | 67   | 6,417           |             |                 |
| 34433 21     | 100,000 lbs./hr. to 250,000 lbs./hr.....  | ..do.....       | } 78   | } 13,052        |             |                 |
| 34433 23     | Over 15 to 449 p.s.i. steam working pressure.....   | ..do.....       |  |                 |             |                 |
| 34433 31     | 250,000 lbs./hr. and over.....  | ..do.....       | } 104  | } 151,121       |             |                 |
| 34433 33     | Over 15 to 449 p.s.i. steam working pressure.....   | ..do.....       |  |                 |             |                 |
| 34433 33     | 450 p.s.i. steam working pressure and over.....   | ..do.....       |  |                 |             |                 |
|              | Fire tube:  |                 |  |                 |             |                 |
| 34433 36     | Horizontal return tabular.....  | ..do.....       | 1,535  | 4,548           | } 157,247   | } 1520,185      |
| 34433 37     | Scotch type.....  | ..do.....       | 4,317  | 25,092          |             |                 |
| 34433 38     | Other types.....  | ..do.....       | 1,558  | 2,044           |             |                 |
| 34433 41     | Marine boilers.....   | ..do.....       | } (X)  | } 103,243       | } (15)      | } (15)          |
| 34433 52     | Parts and attachments for steel power boilers (sold separately).  | ..do.....       |  |                 |             |                 |
| 34433 00     | Steel power boilers, parts, and attachments (over 15 p.s.i. steam working pressure), n.s.k.....   |                 | (X)  | 1,169           | (X)         | 3,977           |
| 34434 --     | Gas cylinders <sup>12</sup> .....   |                 | (X)  | 46,348          | (X)         | 1341,274        |
| 34434 11     | For liquefied petroleum gas.....  | Number.....     | 314,124  | 10,796          | } 1,034,549 | } 23,836        |
| 34434 19     | Other gas cylinders.....  | ..do.....       | 1,002,772                                      | 33,287          |             |                 |
| 34434 00     | Gas cylinders, n.s.k.....   | ..do.....       | (X)  | 2,265           |             |                 |
| 34435 --     | Metal tanks, complete at factory (standard line and pressure) <sup>12</sup> ...   |                 | (X)  | 104,442         | (X)         | 16132,466       |
| 34435 12     | Truck tanks for delivery of liquefied petroleum gas (butane, propane, etc.).....  |                 | (NA)   | 8,170           | (NA)        | 3,891           |
|              | All other liquefied petroleum gas tanks (under 3,000 gallon capacity):  |                 |  |                 |             |                 |
| 34435 22     | Carbon steel.....   | No. of units..  | 226,826  | 34,506          | } 17170,550 | } 35,887        |
| 34435 24     | Alloy and stainless steel.....  | ..do.....       | (NA)   | 4,104           |             |                 |
| 34435 26     | Aluminum.....   | ..do.....       |  |                 |             |                 |
| 34435 35     | Air receivers:  |                 |  |                 |             |                 |
|              | Quantity reported.....  | ..do.....       | 70,523   | 4,786           | 84,320      | 5,641           |
|              | Quantity not reported.....  | ..do.....       | (X)  | 2,464           | (X)         | 737             |
| 34435 38     | Other pressure tanks, including anhydrous ammonia under 3,000 gallon capacity, but excluding range boilers, expansion tanks, hot-water storage tanks and tanks for water heaters sold separately..... |                 | (X)  | 36,490          | (X)         | 14,391          |
| 34435 00     | Metal tanks, complete at factory (standard line and pressure), n.s.k.....   |                 | (X)  | 13,922          | (X)         | 1671,919        |
| 34437 --     | Metal tanks, complete at factory (standard line, nonpressure) <sup>12</sup> ...   |                 | (X)  | 145,586         | (X)         | 16136,540       |
|              | Nonpressure storage tanks:  |                 |  |                 |             |                 |
|              | Bulk storage, including above ground, underground and inside storage tanks:   |                 |  |                 |             |                 |
|              | Carbon steel:   |                 |  |                 |             |                 |
| 34437 11     | 6,000 gallon or less capacity.....  | No. of units..  | 236,576  | 39,699          | 210,673     | 44,398          |
| 34437 13     | Over 6,000 gallon capacity.....   | ..do.....       | 29,141   | 29,605          | 21,917      | 20,880          |
| 34437 14     | Alloy and stainless steel, nickel, etc., excluding aluminum: Dairy processing plant storage tanks for milk (stainless steel).....   | ..do.....       | 6,301  | 12,606          | } 4,207     | } 7,607         |
| 34437 16     | Other.....  | ..do.....       | (NA)   | 9,150           |             |                 |
| 34437 18     | Aluminum.....   | ..do.....       | 1,099  | 2,127           |             |                 |
| 34437 21     | Basement oil storage tanks.....   | ..do.....       | 198,929  | 5,797           | 277,349     | 6,885           |
| 34437 25     | Oilfield boltex.....  | ..do.....       | 1,390  | 2,828           | 5,739       | 10,553          |
| 34437 27     | Farm storage tanks with or without supports.....  | ..do.....       | (NA)   | 4,486           | (NA)        | 11,191          |
|              | Truck tanks (for delivery of fluids, excluding trailer tanks):  |                 |  |                 |             |                 |
|              | For liquid fuels, excluding liquefied petroleum:  |                 |  |                 |             |                 |
| 34437 43     | Gas tanks.....  | No. of units..  | 3,124  | 8,494           | 3,353       | 9,281           |
| 34437 45     | For other fluids.....   | ..do.....       | (NA)   | 4,504           | (NA)        | 7,738           |
| 34437 71     | Septic tanks, metal:  |                 |  |                 |             |                 |
|              | Quantity reported.....  | No. of units..  | 66,392   | 3,419           | 63,680      | 2,940           |
|              | Quantity not reported.....  | ..do.....       | (X)  | 1,442           | (X)         | 753             |
| 34437 98     | Other nonpressure tanks, including tanks for trailers.....  |                 | (NA)   | 15,309          | (NA)        | 14,314          |
| 34437 00     | Metal tanks, complete at factory (standard line, nonpressure), n.s.k.....   |                 | (X)  | 6,120           | (X)         | (16)            |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                   |                   |                   |                   |
|--------------|---|-----------------|--|-------------------|-------------------|-------------------|-------------------|
|              |   |                 | 1963   |                   | 1958              |                   |                   |
|              |   |                 | Quantity                                       | Value (\$1,000)   | Quantity          | Value (\$1,000)   |                   |
| 3443- --     | FABRICATED PLATE WORK (BOILER SHOPS)—Continued  |                 |  |                   |                   |                   |                   |
| 34438 --     | Metal tanks and vessels, custom fabricated at the factory <sup>12</sup> .....   |                 | (X)  | 197,109           | (X)               | 149,493           |                   |
|              | Pressure vessels and tanks (over 24" outside diameter and not less than 5 cu. ft. capacity) including process vessels, tanks and kettles for refineries, chemical plants, paper mills and other processing industries (except tanks for liquefied petroleum gas): |                 |  |                   |                   |                   |                   |
|              | Carbon steel:   |                 |  |                   |                   |                   |                   |
| 34438 03     | 3/4" wall thickness and under.....  | Short tons..... | 123,516  | 58,740            | } 18130,910       | } 91,821          |                   |
| 34438 05     | Over 3/4" wall thickness.....   | do.....         | (NA)   | 28,593            |                   |                   |                   |
| 34438 06     | Alloy and stainless steel, nickel, etc., excluding aluminum..   | do.....         | 19,453   | 31,002            | } 1916,077        | } 27,518          |                   |
| 34438 08     | Aluminum.....   | do.....         | 2,518  | 5,909             |                   |                   |                   |
| 34438 15     | Liquefied petroleum gas tanks, 3,000 gallon capacity and over...  | do.....         | 33,777   | 21,317            | 16,288            | 9,023             |                   |
| 34438 18     | All other tanks, and vessels, custom fabricated at the factory, including anhydrous ammonia tanks 3,000 gallon capacity and over.....   |                 | (X)  | 49,893            | (X)               | 21,131            |                   |
| 34438 00     | Metal tanks and vessels custom fabricated at the factory, n.s.k.  |                 | (X)  | 1,654             | (X)               | -                 |                   |
| 34439 --     | Metal tanks and vessels, custom fabricated and field erected <sup>12</sup> ....   |                 | (X)  | 123,278           | (X)               | 144,335           |                   |
|              | Bulk storage tanks:   |                 |  |                   |                   |                   |                   |
|              | Water, including elevated tanks:  |                 |  |                   |                   |                   |                   |
| 34439 21     | Steel.....  |                 | (NA)   | 42,634            | } (NA)            | } 42,610          |                   |
| 34439 23     | Aluminum.....   |                 | (NA)   | 216               |                   |                   |                   |
|              | Petroleum and petroleum products:   |                 |  |                   |                   |                   |                   |
| 34439 25     | Steel.....  | Short tons..... | 167,630  | 50,187            | } 242,566         | } 61,093          |                   |
| 34439 27     | Aluminum.....   | do.....         | 722  | 905               |                   |                   |                   |
| 34439 33     | Other.....  |                 | (NA)   | 8,875             | (NA)              | 22,495            |                   |
|              | Pressure vessels and tanks, including process vessels, tanks, and kettles for refineries, chemical plants, paper mills, and other processing industries:  |                 |  |                   |                   |                   |                   |
|              | Carbon steel, including gas holders:  |                 |  |                   |                   |                   |                   |
| 34439 53     | 3/4" wall thickness and under.....  | Short tons..... | 24,080   | 11,706            | } 2032,460        | } 14,700          |                   |
| 34439 55     | Over 3/4" wall thickness.....   | do.....         | 14,795   | 4,568             |                   |                   |                   |
| 34439 59     | Alloy and stainless steel, nickel, aluminum, etc.....   | do.....         | 641  | 1,736             | 1,992             | 3,437             |                   |
| 34439 00     | Metal tanks and vessels, custom fabricated and field erected, n.s.k.....  |                 | (X)  | 2,451             | (X)               | -                 |                   |
| 34430 00     | Boiler shop products, n.s.k.....  |                 | (X)  | 88,555            | (X)               | 70,077            |                   |
| 3444- --     | SHEET METAL WORK, TOTAL.....  |                 | (X)  | 1,324,673         | (X)               | 1,008,471         |                   |
| 34441 --     | Sheet metal roofing and siding and roof drainage equipment.....   |                 | (X)  | 306,172           | (X)               | 185,775           |                   |
|              | Metal roofing:  |                 |  |                   |                   |                   |                   |
| 34441 11     | Steel, all types.....   | Short tons..... | 579,150  | 133,679           | 292,138           | 69,081            |                   |
| 34441 13     | Aluminum, all types.....  | do.....         | 18,110   | 16,542            | (NA)              | 18,587            |                   |
| 34441 15     | Other metals, all types.....  |                 | (X)  | 212,809           | (X)               | 1,462             |                   |
|              | Metal siding:   |                 |  |                   |                   |                   |                   |
| 34441 16     | Steel.....  | Short tons..... | 20,337   | 6,521             | 25,946            | 7,798             |                   |
|              | Aluminum:   |                 |  |                   |                   |                   |                   |
| 34441 21     | Residential.....  | do.....         | 97,755   | 93,681            | } (NA)            | } 51,110          |                   |
| 34441 22     | Other (commercial, industrial, farm buildings, etc.).....   |                 | (X)  | 5,169             |                   |                   |                   |
| 34441 19     | Other metals.....   |                 | (X)  | ( <sup>21</sup> ) | (X)               | 1,394             |                   |
|              | Roof drainage equipment:  |                 |  |                   |                   |                   |                   |
|              | Steel:  |                 |  |                   |                   |                   |                   |
| 34441 23     | Quantity reported.....  | Short tons..... | 63,464   | 19,940            | 68,101            | 21,847            |                   |
|              | Quantity not reported.....  |                 | (X)  | 5,296             | (X)               | 4,855             |                   |
| 34441 27     | Copper:   |                 |  |                   |                   |                   |                   |
|              | Quantity reported.....  | Short tons..... | 1,574  | 2,185             | 2,187             | 3,295             |                   |
|              | Quantity not reported.....  |                 | (X)  | 219               | (X)               | 680               |                   |
| 34441 29     | Aluminum.....   |                 | (X)  | 6,081             | (X)               | 5,666             |                   |
| 34441 00     | Sheet-metal roofing and siding and roof drainage equipment, n.s.k.....  |                 | (X)  | 14,050            | ( <sup>22</sup> ) | ( <sup>22</sup> ) |                   |
| 34442 --     | Culverts, flumes, irrigation pipes, etc.....  |                 | (X)  | 137,527           | (X)               | 126,878           |                   |
| 34442 13     | Steel.....  |                 | (X)  | 122,429           | } (X)             | } 126,878         |                   |
| 34442 15     | Aluminum.....   |                 | (X)  | 4,659             |                   |                   |                   |
| 34442 19     | Other metal.....  |                 | (X)  | 6,680             |                   |                   |                   |
| 34442 00     | Culverts, flumes, irrigation pipes, etc., n.s.k.....  |                 | (X)  | 3,759             |                   |                   | ( <sup>22</sup> ) |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                 |            |                 |
|--------------|---|-----------------|--|-----------------|------------|-----------------|
|              |   |                 | 1963   |                 | 1958       |                 |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity   | Value (\$1,000) |
| 3444- --     | SHEET METAL WORK—Continued  |                 |  |                 |            |                 |
| 34443 --     | Other sheet-metal work.....   |                 | (X) 731,750                                    | (X)             | 485,913    |                 |
| 34443 11     | Cornices, skylights, ceilings, domes, copings and gravel stops..  |                 | (X) 14,844                                     | (X)             | 4,028      |                 |
| 34443 15     | Roof ventilators.....   |                 | (X) 13,831                                     | (X)             | 20,420     |                 |
|              | Bins and vats:  |                 |  |                 |            |                 |
| 34443 62     | Grain.....  |                 | (X) 27,015                                     | (X)             | 24,786     |                 |
| 34443 64     | Other.....  |                 | (X) 13,398                                     | (X)             | 5,930      |                 |
|              | Other sheet metal products:   |                 |  |                 |            |                 |
|              | Stove pipe and furnace smoke pipe, elbows, ducts and fitting:   |                 |  |                 |            |                 |
| 34443 32     | Aluminum.....   |                 | (X) 26,646                                     | (X)             | 65,726     |                 |
| 34443 42     | Steel.....  |                 | (X) 66,263                                     |                 |            |                 |
|              | Air conditioning ducts, including dust collecting and ventilating ducts:  |                 |  |                 |            |                 |
| 34443 34     | Aluminum.....   |                 | (X) 25,355                                     | (X)             | 80,534     |                 |
| 34443 44     | Steel.....  |                 | (X) 68,936                                     |                 |            |                 |
|              | Restaurant, hotel, and kitchen sheet-metal equipment such as table tops, drainboard tops etc.:                                |                 |  |                 |            |                 |
| 34443 36     | Aluminum.....   |                 | (X) 20,904                                     | (X)             | 43,754     |                 |
| 34443 46     | Steel.....  |                 | (X) 26,121                                     |                 |            |                 |
|              | Metal awning and canopies, carports and patio roofs, including assembled or unassembled prefabricated types:                  |                 |  |                 |            |                 |
| 34443 37     | Aluminum.....   |                 | (X) 36,488                                     | (X)             | 38,233     |                 |
| 34443 47     | Steel.....  |                 | (X) 5,989                                      |                 |            |                 |
|              | Other sheet-metal work (except cornices, skylights, ceilings, domes, copings, gravel stops, roof ventilators, bins and vats): |                 |  |                 |            |                 |
| 34443 39     | Aluminum.....   |                 | (X) 52,220                                     | (X)             | 202,502    |                 |
| 34443 49     | Steel.....  |                 | (X) 176,747                                    |                 |            |                 |
| 34443 98     | Other sheet metal work of metals other than steel or aluminum.  |                 | (X) 81,220                                     | (22)            | (22)       |                 |
| 34443 00     | Other sheet-metal work, n.s.k.....  |                 | (X) 75,773                                     |                 |            |                 |
| 34440 00     | Sheet-metal work, n.s.k.....  |                 | (X) 149,224                                    | (X)             | 2209,905   |                 |
| 3446- --     | ARCHITECTURAL AND ORNAMENTAL WORK, (EXCEPT CURTAIN WALL AND OTHER EXTERIOR PANELS), TOTAL.....                                |                 | (X) 306,229                                    | (X)             | 332,941    |                 |
|              | Iron and steel:   |                 |  |                 |            |                 |
| 34460 11     | Grills, all types, including open mesh partitions and guards....  |                 | (X) 27,118                                     | (X)             | 8,754      |                 |
| 34460 13     | Fences, and gates, other than wire:   |                 |  |                 |            |                 |
|              | Quantity reported.....  | Short tons....  | 6,857  | 3,840           | 18,545     | 9,654           |
|              | Quantity not reported.....  |                 | (X) 2,522                                      | -               | -          | -               |
| 34460 15     | Stairs, staircases, fire escapes, and railings:   |                 |  |                 |            |                 |
|              | Quantity reported.....  | Short tons....  | 102,867  | 52,916          | 97,235     | 51,437          |
|              | Quantity not reported.....  |                 | (X) 17,775                                     | (X) 17,775      | (X) 12,066 | (X) 12,066      |
| 34460 17     | Open flooring and grating for building construction:  |                 |  |                 |            |                 |
|              | Quantity reported.....  | Short tons....  | 41,465   | 16,555          | 74,257     | 29,740          |
|              | Quantity not reported.....  |                 | (X) 7,800                                      | (X) 7,800       | (X) 6,964  | (X) 6,964       |
| 34460 19     | Other.....  |                 | (X) 54,283                                     | (X)             | 97,090     |                 |
|              | Aluminum:   |                 |  |                 |            |                 |
| 34460 33     | Grills, all types, including open mesh partitions and guards:   |                 |  |                 |            |                 |
|              | Quantity reported.....  | Short tons....  | 3,955  | 8,487           | (NA)       | 53,345          |
|              | Quantity not reported.....  |                 | (X) 2,442                                      | (X) 2,442       |            |                 |
| 34460 34     | Fences and gates, other than wire:  |                 |  |                 |            |                 |
|              | Quantity reported.....  | Short tons....  | 678  | 1,430           | (NA)       | 53,345          |
|              | Quantity not reported.....  |                 | (X) 1,156                                      | (X) 1,156       |            |                 |
| 34460 35     | Stairs, staircases, fire escapes, and railings:   |                 |  |                 |            |                 |
|              | Quantity reported.....  | Short tons....  | 2,573  | 8,824           | (NA)       | 53,345          |
|              | Quantity not reported.....  |                 | (X) 4,162                                      | (X) 4,162       |            |                 |
| 34460 36     | Open flooring and grating for building construction:  |                 |  |                 |            |                 |
|              | Quantity reported.....  | Short tons....  | 1,397  | 2,373           | (NA)       | 53,345          |
|              | Quantity not reported.....  |                 | (X) 1,960                                      | (X) 1,960       |            |                 |
| 34460 38     | Other.....  |                 | (X) 38,839                                     | (X)             | 97,090     |                 |
| 34460 41     | Architectural and ornamental metal work other than aluminum or steel.....   |                 | (X) 5,455                                      | (X)             | 9,528      |                 |
| 34460 00     | Ornamental and structural metal works, n.s.k.....   |                 | (X) 48,292                                     | (X)             | 54,363     |                 |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                 |           |                   |
|--------------|---|-----------------|--|-----------------|-----------|-------------------|
|              |   |                 | 1963   |                 | 1958      |                   |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity  | Value (\$1,000)   |
| 3449- --     | MISCELLANEOUS METAL WORK, TOTAL.....  | .....           | (X)  | 793,330         | (X)       | 602,625           |
| 34492 --     | Prefabricated and portable metal buildings and parts.....                           | .....           | (X)  | 224,549         | (X)       | 195,123           |
|              | Grain storage buildings:  |                 |  |                 |           |                   |
| 34492 11     | Steel.....  | Number.....     | } 12,293                                       | 23,061          | 20,103    | 44,129            |
| 34492 21     | Aluminum.....   | do.....         |  |                 |           |                   |
|              | Other farm service buildings (livestock shelters, etc.):                            |                 |  |                 |           |                   |
| 34492 12     | Steel.....  | do.....         | } 4,751  | 12,931          | 18,195    | 31,275            |
| 34492 22     | Aluminum.....   | do.....         |  |                 |           |                   |
|              | Dwellings:  |                 |  |                 |           |                   |
| 34492 13     | Steel.....  | .....           | (NA)   | 2,045           | }         |                   |
| 34492 23     | Aluminum.....   | .....           | (NA)   | 3,259           |           |                   |
|              | Industrial and commercial buildings:  |                 |  |                 |           |                   |
| 34492 14     | Steel.....  | Number.....     | 18,178   | 115,757         | } (NA)    | 83,571            |
| 34492 24     | Aluminum.....   | do.....         | 369  | 2,585           |           |                   |
|              | Other (including garages, etc.):  |                 |  |                 |           |                   |
| 34492 17     | Steel.....  | .....           | (NA)   | 18,534          | }         |                   |
| 34492 27     | Aluminum.....   | .....           | (NA)   | 16,228          |           |                   |
|              | Panels, parts or sections for prefabricated buildings, not sold as a complete unit: |                 |  |                 |           |                   |
| 34492 53     | Steel.....  | Short tons....  | (NA)   | 16,877          | } 56,439  | 26,061            |
| 34492 55     | Aluminum.....   | do.....         | (NA)   | 9,245           |           |                   |
| 34492 00     | Prefabricated and portable metal buildings and parts, n.s.k....                     | .....           | (X)  | 4,027           | (X)       | 10,087            |
| 34493 --     | Miscellaneous metal building materials.....   | .....           | (X)  | 506,500         | (X)       | 407,502           |
|              | Metal plaster bases:  |                 |  |                 |           |                   |
| 34493 11     | Expanded metal lath.....  | 1,000 sq. yds.. | 66,795   | 23,284          | 80,591    | 25,257            |
| 34493 32     | Metal plaster base accessories.....   | .....           | (X)  | 31,866          | (X)       | 27,210            |
| 34493 42     | Fabricated bar joists.....  | Short tons....  | 380,952  | 89,348          | 296,874   | 69,475            |
| 34493 52     | Fabricated concrete reinforcing bars.....   | do.....         | 2,080,322                                      | 276,774         | 1,232,329 | 217,432           |
|              | Curtain wall:   |                 |  |                 |           |                   |
| 34493 73     | Steel, including stainless.....   | 1,000 sq. ft... | 14,001   | 10,095          | } 23,687  | 24,300            |
| 34493 75     | Aluminum.....   | do.....         | 11,689   | 41,382          |           |                   |
| 34493 79     | All other, including combination of metals.....                                     | do.....         | (NA)   | 13,384          |           |                   |
| 34493 00     | Miscellaneous metal building materials, n.s.k.....                                  | .....           | (X)  | 20,367          | (X)       | 43,828            |
| 34490 00     | Miscellaneous metal work, n.s.k.....  | .....           | (X)  | 62,281          | (X)       | ( <sup>23</sup> ) |

Note: Data for 1958 exclude Alaska and Hawaii.

- - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. n.s.k. Not specified by kind.

(X) Not applicable.

<sup>1</sup>For some products value data only were reported by some establishments. In those instances where such values amounted to less than 10 percent of the total value of the product, an estimated quantity figure has been included in the total quantity for the product.

<sup>2</sup>In 1958 "Fabricated structural metal for bridges, not specified by kind" and "Other fabricated structural metal, not specified by kind" were combined with "Fabricated structural metal for buildings, not specified by kind."

<sup>3</sup>Does not include structural metal fabricated for own use by establishments building ships.

<sup>4</sup>In 1958, metal doors constructed of metals other than iron and steel or aluminum were included with those of aluminum construction when such were collected separately and with those of iron and steel and aluminum construction when such doors were treated as a single product.

<sup>5</sup>This quantity was valued at \$17,915 thousand. The remaining \$5,807 thousand was reported without quantity.

<sup>6</sup>This quantity was valued at \$17,609 thousand. The remaining \$6,914 thousand was reported without quantity.

<sup>7</sup>This quantity was valued at \$148,374 thousand. The remaining \$22,925 thousand was reported without quantity.

<sup>8</sup>This quantity was valued at \$111,156 thousand. The remaining \$12,196 thousand was reported without quantity.

<sup>9</sup>This quantity was valued at \$4,838 thousand. The remaining \$767 thousand was reported without quantity.

<sup>10</sup>This quantity was valued at \$33,833 thousand. The remaining \$7,476 thousand was reported without quantity.

<sup>11</sup>Data represent thousands of linear feet.

<sup>12</sup>The product class structure for this industry has been revised effective with 1963. Accordingly, totals for selected product classes differ from previously published figures.

<sup>13</sup>1958 data for products 3443200 and 3443400 are not, separately, comparable with data for 1963. The total for these two products is comparable.

<sup>14</sup>Data differ from related data published in Current Industrial Reports Series M34G, "Steel Power Boilers" because of the following factors:

(a) In survey M34G the data represent new orders whereas Census of Manufactures data represent shipments.

(b) In survey M34G the data relate to boilers of 100 square feet of heating surface and over whereas the Census of Manufactures includes those of under 100 square feet of heating surface.

<sup>15</sup>In 1958, marine boilers were not reported separately from stationary power boilers.

<sup>16</sup>In 1958, product code 3443700 is combined with product code 3443500.

<sup>17</sup>This quantity was valued at \$30,529 thousand. The remaining \$5,358 thousand represents value for which no quantity was reported.

<sup>18</sup>This quantity was valued at \$79,206 thousand. The remaining \$12,615 thousand represents value for which no quantity was reported.

<sup>19</sup>This quantity was valued at \$23,843 thousand. The remaining \$3,675 thousand represents value for which no quantity was reported.

<sup>20</sup>This quantity was valued at \$12,790 thousand. The remaining \$1,910 thousand represents value for which no quantity was reported.

<sup>21</sup>Metal siding of other than steel and aluminum, product code 3444119 is included with metal roofing of other than steel and aluminum, 3444115.

<sup>22</sup>In 1958, all sheet-metal work, not specified by kind, is included in product code 3444000.

<sup>23</sup>Because of the lack of sufficient product detail in the reports for small establishments in the 1958 Census of Manufactures it was not possible to effect a precise distinction between fabricated structural iron and steel, not specified by kind (3441000) and miscellaneous metal work, not specified by kind. Accordingly, the value of such shipments, \$130,111 thousand, are included in the data for SIC 3441.



TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year   | Indexes (1954 = 100) |            |
|--------------|--|----------------------|------------|
|              |  | Production           | Unit value |
| 344          | Structural metal products.....1963..   | (1)                  | (1)        |
|              | 1958..   | (1)                  | (1)        |
| 3441         | Fabricated structural steel.....1963..   | 119                  | 120        |
|              | 1958..   | 114                  | 126        |
| 34411        | Fabricated structural metal for buildings.....1963..                                 | 117                  | 126        |
|              | 1958..   | 110                  | 124        |
| 34412        | Fabricated structural metal for bridges.....1963..                                   | 98                   | 109        |
|              | 1958..   | 109                  | 129        |
| 34413        | Other fabricated structural metal.....1963..   | 126                  | 109        |
|              | 1958..   | 106                  | 127        |
| 3442         | Metal doors, sash, and trim <sup>1</sup> .....1963..                                 | 158                  | 94         |
|              | 1958..   | 146                  | 99         |
| 34421        | Metal doors and frames (except storm doors).....1963..                               | 180                  | 106        |
|              | 1958..   | 125                  | 102        |
| 34422        | Metal window sash and frames.....1963..  | 126                  | 93         |
|              | 1958..   | 133                  | 104        |
| 34424        | Metal combination screen and storm sash and doors.....1963..                         | 145                  | 81         |
|              | 1958..   | 150                  | 91         |
| 34425        | Metal window and door screens (except combination) and metal weatherstrip.....1963.. | 113                  | 93         |
|              | 1958..   | 145                  | 93         |
| 3443         | Boiler shop products.....1963..  | (1)                  | (1)        |
|              | 1958..   | (1)                  | (1)        |
| 3444         | Sheet metal work.....1963..  | (1)                  | (1)        |
|              | 1958..   | (1)                  | (1)        |
| 34441        | Sheet metal roofing and siding and roof drainage and equipment.....1963..            | 155                  | 139        |
|              | 1958..   | 111                  | 126        |
| 3449         | Miscellaneous metal work.....1963..  | (1)                  | (1)        |
|              | 1958..   | (1)                  | (1)        |
| 34493        | Miscellaneous metal building materials.....1963..                                    | 234                  | 102        |
|              | 1958..   | 143                  | 119        |

<sup>1</sup>Not shown because comparable quantity data were not obtained for a significant portion of these products.

TABLE 6C. Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963

| Code  | Product class  | 1963      | 1962      | 1961      | 1960      | 1959      | 1958      | 1954      | 1947    |
|-------|--|-----------|-----------|-----------|-----------|-----------|-----------|-----------|---------|
| 3441- | Fabricated structural steel.....\$1,000..  | 1,603,982 | 1,514,210 | 1,487,562 | 1,498,365 | 1,385,844 | 1,602,126 | 1,103,873 | 527,127 |
| 34411 | Fabricated structural metal for buildings:   |           |           |           |           |           |           |           |         |
|       | Quantity.....short tons..  | 3,126,874 | 3,011,397 | 2,928,245 | 2,927,580 | 2,727,232 | 3,135,012 | (NA)      | (NA)    |
|       | Value.....\$1,000..  | 984,049   | 924,499   | 911,584   | 903,678   | 839,892   | 930,399   | 682,858   | (NA)    |
| 34412 | Fabricated structural metal for bridges:   |           |           |           |           |           |           |           |         |
|       | Quantity.....short tons..  | 728,398   | 713,920   | 694,000   | 692,714   | 680,627   | 843,511   | 775,727   | (NA)    |
|       | Value.....\$1,000..  | 224,879   | 214,176   | 223,083   | 218,508   | 222,019   | 279,624   | 199,315   | (NA)    |
| 34413 | Other fabricated structural metal:   |           |           |           |           |           |           |           |         |
|       | Quantity.....short tons..  | 856,791   | 801,211   | 703,000   | 762,984   | 569,352   | 666,128   | (NA)      | (NA)    |
|       | Value.....\$1,000..  | 287,248   | 284,430   | 266,972   | 287,411   | 220,619   | 261,992   | 182,558   | (NA)    |
| 34410 | Fabricated structural metal, n.s.k.\$1,000..   | 107,806   | (S)       | (S)       | (S)       | (S)       | 130,111   | (NA)      | (NA)    |
| 3442- | Metal doors, sash, and trim.....\$1,000..  | 1,106,662 | 1,030,617 | 972,277   | 975,982   | 1,006,945 | 951,661   | 657,022   | (NA)    |
| 34421 | Metal doors and frames (except storm doors).....\$1,000..                                      | 289,581   | 271,595   | 245,778   | 218,487   | 222,038   | 192,389   | 149,836   | 52,074  |
| 34422 | Metal window sash and frames (except storm sash).....\$1,000..                                 | 308,781   | 265,566   | 262,261   | 274,813   | 293,170   | 285,311   | 206,224   | 90,780  |
| 34423 | Metal molding and trim and store fronts.....\$1,000..  | 116,800   | 137,324   | 117,433   | 123,043   | 110,405   | 97,283    | 68,131    | 46,278  |
| 34424 | Metal combination screen and storm sash and doors.....\$1,000..                                | 221,353   | 231,366   | 218,773   | 232,536   | 247,804   | 231,510   | 169,794   | 27,393  |
| 34425 | Metal window and door screens (except combination) and metal window strip.....\$1,000..        | 56,676    | 68,914    | 62,037    | 67,902    | 77,566    | 64,611    | 47,929    | (NA)    |
| 34420 | Metal doors, sash, and trim, n.s.k.....\$1,000..   | 113,471   | (S)       | (S)       | (S)       | (S)       | 80,557    | 15,108    | 6,916   |
| 3443- | Boiler shop products.....\$1,000..   | 1,580,802 | 1,420,760 | 1,390,859 | 1,411,181 | 1,458,970 | 1,613,999 | 1,234,427 | (NA)    |
| 34431 | Heat exchangers and steam condensers.....\$1,000..   | 160,548   | 126,741   | 155,073   | 145,961   | 150,665   | 187,243   | 162,757   | 63,296  |
| 34432 | Fabricated steel plate.....do....  | 374,197   | (NA)      | (NA)      | (NA)      | (NA)      | (NA)      | (NA)      | (NA)    |
| 34433 | Steel power boilers, parts, and attachments (over 15 p.s.i. steam working pressure).....do.... | 340,739   | 341,932   | 304,717   | 296,915   | 336,579   | 409,549   | 264,831   | 131,163 |
| 34434 | Gas cylinders <sup>1</sup> .....do....   | 46,348    | (NA)      | (NA)      | (NA)      | (NA)      | (NA)      | (NA)      | (NA)    |
| 34435 | Metal tanks, complete at factory (standard line, pressure).....do....                          | 104,442   | 305,189   | 290,835   | 282,635   | 301,215   | 269,006   | 228,692   | (NA)    |
| 34437 | Metal tanks complete at factory (standard line nonpressured) <sup>2</sup> .....do....          | 145,586   |           |           |           |           |           |           |         |
| 34438 | Metal tanks and vessels custom fabricated at the factory <sup>3</sup> .....do....              | 197,109   | 240,007   | 232,185   | 264,935   | 245,668   | 293,828   | 258,866   | (NA)    |
| 34439 | Metal tanks and vessels custom fabricated and field erected <sup>3</sup> .....do....           | 123,278   |           |           |           |           |           |           |         |
| 34430 | Fabricated plate work (boiler shops), n.s.k.....do....   | 88,555    | (S)       | (S)       | (S)       | (S)       | 70,077    | 14,322    | 27,534  |
| 3444- | Sheet metal work.....do....  | 1,324,673 | 1,183,151 | 1,132,457 | 1,134,577 | 1,096,058 | 1,008,471 | 727,620   | 410,640 |
| 34441 | Sheet metal roofing, siding, and drainage equipment.....do....                                 | 306,172   | 242,864   | 231,719   | 231,302   | 215,425   | 185,775   | 132,957   | 90,242  |
| 34442 | Culverts, flumes, irrigation pipes.....do....  | 137,527   | 132,162   | 126,970   | 134,527   | 135,741   | 126,878   | 94,061    | 48,113  |
| 34443 | Other sheet metal work.....do....  | 731,750   | 580,238   | 560,125   | 547,584   | 537,868   | 485,913   | 408,825   | 223,954 |
| 34440 | Sheet metal work, n.s.k.....do....   | 149,224   | (S)       | (S)       | (S)       | (S)       | 209,905   | 91,777    | 48,331  |
| 34460 | Architectural and ornamental metal work <sup>4</sup> .....do....                               | 306,229   | 356,675   | 354,927   | 339,801   | 346,121   | 332,941   | 265,349   | 76,163  |
| 3449- | Miscellaneous metal work, n.e.c. <sup>5</sup> .....do....                                      | 793,330   | 702,557   | 710,215   | 645,321   | 622,370   | 602,625   | 356,469   | (NA)    |
| 34492 | Prefabricated and portable metal buildings and parts.....do....                                | 224,549   | 192,533   | 195,082   | 181,456   | 195,863   | 195,123   | 116,023   | 68,409  |
| 34493 | Miscellaneous metal building materials.....do....  | 506,500   | 510,024   | 515,133   | 463,865   | 426,507   | 407,502   | 240,446   | 94,614  |
| 34490 | Miscellaneous metal work, n.s.k.....do....   | 62,281    | (NA)      | (NA)      | (NA)      | (NA)      | (NA)      | (NA)      | (NA)    |

(NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>The product class structure has been revised effective with 1963, accordingly, totals for selected product classes differ from previously published figures.

<sup>2</sup>This product class was previously included with product class 34435.

<sup>3</sup>Product classes 34438 and 34439 were previously a single product class 34436, Metal tanks and vessels, custom fabricated at the factory.

<sup>4</sup>This product class was previously identified as product class 34491.

<sup>5</sup>This 4 digit product class group previously included product class 34460, Architectural and ornamental metal work.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area                        | Value of shipments |                  | Product class and geographic area                                | Value of shipments |                  | Product class and geographic area                              | Value of shipments |                  |
|--|--------------------|------------------|--|--------------------|------------------|--|--------------------|------------------|
|  | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |
| <b>FABRICATED STRUCTURAL METAL FOR BUILDINGS (34411)</b> |                    |                  | <b>FABRICATED STRUCTURAL METAL FOR BRIDGES (34412)—Continued</b> |                    |                  | <b>METAL DOORS AND FRAMES, EXCEPT STORM DOORS (34421)</b>      |                    |                  |
| United States, total.....                                | 984,049            | 930,399          | West North Central.....  | 20,055             | 21,933           | United States, total.....                                      | 289,581            | 192,389          |
| New England.....   | 36,195             | 26,757           | Minnesota.....   | 2,492              | 2,102            | New England.....   | 14,170             | 6,394            |
| Maine.....   | 4,403              | ( <sup>2</sup> ) | Iowa.....  | 5,906              | 6,033            | Massachusetts.....   | 5,798              | 3,176            |
| Massachusetts.....                                       | 16,806             | 11,687           | Missouri.....  | 3,630              | 5,655            | Middle Atlantic.....   | 73,185             | 62,861           |
| Rhode Island.....  | 1,659              | 1,861            | Nebraska.....  | 2,720              | ( <sup>2</sup> ) | New York.....  | 45,423             | 43,172           |
| Connecticut.....   | 12,087             | 9,716            | South Atlantic.....  | 20,417             | 14,517           | New Jersey.....  | 10,793             | 1,652            |
| Middle Atlantic.....                                     | 236,129            | 275,200          | Virginia.....  | 12,282             | 7,869            | Pennsylvania.....  | 16,969             | 18,037           |
| New York.....  | 86,616             | 76,505           | North Carolina.....  | 4,929              | ( <sup>2</sup> ) | East North Central.....  | 91,717             | 53,492           |
| New Jersey.....  | 37,300             | 33,828           | East South Central.....  | 18,007             | 9,813            | Ohio.....  | 29,129             | 15,842           |
| Pennsylvania.....  | 112,213            | 164,867          | Alabama.....   | 13,580             | 7,493            | Indiana.....   | 10,355             | 6,410            |
| East North Central.....                                  | 210,368            | 210,785          | West South Central.....  | 15,110             | 16,834           | Illinois.....  | 17,075             | 9,773            |
| Ohio.....  | 41,683             | 48,960           | Oklahoma.....  | 4,287              | 4,784            | Michigan.....  | 34,181             | 21,023           |
| Indiana.....   | 32,518             | 38,437           | Texas.....   | 7,958              | 9,512            | West North Central.....  | 6,260              | 6,238            |
| Illinois.....  | 60,605             | 66,639           | Mountain.....  | 4,853              | 3,867            | Minnesota.....   | 1,930              | 1,996            |
| Michigan.....  | 51,931             | 41,823           | Utah.....  | 2,680              | ( <sup>2</sup> ) | Missouri.....  | 2,622              | 3,323            |
| Wisconsin.....   | 23,631             | 14,926           | Pacific.....   | 14,421             | 19,452           | South Atlantic.....  | 36,733             | 17,746           |
| West North Central.....                                  | 80,315             | 73,000           | California.....  | 10,454             | 15,280           | Virginia.....  | 5,072              | 4,113            |
| Minnesota.....   | 13,855             | 12,015           | OTHER FABRICATED STRUCTURAL METAL (34413)                        |                    |                  | Georgia.....   | 9,848              | ( <sup>2</sup> ) |
| Iowa.....  | 18,784             | 15,959           | United States, total.....  | 287,248            | 261,992          | Florida.....   | 19,959             | 7,284            |
| Missouri.....  | 27,120             | 28,205           | New England.....   | 3,166              | 4,536            | East South Central.....  | 6,473              | 8,861            |
| Nebraska.....  | 6,600              | 4,570            | Massachusetts.....   | 1,200              | 2,378            | Tennessee.....   | 2,025              | ( <sup>2</sup> ) |
| Kansas.....  | 10,727             | 10,555           | Connecticut.....   | 1,685              | ( <sup>2</sup> ) | West South Central.....  | 13,232             | 6,577            |
| South Atlantic.....                                      | 110,602            | 81,758           | Middle Atlantic.....   | 68,357             | 79,763           | Texas.....   | 4,824              | 1,925            |
| Maryland.....  | 16,614             | 12,110           | New York.....  | 7,003              | 15,131           | Mountain.....  | 2,436              | 1,653            |
| Virginia.....  | 27,976             | 22,370           | New Jersey.....  | 1,566              | 9,630            | Pacific.....   | 45,375             | 28,567           |
| West Virginia.....                                       | 9,406              | 4,072            | Pennsylvania.....  | 59,788             | 55,002           | Oregon.....  | 3,121              | ( <sup>2</sup> ) |
| North Carolina.....                                      | 14,495             | 13,508           | East North Central.....  | 62,383             | 46,201           | California.....  | 41,420             | 25,915           |
| South Carolina.....                                      | 14,784             | 12,805           | Ohio.....  | 20,375             | 16,910           | <b>METAL WINDOW SASH AND FRAMES, EXCEPT STORM SASH (34422)</b> |                    |                  |
| Georgia.....   | 8,559              | 5,977            | Indiana.....   | 12,274             | 7,585            | United States, total.....                                      | 308,781            | 285,311          |
| Florida.....   | 18,364             | 10,064           | Illinois.....  | 17,898             | 11,387           | New England.....   | 8,388              | 8,918            |
| East South Central.....                                  | 64,955             | 52,756           | Michigan.....  | 8,637              | 2,700            | Massachusetts.....   | 6,036              | ( <sup>2</sup> ) |
| Kentucky.....  | 2,008              | 2,762            | Wisconsin.....   | 3,199              | 7,619            | Connecticut.....   | 1,767              | 1,921            |
| Tennessee.....   | 26,195             | 14,686           | West North Central.....  | 8,865              | 8,934            | Middle Atlantic.....   | 44,922             | 34,948           |
| Alabama.....   | 26,180             | 31,528           | Minnesota.....   | 1,140              | 1,905            | New York.....  | 15,690             | 13,568           |
| Mississippi.....   | 10,572             | 3,780            | Missouri.....  | 2,470              | 3,218            | New Jersey.....  | 6,973              | 4,208            |
| West South Central.....                                  | 108,018            | 79,763           | Kansas.....  | 4,069              | 3,396            | Pennsylvania.....  | 22,259             | 17,172           |
| Arkansas.....  | 9,892              | 4,644            | South Atlantic.....  | 16,410             | 13,618           | East North Central.....  | 74,283             | 87,569           |
| Louisiana.....   | 12,826             | 10,577           | Maryland.....  | 2,509              | ( <sup>2</sup> ) | Ohio.....  | 22,755             | 26,261           |
| Oklahoma.....  | 15,628             | 12,298           | Virginia.....  | 3,749              | 6,296            | Indiana.....   | 11,491             | 9,373            |
| Texas.....   | 69,672             | 52,244           | South Carolina.....  | 1,767              | ( <sup>2</sup> ) | Illinois.....  | 18,072             | 15,158           |
| Mountain.....  | 27,430             | 26,452           | Florida.....   | 4,380              | 2,833            | Michigan.....  | 14,521             | 32,871           |
| Idaho.....   | 2,512              | ( <sup>2</sup> ) | East South Central.....  | 29,799             | 8,605            | Wisconsin.....   | 7,444              | 3,906            |
| Colorado.....  | 8,774              | 8,983            | Tennessee.....   | 2,978              | 1,033            | West North Central.....  | 20,665             | 21,130           |
| Arizona.....   | 6,143              | 7,333            | Alabama.....   | 8,692              | 6,646            | Minnesota.....   | 3,474              | 1,373            |
| Utah.....  | 6,800              | 6,611            | Mississippi.....   | 17,727             | ( <sup>2</sup> ) | Iowa.....  | 1,257              | ( <sup>2</sup> ) |
| Pacific.....   | 110,037            | 103,628          | West South Central.....  | 40,488             | 43,620           | Missouri.....  | 15,443             | 18,621           |
| Washington.....  | 12,270             | 13,609           | Louisiana.....   | 1,344              | ( <sup>2</sup> ) | South Atlantic.....  | 53,355             | 63,423           |
| Oregon.....  | 5,146              | 4,541            | Oklahoma.....  | 11,804             | 16,657           | Maryland.....  | 1,811              | ( <sup>2</sup> ) |
| California.....  | 91,444             | 85,478           | Texas.....   | 21,340             | 21,179           | Georgia.....   | 1,742              | ( <sup>2</sup> ) |
| <b>FABRICATED STRUCTURAL METAL FOR BRIDGES (34412)</b>   |                    |                  | Mountain.....  | 7,150              | 5,949            | Florida.....   | 45,725             | 58,716           |
| United States, total.....                                | 224,879            | 279,624          | Pacific.....   | 50,630             | 50,766           | East South Central.....  | 14,378             | 10,488           |
| New England.....   | 10,894             | 12,660           | Oregon.....  | 12,876             | ( <sup>2</sup> ) | Tennessee.....   | 3,338              | ( <sup>2</sup> ) |
| Middle Atlantic.....                                     | 61,572             | 109,211          | California.....  | 33,989             | 38,569           | Mississippi.....   | 4,926              | 2,854            |
| New York.....  | 11,073             | 13,142           | West North Central.....  | 8,865              | 8,934            | West South Central.....  | 25,747             | 21,379           |
| New Jersey.....  | 7,829              | 21,422           | Minnesota.....   | 1,140              | 1,905            | Louisiana.....   | 3,041              | ( <sup>2</sup> ) |
| Pennsylvania.....  | 42,670             | 74,647           | Missouri.....  | 2,470              | 3,218            | Texas.....   | 21,725             | 16,886           |
| East North Central.....                                  | 59,550             | 71,337           | Kansas.....  | 4,069              | 3,396            | Mountain.....  | 3,199              | 3,842            |
| Ohio.....  | 9,707              | 12,912           | South Atlantic.....  | 16,410             | 13,618           | Colorado.....  | 2,160              | ( <sup>2</sup> ) |
| Indiana.....   | 23,608             | 33,176           | Maryland.....  | 2,509              | ( <sup>2</sup> ) | Pacific.....   | 63,844             | 33,614           |
| Illinois.....  | 11,276             | 18,293           | Virginia.....  | 3,749              | 6,296            | Washington.....  | 9,557              | 6,243            |
| Michigan.....  | 5,916              | 3,855            | South Carolina.....  | 1,767              | ( <sup>2</sup> ) | Oregon.....  | 1,258              | ( <sup>2</sup> ) |
| Wisconsin.....   | 9,043              | 3,101            | Florida.....   | 4,380              | 2,833            | California.....  | 53,029             | 26,821           |

See footnotes at end of table.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area                         | Value of shipments |                  | Product class and geographic area   | Value of shipments |                  | Product class and geographic area  | Value of shipments |                  |
|---|--------------------|------------------|---|--------------------|------------------|--|--------------------|------------------|
|   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |
| METAL MOLDING AND TRIM AND STORE FRONTS (34423)           |                    |                  | METAL WINDOW AND DOOR SCREENS EXCEPT COMBINATION AND METAL WEATHERSTRIP (34425) |                    |                  | FABRICATED STEEL PLATE (34432)—Continued   |                    |                  |
| United States, total.....                                 | 116,800            | 97,283           | United States, total.....   | 56,676             | 64,611           | West North Central.....  |                    | 29,882           |
| New England.....  | 7,216              | 5,384            | New England.....  | 1,846              | 1,688            | Iowa.....  |                    | 3,466            |
| New Hampshire.....  | 3,705              | ( <sup>2</sup> ) | Middle Atlantic.....  | 7,436              | 10,721           | Missouri.....  |                    | 15,809           |
| Massachusetts.....  | 2,394              | ( <sup>2</sup> ) | New York.....   | 4,612              | 4,069            | Nebraska.....  |                    | 4,577            |
| Middle Atlantic.....                                      | 13,562             | 13,506           | East North Central.....   | 15,335             | 20,593           | South Atlantic.....  |                    | 22,349           |
| Pennsylvania.....   | 6,173              | ( <sup>2</sup> ) | Ohio.....   | 2,954              | 6,486            | Maryland.....  |                    | 5,559            |
| East North Central.....                                   | 39,147             | 42,875           | Indiana.....  | 1,743              | 1,316            | Virginia.....  |                    | 7,679            |
| Indiana.....  | 4,584              | 5,361            | Illinois.....   | 9,266              | 11,834           | North Carolina.....  |                    | 1,721            |
| Illinois.....   | 13,238             | 17,759           | Michigan.....   | 1,286              | (Z)              | South Carolina.....  |                    | 1,826            |
| Michigan.....   | 20,420             | 13,636           | West North Central.....   | 4,403              | 4,147            | Florida.....   |                    | 3,463            |
| South Atlantic.....                                       | 37,270             | 19,739           | Missouri.....   | 3,273              | ( <sup>2</sup> ) | East South Central.....  |                    | 13,170           |
| East South Central.....                                   | 4,881              | 2,749            | South Atlantic.....   | 7,361              | 11,114           | Tennessee.....   |                    | 1,676            |
| West South Central.....                                   | 4,433              | 2,322            | Florida.....  | 5,458              | 8,799            | Alabama.....   |                    | 9,121            |
| Pacific.....  | 9,693              | 10,281           | East South Central.....   | 3,383              | 4,297            | West South Central.....  |                    | 23,236           |
| All other divisions.....                                  | (Z)                | (Z)              | West South Central.....   | 8,082              | 6,022            | Louisiana.....   |                    | 1,514            |
|   |                    |                  | West.....   | 8,830              |                  | Texas.....   |                    | 19,842           |
|   |                    |                  | California.....   | 8,460              | 5,789            | Mountain.....  |                    | 14,876           |
| METAL COMBINATION SCREEN AND STORM SASH AND DOORS (34424) |                    |                  | HEAT EXCHANGERS AND STEAM CONDENSERS (34431)                                    |                    |                  | Colorado.....  |                    | 3,429            |
| United States, total.....                                 | 221,353            | 231,510          | United States, total.....   | 160,548            | 187,243          | Utah.....  |                    | 8,951            |
| New England.....  | 16,132             | 12,658           | New England.....  | 9,136              | ( <sup>2</sup> ) | Pacific.....   |                    | 58,904           |
| Massachusetts.....  | 9,374              | 6,911            | Massachusetts.....  | 5,370              | ( <sup>2</sup> ) | Oregon.....  |                    | 7,405            |
| Connecticut.....  | 4,637              | 2,793            | Middle Atlantic.....  | 61,713             | 104,114          | California.....  |                    | 49,363           |
| Middle Atlantic.....                                      | 66,374             | 86,132           | New York.....   | 24,027             | 30,714           | STEEL POWER BOILERS, PARTS AND ATTACHMENTS (OVER 15 P.S.I. STEAM WORKING PRESSURE) (34433) |                    |                  |
| New York.....   | 26,098             | 35,777           | New Jersey.....   | 8,803              | 28,167           | United States, total.....  | 340,739            | 409,549          |
| New Jersey.....   | 21,951             | 18,802           | Pennsylvania.....   | 28,883             | 45,233           | Middle Atlantic.....   | 94,165             | 121,382          |
| Pennsylvania.....   | 18,325             | 31,553           | East North Central.....   | 29,917             | 40,046           | Pennsylvania.....  | 58,605             | 61,392           |
| East North Central.....                                   | 75,799             | 78,955           | Illinois.....   | 4,390              | 2,252            | East North Central.....  | 102,924            | 146,493          |
| Ohio.....   | 29,538             | 29,352           | Wisconsin.....  | 18,596             | 17,631           | Ohio.....  | 64,925             | ( <sup>2</sup> ) |
| Indiana.....  | 4,161              | 3,705            | East South Central.....   | 3,843              | ( <sup>2</sup> ) | West North Central.....  | 6,236              | 9,341            |
| Illinois.....   | 21,384             | 22,487           | West South Central.....   | 30,827             | 16,713           | Pacific.....   | 4,145              | 2,518            |
| Michigan.....   | 18,389             | 22,056           | Louisiana.....  | 1,153              | (Z)              | California.....  | 4,145              | 2,049            |
| Wisconsin.....  | 2,327              | 1,355            | Oklahoma.....   | 18,678             | ( <sup>2</sup> ) | All other divisions.....   | 133,269            | 129,815          |
| West North Central.....                                   | 24,598             | 21,741           | Texas.....  | 10,996             | 9,845            | GAS CYLINDERS (34434)  |                    |                  |
| Minnesota.....  | 2,851              | 4,618            | Pacific.....  | 8,095              | 16,632           | United States, total.....  |                    | 46,348           |
| Iowa.....   | 3,987              | 8,212            | California.....   | 7,716              | ( <sup>2</sup> ) | Middle Atlantic.....   |                    | 13,780           |
| Missouri.....   | 9,587              | 4,387            | All other divisions.....  | 17,017             | 9,738            | New Jersey.....  |                    | 3,015            |
| Nebraska.....   | 1,386              | (Z)              | FABRICATED STEEL PLATE (34432)  |                    |                  | East North Central.....  |                    | 22,259           |
| Kansas.....   | 6,555              | 4,044            | United States, total.....   |                    | 374,197          | West South Central.....  |                    | 1,768            |
| South Atlantic.....                                       | 13,979             | 8,900            | New England.....  |                    | 41,732           | Texas.....   |                    | 1,662            |
| Delaware.....   | 1,262              | 1,059            | Massachusetts.....  |                    | 25,533           | Pacific.....   |                    | 6,767            |
| Maryland.....   | 3,218              | 3,382            | Connecticut.....  |                    | 15,632           | California.....  |                    | 6,767            |
| Virginia.....   | 1,813              | 1,275            | Middle Atlantic.....  |                    | 103,108          | All other divisions.....   |                    | (Z)              |
| North Carolina.....                                       | 5,319              | (Z)              | New York.....   |                    | 6,146            | METAL TANKS, COMPLETE AT FACTORY (STANDARD LINE, PRESSURE) (34435)                         |                    |                  |
| East South Central.....                                   | 12,915             | 11,435           | New Jersey.....   |                    | 7,776            | United States, total.....  |                    | 104,442          |
| Kentucky.....   | 5,696              | 7,283            | Pennsylvania.....   |                    | 89,186           | New England.....   |                    | 1,584            |
| Tennessee.....  | 4,956              | ( <sup>2</sup> ) | East North Central.....   |                    | 66,940           | Massachusetts.....   |                    | 1,034            |
| West South Central.....                                   | 3,896              | 2,214            | Ohio.....   |                    | 22,865           | Middle Atlantic.....   |                    | 9,537            |
| Oklahoma.....   | 1,907              | (Z)              | Indiana.....  |                    | 7,023            | New York.....  |                    | 2,345            |
| Texas.....  | 1,570              | 1,810            | Illinois.....   |                    | 16,353           | New Jersey.....  |                    | 3,955            |
| Mountain.....   | 2,438              | 2,266            | Michigan.....   |                    | 12,702           | Pennsylvania.....  |                    | 3,237            |
| Colorado.....   | 1,807              | 1,175            | Wisconsin.....  |                    | 7,997            |  |                    |                  |
| Pacific.....  | 5,222              | 7,209            |   |                    |                  |  |                    |                  |
| Washington.....   | 1,339              | (Z)              |   |                    |                  |  |                    |                  |
| California.....   | 3,383              | 6,071            |   |                    |                  |  |                    |                  |

See footnotes at end of table.







TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area   | Value of shipments |                  | Product class and geographic area   | Value of shipments |                  | Product class and geographic area                                     | Value of shipments |                  |
|---|--------------------|------------------|---|--------------------|------------------|---|--------------------|------------------|
|   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |
| OTHER SHEET METAL WORK (34443)  |                    |                  | ARCHITECTURAL AND ORNAMENTAL METAL WORK (EXCEPT CURTAIN WALL AND OTHER EXTERIOR PANELS) (34460)—Continued |                    |                  | PREFABRICATED AND PORTABLE METAL BUILDING AND PARTS (34492)—Continued |                    |                  |
| United States, total.....   | 731,750            | 485,913          | East North Central.....   | 74,373             | 90,115           | East South Central.....   | 16,203             | 15,552           |
| New England.....  | 42,983             | 26,129           | Ohio.....   | 27,559             | 28,627           | Kentucky.....   | 5,014              | ( <sup>2</sup> ) |
| Massachusetts.....  | 30,023             | 20,370           | Indiana.....  | 7,771              | 6,899            | West South Central.....   | 19,446             | 14,930           |
| Rhode Island.....   | 1,829              | ( <sup>2</sup> ) | Illinois.....   | 20,461             | 27,316           | Louisiana.....  | 4,364              | ( <sup>2</sup> ) |
| Connecticut.....  | 7,990              | 4,234            | Michigan.....   | 11,691             | 20,815           | Texas.....  | 10,478             | 10,699           |
| Middle Atlantic.....  | 163,365            | 111,711          | Wisconsin.....  | 6,891              | 6,458            | West.....   | 33,326             | 20,438           |
| New York.....   | 76,135             | 48,358           | West North Central.....   | 16,679             | 18,134           | California.....   | 29,457             | 16,763           |
| New Jersey.....   | 34,053             | 23,054           | Minnesota.....  | 5,696              | 7,547            | MISCELLANEOUS METAL BUILDING MATERIALS AND CURTAIN WALL (34493)       |                    |                  |
| Pennsylvania.....   | 53,177             | 40,299           | Ohio.....   | 1,660              | 2,561            | United States, total.....   | 506,500            | 407,502          |
| East North Central.....   | 229,216            | 144,853          | Missouri.....   | 6,449              | 6,208            | New England.....  | 10,392             | 8,156            |
| Ohio.....   | 81,039             | 55,447           | Kansas.....   | 1,953              | 1,054            | Massachusetts.....  | 5,899              | 3,363            |
| Indiana.....  | 25,864             | 9,327            | South Atlantic.....   | 38,401             | 34,116           | Connecticut.....  | 1,752              | ( <sup>2</sup> ) |
| Illinois.....   | 43,940             | 30,614           | Maryland.....   | 8,405              | 8,450            | Middle Atlantic.....  | 76,014             | 64,409           |
| Michigan.....   | 51,310             | 27,275           | District of Columbia.....   | 1,427              | 1,914            | New York.....   | 13,780             | 14,352           |
| Wisconsin.....  | 27,063             | 22,190           | Virginia.....   | 6,460              | 6,000            | New Jersey.....   | 14,696             | 16,914           |
| West North Central.....   | 83,798             | 63,683           | North Carolina.....   | 4,113              | 2,780            | Pennsylvania.....   | 47,538             | 33,143           |
| Minnesota.....  | 13,288             | 11,886           | South Carolina.....   | 1,826              | ( <sup>2</sup> ) | East North Central.....   | 123,179            | 108,087          |
| Iowa.....   | 14,366             | 8,889            | Georgia.....  | 3,249              | 2,412            | Ohio.....   | 42,941             | 39,685           |
| Missouri.....   | 32,935             | 32,106           | Florida.....  | 5,382              | 5,257            | Indiana.....  | 8,738              | 1,615            |
| Nebraska.....   | 16,743             | 6,065            | East South Central.....   | 15,833             | 19,156           | Illinois.....   | 51,088             | 46,928           |
| Kansas.....   | 3,727              | 1,602            | Kentucky.....   | 6,505              | 5,719            | Michigan.....   | 11,389             | 8,801            |
| South Atlantic.....   | 54,095             | 33,272           | Tennessee.....  | 2,351              | 7,059            | Wisconsin.....  | 9,023              | 11,058           |
| Maryland.....   | 15,708             | 5,380            | Alabama.....  | 6,381              | 5,913            | West North Central.....   | 48,512             | 26,922           |
| Virginia.....   | 5,873              | 3,074            | West South Central.....   | 18,415             | 13,903           | Minnesota.....  | 11,214             | 9,167            |
| West Virginia.....  | 1,690              | 1,703            | Arkansas.....   | 1,053              | ( <sup>2</sup> ) | Iowa.....   | 3,782              | 3,273            |
| North Carolina.....   | 5,435              | 4,384            | Louisiana.....  | 1,465              | 1,127            | Nebraska.....   | 1,937              | 1,883            |
| Georgia.....  | 7,087              | 5,119            | Oklahoma.....   | 3,853              | 3,578            | Kansas.....   | 4,900              | ( <sup>2</sup> ) |
| Florida.....  | 15,161             | 12,709           | Texas.....  | 12,044             | 8,857            | South Atlantic.....   | 69,781             | 59,696           |
| East South Central.....   | 15,887             | 8,909            | Mountain.....   | 11,391             | 9,190            | Maryland.....   | 11,588             | 15,582           |
| Kentucky.....   | 4,358              | 2,418            | Colorado.....   | 1,439              | 1,982            | Virginia.....   | 12,099             | 6,660            |
| Tennessee.....  | 5,575              | 2,238            | Utah.....   | 4,867              | 4,415            | West Virginia.....  | 10,532             | ( <sup>2</sup> ) |
| Alabama.....  | 5,104              | 3,463            | Pacific.....  | 34,154             | 31,301           | North Carolina.....   | 5,919              | 3,166            |
| West South Central.....   | 27,741             | 18,705           | Washington.....   | 2,172              | 3,570            | South Carolina.....   | 11,685             | 6,610            |
| Arkansas.....   | 1,123              | ( <sup>2</sup> ) | California.....   | 31,156             | 25,737           | Florida.....  | 15,981             | 13,145           |
| Louisiana.....  | 4,888              | 2,163            | PREFABRICATED AND PORTABLE METAL BUILDING AND PARTS (34492)   |                    |                  | East South Central.....   | 34,606             | 24,828           |
| Oklahoma.....   | 3,014              | 2,029            | United States, total.....   | 224,549            | 195,123          | Tennessee.....  | 8,086              | 4,647            |
| Texas.....  | 18,716             | 14,260           | New England.....  | 1,843              | 8,965            | Alabama.....  | 21,935             | 18,682           |
| Mountain.....   | 10,722             | 6,070            | Middle Atlantic.....  | 27,130             | 12,167           | West South Central.....   | 52,373             | 44,879           |
| Colorado.....   | 4,295              | 2,655            | New York.....   | 9,447              | 7,586            | Oklahoma.....   | 11,863             | 9,286            |
| Arizona.....  | 4,177              | ( <sup>2</sup> ) | New Jersey.....   | 2,011              | 1,496            | Texas.....  | 34,886             | 28,606           |
| Utah.....   | 1,357              | 1,118            | Pennsylvania.....   | 15,672             | 3,085            | Mountain.....   | 14,756             | 15,044           |
| Pacific.....  | 103,943            | 72,543           | East North Central.....   | 92,841             | 94,402           | Colorado.....   | 6,321              | ( <sup>2</sup> ) |
| Washington.....   | 10,491             | 7,839            | Ohio.....   | 21,900             | 30,269           | Utah.....   | 1,520              | 3,960            |
| Oregon.....   | 5,501              | 4,947            | Illinois.....   | 46,263             | 38,131           | Pacific.....  | 76,887             | 55,481           |
| California.....   | 87,568             | 59,757           | Wisconsin.....  | 6,938              | ( <sup>2</sup> ) | California.....   | 60,571             | 43,084           |
| ARCHITECTURAL AND ORNAMENTAL METAL WORK (EXCEPT CURTAIN WALL AND OTHER EXTERIOR PANELS) (34460) |                    |                  | West North Central.....   | 19,554             | 22,591           |   |                    |                  |
| United States, total.....   | 306,229            | 332,941          | Missouri.....   | 2,355              | 2,604            |   |                    |                  |
| New England.....  | 15,272             | 19,091           | Kansas.....   | 1,890              | 1,406            |   |                    |                  |
| Massachusetts.....  | 8,952              | 8,709            | South Atlantic.....   | 14,206             | 6,078            |   |                    |                  |
| Connecticut.....  | 5,710              | 9,128            | Georgia.....  | 5,356              | ( <sup>2</sup> ) |   |                    |                  |
| Middle Atlantic.....  | 81,711             | 97,935           | Florida.....  | 4,590              | 3,239            |   |                    |                  |
| New York.....   | 39,469             | 43,568           |   |                    |                  |   |                    |                  |
| New Jersey.....   | 11,772             | 13,848           |   |                    |                  |   |                    |                  |
| Pennsylvania.....   | 30,470             | 40,519           |   |                    |                  |   |                    |                  |

(<sup>2</sup>) Less than \$1 million.

<sup>1</sup>For the specified product classes, shipments of over \$1 million were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 34411, Vermont, North Dakota, South Dakota, New Mexico, and Nevada; 34412, Maine, Massachusetts, Connecticut, South Dakota, Kansas, Georgia, Tennessee, Arkansas, Louisiana, Arizona, and Washington; 34413, West Virginia, Idaho, Utah, and Washington; 34421, Rhode Island, Connecticut, Kentucky, Alabama, Arkansas, and Louisiana; 34422, Virginia, Kentucky, and Alabama; 34423, New Jersey, Georgia, Florida, Kentucky, Oklahoma, Texas, Washington, and California; 34424, Alabama; 34425, New Hampshire, Pennsylvania, Alabama, Oklahoma, and Texas; 34431, Rhode Island, Connecticut, Ohio, Michigan, Missouri, Maryland, Kentucky, and Tennessee; 34432, Minnesota, Kansas, Mississippi, and Washington; 34433, New York, New Jersey, Indiana, Illinois, Michigan, Minnesota, Iowa, Missouri, Virginia, North Carolina, Georgia, Tennessee, Mississippi, and Texas; 34434, Pennsylvania, Ohio, Indiana, Illinois, and Wisconsin; 34435, Indiana, Michigan, Nebraska, Georgia, Alabama, Mississippi, Louisiana, and Colorado; 34437, Arkansas, Louisiana, and Oregon; 34438, Indiana, Michigan, Delaware, Virginia, West Virginia, North Carolina, and Louisiana; 34439, Indiana, Illinois, Wisconsin, Iowa, Georgia, Kentucky, Tennessee, Alabama, Mississippi, Utah, and Oregon; 34441, New York, New Jersey, Iowa, Virginia, West Virginia, North Carolina, Tennessee, and Mississippi; 34442, Maine, Massachusetts, Maryland, Georgia, Kentucky, Alabama, Louisiana, Montana, Idaho, Colorado, and Washington; 34443, Maine, South Dakota, District of Columbia, and South Carolina; 34460, West Virginia, and Arizona; 34492, Massachusetts, Indiana, Michigan, Iowa, Nebraska, Alabama, Oklahoma, and Oregon; 34493, Maine, Rhode Island, Missouri, Georgia, Kentucky, Mississippi, Arkansas, Louisiana, New Mexico, Arizona, Washington, and Oregon.

<sup>2</sup>Shipments of \$1 million or more were reported, but exact figures are withheld to avoid disclosure of individual company figures.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code   | Material  | Unit of measure                | 1963                                       |                          | 1958      |                          | 1963                                       |                          | 1958      |                          |       |     |         |       |       |       |         |       |
|--------|---|--------------------------------|--|--------------------------|-----------|--------------------------|--|--------------------------|-----------|--------------------------|-------|-----|---------|-------|-------|-------|---------|-------|
|        |   |                                | Quantity                                   | Delivered cost (\$1,000) | Quantity  | Delivered cost (\$1,000) | Quantity                                   | Delivered cost (\$1,000) | Quantity  | Delivered cost (\$1,000) |       |     |         |       |       |       |         |       |
|        |   |                                | INDUSTRY 3441.—FABRICATED STRUCTURAL STEEL |                          |           |                          | INDUSTRY 3442.—METAL DOORS, SASH, AND TRIM |                          |           |                          |       |     |         |       |       |       |         |       |
|        | Materials, containers, parts, and supplies, total.....  |                                | (X)  | 947,245                  | (X)       | 856,619                  | -  | 628,166                  | -         | 517,157                  |       |     |         |       |       |       |         |       |
|        | Mill shapes and forms (except castings):  |                                |  |                          |           |                          |  |                          |           |                          |       |     |         |       |       |       |         |       |
|        | Carbon steel:   |                                |  |                          |           |                          |  |                          |           |                          |       |     |         |       |       |       |         |       |
| 331009 | Concrete reinforcing bars..   | Short tons..                   | 248,844                                    | 27,931                   | 306,434   | 42,336                   | } 30,457                                   | 4,658                    | 55,976    | 9,097                    |       |     |         |       |       |       |         |       |
| 331010 | Bars and bar shapes (except concrete reinforcing bars)  | ...do.....                     | 362,049                                    | 53,253                   | 287,185   | 43,292                   |  |                          |           |                          |       |     |         |       |       |       |         |       |
| 331012 | Sheet and strip.....  | ...do.....                     | 311,505                                    | 48,390                   | 243,327   | 32,114                   | 269,792                                    | 42,948                   | 251,980   | 35,089                   |       |     |         |       |       |       |         |       |
| 331013 | Plates.....   | ...do.....                     | 969,636                                    | 142,951                  | 762,855   | 108,118                  | 2,911                                      | 474                      | 2,210     | 394                      |       |     |         |       |       |       |         |       |
| 331015 | Structural shapes.....  | ...do.....                     | 2,432,411                                  | 354,570                  | 2,409,271 | 333,050                  | 21,741                                     | 3,507                    | 60,707    | 9,279                    |       |     |         |       |       |       |         |       |
| 331017 | Wire and wire products.....   | ...do.....                     | 37,106                                     | 6,103                    | 42,185    | 7,456                    | 2,172                                      | 715                      | 3,570     | 2,318                    |       |     |         |       |       |       |         |       |
| 331019 | All other carbon steel mill shapes and forms.....   | ...do.....                     | 157,399                                    | 30,701                   | 85,130    | 13,780                   | 29,712                                     | 5,297                    | 6,823     | 1,312                    |       |     |         |       |       |       |         |       |
|        | Alloy steel (except stainless):   |                                |  |                          |           |                          |  |                          |           |                          |       |     |         |       |       |       |         |       |
| 331021 | Bar and bar shapes.....   | ...do.....                     | 9,908                                      | 1,671                    | 13,718    | 2,679                    | } 4,481                                    | 1,097                    | 1,020     | 310                      |       |     |         |       |       |       |         |       |
| 331029 | All other alloy steel mill shapes and forms.....  | ...do.....                     | 30,750                                     | 7,402                    | 11,747    | 2,284                    |  |                          |           |                          |       |     |         |       |       |       |         |       |
| 331031 | Stainless steel.....  | ...do.....                     | 3,152                                      | 3,965                    | 1,483     | 1,734                    | 7,586                                      | 7,763                    | 6,088     | 5,625                    |       |     |         |       |       |       |         |       |
| 335790 | Copper and copper-base alloy: Insulated wire and cable...   | 1,000 lbs. (copper content)... | } 145                                      | } 84                     | } (D)     | } (D)                    | } (D)                                      | } (D)                    | } (D)     | } (D)                    |       |     |         |       |       |       |         |       |
| 335728 | Bare wire for electrical conduction.....  | 1,000 lbs...                   |  |                          |           |                          |  |                          |           |                          |       |     |         |       |       |       |         |       |
| 335102 | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | ...do.....                     |  |                          |           |                          |  |                          |           |                          | 138   | 113 | } 1,275 | } 848 | } 273 | } 162 | } 1,165 | } 726 |
| 335127 | Pipe and tube.....  | ...do.....                     |  |                          |           |                          |  |                          |           |                          | 2,268 | 432 |         |       |       |       |         |       |
| 335123 | Plate, sheet, and strip (including military cups and discs).....                                      | ...do.....                     |  |                          |           |                          |  |                          |           |                          | 318   | 299 |         |       |       |       |         |       |
|        | Aluminum and aluminum-base alloy:   |                                |  |                          |           |                          |  |                          |           |                          |       |     |         |       |       |       |         |       |
| 335202 | Sheet, plate and foil.....  | ...do.....                     | 11,603                                     | 5,950                    | 6,986     | 3,399                    | 68,545                                     | 26,048                   | 72,005    | 30,160                   |       |     |         |       |       |       |         |       |
| 335205 | Extruded shapes (including extruded rod, bar, pipe, tube, etc.).....                                  | ...do.....                     | 10,155                                     | 4,695                    | } 6,568   | } 2,937                  | } 334,549                                  | } 128,054                | } 298,496 | } 136,713                |       |     |         |       |       |       |         |       |
| 335209 | All other aluminum mill shapes and forms (wire, rolled rod, and bar powder, welded tubing, etc.)..... | ...do.....                     | 3,444                                      | 1,790                    |           |                          |  |                          |           |                          |       |     |         |       |       |       |         |       |
|        | Primary metals (ingot, pig, etc.):  |                                |  |                          |           |                          |  |                          |           |                          |       |     |         |       |       |       |         |       |
| 331051 | Pig iron.....   | Short tons..                   | 1,403                                      | 106                      | 3,271     | 215                      | (D)  | (D)                      | (D)       | (D)                      |       |     |         |       |       |       |         |       |
| 333401 | Aluminum and aluminum-base alloy refinery shapes (ingot, slugs, billet).....                          | ...do.....                     | (D)  | (D)                      | (D)       | (D)                      | 87,118                                     | 38,770                   | 40,081    | 21,207                   |       |     |         |       |       |       |         |       |
| 333348 | Zinc and zinc-base alloy refinery shapes.....   | ...do.....                     | (D)  | (D)                      | 2,890     | 685                      | 543  | 251                      | 212       | 216                      |       |     |         |       |       |       |         |       |
| 999811 | Scrap (excluding home scrap): Iron and steel.....   | ...do.....                     | 10,730                                     | 497                      | 26,008    | 1,051                    | (D)  | (D)                      | -         | -                        |       |     |         |       |       |       |         |       |
| 999808 | Aluminum and aluminum-base alloy.....   | ...do.....                     | (NA)                                       | 21                       | (D)       | (D)                      | 6,984                                      | 2,665                    | 7,918     | 3,436                    |       |     |         |       |       |       |         |       |
|        | Castings (rough and semi-finished): <sup>1</sup>  |                                |  |                          |           |                          |  |                          |           |                          |       |     |         |       |       |       |         |       |
| 332011 | Iron (gray and malleable)....   | ...do.....                     | 3,696                                      | 1,049                    | 5,858     | 1,677                    | 1,205                                      | 645                      | 1,547     | 601                      |       |     |         |       |       |       |         |       |
| 332300 | Steel.....  | ...do.....                     | 20,829                                     | 8,498                    | 15,587    | 5,622                    | 2,063                                      | 531                      | 2,555     | 801                      |       |     |         |       |       |       |         |       |
| 336100 | Aluminum and aluminum-base alloy.....   | 1,000 lbs...                   | 2,477                                      | 2,071                    | 1,936     | 1,795                    | 7,306                                      | 3,441                    | 20,280    | 11,961                   |       |     |         |       |       |       |         |       |
| 336200 | Copper and copper-base alloy.   | ...do.....                     | 103  | 66                       | 272       | 176                      | 76   | 40                       | 153       | 149                      |       |     |         |       |       |       |         |       |
| 970099 | All other materials and components, parts, containers, and supplies consumed <sup>2</sup> .....       |                                | (X)  | 144,697                  | (X)       | 145,063                  | (X)  | 165,331                  | (X)       | 120,429                  |       |     |         |       |       |       |         |       |
| 973000 | Materials, etc., n.s.k. <sup>3</sup> .....  |                                | (X)  | 99,940                   | (X)       | 106,308                  | (X)  | 175,515                  | (X)       | 125,886                  |       |     |         |       |       |       |         |       |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material   | Unit of measure | 1963                                |                          | 1958        |                          | 1963                            |                          | 1958         |                          |
|--|--|-----------------|-------------------------------------|--------------------------|-------------|--------------------------|---------------------------------|--------------------------|--------------|--------------------------|
|  |  |                 | Quantity                            | Delivered cost (\$1,000) | Quantity    | Delivered cost (\$1,000) | Quantity                        | Delivered cost (\$1,000) | Quantity     | Delivered cost (\$1,000) |
|  |  |                 | INDUSTRY 3443.—BOILER SHOP PRODUCTS |                          |             |                          | INDUSTRY 3444.—SHEET METAL WORK |                          |              |                          |
| Materials, containers, parts, and supplies, total..... |  |                 | (X)                                 | 755,278                  | (X)         | 768,511                  | (X)                             | 562,429                  | (X)          | 462,140                  |
| Mill shapes and forms (except casting):                |  |                 |                                     |                          |             |                          |                                 |                          |              |                          |
| Carbon steel:  |  |                 |                                     |                          |             |                          |                                 |                          |              |                          |
| 331009   | Concrete reinforcing bars..  | Short tons..    | 5,972                               | 782                      | 3,918       | 1,005                    | 1,567                           | 257                      | } 25,195     | } 5,569                  |
| 331010   | Bars and bar shapes (except concrete reinforcing bars)   | ...do.....      | 67,165                              | 11,364                   | 68,942      | 12,103                   | 36,620                          | 6,475                    |              |                          |
| 331012   | Sheet and strip.....   | ...do.....      | 377,261                             | 56,595                   | 292,212     | 45,181                   | 1,077,905                       | 184,970                  | 1,003,179    | 160,586                  |
| 331013   | Plates.....  | ...do.....      | 1,500,821                           | 215,802                  | 1,251,393   | 176,922                  | 83,968                          | 11,896                   | 55,129       | 7,735                    |
| 331015   | Structural shapes.....   | ...do.....      | 165,278                             | 24,769                   | 164,509     | 23,193                   | 34,977                          | 5,939                    | 15,184       | 2,814                    |
| 331017   | Wire and wire products....   | ...do.....      | 11,799                              | 2,274                    | 4,102       | 1,828                    | 2,602                           | 794                      | 3,027        | 987                      |
| 331019   | All other carbon steel mill shapes and forms.....  | ...do.....      | 149,824                             | 43,114                   | 123,102     | 48,232                   | 16,501                          | 3,559                    | 33,560       | 6,657                    |
| Alloy steel (except stainless):                        |  |                 |                                     |                          |             |                          |                                 |                          |              |                          |
| 331021   | Bars and bar shapes.....   | ...do.....      | 4,701                               | 1,739                    | 7,779       | 1,836                    | 1,010                           | 262                      | 2,142        | 551                      |
| 331029   | All other alloy steel mill shapes and forms.....   | ...do.....      | 105,681                             | 38,102                   | 34,125      | 12,998                   | 28,458                          | 6,078                    | 9,692        | 2,288                    |
| 331031   | Stainless steel.....   | ...do.....      | 22,763                              | 33,058                   | 27,967      | 40,762                   | 14,446                          | 18,641                   | 9,963        | 14,003                   |
| Copper and copper-base alloy:                          |  |                 |                                     |                          |             |                          |                                 |                          |              |                          |
| 335728   | Bare wire (for electrical conduction only).....  | 1,000 lbs... }  | 174                                 | 106                      | { 123<br>95 | { 88<br>57               | 36                              | 42                       | { 545<br>(D) | 297<br>(D)               |
| 335790   | Insulated wire and cable...  | ...do.....      |                                     |                          |             |                          |                                 |                          |              |                          |
| 335102   | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                             | ...do.....      | 486                                 | 257                      | } 22,920    | } 17,025                 | { 282                           | } 118                    | } 9,350      | } 5,222                  |
| 335123   | Plate, sheet, and strip (including military cups and discs).....                                       | ...do.....      | 4,919                               | 3,875                    |             |                          |                                 |                          |              |                          |
| 335127   | Pipe and tube.....   | ...do.....      | 15,967                              | 8,712                    | } 40,831    | } 16,829                 | { 13,161<br>1,861               | } 6,808<br>820           |              |                          |
| Aluminum and aluminum base-alloy:                      |  |                 |                                     |                          |             |                          |                                 |                          |              |                          |
| 335202   | Sheet, plate and foil.....   | ...do.....      | 18,668                              | 10,433                   | 5,025       | 3,092                    | 118,986                         | 58,498                   | 84,230       | 39,075                   |
| 335205   | Extruded shapes (including extruded rod, bar, pipe, tube, etc.).....                                   | ...do.....      | 1,973                               | 1,125                    | } 1,458     | } 798                    | { 19,159                        | } 8,524                  | } 10,658     | } 5,729                  |
| 335209   | All other aluminum mill shapes and forms (wire, rolled, rod and bar, powder, welded tubing, etc.)..... | ...do.....      | 2,600                               | 1,132                    |             |                          |                                 |                          |              |                          |
| Primary metals:  |  |                 |                                     |                          |             |                          |                                 |                          |              |                          |
| 331051   | Pig iron.....  | Short tons..    | 4,628                               | 275                      | 42,792      | 2,641                    | (D)                             | (D)                      | (NA)         | (NA)                     |
| 333401   | Aluminum and aluminum-base alloy refinery shapes (ingot, slugs, billet, etc.)                          | ...do.....      | -                                   | -                        | (D)         | (D)                      | 1,208                           | 585                      | (NA)         | (NA)                     |
| 333348   | Zinc and zinc-base alloy refinery shapes.....  | ...do.....      | 539                                 | 123                      | 505         | 109                      | 2,921                           | 701                      | 2,447        | 625                      |
| Scrap (excluding home scrap):                          |  |                 |                                     |                          |             |                          |                                 |                          |              |                          |
| 999811   | Iron and steel.....  | ...do.....      | 32,280                              | 1,290                    | 63,700      | 2,988                    | (D)                             | (D)                      | (NA)         | (NA)                     |
| 999808   | Aluminum and aluminum-base alloy.....  | ...do.....      | -                                   | -                        | (D)         | (D)                      | (D)                             | (D)                      | (NA)         | (NA)                     |
| Castings (rough and semi-finished): <sup>1</sup>       |  |                 |                                     |                          |             |                          |                                 |                          |              |                          |
| 332011   | Iron (gray and malleable)....  | ...do.....      | 7,428                               | 2,718                    | 17,251      | 4,654                    | 1,105                           | 880                      | 1,225        | 550                      |
| 332300   | Steel.....   | ...do.....      | 8,918                               | 5,839                    | 7,703       | 4,926                    | 714                             | 214                      | 3,829        | 842                      |
| 336100   | Aluminum and aluminum-base alloy.....  | 1,000 lbs...    | (NA)                                | 301                      | (NA)        | 194                      | 501                             | 441                      | 480          | 396                      |
| 336200   | Copper and copper-base alloy.  | ...do.....      | 670                                 | 712                      | 1,574       | 1,270                    | 270                             | 239                      | 207          | 170                      |
| 970099   | All other materials and components, parts, containers, and supplies consumed <sup>2</sup> .....        | .....           | (X)                                 | 215,195                  | (X)         | 261,880                  | (X)                             | 106,150                  | (X)          | 93,988                   |
| 973000   | Materials, etc., n.s.k. <sup>3</sup> .....   | .....           | (X)                                 | 75,586                   | (X)         | 104,729                  | (X)                             | 122,709                  | (X)          | 114,062                  |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material   | Unit of measure | 1963                                    |                          | 1958     |                          | 1963  |                          | 1958     |                          |
|--------|--|-----------------|---|--------------------------|----------|--------------------------|---|--------------------------|----------|--------------------------|
|        |  |                 | Quantity                                | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) | Quantity  | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
|        |  |                 | INDUSTRY 3446.—ARCHITECTURAL METAL WORK |                          |          |                          | INDUSTRY 3449.—MISCELLANEOUS METAL WORK, N.E.C. |                          |          |                          |
|        | Materials, containers, parts, and supplies, total.....   |                 | (X)                                     | 99,865                   | (4)      | (4)                      | -   | 360,361                  | -        | 435,154                  |
|        | Mill shapes and forms (except castings):   |                 |   |                          |          |                          |   |                          |          |                          |
|        | Carbon steel:  |                 |   |                          |          |                          |   |                          |          |                          |
| 331009 | Concrete reinforcing bars..  | Short tons..    | 1,777                                   | 240                      | (4)      | (4)                      | 972,915   | 102,418                  | 816,284  | 104,773                  |
| 331010 | Bars and bar shapes (except concrete reinforcing bars)   | ...do.....      | 44,400                                  | 7,796                    | (4)      | (4)                      | 222,617   | 32,124                   | 258,419  | 38,147                   |
| 331012 | Sheet and strip.....   | ...do.....      | 79,246                                  | 12,598                   | (4)      | (4)                      | 430,656   | 72,677                   | 491,431  | 76,971                   |
| 331013 | Plates.....  | ...do.....      | 19,111                                  | 2,952                    | (4)      | (4)                      | 63,102  | 9,404                    | 75,010   | 10,462                   |
| 331015 | Structural shapes.....   | ...do.....      | 36,598                                  | 6,129                    | (4)      | (4)                      | 79,589  | 12,793                   | 168,516  | 25,695                   |
| 331017 | Wire and wire products.....  | ...do.....      | 3,715                                   | 823                      | (4)      | (4)                      | 60,776  | 9,300                    | 64,290   | 11,253                   |
| 331019 | All other carbon steel mill shapes and forms.....  | ...do.....      | 15,592                                  | 3,136                    | (4)      | (4)                      | 24,944  | 4,239                    | 31,499   | 6,367                    |
|        | Alloy steel (except stainless):  |                 |   |                          |          |                          |   |                          |          |                          |
| 331021 | Bars and bar shapes.....   | ...do.....      | 1,275                                   | 283                      | (4)      | (4)                      | 3,255   | 679                      | 18,695   | 3,698                    |
| 331029 | All other alloy steel mill shapes and forms.....   | ...do.....      | 639                                     | 380                      | (4)      | (4)                      | 10,088  | 2,025                    | 6,429    | 1,638                    |
| 331031 | Stainless steel.....   | ...do.....      | 687                                     | 774                      | (4)      | (4)                      | 886   | 1,265                    | 1,459    | 1,902                    |
|        | Copper and copper-base alloy:  |                 |   |                          |          |                          |   |                          |          |                          |
| 335790 | Insulated wire and cable...  | 1,000 lbs...    | -                                       | -                        | (4)      | (4)                      | (D)   | (D)                      | (D)      | (D)                      |
| 335728 | Bare wire (for electrical conduction only).....  | ...do.....      | -                                       | -                        | (4)      | (4)                      | (D)   | (D)                      | (D)      | (D)                      |
| 335102 | Rod, bar, and mechanical wire including extruded and/or drawn shapes.....                              | ...do.....      | 675                                     | 1,734                    | (4)      | (4)                      | (NA)  | 414                      | (NA)     | 1,343                    |
| 335127 | Pipe and tube.....   | ...do.....      |   |                          |          |                          |   |                          |          |                          |
| 335123 | Plate, sheet, and strip (including military cups and discs).....                                       | ...do.....      | 418                                     | 264                      | (4)      | (4)                      |   |                          |          |                          |
|        | Aluminum and aluminum-base alloy:  |                 |   |                          |          |                          |   |                          |          |                          |
| 335202 | Sheet, plate and foil.....   | ...do.....      | 5,234                                   | 2,581                    | (4)      | (4)                      | 27,308  | 10,973                   | 17,585   | 9,181                    |
| 335205 | Extruded shapes (including extruded rod, bar, pipe, tube, etc.).....                                   | ...do.....      | 17,461                                  | 7,697                    | (4)      | (4)                      | 18,223  | 8,024                    | 27,612   | 14,972                   |
| 335209 | All other aluminum mill shapes and forms (wire, rolled rod, and bar, powder, welded tubing, etc.)..... | ...do.....      | 2,033                                   | 1,304                    | (4)      | (4)                      | 648   | 298                      |          |                          |
|        | Primary metals:  |                 |   |                          |          |                          |   |                          |          |                          |
| 331051 | Pig iron.....  | Short tons..    | 4,731                                   | 276                      | (4)      | (4)                      | -   | -                        | 2,283    | 152                      |
| 333401 | Aluminum and aluminum-base alloy refinery shapes slugs, billet, etc.).....                             | ...do.....      | 1,663                                   | 842                      | (4)      | (4)                      | -   | -                        | 3,642    | 1,800                    |
| 333348 | Zinc and zinc-base alloy refinery shapes.....  | ...dc.....      | (D)                                     | (D)                      | (4)      | (4)                      | (D)   | (D)                      | 1,381    | 689                      |
|        | Scrap (excluding home scrap):  |                 |   |                          |          |                          |   |                          |          |                          |
| 999811 | Iron and steel.....  | ...do.....      | (D)                                     | (D)                      | (4)      | (4)                      | (D)   | (D)                      | 19,903   | 1,047                    |
| 999808 | Aluminum and aluminum-base alloy.....  | ...do.....      | (D)                                     | (D)                      | (4)      | (4)                      | -   | -                        | (NA)     | 560                      |
|        | Castings (rough and semi-finished): <sup>1</sup>   |                 |   |                          |          |                          |   |                          |          |                          |
| 332011 | Iron (gray and malleable)....  | ...do.....      | 2,094                                   | 673                      | (4)      | (4)                      | 1,835   | 626                      | 6,767    | 2,300                    |
| 332300 | Steel.....   | ...do.....      | (NA)                                    | 428                      | (4)      | (4)                      | (D)   | (D)                      | (NA)     | 2,061                    |
| 336100 | Aluminum and aluminum base alloy.....  | 1,000 lbs...    | 1,694                                   | 761                      | (4)      | (4)                      | 533   | 457                      | 2,455    | 2,204                    |
| 336200 | Copper and copper-base alloy.  | ...do.....      | 263                                     | 215                      | (4)      | (4)                      | (D)   | (D)                      | 581      | 313                      |
| 970099 | All other materials and components, parts, containers, and supplies consumed <sup>2</sup> .....        |                 | (X)                                     | 26,701                   | (4)      | (4)                      | (X)   | 49,405                   | (X)      | 63,720                   |
| 973000 | Materials, etc., n.s.k. <sup>3</sup> ....  |                 | (X)                                     | 21,278                   | (4)      | (4)                      | (X)   | 43,290                   | (X)      | 53,906                   |

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.

<sup>1</sup>Does not include castings produced and consumed in the same establishment.

<sup>2</sup>Includes values for those material items for which separate data could not be published without revealing the operations of individual companies.

The symbol, "D", appears for such items.

<sup>3</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" when separate figures for individual materials consumed were not requested, (b) total cost of materials reported for establishments which failed to report costs of individual materials on "standard forms," and (c) discrepancies between total cost of materials and detailed materials on reports for other establishments.

<sup>4</sup>In 1958, industry 3446 and 3449 were combined. Therefore the 1958 data in industry 3449 are comparable to the 1963 data for industry 3446 and industry 3449 combined.

TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Fabricated structural steel (SIC 3441) | Metal doors, sash, and trim (SIC 3442) | Boiler shop products (SIC 3443) | Sheet metal work (SIC 3444) | Miscellaneous metal work, n.e.c. <sup>1</sup> (SIC 3449) |
|---|--|--|---------------------------------|-----------------------------|--|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 13,706                                 | 9,629                                  | 17,790                          | 11,361                      | 8,021  |
| Total cost of purchased fuels.....do....  | 5,404                                  | 4,044                                  | 8,003                           | 5,247                       | 3,242  |
| Bituminous coal, lignite, and anthracite:   |  |  |                                 |                             |  |
| Quantity.....1,000 short tons..   | 26                                     | 26                                     | 99                              | 18                          | (S)  |
| Cost.....\$1,000..  | 201                                    | 163                                    | 633                             | 146                         | (S)  |
| Coke and breeze:  |  |  |                                 |                             |  |
| Quantity.....1,000 short tons..   | 7                                      | -                                      | 5                               | -                           | 3  |
| Cost.....\$1,000..  | 172                                    | -                                      | 159                             | -                           | 99   |
| Fuel oil (distillate and residual):   |  |  |                                 |                             |  |
| Quantity.....1,000 barrels of 42 gallons..  | 297                                    | 262                                    | 438                             | 187                         | 168  |
| Cost.....\$1,000..  | 1,195                                  | 1,037                                  | 1,762                           | 805                         | 699  |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |  |  |                                 |                             |  |
| Quantity.....million cu. ft..   | 3,527                                  | 3,003                                  | 7,364                           | 4,104                       | 3,271  |
| Cost.....\$1,000..  | 2,109                                  | 1,698                                  | 4,017                           | 2,345                       | 1,609  |
| Other fuels.....do....  | 1,727                                  | 1,146                                  | 1,432                           | 1,951                       | 773  |
| Electric energy:  |  |  |                                 |                             |  |
| Purchased:  |  |  |                                 |                             |  |
| Quantity.....million kw.-hrs..  | 527                                    | 371                                    | 676                             | 299                         | 288  |
| Cost.....\$1,000..  | 8,302                                  | 5,585                                  | 9,787                           | 6,114                       | 4,779  |
| Generated less sold.....million kw.-hrs..   | (S)                                    | -                                      | (S)                             | (S)                         | (S)  |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 576                                    | 231                                    | 739                             | 286                         | 283  |
| Prime movers, total.....do....  | 69                                     | 38                                     | 66                              | 35                          | 34   |
| Driving generators.....do....   | 12                                     | 2                                      | 19                              | 11                          | 5  |
| Not driving generators.....do....   | 57                                     | 36                                     | 47                              | 24                          | 29   |
| Electric motors, total.....do....   | 507                                    | 193                                    | 677                             | 252                         | 250  |
| Driven by purchased energy.....do....   | 507                                    | 193                                    | 673                             | 251                         | 249  |
| Driven by energy generated at establishment.....do....  | (Z)                                    | -                                      | 4                               | 1                           | (Z)  |
| Aggregate horsepower per 100 production workers.....  | 975                                    | 533                                    | 1,434                           | 578                         | 887  |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>Industry 3446 was part of industry 3449 in the year 1962.



**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization                                   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3441-                          | FABRICATED STRUCTURAL METAL  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 1,718                   | 85,423         | 527,220           | 63,674             | 127,899           | 350,337         | 814,805  | 1,140,975                   | 1,916,048                    | 28,162                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 1,270                   | 53,938         | 329,724           | 40,707             | 80,547            | 223,789         | 519,365  | 681,430                     | 1,167,460                    | 18,090                              |
|                                | 75-89% specialization.....   | 164                     | 9,765          | 62,770            | 6,969              | 14,598            | 39,079          | 92,948   | 138,932                     | 228,657                      | 3,374                               |
| 34411                          | Fabricated structural metal for buildings (primary product class of estab.).....         | 959                     | 56,141         | 356,787           | 40,663             | 83,573            | 228,846         | 558,445  | 768,079                     | 1,313,310                    | 17,176                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 545                     | 19,348         | 123,166           | 14,237             | 29,285            | 80,128          | 206,561  | 252,031                     | 459,276                      | 6,019                               |
|                                | 75-89% specialization.....   | 138                     | 8,179          | 52,602            | 5,968              | 12,129            | 34,452          | 71,549   | 112,817                     | 187,391                      | 2,016                               |
| 34412                          | Fabricated structural metal for bridges (primary product class of estab.).....           | 53                      | 7,693          | 44,543            | 5,875              | 11,471            | 30,626          | 72,447   | 107,908                     | 172,164                      | 1,421                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 8                       | 366            | 2,314             | 208                | 430               | 1,149           | 5,400  | 4,228                       | 9,351                        | 42                                  |
|                                | 75-89% specialization.....   | 11                      | 1,967          | 11,520            | 1,544              | 2,965             | 8,186           | 21,717   | 29,984                      | 49,078                       | 253                                 |
| 34413                          | Other fabricated structural metal (primary product class of estab.).....                 | 240                     | 14,941         | 89,389            | 12,039             | 22,839            | 64,908          | 120,689  | 189,673                     | 293,307                      | 6,573                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 134                     | 3,163          | 17,592            | 2,420              | 4,743             | 12,291          | 27,895   | 33,041                      | 60,897                       | 1,169                               |
|                                | 75-89% specialization.....   | 26                      | 1,239          | 7,721             | 984                | 2,075             | 5,350           | 11,671   | 13,768                      | 25,280                       | 349                                 |
| 3442-                          | METAL DOORS, SASH, AND FRAME   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 1,817                   | 62,799         | 324,796           | 46,645             | 95,727            | 206,127         | 570,370  | 681,385                     | 1,253,814                    | 21,305                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 1,577                   | 44,301         | 217,193           | 33,137             | 67,677            | 137,985         | 396,206  | 484,273                     | 882,951                      | 14,051                              |
|                                | 75-89% specialization.....   | 82                      | 5,594          | 29,763            | 4,025              | 8,162             | 17,985          | 51,180   | 60,017                      | 111,605                      | 2,448                               |
| 34421                          | Metal doors and frames (except storm doors) (primary product class of estab.).....       | 274                     | 15,180         | 88,811            | 11,170             | 23,301            | 57,553          | 155,277  | 136,384                     | 290,882                      | 4,579                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 184                     | 8,516          | 49,297            | 6,185              | 12,773            | 31,252          | 88,101   | 70,752                      | 157,961                      | 2,566                               |
|                                | 75-89% specialization.....   | 18                      | 1,486          | 8,513             | 995                | 2,083             | 5,091           | 12,882   | 14,386                      | 27,211                       | 445                                 |
| 34422                          | Metal window sash and frames (except storm sash) (primary product class of estab.).....  | 322                     | 19,725         | 103,667           | 14,702             | 29,617            | 64,589          | 174,741  | 213,928                     | 388,537                      | 5,911                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 185                     | 7,010          | 32,554            | 5,281              | 10,719            | 19,665          | 57,499   | 80,031                      | 138,636                      | 1,417                               |
|                                | 75-89% specialization.....   | 41                      | 1,649          | 7,197             | 1,276              | 2,532             | 4,227           | 14,761   | 20,157                      | 34,845                       | 795                                 |
| 34423                          | Metal molding and trim and store fronts (primary product class of estab.).....           | 88                      | 5,381          | 28,307            | 4,036              | 8,583             | 18,189          | 56,778   | 70,931                      | 127,340                      | 3,267                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 54                      | 2,721          | 13,829            | 2,258              | 4,848             | 10,297          | 28,359   | 33,825                      | 61,852                       | 818                                 |
|                                | 75-89% specialization.....   | 8                       | 524            | 3,373             | 348                | 730               | 2,019           | 7,174  | 8,373                       | 15,454                       | 859                                 |
| 34424                          | Metal combination screen and storm sash and doors (primary product class of estab.)..... | 526                     | 12,895         | 60,791            | 9,511              | 19,088            | 36,401          | 106,549  | 159,441                     | 267,797                      | 3,842                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 352                     | 6,982          | 31,329            | 5,210              | 10,448            | 19,143          | 56,555   | 84,234                      | 141,240                      | 1,710                               |
|                                | 75-89% specialization.....   | 73                      | 2,428          | 12,295            | 1,643              | 3,354             | 6,580           | 19,412   | 31,734                      | 51,497                       | 574                                 |
| 34425                          | Metal window and door screens (primary product class of estab.).....                     | 84                      | 2,728          | 13,974            | 2,050              | 4,289             | 8,731           | 28,832   | 30,248                      | 59,028                       | 1,326                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 50                      | 889            | 4,270             | 693                | 1,370             | 2,818           | 9,372  | 10,217                      | 19,610                       | 284                                 |
|                                | 75-89% specialization.....   | 14                      | 305            | 1,555             | 217                | 454               | 911             | 3,194  | 4,213                       | 7,633                        | 387                                 |
| 3443-                          | BOILER SHOP PRODUCTS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 1,383                   | 75,018         | 465,372           | 54,629             | 111,409           | 310,471         | 770,064  | 860,612                     | 1,622,988                    | 32,910                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 1,092                   | 54,151         | 333,741           | 39,217             | 80,162            | 221,980         | 557,958  | 598,440                     | 1,148,421                    | 22,987                              |
|                                | 75-89% specialization.....   | 85                      | 6,688          | 42,961            | 5,209              | 10,559            | 31,424          | 79,231   | 98,871                      | 173,490                      | 2,401                               |

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963--Continued

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
|                                | BOILER SHOP PRODUCTS--Continued   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
| 34431                          | Heat exchangers and steam condensers (primary product class of estab.).                           | 52                      | 6,562          | 43,943            | 4,454              | 9,470             | 27,149          | 73,885   | 72,440                      | 147,212                      | 2,702                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 28                      | 1,887          | 12,333            | 1,271              | 2,679             | 7,128           | 24,902   | 24,580                      | 48,986                       | 1,078                               |
|                                | 75-89% specialization.....  | 7                       | 1,324          | 8,576             | 993                | 2,073             | 5,916           | 16,282   | 15,431                      | 31,429                       | 942                                 |
| 34432                          | Fabricated steel plate (primary product class of estab.).....                                     | 403                     | 14,936         | 95,494            | 11,414             | 23,009            | 65,017          | 149,510  | 188,821                     | 336,088                      | 7,475                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 229                     | 5,602          | 36,260            | 4,279              | 8,850             | 25,216          | 59,050   | 66,891                      | 127,019                      | 2,347                               |
|                                | 75-89% specialization.....  | 42                      | 2,475          | 14,832            | 2,030              | 4,000             | 10,820          | 22,926   | 42,465                      | 63,445                       | 2,294                               |
| 34433                          | Steel power boilers, parts and attachments (over 15 p.s.i. steam working pressure).....           | 48                      | 18,585         | 118,201           | 12,714             | 26,195            | 74,224          | 205,312  | 183,195                     | 384,658                      | 7,637                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 33                      | 16,485         | 103,614           | 11,432             | 23,163            | 66,239          | 177,058  | 161,427                     | 336,394                      | 6,247                               |
| 34434                          | Gas cylinders (primary product class of estab.).....  | 13                      | 1,840          | 10,991            | 1,419              | 2,773             | 7,956           | 16,554   | 21,173                      | 37,900                       | 956                                 |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 7                       | 325            | 1,637             | 238                | 449               | 1,007           | 1,586  | 5,281                       | 6,942                        | 709                                 |
| 34435                          | Metal tanks, complete at factory (standard line, pressure) (primary product class of estab.)..... | 93                      | 3,038          | 18,910            | 2,318              | 4,780             | 13,061          | 31,566   | 51,519                      | 81,786                       | 912                                 |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 60                      | 1,359          | 7,694             | 1,080              | 2,232             | 5,366           | 13,528   | 27,065                      | 40,184                       | 602                                 |
|                                | 75-89% specialization.....  | 8                       | 397            | 2,104             | 303                | 623               | 1,423           | 3,788  | 6,275                       | 9,898                        | 99                                  |
| 34437                          | Metal tanks, complete at factory (standard line, nonpressure) (primary product class of estab.).  | 273                     | 7,827          | 43,985            | 5,849              | 11,797            | 30,065          | 64,474   | 88,509                      | 152,677                      | 2,306                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 155                     | 2,644          | 14,243            | 2,059              | 4,115             | 9,912           | 24,635   | 32,338                      | 56,748                       | 1,055                               |
|                                | 75-89% specialization.....  | 31                      | 656            | 3,736             | 484                | 937               | 2,545           | 6,916  | 10,107                      | 17,025                       | 246                                 |
| 34438                          | Metal tanks and vessels, custom fabricated at factory (primary product class of estab.).....      | 119                     | 10,314         | 64,707            | 7,693              | 16,325            | 44,029          | 105,602  | 117,742                     | 222,097                      | 3,225                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 37                      | 1,184          | 7,733             | 885                | 1,729             | 5,284           | 11,878   | 11,519                      | 23,977                       | 417                                 |
|                                | 75-89% specialization.....  | 21                      | 1,724          | 10,063            | 1,344              | 2,822             | 6,924           | 15,784   | 15,601                      | 30,299                       | 628                                 |
| 34439                          | Metal tanks and vessels, custom fabricated and field erected (primary product class of estab.).   | 49                      | 6,259          | 39,760            | 4,315              | 8,882             | 26,984          | 74,645   | 78,843                      | 152,738                      | 2,860                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 19                      | 1,405          | 8,086             | 795                | 1,638             | 4,811           | 20,163   | 18,946                      | 38,190                       | 421                                 |
|                                | 75-89% specialization.....  | 5                       | 1,252          | 8,514             | 1,169              | 2,234             | 7,649           | 19,659   | 20,502                      | 40,593                       | 925                                 |
| 3444-                          | SHEET METAL WORK  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 3,250                   | 61,651         | 373,284           | 48,041             | 97,079            | 264,665         | 632,384  | 669,778                     | 1,303,670                    | 26,180                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...   | 2,784                   | 43,801         | 266,346           | 34,211             | 69,484            | 191,018         | 446,673  | 443,762                     | 888,383                      | 17,828                              |
|                                | 75-89% specialization.....  | 132                     | 4,004          | 24,810            | 3,219              | 6,449             | 17,951          | 43,703   | 52,980                      | 97,609                       | 969                                 |
| 34441                          | Sheet metal roofing and siding and roof drainage equipment (primary product class of estab.)..... | 209                     | 7,407          | 45,156            | 5,040              | 10,045            | 25,828          | 84,395   | 181,173                     | 266,953                      | 5,170                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 132                     | 2,715          | 14,978            | 2,014              | 4,070             | 9,297           | 31,937   | 67,163                      | 99,079                       | 2,593                               |
|                                | 75-89% specialization.....  | 22                      | 1,595          | 11,410            | 882                | 1,845             | 5,618           | 18,450   | 34,408                      | 53,204                       | 734                                 |
| 34442                          | Culverts, flumes, irrigation pipes, etc. (primary product class of estab.).....                   | 129                     | 2,930          | 17,704            | 2,222              | 4,482             | 11,744          | 40,698   | 79,750                      | 118,992                      | 2,147                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 111                     | 2,306          | 13,662            | 1,756              | 3,529             | 9,137           | 31,329   | 64,629                      | 94,345                       | 1,863                               |
|                                | 75-89% specialization.....  | 9                       | 352            | 2,285             | 265                | 537               | 1,431           | 5,217  | 8,969                       | 14,454                       | 177                                 |
| 34443                          | Other sheet metal work (primary product class of estab.).....                                     | 1,612                   | 40,818         | 256,360           | 32,324             | 65,225            | 185,822         | 405,066  | 344,587                     | 751,174                      | 13,972                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 1,211                   | 26,260         | 168,581           | 20,853             | 42,475            | 123,663         | 263,125  | 199,371                     | 463,187                      | 7,985                               |
|                                | 75-89% specialization.....  | 142                     | 3,938          | 24,644            | 3,201              | 6,310             | 18,269          | 42,241   | 34,692                      | 76,390                       | 940                                 |



TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3449-                          | MISCELLANEOUS METAL WORK, N.E.C.  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 697                     | 24,992         | 145,042           | 16,963             | 34,510            | 88,843          | 283,427  | 420,857                     | 704,166                      | 11,475                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 545                     | 17,470         | 101,663           | 11,671             | 23,888            | 62,311          | 203,622  | 309,349                     | 512,358                      | 8,265                               |
|                                | 75-89% specialization.....  | 43                      | 1,816          | 10,593            | 1,171              | 2,376             | 5,749           | 21,573   | 36,598                      | 58,396                       | 751                                 |
| 34492                          | Prefabricated and portable metal buildings and parts (primary product class of estab.).....   | 122                     | 7,910          | 49,507            | 5,351              | 10,816            | 28,996          | 99,901   | 122,511                     | 221,533                      | 4,580                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 78                      | 4,695          | 29,768            | 3,309              | 6,681             | 18,455          | 63,355   | 88,700                      | 151,390                      | 3,396                               |
|                                | 75-89% specialization.....  | 17                      | 1,121          | 6,313             | 794                | 1,622             | 3,957           | 14,153   | 13,547                      | 27,729                       | 183                                 |
| 34493                          | Miscellaneous metal building materials and custom wall (primary product class of estab.)..... | 168                     | 13,038         | 76,665            | 8,468              | 17,615            | 46,414          | 146,646  | 264,681                     | 411,026                      | 5,385                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.....   | 112                     | 8,384          | 49,383            | 5,167              | 10,635            | 28,640          | 97,613   | 175,679                     | 271,276                      | 3,523                               |
|                                | 75-89% specialization.....  | 22                      | 1,217          | 7,320             | 701                | 1,576             | 3,621           | 11,693   | 28,941                      | 42,733                       | 611                                 |

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations  | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3441.—FABRICATED STRUCTURAL STEEL   |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 16                       | 5   | 7       | 4          | 266                                   | 8   | 70      | 188        |
| Nonferrous foundry (except die casting).....   | 7                        | 3   | 3       | 1          | 59                                    | 5   | (D)     | (D)        |
| Nonferrous die casting.....  | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 27                       | 17  | 8       | 2          | 176                                   | 23  | (D)     | (D)        |
| Electroplating and other plating.....  | 4                        | 3   | 1       | -          | 9                                     | (D)                                       | (D)     | -          |
| Galvanizing and other hot dip coating.....   | 7                        | 1   | 2       | 4          | 162                                   | (D)                                       | (D)     | 137        |
| Heat treating of metals.....   | 16                       | 12  | 4       | -          | 55                                    | 19  | 36      | -          |
| Automatic screw machine department.....  | 8                        | 8   | -       | -          | 9                                     | 9   | -       | -          |
| Machine shop.....  | 197                      | 121                                       | 56      | 20         | 1,595                                 | 228                                       | 508     | 859        |
| Tool and die shop.....   | 25                       | 24  | -       | 1          | 69                                    | (D)                                       | -       | (D)        |
| Foundry pattern shop.....  | 13                       | 8   | 5       | -          | 58                                    | 10  | 48      | -          |
| Plate or structural fabrication.....   | 751                      | 145                                       | 291     | 315        | 33,753                                | 197                                       | 3,102   | 30,454     |
| Stamping, blanking and forming of metals.....  | 154                      | 94  | 43      | 17         | 1,146                                 | 179                                       | 395     | 572        |
| Painting, lacquering and enameling on metals.....  | 422                      | 329                                       | 80      | 13         | 1,654                                 | 505                                       | 662     | 487        |
| INDUSTRY 3442.—METAL DOORS, SASH, AND TRIM   |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 1                        | -   | 1       | -          | (D)                                   | -   | (D)     | -          |
| Nonferrous foundry (except die casting).....   | 10                       | 4   | 5       | 1          | 116                                   | 6   | (D)     | (D)        |
| Nonferrous die casting.....  | 8                        | 4   | 3       | 1          | 70                                    | 9   | (D)     | (D)        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 11                       | 5   | 6       | -          | 73                                    | 7   | 66      | -          |
| Electroplating and other plating.....  | 26                       | 11  | 11      | 4          | 343                                   | 34  | 102     | 207        |
| Galvanizing and other hot dip coating.....   | 4                        | 2   | -       | 2          | 54                                    | (D)                                       | -       | (D)        |
| Heat treating of metals.....   | 19                       | 14  | 5       | -          | 71                                    | 26  | 45      | -          |
| Automatic screw machine department.....  | 4                        | 2   | 2       | -          | 15                                    | (D)                                       | (D)     | -          |
| Machine shop.....  | 105                      | 56  | 36      | 13         | 1,069                                 | 108                                       | 347     | 614        |
| Tool and die shop.....   | 74                       | 50  | 22      | 2          | 373                                   | 100                                       | (D)     | (D)        |
| Foundry pattern shop.....  | 5                        | 5   | -       | -          | 6                                     | 6   | -       | -          |
| Plate or structural fabrication.....   | 57                       | 24  | 15      | 18         | 1,077                                 | 35  | 148     | 894        |
| Stamping, blanking and forming of metals.....  | 207                      | 99  | 49      | 59         | 4,531                                 | 163                                       | 500     | 3,868      |
| Painting, lacquering and enameling on metals.....  | 172                      | 139                                       | 24      | 9          | 744                                   | 218                                       | 232     | 294        |
| INDUSTRY 3443.—BOILER SHOP PRODUCTS  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 6                        | 1   | 1       | 4          | 299                                   | (D)                                       | (D)     | (D)        |
| Nonferrous foundry (except die casting).....   | 2                        | 1   | 1       | -          | (D)                                   | (D)                                       | (D)     | -          |
| Nonferrous die casting.....  |                          |   |         |            |                                       |   |         |            |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 13                       | 4   | 7       | 2          | 198                                   | 12  | (D)     | (D)        |
| Electroplating and other plating.....  | 2                        | 2   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Galvanizing and other hot dip coating.....   | 8                        | 6   | 1       | 1          | 67                                    | (D)                                       | (D)     | (D)        |
| Heat treating of metals.....   | 70                       | 52  | 14      | 4          | 294                                   | 94  | 101     | 99         |
| Automatic screw machine department.....  | 10                       | 9   | -       | 1          | 42                                    | (D)                                       | -       | (D)        |
| Machine shop.....  | 234                      | 112                                       | 86      | 36         | 2,854                                 | 205                                       | 810     | 1,839      |
| Tool and die shop.....   | 24                       | 15  | 8       | 1          | 212                                   | 35  | (D)     | (D)        |
| Foundry pattern shop.....  | 15                       | 9   | 6       | -          | 75                                    | 19  | 56      | -          |
| Plate or structural fabrication.....   | 511                      | 97  | 188     | 226        | 19,486                                | 141                                       | 1,974   | 17,371     |
| Stamping, blanking and forming of metals.....  | 214                      | 113                                       | 74      | 27         | 3,006                                 | 220                                       | 647     | 2,139      |
| Painting, lacquering and enameling on metals.....  | 301                      | 266                                       | 30      | 5          | 861                                   | 400                                       | 271     | 190        |
| INDUSTRY 3444.—SHEET METAL WORK  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 3                        | 2   | -       | 1          | 24                                    | (D)                                       | -       | (D)        |
| Nonferrous foundry (except die casting).....   | 3                        | 2   | -       | 1          | 142                                   | (D)                                       | -       | (D)        |
| Nonferrous die casting.....  | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 12                       | 10  | 1       | 1          | 82                                    | (D)                                       | (D)     | (D)        |
| Electroplating and other plating.....  | 11                       | 11  | -       | -          | 18                                    | 18  | -       | -          |
| Galvanizing and other hot dip coating.....   | 21                       | 13  | 8       | -          | 106                                   | 20  | 86      | -          |
| Heat treating of metals.....   | 17                       | 17  | -       | -          | 30                                    | 30  | -       | -          |
| Automatic screw machine department.....  | 7                        | 7   | -       | -          | 13                                    | 13  | -       | -          |
| Machine shop.....  | 182                      | 121                                       | 50      | 11         | 996                                   | 229                                       | 378     | 389        |
| Tool and die shop.....   | 118                      | 94  | 22      | 2          | 408                                   | 161                                       | (D)     | (D)        |
| Foundry pattern shop.....  | 17                       | 15  | 2       | -          | 46                                    | (D)                                       | (D)     | -          |
| Plate or structural fabrication.....   | 189                      | 82  | 68      | 39         | 2,473                                 | 162                                       | 608     | 1,703      |
| Stamping, blanking and forming of metals.....  | 619                      | 233                                       | 243     | 143        | 8,879                                 | 390                                       | 2,286   | 6,203      |
| Painting, lacquering and enameling on metals.....  | 302                      | 240                                       | 54      | 8          | 1,063                                 | 336                                       | 422     | 305        |

See footnotes at end of table.



TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963—Continued

| Metalworking operations  | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3446.—ARCHITECTURAL METAL WORK  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 6                        | 2   | 3       | 1          | 60                                    | (D)                                       | (D)     | (D)        |
| Nonferrous foundry (except die casting).....   | 6                        | 2   | 4       | -          | 41                                    | (D)                                       | (D)     | -          |
| Nonferrous die casting.....  | 3                        | 2   | 1       | -          | 13                                    | (D)                                       | (D)     | -          |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 17                       | 14  | 1       | 2          | 70                                    | 15  | (D)     | (D)        |
| Electroplating and other plating.....  | 6                        | 4   | 2       | -          | 22                                    | (D)                                       | (D)     | -          |
| Galvanizing and other hot dip coating.....   | 1                        | 1   | -       | -          | 4                                     | (D)                                       | -       | -          |
| Heat treating of metals.....   | 5                        | 4   | 1       | -          | 9                                     | (D)                                       | (D)     | -          |
| Automatic screw machine department.....  | 4                        | 3   | -       | 1          | 52                                    | (D)                                       | -       | (D)        |
| Machine shop.....  | 52                       | 41  | 8       | 3          | 286                                   | 73  | 114     | 99         |
| Tool and die shop.....   | 25                       | 18  | 6       | 1          | 101                                   | 25  | (D)     | (D)        |
| Foundry pattern shop.....  | 10                       | 8   | 2       | -          | 32                                    | (D)                                       | (D)     | -          |
| Plate or structural fabrication.....   | 103                      | 44  | 43      | 16         | 1,646                                 | 90  | 434     | 1,122      |
| Stamping, blanking and forming of metals.....  | 74                       | 40  | 25      | 9          | 670                                   | 63  | 238     | 369        |
| Painting, lacquering and enameling on metals.....  | 158                      | 145                                       | 10      | 3          | 379                                   | 221                                       | 74      | 84         |
| INDUSTRY 3449.—MISCELLANEOUS METAL WORK  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 4                        | 4   | -       | -          | 8                                     | 8   | -       | -          |
| Nonferrous foundry (except die casting).....   | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Nonferrous die casting.....  | 3                        | 3   | -       | -          | 3                                     | 3   | -       | -          |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 6                        | 4   | 2       | -          | 18                                    | (D)                                       | (D)     | -          |
| Electroplating and other plating.....  | 2                        | 1   | 1       | -          | (D)                                   | (D)                                       | (D)     | -          |
| Galvanizing and other hot dip coating.....   | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Heat treating of metals.....   | 7                        | 4   | 3       | -          | 25                                    | 5   | 20      | -          |
| Automatic screw machine department.....  | 5                        | 3   | 2       | -          | 23                                    | (D)                                       | (D)     | -          |
| Machine shop.....  | 52                       | 25  | 21      | 6          | 452                                   | 40  | 170     | 242        |
| Tool and die shop.....   | 20                       | 16  | 4       | -          | 74                                    | 32  | 42      | -          |
| Foundry pattern shop.....  | 3                        | 3   | -       | -          | 3                                     | 3   | -       | -          |
| Plate or structural fabrication.....   | 94                       | 22  | 30      | 42         | 2,695                                 | 29  | 297     | 2,369      |
| Stamping, blanking and forming of metals.....  | 75                       | 23  | 17      | 35         | 2,187                                 | 35  | 172     | 1,980      |
| Painting, lacquering and enameling on metals.....  | 84                       | 56  | 22      | 6          | 485                                   | 92  | 197     | 196        |

Note: Very small establishments were not requested to report their metalworking operations and in some instances a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production worker employment on the last line of the table below.

| Item  | Industry |       |       |       |       |       |
|---|----------|-------|-------|-------|-------|-------|
|   | 3441     | 3442  | 3443  | 3444  | 3446  | 3449  |
| Total number of establishments in the industry.....   | 1,718    | 1,817 | 1,383 | 3,250 | 1,334 | 697   |
| Number of establishments which reported one or more of the specified operations.....                          | 866      | 362   | 637   | 811   | 226   | 169   |
| Percent of industry production workers in these establishments.....   | 70-75    | 45-50 | 70-75 | 50-55 | 60-65 | 60-65 |
| Number of establishments which reported that "none" of the operations apply.....                              | 250      | 634   | 194   | 710   | 157   | 134   |
| Percent of industry production workers in these establishments.....   | 1-5      | 10-15 | 1-5   | 10-15 | 15-20 | 10-15 |
| Percent of industry production workers in establishments which completed metalworking operations inquiry..... | 75-80    | 60-65 | 75-80 | 60-65 | 75-80 | 70-75 |

(D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not, as in table 4, based on total employment in the establishment.

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|   |   |   |   |   |   |   |   |   |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

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|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|
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|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|

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| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 | 46 | 47 | 48 | 49 | 50 | 51 | 52 | 53 | 54 | 55 | 56 | 57 | 58 | 59 | 60 | 61 | 62 | 63 | 64 | 65 | 66 | 67 | 68 | 69 | 70 | 71 | 72 | 73 | 74 | 75 | 76 | 77 | 78 | 79 | 80 | 81 | 82 | 83 | 84 | 85 | 86 | 87 | 88 | 89 | 90 | 91 | 92 | 93 | 94 | 95 | 96 | 97 | 98 | 99 | 100 |
|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|



## SCREW MACHINE PRODUCTS, BOLTS, METAL STAMPINGS, AND METAL SERVICES

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3451—Screw Machine Products
- 3452—Bolts, Nuts, Rivets, and Washers
- 3461—Metal Stampings
- 3471—Electroplating, Plating, Polishing, Anodizing, and Coloring
- 3479—Coating, Engraving, and Allied Services, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3451—SCREW MACHINE PRODUCTS

This industry comprises establishments primarily engaged in manufacturing automatic or hand screw machine products from rod, bar, or tube stock of metal, fiber, plastics, or other materials. The products of this industry consist of a wide variety of unassembled parts and are usually manufactured on a job or order basis. Establishments primarily engaged in manufacturing standard bolts, nuts, rivets, screws, and other industrial fasteners on headers, threaders, and nut forming machines are classified in industry 3452. For a detailed list of products of industry 3451, refer to table 6A, product codes 3451012 to 3451098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Screw Machine Products Industry totaled \$589 million. This amount included shipments of screw machine products (primary products) valued at \$539 million, shipments of other products (secondary products) valued at \$19 million, and miscellaneous receipts at \$32 million.

This industry's shipments of screw machine products represented 97 percent of its total product shipments. The industry specialization ratio in 1958 was 94 percent. Secondary products shipped by this industry in 1963 included bolts, nuts, and other standard industrial fasteners (\$4.4 million), and headed products (produced by cold and hot heading) other than industrial fasteners (\$2.8 million).

Shipments of screw machine products by this industry represented 90 percent of all shipments of these products (\$599 million) by all industries. In 1958 the coverage ratio was 87 percent. Other industries shipping screw machine products included industry 3452, Bolts, Nuts, Rivets, and Washers, \$21.3 million; and industry 3717, Motor Vehicles and Parts, \$5.6 million.

Industry 3451 includes establishments producing a wide variety of items such as small machinery parts, etc., on hand operated and automatic screw machines from rod, bar, and tube stock and from castings and forgings. These products are produced almost entirely on a job or order basis. Included are screw machine departments or plants of companies primarily engaged in producing finished end products where such activities could be reported separately. However, in many instances captive screw machine operations were so integrated with other activities that separate reports were not obtained and the entire establishment was classified on the basis of its primary products.

As shown in table 7A, the principal materials consumed by the screw machine products industry are carbon steel bar stock and copper rod, bar, and mechanical wire. These materials, together with the other specific materials listed in table 7A accounted for 63 percent of the total cost of materials consumed by this industry.

#### 3452—BOLTS, NUTS, RIVETS, AND WASHERS

This industry comprises establishments primarily engaged in manufacturing bolts, nuts, screws, rivets, washers, formed and threaded wire goods, and special industrial fasteners. Rolling mills engaged in manufacturing similar products are classified in Major Group 33, and establishments primarily engaged in manufacturing screw machine products in industry 3451. For a detailed list of products of industry 3452, refer to table 6A, product codes 3452101 to 3452398.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Bolts, Nuts, Rivets, and Washers Industry totaled \$1,218 million. This amount included shipments of bolts, nuts, rivets, and washers (primary products) valued at \$1,058 million, shipments of other products (secondary products) valued at \$92 million, and miscellaneous receipts (mainly resales) at \$68 million.

This industry's shipments of bolts, nuts, rivets, and washers represented 92 percent of its total product shipments. The industry specialization ratio in 1958 was 91 percent. Secondary products shipped by this industry in 1963 included screw machine products (\$21.3 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 74 percent of the total industry shipments are represented by plants specializing in product class 34521, Bolts, nuts, and other standard industrial fasteners.

Shipments of bolts, nuts, rivets, and washers by this industry represented 90 percent of all shipments of these products (\$1,176 million) by all industries. In 1958 the coverage ratio was 87 percent.

Plants included in industry 3452 in general are engaged in the manufacture of bolts, nuts, screws, and rivets of standard types and sizes on heading, threading, and nut forming machines. These establishments may be also engaged in the production of special industrial fasteners which require special or added operations or the use of special tools and fixtures. These items include bolts, nuts, screws, etc., of nonstandard types and sizes and special fasteners made by stamping and other forming processes. To a lesser extent these plants manufacture standard type bolts, nuts, screws, etc., on automatic and hand operated screw machines.



The selected materials listed in table 7 accounted for 70 percent of the total cost of materials consumed by industry 3452 establishments. Carbon steel bars and wire, the two principal materials consumed, represented 41 percent of the cost of materials used by the bolt, nut, washer, and rivet industry.

The production index for the primary products of the industry increased to 137 in 1963 from the 1958 level of 99. The unit value index for 1963 was 124 compared to 123 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3461—METAL STAMPINGS

This industry comprises establishments primarily engaged in manufacturing metal stampings. These establishments generally operate on a job or order basis, manufacturing metal stampings for sale to others or for interplant transfer. Establishments which produce metal stampings for incorporation in end products produced in the same establishment are classified on the basis of the end products. For a detailed list of products of industry 3461, refer to table 6A, product codes 3461111 to 3461898.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Establishments in industry 3461 produce both job stampings and finished end products. Job stampings are made from materials owned by the stamping establishments as well as from materials owned by the customer and processed by the stamping establishments on a contract or commission basis. These stampings are mainly parts which are sold to manufacturers for incorporation into any of a wide variety of products such as refrigerators, agricultural machinery, radio, and television sets. Finished end products manufactured by establishments in this industry include cooking, kitchen, and hospital utensils (including domestic pressure cookers and porcelain enameled utensils), pails, ash cans, garbage cans, perforated metal products, metal commercial and home canning closures, as well as a large variety of miscellaneous items. Table 8 presents selected statistics for establishments classified according to their degree of specialization in the primary products of this industry.

Value of shipments and other receipts of the Metal Stampings Industry totaled \$2,679 million. This amount included shipments of metal stampings (primary products) valued at \$2,135 million, shipments of other products (secondary products) valued at \$410 million, and miscellaneous receipts (mainly resales) at \$134 million.

This industry's shipments of metal stampings represented 84 percent of its total product shipments. The industry specialization ratio in 1958 was 86 percent. Secondary products shipped by this industry in 1963 included special dies and tools, die sets, jigs, and fixtures (\$66 million), and other small household electric appliances (\$31 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent to this specialization is indicated in table 8. Approximately 27 percent of the total industry shipments are represented by plants specializing in product class 34612, Job stamping, except automotive; and 31 percent in product class 34613, Automotive job stampings.

Shipments of metal stampings by this industry represented 86 percent of all shipments of these products (\$2,484 million) by all industries. In 1958 the coverage ratio was 87 percent.

This coverage ratio measures only the coverage of this industry in terms of the total measurable output of metal stampings. This output is limited to the value of stampings



(including the specific stamped products which are classified as primary products of this industry) which were produced for sale or for interplant transfer by establishments classified in industry 3461 and by establishments in other industries where these products were produced as secondary products. However, no data are available on the value of stampings produced and used as component parts by establishments classified in other industries. Such a value, if it could be measured, might approximate or even exceed the total value of all stampings produced commercially or for interplant transfer. While no such value figure is available, table 9 for most of the industries within Major Groups 34, 35, 36, and 37, does show the importance of specific metalworking operations including "stamping, blanking, forming, and drawing." These data are based on the number of employees engaged in the operations listed.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3461, e.g., 34614, Stamped and spun hospital utensils and cooking and kitchen household utensils, aluminum, 99 percent; and 34618, Other stamped and pressed metal end products, 74 percent.

Industry 3461 includes the stamping departments of establishments primarily engaged in producing fabricated metal products where such stamping activities could be reported separately. However, where captive stamping operations were closely integrated with other activities, such as in the production of household appliances, farm equipment, motor vehicles, etc., separate reports were not obtained.

Plants in the Metal Stampings Industry commonly perform a number of auxiliary metalworking operations. As shown in table 9, a considerable number of establishments in this industry maintain tool and die departments and machine shops for the production of stamping and forming dies used in their metal fabricating operations.

The Bureau of the Census collects monthly data on commercial and home canning closures of metal which are primary products of industry 3461. These statistics are published in the Current Industrial Reports Series M34H, Closures for Glass Containers and Crowns. The census figures shown in table 6A differ slightly from the sum of the 1963 monthly data for metal closures because a few establishments not included in the monthly survey reported the manufacture of metal closures in the census. In other instances manufacturers covered by the monthly survey submitted revised annual data on their 1963 census reports. The monthly survey M34H also covers closures other than metal. Since these products, such as plastic caps and paper closures, are not primary products of industry 3461 they have been classified in other appropriate industries for the census.

#### 3471—ELECTROPLATING, PLATING, POLISHING, ANODIZING, AND COLORING

This industry comprises establishments primarily engaged in all types of electroplating, plating, anodizing, coloring, and finishing of metals and formed products for the trade. Most of the work done in this industry is done on materials owned by others.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Plating and Polishing Industry totaled \$518 million. This amount included shipments of electroplating, plating, and polishing (primary products) valued at \$502 million, shipments of other products (secondary products) valued at \$10 million, and miscellaneous receipts (mainly resales) at \$5 million.

#### 3479—COATING, ENGRAVING, AND ALLIED SERVICES, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in performing the following types of services on metals: (1) enameling, lacquering, and varnishing metal products



for the trade; (2) hot dip galvanizing of mill sheets, plates and bars, castings, and formed products fabricated of iron and steel; in hot dip coating such items with aluminum, lead, or zinc; in retinning cans and utensils; (3) in engraving, chasing and etching jewelry, silverware, notarial and other seals and other metal products for the trade and for job contracting for purposes other than printing; (4) and other metal services, n.e.c. Establishments primarily engaged in electroplating, plating, polishing, anodizing, coloring, and finishing of metals and formed products for the trade are classified in industry 3471; and those producing porcelain enameled products in industry 3461. For a detailed list of products of industry 3479, refer to table 6A, product codes 3479011 to 3479051.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

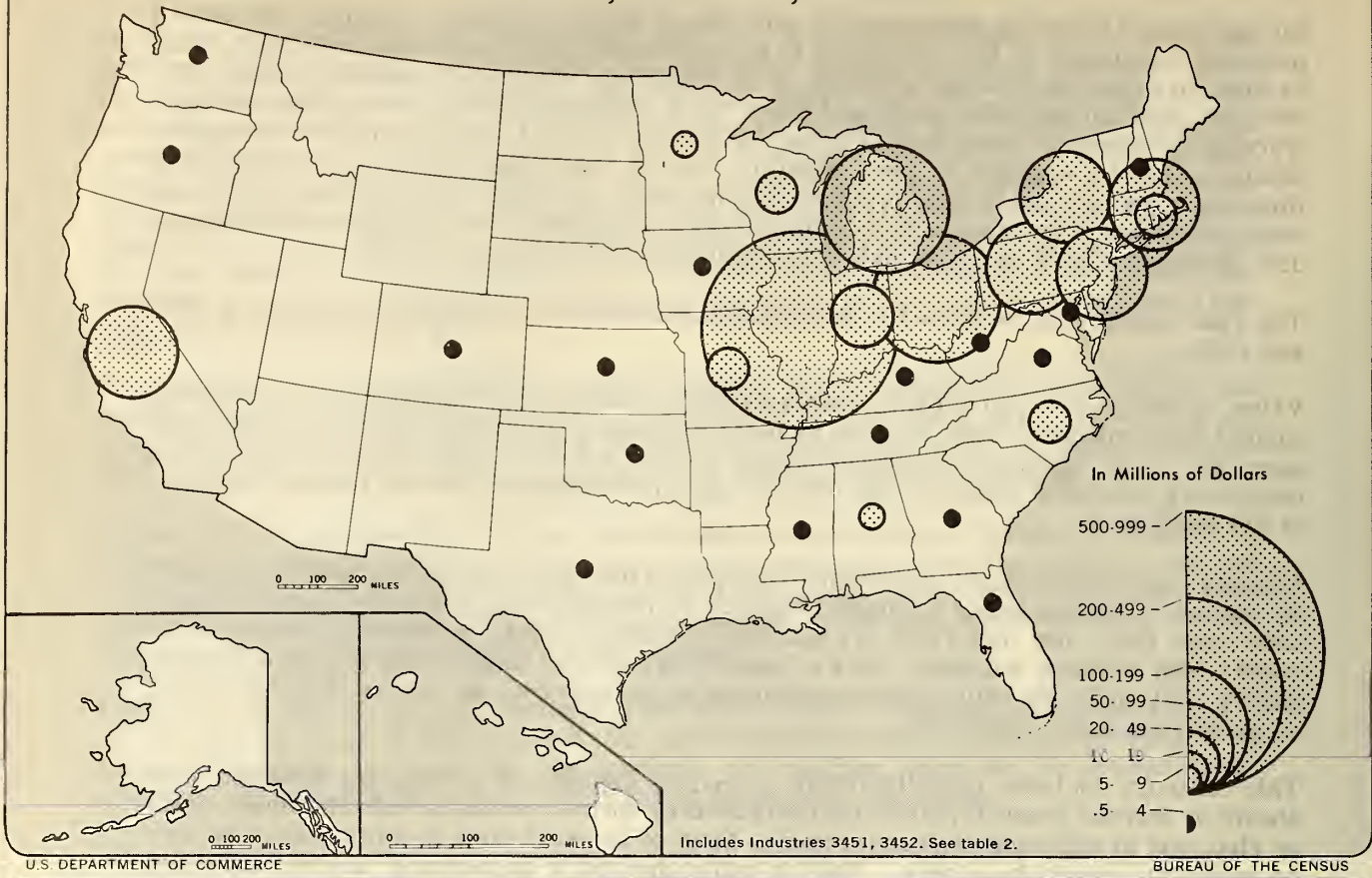
Value of shipments and other receipts of the Metal Coating, Engraving, Etc., Industry totaled \$322 million. This amount included shipments of coating, engraving, and allied services, n.e.c. (primary products) valued at \$286 million, shipments of other products (secondary products) valued at \$23 million, and miscellaneous receipts (mainly resales), at \$13 million.

Industry 3479 includes establishments engaged primarily in enameling materials owned by others. Establishments primarily engaged in manufacturing vitreous-enameled products from their own materials are included in industry 3461. In addition, industry 3479 covers both vitreous and other types of enameling (such as baked enameling) whereas industry 3461 includes only vitreous-enameled establishments as well as those producing other types of metal stampings.

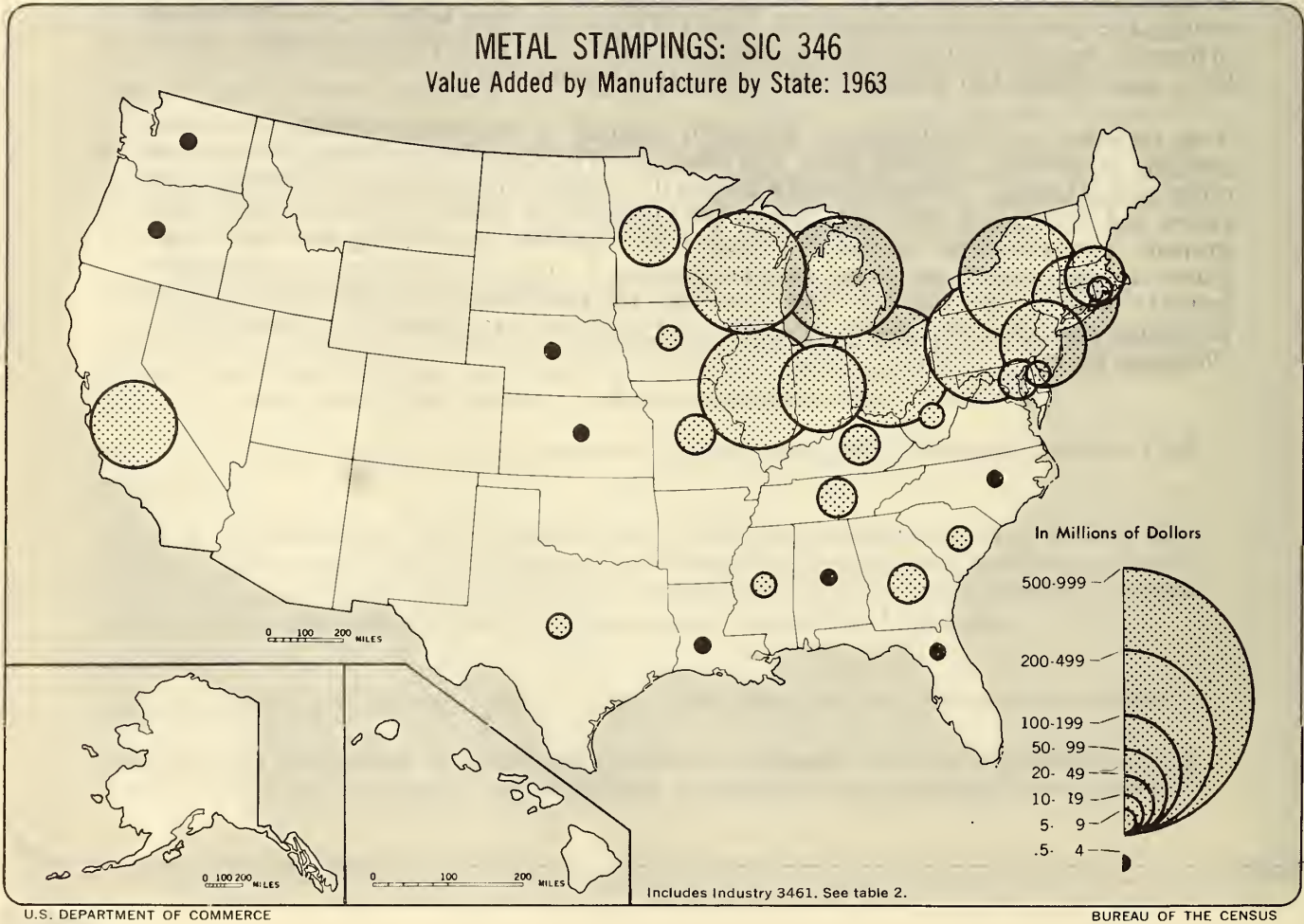
This industry includes establishments primarily engaged in galvanizing iron and steel sheets or formed products; in coating iron sheets or formed products with aluminum, lead, or zinc; and in retinning cans and utensils. Most of the work done in this industry is done on materials owned by others. Rolling mills engaged in galvanizing, tinning, and other coating are classified in industry 3312, Blast Furnaces and Steel Mills, and establishments primarily engaged in manufacturing galvanized steel wire from purchased metal rods or bars are classified in industry 3315, Steel Wire Drawing, Etc.

Also included are establishments primarily engaged in engraving, chasing, and etching jewelry, silverware, notarial seals, and other metal products for the trade, for purposes other than printing. Establishments primarily engaged in preparing metal lithographic plates and in printing from such media are classified in industry 2752, Printing, Lithographic; establishments primarily engaged in engraving and etching steel and copper plates and in using these plates to print stationery, visiting cards, etc., are included in industry 2753, Engraving and Plate Printing; and establishments primarily engaged in preparing photoengraved plates (halftones and line-cuts) are classified in industry 2793, Photoengraving.

SCREW MACHINE PRODUCTS, BOLTS ETC: SIC 345  
Value Added by Manufacture by State: 1963



METAL STAMPINGS: SIC 346  
Value Added by Manufacture by State: 1963





METAL SERVICES, N.E.C.: SIC 347  
 Value Added by Manufacture by State: 1963

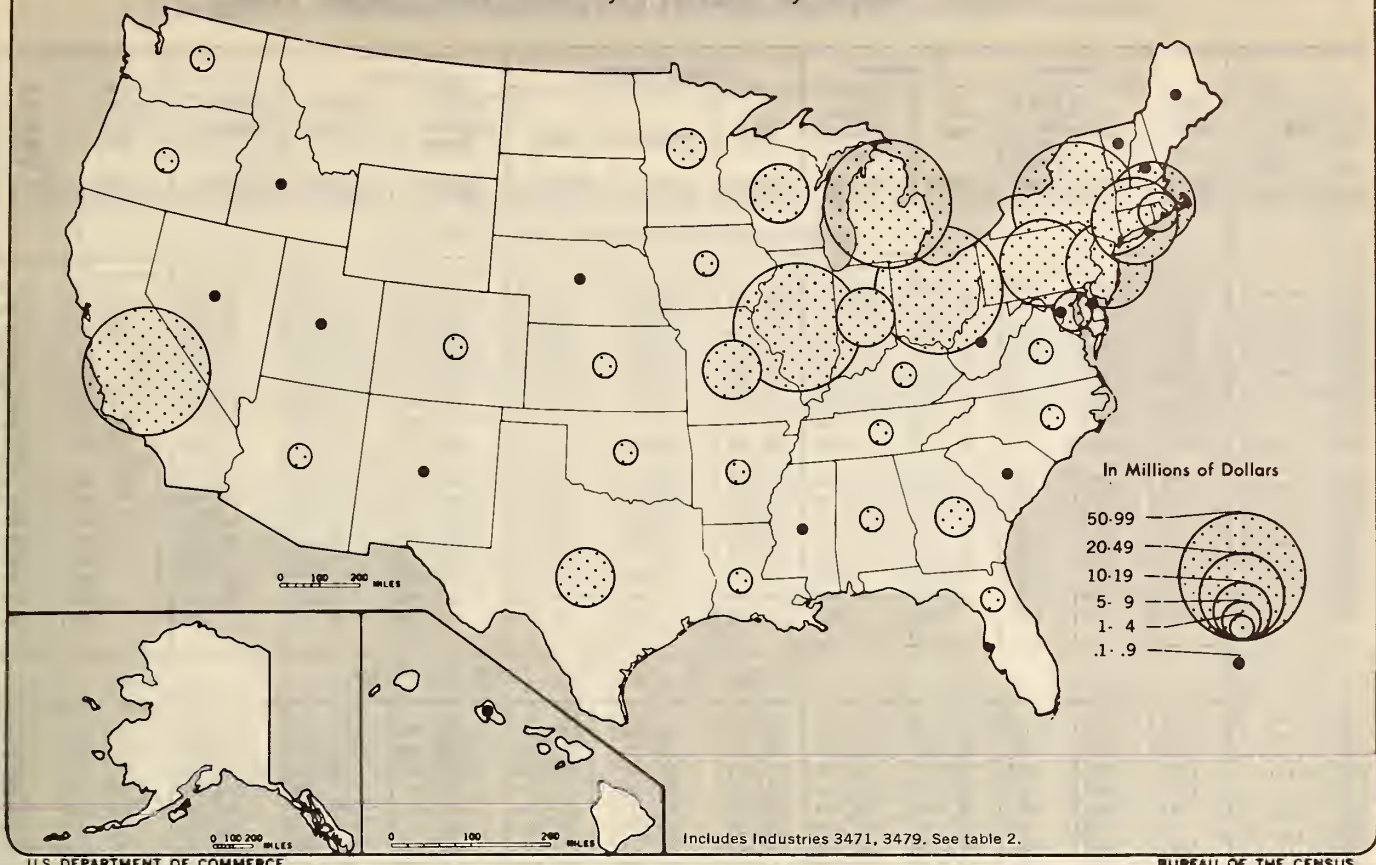


TABLE 1. General Statistics: 1963 and Earlier Years

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expendi-<br>tures,<br>new<br>(\$1,000) | Speci-<br>alization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|--|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |  |  |
| INDUSTRY 3451.—SCREW MACHINE PRODUCTS  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963.....  | 1,861                      | 1,874             | 516  | 36,909            | 213,172              | 30,796             | 64,270               | 159,991            | 358,961  | 232,878                           | 588,981                            | 18,676  | 97   | 90                                       |
| 1962 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 36,513            | 192,070              | 29,964             | 58,870               | 140,181            | 312,415  | 210,628                           | 518,251                            | (12,636)  | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 32,087            | 164,361              | 26,312             | 50,824               | 116,568            | 268,787  | 186,696                           | 457,982                            | (8,764)   | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 35,178            | 177,097              | 28,919             | 57,705               | 129,876            | 300,654  | 204,245                           | 502,843                            | (S)   | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 34,153            | 169,230              | 28,930             | 58,086               | 129,436            | 301,277  | 221,704                           | 519,095                            | (S)   | (NA)   | (NA)                                     |
| 1958.....  | 1,785                      | 1,792             | 419  | 31,836            | 154,925              | 25,892             | 51,915               | 113,989            | 249,975  | 175,111                           | 425,113                            | 11,222  | 94   | 87                                       |
| 1957 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 38,722            | 182,223              | 32,390             | 66,675               | 135,061            | 296,665  | 194,840                           | 490,070                            | 12,608  | (NA)   | (NA)                                     |
| 1956 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 38,864            | 178,084              | 32,683             | 67,481               | 133,654            | 292,034  | 204,467                           | 491,574                            | 17,061  | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 36,227            | 162,123              | 30,627             | 64,864               | 122,124            | 267,359  | 192,910                           | 454,089                            | 14,521  | (NA)   | (NA)                                     |
| 1954.....  | 1,791                      | 1,795             | 411  | 35,009            | 151,444              | 29,694             | 61,030               | 112,641            | 243,565  | 158,592                           | 406,457                            | 11,886  | 93   | 82                                       |
| 1953 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 46,289            | 206,105              | 40,321             | 88,682               | 164,255            | 350,721  | 223,068                           | 573,789                            | (NA)  | (NA)   | (NA)                                     |
| 1952 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 44,264            | 184,490              | 39,006             | 86,121               | 148,721            | 322,539  | 219,693                           | 542,232                            | (NA)  | (NA)   | (NA)                                     |
| 1951 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 41,071            | 162,326              | 36,268             | 79,406               | 131,064            | 292,056  | 205,106                           | 497,162                            | (NA)  | (NA)   | (NA)                                     |
| 1950 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 30,096            | 103,496              | 25,469             | 53,776               | 82,128             | 184,373  | 127,350                           | 311,723                            | (NA)  | (NA)   | (NA)                                     |
| 1949 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 22,761            | 77,926               | 18,614             | 36,099               | 57,461             | 120,400  | 74,417                            | 194,817                            | (NA)  | (NA)   | (NA)                                     |
| 1947.....  | 1,205                      | 1,209             | (NA)   | 28,623            | 87,922               | 24,859             | 52,461               | 69,235             | 144,791  | 77,224                            | 222,015                            | 10,800  | 94   | 86                                       |
| 1939 <sup>2</sup> .....  | (NA)                       | 288               | (NA)   | (NA)              | (NA)                 | 10,571             | (NA)                 | 14,287             | 31,654   | 20,910                            | 52,564                             | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3452.—BOLTS, NUTS, RIVETS, AND WASHERS  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963.....  | 504                        | 573               | 323  | 57,618            | 371,026              | 43,972             | 92,502               | 257,477            | 695,276  | 527,860                           | 1,218,247                          | 31,431  | 92   | 90                                       |
| 1962 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 57,420            | 360,644              | 43,533             | 91,726               | 241,121            | 649,098  | 514,665                           | 1,158,030                          | 30,986  | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 55,031            | 324,081              | 41,481             | 83,648               | 214,778            | 561,247  | 445,394                           | 1,005,484                          | 21,245  | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 58,521            | 331,414              | 44,332             | 88,768               | 221,805            | 595,859  | 465,279                           | 1,044,837                          | 29,260  | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 58,796            | 338,961              | 45,088             | 94,932               | 231,746            | 636,021  | 487,254                           | 1,112,915                          | (33,219)  | (NA)   | (NA)                                     |
| 1958.....  | 468                        | 525               | 283  | 53,270            | 286,039              | 40,202             | 80,579               | 191,886            | 504,731  | 370,608                           | 880,328                            | 43,707  | 91   | 87                                       |
| 1957 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 59,457            | 318,535              | 46,640             | 95,146               | 222,077            | 584,979  | 398,388                           | 965,126                            | 51,443  | (NA)   | (NA)                                     |
| 1956 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 58,745            | 304,470              | 46,116             | 96,483               | 215,870            | 554,333  | 387,681                           | 921,496                            | 36,234  | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 59,760            | 298,732              | 47,853             | 104,238              | 217,577            | 568,138  | 399,048                           | 945,375                            | 37,021  | (NA)   | (NA)                                     |
| 1954.....  | 421                        | 457               | 256  | 53,729            | 246,235              | 42,309             | 86,427               | 173,019            | 421,512  | 318,783                           | 738,482                            | 26,090  | 91   | 89                                       |
| 1953 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 57,543            | 264,384              | 46,635             | 100,732              | 195,256            | 483,374  | 330,895                           | 814,269                            | (NA)  | (NA)   | (NA)                                     |
| 1952 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 52,652            | 236,112              | 42,549             | 91,815               | 173,203            | 447,821  | 284,548                           | 732,369                            | (NA)  | (NA)   | (NA)                                     |
| 1951 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 53,468            | 232,517              | 43,986             | 100,182              | 175,577            | 494,935  | 312,096                           | 807,031                            | (NA)  | (NA)   | (NA)                                     |
| 1950 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 46,317            | 176,504              | 37,800             | 82,841               | 131,314            | 357,453  | 213,769                           | 571,222                            | (NA)  | (NA)   | (NA)                                     |
| 1949 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 42,532            | 142,063              | 33,970             | 68,279               | 101,820            | 249,728  | 157,409                           | 407,137                            | (NA)  | (NA)   | (NA)                                     |
| 1947.....  | 339                        | 364               | 217  | 49,235            | 151,514              | 40,908             | 85,895               | 115,790            | 285,451  | 178,301                           | 463,752                            | 18,263  | 92   | 86                                       |
| 1939 <sup>2</sup> .....  | (NA)                       | 219               | (NA)   | (NA)              | (NA)                 | 20,722             | (NA)                 | 26,216             | 63,999   | 50,634                            | 114,633                            | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3451 and 3452.—TOTAL FOR BOLTS, NUTS, RIVETS, AND WASHERS AND SCREW MACHINE PRODUCTS <sup>2</sup> |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963.....  | (NA)                       | 2,447             | 839  | 94,527            | 584,198              | 74,768             | 156,772              | 417,468            | 1,054,237  | 760,738                           | 1,807,228                          | 50,107  | (NA)   | (NA)                                     |
| 1962 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 93,933            | 552,714              | 73,497             | 150,596              | 381,302            | 961,513  | 725,293                           | 1,676,281                          | (43,622)  | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 87,118            | 488,442              | 67,793             | 134,472              | 331,346            | 830,034  | 632,090                           | 1,463,466                          | (30,009)  | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 93,699            | 508,511              | 73,251             | 146,773              | 350,859            | 896,513  | 669,524                           | 1,547,680                          | (NA)  | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 92,949            | 508,191              | 74,018             | 153,409              | 357,619            | 937,298  | 708,958                           | 1,632,010                          | (NA)  | (NA)   | (NA)                                     |
| 1958.....  | (NA)                       | 2,317             | 702  | 85,106            | 440,964              | 66,094             | 132,494              | 305,875            | 754,706  | 545,719                           | 1,305,441                          | 54,929  | (NA)   | (NA)                                     |
| 1957 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 98,179            | 500,758              | 79,030             | 161,821              | 357,138            | 881,664  | 593,228                           | 1,455,196                          | 64,051  | (NA)   | (NA)                                     |
| 1956 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 97,609            | 482,554              | 78,799             | 163,964              | 349,524            | 846,367  | 592,146                           | 1,413,070                          | 53,295  | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 95,987            | 460,855              | 78,480             | 169,102              | 339,701            | 835,497  | 591,958                           | 1,399,464                          | 51,542  | (NA)   | (NA)                                     |
| 1954.....  | (NA)                       | 2,252             | 667  | 88,738            | 397,679              | 72,003             | 147,457              | 285,660            | 665,077  | 477,375                           | 1,144,939                          | 37,976  | (NA)   | (NA)                                     |
| 1953 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 103,832           | 470,489              | 86,956             | 189,414              | 359,511            | 834,095  | 553,963                           | 1,388,058                          | (NA)  | (NA)   | (NA)                                     |
| 1952 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 96,916            | 420,602              | 81,555             | 177,736              | 321,924            | 770,360  | 504,241                           | 1,274,601                          | (NA)  | (NA)   | (NA)                                     |
| 1951 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 94,539            | 394,843              | 80,254             | 179,588              | 306,641            | 786,991  | 517,202                           | 1,304,193                          | (NA)  | (NA)   | (NA)                                     |
| 1950 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 76,413            | 280,000              | 63,269             | 136,617              | 213,442            | 541,826  | 341,119                           | 882,943                            | (NA)  | (NA)   | (NA)                                     |
| 1949 <sup>1</sup> .....  | (NA)                       | (NA)              | (NA)   | 65,293            | 219,989              | 52,584             | 104,378              | 159,281            | 370,128  | 231,826                           | 601,954                            | (NA)  | (NA)   | (NA)                                     |
| 1947.....  | (NA)                       | 1,573             | (NA)   | 77,858            | 238,806              | 65,767             | 138,356              | 185,025            | 430,242  | 255,525                           | 685,767                            | (NA)  | (NA)   | (NA)                                     |
| 1939 <sup>2</sup> .....  | (NA)                       | 507               | (NA)   | (NA)              | (NA)                 | 31,293             | (NA)                 | 40,503             | 95,653   | 71,544                            | 167,197                            | (NA)  | (NA)   | (NA)                                     |
| 1937.....  | (NA)                       | 449               | (NA)   | 43,125            | 63,685               | 38,127             | 50,118               | 113,748            | 87,056   | 200,804                           | (NA)                               | (NA)  | (NA)   | (NA)                                     |
| 1935.....  | (NA)                       | 439               | (NA)   | 31,854            | 40,274               | 27,524             | (NA)                 | 30,200             | 63,921   | 56,528                            | 120,449                            | (NA)  | (NA)   | (NA)                                     |
| 1933.....  | (NA)                       | 358               | (NA)   | 21,624            | 21,266               | 18,722             | (NA)                 | 16,106             | 37,488   | 28,835                            | 66,323                             | (NA)  | (NA)   | (NA)                                     |
| 1931.....  | (NA)                       | 391               | (NA)   | (NA)              | (NA)                 | 22,565             | (NA)                 | 23,655             | 50,167   | 33,014                            | 83,181                             | (NA)  | (NA)   | (NA)                                     |
| 1929.....  | (NA)                       | 390               | (NA)   | 40,557            | 66,117               | 36,056             | (NA)                 | 51,103             | 124,692  | 83,675                            | 208,367                            | (NA)  | (NA)   | (NA)                                     |
| 1927.....  | (NA)                       | 333               | (NA)   | 31,038            | 45,840               | 27,304             | (NA)                 | 35,379             | 71,684   | 64,212                            | 135,896                            | (NA)  | (NA)   | (NA)                                     |
| 1925.....  | (NA)                       | 332               | (NA)   | 31,704            | 46,101               | 27,978             | (NA)                 | 36,136             | 71,958   | 63,583                            | 135,541                            | (NA)  | (NA)   | (NA)                                     |
| 1923.....  | (NA)                       | 316               | (NA)   | 32,829            | 46,332               | 29,196             | (NA)                 | 37,150             | 73,938   | 63,439                            | 137,377                            | (NA)  | (NA)   | (NA)                                     |
| 1921.....  | (NA)                       | 293               | (NA)   | 21,677            | 27,430               | 18,801             | (NA)                 | 19,614             | 32,970   | 28,587                            | 61,557                             | (NA)  | (NA)   | (NA)                                     |
| 1919.....  | (NA)                       | 298               | (NA)   | 36,956            | 47,137               | 33,118             | (NA)                 | 37,943             | 80,407   | 64,812                            | 145,219                            | (NA)  | (NA)   | (NA)                                     |
| 1914.....  | (NA)                       | 180               | (NA)   | 20,671            | 13,085               | 18,747             | (NA)                 | 10,221             | 18,546   | 18,321                            | 36,867                             | (NA)  | (NA)   | (NA)                                     |
| 1909.....  | (NA)                       | 162               | (NA)   | 17,945            | 10,164               | 16,476             | (NA)                 | 8,217              | 17,425   | 16,273                            | 33,698                             | (NA)  | (NA)   | (NA)                                     |
| 1904.....  | (NA)                       | 121               | (NA)   | 12,543            | 6,490                | 11,543             | (NA)                 | 5,140              | 10,043   | 9,489                             | 19,532                             | (NA)  | (NA)   | (NA)                                     |
| 1899.....  | (NA)                       | 105               | (NA)   | 11,854            | 5,282                | 11,187             | (NA)                 | 4,416              | 8,845  | 9,791                             | 18,636                             | (NA)  | (NA)   | (NA)                                     |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Companies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spec-<br>ializa-<br>tion<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|-----------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|---|-----------------------------------|------------------------------------|---|---|--|
|   |                       | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                   |                                    |   |   |  |
| INDUSTRY 3461.—METAL STAMPINGS                |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1963.....                                     | 2,491                 | 2,574             | 1,116  | 132,179           | 772,557              | 108,336            | 222,005              | 567,309            | 1,368,993   | 1,324,939                         | 2,678,996                          | 64,248  | 84  | 86                                       |
| 1962 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 132,797           | 754,943              | 107,820            | 224,828              | 546,941            | 1,310,428   | 1,305,551                         | 2,605,775                          | 68,728  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 125,312           | 684,112              | 100,597            | 207,293              | 486,134            | 1,181,190   | 1,160,058                         | 2,338,008                          | 48,387  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 134,290           | 729,036              | 107,966            | 225,649              | 521,060            | 1,220,361   | 1,229,952                         | 2,450,795                          | 56,508  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 135,264           | 727,827              | 109,693            | 227,258              | 524,330            | 1,240,511   | 1,269,112                         | 2,498,962                          | (80,926)  | (NA)  | (NA)                                     |
| 1958.....                                     | 2,372                 | 2,454             | 1,039  | 125,300           | 644,217              | 99,759             | 199,664              | 457,345            | 1,045,220   | 1,039,387                         | 2,095,409                          | 50,407  | 86  | 87                                       |
| 1954.....                                     | (NA)                  | 2,320             | 930  | 135,472           | 594,833              | 112,338            | 225,687              | 440,746            | 958,067   | 868,005                           | 1,841,508                          | 39,290  | (NA)  | (NA)                                     |
| 1953 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 176,732           | 765,310              | 150,112            | 304,690              | 593,182            | 1,253,327   | 1,248,509                         | 2,501,836                          | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 148,799           | 622,345              | 122,244            | 255,230              | 462,789            | 978,556   | 917,602                           | 1,896,152                          | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 159,300           | 603,762              | 133,158            | 272,528              | 454,910            | 989,891   | 1,000,456                         | 1,990,347                          | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 148,657           | 528,704              | 124,140            | 256,925              | 400,806            | 875,998   | 878,694                           | 1,754,692                          | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 125,487           | 417,054              | 105,893            | 206,489              | 308,403            | 617,043   | 1,274,043                         | 1,274,043                          | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                     | (NA)                  | 2,032             | (NA)   | 144,961           | 418,609              | 125,725            | 153,130              | 329,141            | 691,229   | 554,963                           | 1,246,192                          | (NA)  | (NA)  | (NA)                                     |
| 1939 <sup>3</sup> .....                       | (NA)                  | 1,020             | (NA)   | (NA)              | (NA)                 | 67,991             | (NA)                 | 81,420             | 192,100   | 178,430                           | 370,530                            | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3471.—PLATING AND POLISHING          |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1963 <sup>4</sup> .....                       | 2,968                 | 3,023             | 677  | 44,962            | 223,504              | 37,722             | 74,846               | 169,592            | 370,202   | 148,320                           | 517,572                            | 20,032  | ( <sup>5</sup> )                                    | ( <sup>5</sup> )                         |
| 1962 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 49,249            | 231,454              | 41,624             | 80,369               | 182,024            | 401,231   | 147,858                           | 549,107                            | 25,541  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 43,898            | 200,502              | 37,073             | 71,644               | 161,284            | 330,935   | 128,289                           | 458,662                            | (16,196)  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 44,232            | 199,972              | 38,137             | 72,589               | 161,491            | 336,996   | 128,307                           | 465,123                            | 19,071  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 43,307            | 189,521              | 37,158             | 72,001               | 142,341            | 325,751   | 127,291                           | 451,251                            | (15,185)  | (NA)  | (NA)                                     |
| 1958 <sup>4</sup> .....                       | 2,614                 | 2,646             | 542  | 36,471            | 156,274              | 30,543             | 59,082               | 117,703            | 253,784   | 106,108                           | 359,116                            | 15,877  | ( <sup>5</sup> )                                    | ( <sup>5</sup> )                         |
| 1954 <sup>4</sup> .....                       | 2,423                 | 2,451             | 465  | 36,066            | 136,933              | 31,221             | 62,878               | 105,443            | 214,330   | 92,867                            | 307,398                            | 12,862  | ( <sup>5</sup> )                                    | ( <sup>5</sup> )                         |
| 1953 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 40,999            | 157,457              | 35,493             | 72,804               | 122,885            | 259,280   | 106,642                           | 365,922                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 24,934            | 98,777               | 21,981             | 45,883               | 77,853             | 163,414   | 90,747                            | 254,161                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 26,595            | 95,024               | 23,941             | 48,160               | 76,517             | 172,246   | 90,550                            | 262,796                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 26,812            | 83,009               | 23,879             | 49,775               | 68,619             | 150,227   | 84,794                            | 235,021                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                     | 1,789                 | 1,804             | (NA)   | 28,626            | 77,503               | 25,951             | 52,156               | 65,388             | 127,890   | 52,786                            | 180,676                            | (NA)  | ( <sup>5</sup> )                                    | ( <sup>5</sup> )                         |
| 1939.....                                     | (NA)                  | 643               | (NA)   | 9,653             | 12,548               | 8,206              | (NA)                 | 9,383              | 20,868  | 7,300                             | 28,168                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                     | (NA)                  | 547               | (NA)   | 9,330             | 12,300               | 8,256              | (NA)                 | 9,828              | 19,871  | 6,815                             | 26,686                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                     | (NA)                  | 553               | (NA)   | 7,206             | 8,974                | 6,238              | (NA)                 | 6,941              | 13,679  | 4,649                             | 18,328                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....                                     | (NA)                  | 423               | (NA)   | 4,435             | 4,295                | 3,956              | (NA)                 | 3,715              | 7,680   | 2,352                             | 10,032                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....                                     | (NA)                  | 464               | (NA)   | (NA)              | (NA)                 | 4,107              | (NA)                 | 5,642              | 10,282  | 2,802                             | 13,084                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....                                     | (NA)                  | 534               | (NA)   | 6,843             | 12,094               | 5,928              | (NA)                 | 9,537              | 18,929  | 4,799                             | 23,728                             | (NA)  | (NA)  | (NA)                                     |
| 1927.....                                     | (NA)                  | 419               | (NA)   | 4,126             | 6,995                | 3,556              | (NA)                 | 5,629              | 10,595  | 3,335                             | 13,930                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....                                     | (NA)                  | 449               | (NA)   | 3,843             | 6,340                | 3,337              | (NA)                 | 5,254              | 9,900   | 2,541                             | 12,441                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....                                     | (NA)                  | 446               | (NA)   | 4,017             | 6,350                | 3,374              | (NA)                 | 5,195              | 9,684   | 2,613                             | 12,297                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....                                     | (NA)                  | 392               | (NA)   | 2,844             | 4,325                | 2,460              | (NA)                 | 3,563              | 6,081   | 1,960                             | 8,041                              | (NA)  | (NA)  | (NA)                                     |
| 1919.....                                     | (NA)                  | 515               | (NA)   | 3,442             | 4,537                | 3,024              | (NA)                 | 3,794              | 7,751   | 2,639                             | 10,390                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....                                     | (NA)                  | 479               | (NA)   | 2,918             | 2,094                | 2,584              | (NA)                 | 1,713              | 3,437   | 1,336                             | 4,773                              | (NA)  | (NA)  | (NA)                                     |
| 1909.....                                     | (NA)                  | 461               | (NA)   | 3,004             | 1,895                | 2,717              | (NA)                 | 1,652              | 3,305   | 1,205                             | 4,510                              | (NA)  | (NA)  | (NA)                                     |
| 1904.....                                     | (NA)                  | 312               | (NA)   | 2,087             | 1,225                | 1,943              | (NA)                 | 1,093              | 2,218   | 747                               | 2,965                              | (NA)  | (NA)  | (NA)                                     |
| 1899.....                                     | (NA)                  | 302               | (NA)   | 2,201             | 1,042                | 2,086              | (NA)                 | 949                | 1,936   | 784                               | 2,720                              | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3479.—METAL COATING, ENGRAVING, ETC. |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1963 <sup>4</sup> .....                       | 1,227                 | 1,258             | 276  | 20,669            | 107,110              | 17,113             | 34,998               | 79,136             | 184,546   | 137,211                           | 322,139                            | 8,656   | ( <sup>5</sup> )                                    | ( <sup>5</sup> )                         |
| 1962 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 20,082            | 95,587               | 16,286             | 32,655               | 67,408             | 166,330   | 132,087                           | 295,400                            | (10,556)  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 18,492            | 85,201               | 15,546             | 31,265               | 61,367             | 143,775   | 96,473                            | 241,121                            | (6,474)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 18,896            | 83,419               | 15,774             | 33,499               | 60,811             | 148,386   | 108,387                           | 254,763                            | 6,512   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 18,357            | 79,851               | 15,424             | 31,185               | 59,205             | 137,427   | 106,011                           | 244,888                            | 6,227   | (NA)  | (NA)                                     |
| 1958 <sup>4</sup> .....                       | 986                   | 1,003             | 192  | 15,680            | 68,046               | 12,892             | 25,206               | 49,985             | 108,379   | 88,846                            | 196,389                            | 4,678   | ( <sup>5</sup> )                                    | ( <sup>5</sup> )                         |
| 1954 <sup>4</sup> .....                       | (NA)                  | 782               | 163  | 12,305            | 45,625               | 10,450             | 20,797               | 33,739             | 70,402  | 34,542                            | 105,233                            | 3,409   | ( <sup>5</sup> )                                    | ( <sup>5</sup> )                         |
| 1947.....                                     | (NA)                  | 604               | (NA)   | 10,433            | 28,618               | 9,217              | (NA)                 | 23,135             | 47,443  | 23,366                            | 70,809                             | (NA)  | ( <sup>5</sup> )                                    | ( <sup>5</sup> )                         |
| 1939.....                                     | (NA)                  | 257               | (NA)   | 5,265             | 7,678                | 4,452              | (NA)                 | 5,271              | 12,349  | 6,647                             | 18,996                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>6</sup> .....                       | (NA)                  | 215               | (NA)   | (NA)              | (NA)                 | 6,139              | (NA)                 | 7,434              | 15,967  | 9,048                             | 25,015                             | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Footnotes continued on next page.

TABLE 1. General Statistics: 1963 and Earlier Years—Continued

## Footnotes for Table 1-34D—Continued

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>The figures for 1939 are not entirely comparable with those for earlier years. However, the figures for the "Bolts, nuts, washers, and rivets" and the "Screw machine products" industries have been combined so that figures can be shown for the period 1899-1958.

<sup>3</sup>No comparable figures are available prior to 1939.

<sup>4</sup>In this industry which contains a large number of very small establishments there is a possibility that some of these small establishments have been misclassified as to industry. This would not significantly affect the statistics other than the number of establishments.

<sup>5</sup>Relationships not meaningful because of the predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

<sup>6</sup>No comparable figures are available prior to 1937.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                    | 1963              |                                       |                   |                      |                    |                      |                    |                                      |                   |                    | 1958                      |                  |                                      |
|---|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3451.—SCREW MACHINE PRODUCTS           |                   |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           |                  |                                      |
| Total.....                                      | 1,874             | 516                                   | 36,909            | 213,172              | 30,796             | 64,270               | 159,991            | 358,961                              | 232,878           | 588,981            | 18,676                    | 31,836           | 249,975                              |
| New England.....                                | 312               | 80                                    | 6,105             | 32,653               | 5,090              | 10,652               | 24,079             | 51,152                               | 28,535            | 79,478             | 3,343                     | 5,517            | 39,088                               |
| Massachusetts.....                              | 89                | 26                                    | 2,086             | 10,968               | 1,730              | 3,714                | 8,132              | 16,653                               | 10,169            | 26,655             | 1,290                     | 1,824            | 12,457                               |
| Connecticut.....                                | 172               | 47                                    | 3,378             | 18,495               | 2,841              | 5,858                | 13,659             | 29,614                               | 15,661            | 42,259             | 1,660                     | 3,147            | 23,087                               |
| Middle Atlantic....                             | 368               | 96                                    | 6,056             | 33,258               | 5,065              | 10,209               | 24,942             | 56,827                               | 32,283            | 89,037             | 3,047                     | 5,592            | 40,683                               |
| New York.....                                   | 166               | 46                                    | 3,126             | 17,156               | 2,631              | 5,288                | 12,792             | 28,322                               | 18,297            | 46,687             | 1,189                     | 2,776            | 20,334                               |
| New Jersey.....                                 | 118               | 30                                    | 1,767             | 10,252               | 1,448              | 3,029                | 7,570              | 18,587                               | 8,486             | 27,023             | 1,513                     | 1,564            | 12,337                               |
| Pennsylvania.....                               | 84                | 20                                    | 1,163             | 5,850                | 986                | 1,892                | 4,580              | 9,918                                | 5,500             | 15,327             | 345                       | 1,252            | 8,012                                |
| East North Central.                             | 858               | 266                                   | 19,051            | 112,799              | 16,044             | 33,892               | 85,776             | 191,785                              | 143,181           | 332,398            | 8,797                     | 16,136           | 131,282                              |
| Ohio.....                                       | 200               | 63                                    | 4,976             | 28,671               | 4,208              | 8,664                | 21,670             | 45,943                               | 33,543            | 77,412             | 2,051                     | 4,592            | 36,314                               |
| Indiana.....                                    | 70                | 22                                    | 1,723             | 9,115                | 1,492              | 3,065                | 7,213              | 17,214                               | 11,181            | 28,370             | 695                       | 1,436            | 11,363                               |
| Illinois.....                                   | 246               | 77                                    | 5,753             | 33,432               | 4,748              | 9,864                | 25,153             | 52,728                               | 33,685            | 86,620             | 2,871                     | 4,877            | 39,796                               |
| Michigan.....                                   | 284               | 90                                    | 5,587             | 35,735               | 4,763              | 10,514               | 27,415             | 66,096                               | 58,970            | 124,509            | 2,616                     | 4,489            | 38,206                               |
| Wisconsin.....                                  | 58                | 14                                    | 1,012             | 5,846                | 833                | 1,785                | 4,325              | 9,804                                | 5,802             | 15,487             | 564                       | 742              | 5,603                                |
| West North Central.                             | 68                | 22                                    | 1,680             | 9,760                | 1,373              | 2,779                | 7,214              | 15,867                               | 9,052             | 25,003             | 1,777                     | 1,633            | 12,577                               |
| Minnesota.....                                  | 25                | 9                                     | 670               | 4,056                | 582                | 1,143                | 3,214              | 6,372                                | 3,487             | 10,029             | 1,283                     | 529              | 4,481                                |
| Missouri.....                                   | 30                | 8                                     | 810               | 4,767                | 621                | 1,298                | 3,316              | 7,892                                | 4,741             | 12,558             | 445                       | 909              | 6,894                                |
| South Atlantic....                              | 29                | 4                                     | 408               | 1,854                | 333                | 683                  | 1,364              | 4,978                                | 1,769             | 6,738              | 171                       | 271              | 1,899                                |
| East South Central.                             | 7                 | 4                                     | 184               | 878                  | 149                | 318                  | 668                | 1,732                                | 988               | 2,647              | 152                       | 121              | 816                                  |
| West South Central.                             | 19                | 8                                     | 365               | 1,998                | 305                | 684                  | 1,457              | 3,456                                | 2,116             | 5,492              | 187                       | 194              | 1,723                                |
| West.....                                       | 213               | 36                                    | 3,060             | 19,972               | 2,437              | 5,053                | 14,491             | 33,164                               | 14,954            | 48,188             | 1,202                     | 2,372            | 21,907                               |
| Colorado.....                                   | 4                 | 3                                     | 112               | 532                  | 95                 | 192                  | 432                | 1,040                                | 757               | 1,717              | 59                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                                 | 194               | 31                                    | 2,811             | 18,599               | 2,235              | 4,651                | 13,475             | 30,526                               | 13,728            | 44,392             | 1,085                     | 2,102            | 19,498                               |
| INDUSTRY 3452.—BOLTS, NUTS, RIVETS, AND WASHERS |                   |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           |                  |                                      |
| Total.....                                      | 573               | 323                                   | 57,618            | 371,026              | 43,972             | 92,502               | 257,477            | 695,276                              | 527,860           | 1,218,247          | 31,431                    | 53,270           | 504,731                              |
| New England.....                                | 68                | 43                                    | 8,395             | 47,677               | 6,234              | 13,028               | 32,000             | 88,910                               | 50,128            | 139,190            | 3,148                     | 9,247            | 70,823                               |
| Massachusetts.....                              | 21                | 13                                    | 4,373             | 24,954               | 3,238              | 6,755                | 17,012             | 41,967                               | 24,362            | 66,461             | 1,016                     | 4,641            | 34,974                               |
| Connecticut.....                                | 32                | 20                                    | 2,923             | 17,059               | 2,116              | 4,465                | 10,880             | 36,639                               | 18,089            | 54,977             | 1,666                     | 3,486            | 27,522                               |
| Middle Atlantic....                             | 122               | 58                                    | 12,094            | 77,603               | 9,000              | 18,390               | 53,585             | 143,341                              | 97,840            | 240,366            | 5,063                     | 11,511           | 110,957                              |
| New York.....                                   | 45                | 18                                    | 2,975             | 18,250               | 2,160              | 4,373                | 11,430             | 36,101                               | 29,536            | 66,281             | 1,426                     | 2,465            | 25,643                               |
| New Jersey.....                                 | 28                | 17                                    | 3,200             | 22,196               | 2,294              | 4,749                | 14,939             | 44,766                               | 23,904            | 67,935             | 2,053                     | 2,638            | 25,760                               |
| Pennsylvania.....                               | 49                | 23                                    | 5,919             | 37,157               | 4,546              | 9,268                | 27,216             | 62,474                               | 44,400            | 106,150            | 1,584                     | 6,408            | 59,554                               |
| East North Central.                             | 259               | 158                                   | 28,585            | 194,156              | 22,067             | 47,128               | 136,519            | 357,819                              | 306,677           | 659,791            | 18,037                    | 25,788           | 244,435                              |
| Ohio.....                                       | 73                | 51                                    | 9,638             | 63,367               | 7,477              | 15,530               | 44,542             | 110,478                              | 104,678           | 213,578            | 4,826                     | 9,226            | 86,121                               |
| Indiana.....                                    | 12                | 8                                     | 1,107             | 7,063                | 839                | 1,730                | 4,933              | 13,961                               | 12,618            | 26,749             | 616                       | 1,292            | 12,811                               |
| Illinois.....                                   | 96                | 59                                    | 12,596            | 86,228               | 9,677              | 21,388               | 61,058             | 160,670                              | 117,052           | 275,916            | 7,843                     | 11,175           | 105,204                              |
| Michigan.....                                   | 68                | 37                                    | 4,555             | 32,962               | 3,566              | 7,398                | 23,063             | 64,312                               | 65,652            | 128,413            | 4,346                     | 3,489            | 33,898                               |
| Wisconsin.....                                  | 10                | 3                                     | 689               | 4,536                | 508                | 1,082                | 2,923              | 8,398                                | 6,677             | 15,135             | 406                       | 606              | 6,401                                |
| West North Central.                             | 12                | 6                                     | 548               | 3,188                | 409                | 838                  | 2,045              | 5,870                                | 5,812             | 11,621             | 333                       | 613              | 4,374                                |
| Missouri.....                                   | 6                 | 3                                     | 233               | 1,415                | 166                | 330                  | 819                | 2,795                                | 2,389             | 5,132              | 141                       | 295              | 2,050                                |
| South Atlantic....                              | 11                | 7                                     | 1,510             | 7,444                | 1,270              | 3,037                | 5,356              | 21,273                               | 14,128            | 34,821             | 1,323                     | 1,107            | 10,626                               |
| East South Central.                             | 12                | 6                                     | 1,147             | 6,532                | 963                | 1,887                | 4,852              | 10,977                               | 12,177            | 22,993             | 912                       | 801              | 8,853                                |
| West South Central.                             | 16                | 6                                     | 566               | 2,470                | 493                | 762                  | 1,833              | 4,115                                | 4,495             | 9,549              | 189                       | 327              | 3,291                                |
| West.....                                       | 73                | 39                                    | 4,773             | 31,956               | 3,536              | 7,432                | 21,287             | 62,971                               | 36,603            | 99,916             | 2,426                     | 3,876            | 51,372                               |
| California.....                                 | 68                | 37                                    | 4,669             | 31,351               | 3,464              | 7,295                | 20,917             | 62,063                               | 35,687            | 98,029             | 2,411                     | 3,778            | 50,341                               |
| INDUSTRY 3461.—METAL STAMPINGS                  |                   |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           |                  |                                      |
| Total.....                                      | 2,574             | 1,116                                 | 132,179           | 772,557              | 108,336            | 222,005              | 567,309            | 1,368,993                            | 1,324,939         | 2,678,996          | 64,248                    | 125,300          | 1,045,220                            |
| New England.....                                | 257               | 104                                   | 10,493            | 58,172               | 8,253              | 16,859               | 40,068             | 99,268                               | 72,215            | 170,157            | 4,077                     | 9,741            | 67,846                               |
| Massachusetts.....                              | 112               | 49                                    | 3,428             | 18,076               | 2,740              | 5,726                | 12,643             | 28,900                               | 20,028            | 48,763             | 953                       | 3,553            | 23,377                               |
| Rhode Island.....                               | 35                | 11                                    | 715               | 3,531                | 582                | 1,148                | 2,425              | 8,190                                | 5,458             | 13,654             | 229                       | 614              | 4,865                                |
| Connecticut.....                                | 103               | 42                                    | 6,244             | 36,084               | 4,838              | 9,787                | 24,639             | 61,344                               | 46,200            | 106,398            | 2,882                     | 5,526            | 39,259                               |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>             | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |               |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|---------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |               |                                      |
| INDUSTRY 3461.—METAL STAMPINGS—Continued |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |               |                                      |
| Middle Atlantic....                      | 629            | 247                                | 32,767         | 195,165           | 26,557             | 53,802            | 143,749         | 344,131                              | 301,066           | 643,000            | 14,163                    | 32,577        | 265,720                              |
| New York.....                            | 342            | 125                                | 12,122         | 66,021            | 9,773              | 19,911            | 46,571          | 114,604                              | 92,700            | 206,659            | 3,866                     | 11,780        | 91,021                               |
| New Jersey.....                          | 154            | 57                                 | 6,048          | 35,324            | 4,782              | 9,734             | 24,660          | 59,795                               | 52,364            | 112,634            | 3,090                     | 5,655         | 49,587                               |
| Pennsylvania.....                        | 133            | 65                                 | 14,597         | 93,820            | 12,002             | 24,157            | 72,518          | 169,732                              | 156,002           | 323,707            | 7,207                     | 15,142        | 125,112                              |
| East North Central.                      | 1,112          | 551                                | 66,710         | 401,161           | 55,078             | 113,219           | 295,508         | 709,713                              | 724,451           | 1,426,566          | 31,809                    | 63,316        | 552,220                              |
| Ohio.....                                | 253            | 137                                | 17,452         | 106,843           | 14,426             | 29,779            | 81,342          | 179,500                              | 186,092           | 361,493            | 7,456                     | 17,124        | 130,646                              |
| Indiana.....                             | 92             | 40                                 | 7,042          | 42,602            | 5,868              | 11,758            | 32,732          | 75,126                               | 76,640            | 151,514            | 2,702                     | 6,246         | 59,255                               |
| Illinois.....                            | 337            | 151                                | 16,769         | 101,397           | 13,781             | 28,206            | 73,665          | 177,495                              | 155,582           | 333,968            | 6,266                     | 17,115        | 151,709                              |
| Michigan.....                            | 343            | 178                                | 15,496         | 97,241            | 12,852             | 26,755            | 70,279          | 176,604                              | 207,318           | 381,613            | 6,646                     | 13,672        | 127,333                              |
| Wisconsin.....                           | 87             | 45                                 | 9,951          | 53,078            | 8,151              | 16,721            | 37,490          | 100,988                              | 98,819            | 197,978            | 8,739                     | 9,159         | 83,277                               |
| West North Central.                      | 109            | 55                                 | 5,115          | 28,628            | 4,153              | 8,411             | 20,756          | 48,145                               | 40,834            | 88,277             | 3,679                     | 4,354         | 34,477                               |
| Minnesota.....                           | 48             | 29                                 | 2,223          | 12,727            | 1,766              | 3,641             | 8,919           | 20,467                               | 13,861            | 34,186             | 804                       | 1,450         | 11,020                               |
| Iowa.....                                | 12             | 6                                  | 912            | 4,613             | 731                | 1,562             | 3,356           | 6,966                                | 7,855             | 14,770             | 295                       | 1,041         | 7,690                                |
| Missouri.....                            | 40             | 16                                 | 1,704          | 9,592             | 1,425              | 2,739             | 7,144           | 18,277                               | 17,343            | 35,132             | 2,523                     | 1,562         | 13,542                               |
| South Atlantic.....                      | 74             | 36                                 | 5,782          | 28,521            | 5,001              | 10,293            | 22,916          | 56,718                               | 75,931            | 130,859            | 5,367                     | 5,950         | 42,512                               |
| Maryland.....                            | 15             | 7                                  | 1,342          | 8,184             | 1,083              | 2,187             | 6,344           | 13,863                               | 20,491            | 33,683             | (D)                       | 2,058         | 15,832                               |
| West Virginia....                        | 10             | 7                                  | 1,113          | 5,122             | 967                | 1,836             | 4,193           | 7,834                                | 9,647             | 17,588             | 339                       | 1,515         | 9,036                                |
| North Carolina....                       | 13             | 5                                  | 267            | 1,376             | 214                | 464               | 942             | 2,170                                | 3,315             | 3,315              | (2)                       | (2)           | (2)                                  |
| Georgia.....                             | 18             | 10                                 | 1,857          | 7,718             | 1,718              | 3,671             | 6,679           | 16,157                               | 22,990            | 38,799             | 1,181                     | 1,244         | 8,993                                |
| East South Central.                      | 53             | 33                                 | 4,566          | 21,855            | 3,802              | 8,049             | 15,595          | 42,134                               | 47,602            | 88,668             | 2,146                     | 2,506         | 18,377                               |
| Kentucky.....                            | 16             | 14                                 | 1,667          | 9,555             | 1,346              | 2,848             | 6,758           | 14,951                               | 14,747            | 29,260             | 660                       | 1,432         | 9,234                                |
| Alabama.....                             | 9              | 4                                  | 441            | 1,804             | 335                | 543               | 1,007           | 4,312                                | 5,072             | 9,156              | 166                       | 513           | 5,050                                |
| West South Central.                      | 49             | 12                                 | 1,049          | 5,002             | 866                | 2,084             | 3,697           | 10,272                               | 11,500            | 21,577             | 504                       | 1,002         | 7,780                                |
| Texas.....                               | 36             | 9                                  | 655            | 3,275             | 534                | 1,416             | 2,402           | 7,094                                | 7,967             | 15,058             | 364                       | 535           | 3,809                                |
| Mountain.....                            | 13             | 3                                  | 133            | 761               | 105                | 209               | 559             | 1,243                                | 948               | 2,156              | 89                        | 77            | 164                                  |
| Pacific.....                             | 278            | 75                                 | 5,564          | 33,292            | 4,521              | 9,079             | 24,461          | 57,369                               | 50,392            | 107,736            | 2,414                     | 5,777         | 56,124                               |
| Washington.....                          | 12             | 1                                  | 175            | 1,114             | 144                | 262               | 718             | 1,595                                | 2,379             | 3,928              | 93                        | 189           | 2,095                                |
| California.....                          | 253            | 74                                 | 5,330          | 31,875            | 4,329              | 8,724             | 23,512          | 55,160                               | 47,612            | 102,785            | 2,282                     | 5,537         | 53,691                               |
| INDUSTRY 3471.—PLATING AND POLISHING     |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |               |                                      |
| Total.....                               | 3,023          | 677                                | 44,962         | 223,504           | 37,722             | 74,846            | 169,592         | 370,202                              | 148,320           | 517,572            | 20,032                    | 36,471        | 253,784                              |
| New England.....                         | 330            | 76                                 | 5,252          | 24,510            | 4,443              | 8,637             | 18,329          | 38,741                               | 13,909            | 52,608             | 1,958                     | 4,560         | 27,955                               |
| Massachusetts....                        | 117            | 35                                 | 1,888          | 8,957             | 1,555              | 3,129             | 6,498           | 13,356                               | 4,728             | 18,084             | 903                       | 1,543         | 9,246                                |
| Rhode Island.....                        | 91             | 15                                 | 1,323          | 4,752             | 1,169              | 1,991             | 3,674           | 7,371                                | 2,721             | 10,087             | 326                       | (2)           | (2)                                  |
| Connecticut.....                         | 113            | 26                                 | 1,966          | 10,377            | 1,661              | 3,396             | 7,890           | 17,506                               | 6,245             | 23,716             | 713                       | 1,743         | 12,376                               |
| Middle Atlantic....                      | 704            | 132                                | 8,951          | 42,848            | 7,473              | 15,004            | 32,618          | 72,439                               | 29,512            | 101,833            | 3,393                     | 8,780         | 58,963                               |
| New York.....                            | 417            | 82                                 | 5,434          | 24,758            | 4,636              | 9,309             | 18,967          | 41,086                               | 14,786            | 55,825             | 1,631                     | 5,515         | 36,486                               |
| New Jersey.....                          | 158            | 27                                 | 1,872          | 9,810             | 1,486              | 2,976             | 7,302           | 15,963                               | 5,606             | 21,554             | 949                       | 1,848         | 12,159                               |
| Pennsylvania.....                        | 129            | 23                                 | 1,645          | 8,280             | 1,351              | 2,719             | 6,349           | 15,390                               | 9,120             | 24,454             | 813                       | 1,417         | 10,318                               |
| East North Central.                      | 1,022          | 280                                | 17,883         | 90,748            | 15,089             | 29,782            | 68,738          | 152,657                              | 68,851            | 221,112            | 7,654                     | 13,699        | 96,538                               |
| Ohio.....                                | 247            | 63                                 | 4,070          | 20,871            | 3,401              | 6,730             | 15,838          | 34,401                               | 18,451            | 52,713             | 2,047                     | 3,170         | 22,598                               |
| Indiana.....                             | 80             | 23                                 | 1,561          | 7,850             | 1,294              | 2,570             | 5,867           | 15,379                               | 5,453             | 20,810             | 818                       | 1,189         | 9,199                                |
| Illinois.....                            | 287            | 82                                 | 5,371          | 27,680            | 4,561              | 8,950             | 20,902          | 46,390                               | 20,328            | 66,614             | 2,263                     | 4,799         | 33,837                               |
| Michigan.....                            | 339            | 98                                 | 5,966          | 29,701            | 5,056              | 10,051            | 22,653          | 49,318                               | 22,152            | 71,439             | 2,163                     | 3,771         | 26,215                               |
| Wisconsin.....                           | 69             | 14                                 | 915            | 4,646             | 777                | 1,481             | 3,478           | 7,169                                | 2,467             | 9,536              | 363                       | 770           | 4,689                                |
| West North Central.                      | 118            | 25                                 | 2,010          | 10,245            | 1,662              | 3,168             | 7,424           | 17,478                               | 5,937             | 23,348             | 1,039                     | 1,319         | 9,901                                |
| Minnesota.....                           | 30             | 6                                  | 674            | 3,861             | 556                | 1,028             | 2,609           | 6,438                                | 2,376             | 8,801              | 508                       | 482           | 3,978                                |
| Missouri.....                            | 60             | 14                                 | 1,034          | 4,972             | 852                | 1,624             | 3,728           | 8,536                                | 2,637             | 11,124             | 373                       | 599           | 4,234                                |
| Kansas.....                              | 11             | 3                                  | 145            | 729               | 126                | 256               | 549             | 1,171                                | 615               | 1,786              | 88                        | (2)           | (2)                                  |
| South Atlantic....                       | 117            | 21                                 | 1,794          | 7,412             | 1,561              | 3,191             | 5,816           | 12,494                               | 4,753             | 17,093             | 1,396                     | 899           | 5,583                                |
| Maryland.....                            | 18             | -                                  | 106            | 511               | 86                 | 179               | 385             | 764                                  | 1,122             | 1,122              | 29                        | 129           | 1,028                                |
| Virginia.....                            | 15             | 1                                  | 132            | 612               | 108                | 207               | 447             | 989                                  | 306               | 1,297              | 54                        | (2)           | (2)                                  |
| North Carolina....                       | 16             | 3                                  | 230            | 862               | 196                | 404               | 651             | 1,515                                | 909               | 2,424              | 191                       | (2)           | (2)                                  |
| Florida.....                             | 39             | 7                                  | 412            | 1,686             | 336                | 694               | 1,294           | 3,097                                | 782               | 3,770              | 142                       | 220           | 1,346                                |
| East South Central.                      | 59             | 14                                 | 648            | 2,647             | 555                | 1,041             | 2,141           | 4,563                                | 1,602             | 6,176              | 219                       | 307           | 1,835                                |
| Kentucky.....                            | 16             | 4                                  | 164            | 843               | 131                | 225               | 648             | 1,315                                | 414               | 1,729              | 53                        | (2)           | (2)                                  |
| Tennessee.....                           | 24             | 9                                  | 346            | 1,198             | 307                | 587               | 985             | 2,195                                | 753               | 2,957              | 106                       | 132           | 738                                  |
| West South Central.                      | 105            | 21                                 | 1,228          | 5,749             | 1,028              | 2,121             | 4,546           | 9,509                                | 3,566             | 13,019             | 903                       | 812           | 5,841                                |
| Oklahoma.....                            | 19             | 4                                  | 279            | 1,223             | 242                | 460               | 962             | 1,774                                | 1,081             | 2,840              | 150                       | 153           | 1,112                                |
| Texas.....                               | 74             | 15                                 | 825            | 4,017             | 677                | 1,440             | 3,145           | 6,724                                | 2,062             | 8,746              | 569                       | 587           | 4,248                                |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                   | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3471.—PLATING AND POLISHING—Continued |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Mountain.....                                  | 45             | 10                                 | 514            | 2,745             | 423                | 814               | 2,128           | 4,117                                | 1,398             | 5,467              | 418                       | 264              | 1,668                                |
| Colorado.....                                  | 15             | 3                                  | 141            | 737               | 117                | 242               | 551             | 1,105                                | 370               | 1,420              | 124                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Arizona.....                                   | 15             | 5                                  | 250            | 1,370             | 202                | 361               | 1,047           | 1,937                                | 745               | 2,687              | 238                       | 764              | 930                                  |
| Pacific.....                                   | 523            | 98                                 | 6,682          | 36,600            | 5,488              | 11,088            | 27,852          | 58,204                               | 18,792            | 76,916             | 3,052                     | 5,331            | 45,500                               |
| Washington.....                                | 18             | 2                                  | 212            | 1,523             | 163                | 318               | 1,065           | 2,435                                | 697               | 3,129              | 52                        | 155              | 1,287                                |
| Oregon.....                                    | 16             | 3                                  | 166            | 856               | 135                | 259               | 624             | 1,063                                | 279               | 1,352              | 64                        | 220              | 1,332                                |
| California.....                                | 484            | 93                                 | 6,279          | 34,089            | 5,170              | 10,477            | 26,069          | 54,573                               | 17,621            | 72,110             | 2,931                     | 5,456            | 42,881                               |
| INDUSTRY 3479.—METAL COATING, ENGRAVING, ETC.  |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                     | 1,258          | 276                                | 20,669         | 107,110           | 17,113             | 34,998            | 79,136          | 184,546                              | 137,211           | 322,139            | 8,656                     | 15,680           | 108,379                              |
| New England.....                               | 154            | 25                                 | 1,676          | 7,993             | 1,437              | 2,939             | 6,158           | 12,762                               | 5,213             | 18,025             | 363                       | 1,241            | 8,028                                |
| Massachusetts.....                             | 81             | 16                                 | 995            | 4,972             | 853                | 1,787             | 3,890           | 8,281                                | 3,223             | 11,551             | 194                       | 889              | 6,126                                |
| Rhode Island.....                              | 42             | 3                                  | 261            | 893               | 224                | 414               | 677             | 1,417                                | 418               | 1,834              | 40                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Middle Atlantic....                            | 325            | 65                                 | 5,206          | 25,962            | 4,242              | 8,737             | 18,366          | 43,357                               | 23,746            | 67,624             | 1,728                     | 4,297            | 27,692                               |
| New York.....                                  | 189            | 27                                 | 2,100          | 10,283            | 1,735              | 3,559             | 7,256           | 15,810                               | 7,579             | 23,581             | 551                       | 2,213            | 13,015                               |
| New Jersey.....                                | 83             | 21                                 | 1,405          | 7,130             | 1,166              | 2,442             | 5,239           | 11,214                               | 5,777             | 16,911             | 570                       | 1,000            | 6,741                                |
| Pennsylvania.....                              | 53             | 17                                 | 1,701          | 8,549             | 1,341              | 2,736             | 5,871           | 16,333                               | 10,390            | 27,132             | 607                       | 1,084            | 7,936                                |
| East North Central.                            | 318            | 103                                | 7,999          | 43,574            | 6,639              | 13,733            | 32,248          | 76,101                               | 63,336            | 139,399            | 3,387                     | 5,740            | 40,404                               |
| Illinois.....                                  | 122            | 41                                 | 3,139          | 18,238            | 2,497              | 4,889             | 12,704          | 31,307                               | 30,505            | 61,798             | 805                       | 2,970            | 23,429                               |
| Michigan.....                                  | 82             | 29                                 | 1,789          | 8,555             | 1,533              | 3,252             | 6,537           | 15,390                               | 13,939            | 29,205             | 903                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West North Central.                            | 62             | 8                                  | 692            | 3,345             | 566                | 1,122             | 2,577           | 6,244                                | 2,870             | 9,181              | 347                       | 600              | 5,981                                |
| Minnesota.....                                 | 17             | 2                                  | 169            | 731               | 143                | 280               | 560             | 1,725                                | 523               | 2,259              | 70                        | 191              | 1,402                                |
| South Atlantic.....                            | 46             | 13                                 | 1,034          | 5,259             | 829                | 1,645             | 3,593           | 8,471                                | 11,404            | 19,800             | 867                       | 426              | 3,597                                |
| Maryland.....                                  | 16             | -                                  | 522            | 3,093             | 392                | 789               | 1,883           | 4,630                                | 4,534             | 9,064              | 344                       | 337              | 2,995                                |
| Florida.....                                   | 14             | 2                                  | 143            | 555               | 125                | 252               | 472             | 1,174                                | 362               | 1,573              | 69                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| East South Central.                            | 25             | 9                                  | 458            | 1,672             | 398                | 781               | 1,412           | 3,635                                | 1,515             | 5,149              | 122                       | 250              | 1,720                                |
| Kentucky.....                                  | 6              | 4                                  | 191            | 644               | 172                | 343               | 601             | 1,508                                | 266               | 1,774              | 46                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Tennessee.....                                 | 10             | 2                                  | 109            | 356               | 85                 | 146               | 254             | 812                                  | 380               | 1,186              | 30                        | 149              | 863                                  |
| West South Central.                            | 70             | 16                                 | 1,015          | 4,916             | 878                | 1,789             | 3,868           | 9,148                                | 5,102             | 13,666             | 696                       | 1,160            | 6,845                                |
| Oklahoma.....                                  | 8              | 2                                  | 111            | 533               | 101                | 196               | 398             | 926                                  | 426               | 1,352              | 50                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Texas.....                                     | 53             | 11                                 | 711            | 3,514             | 610                | 1,252             | 2,799           | 6,031                                | 2,989             | 8,435              | 269                       | 1,030            | 5,665                                |
| Mountain.....                                  | 21             | 2                                  | 137            | 644               | 120                | 224               | 532             | 1,159                                | 643               | 1,802              | 252                       | 80               | 688                                  |
| Colorado.....                                  | 11             | 2                                  | 104            | 518               | 90                 | 166               | 416             | 914                                  | 556               | 1,472              | 242                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pacific.....                                   | 237            | 35                                 | 2,452          | 13,745            | 2,004              | 4,028             | 10,382          | 23,669                               | 23,382            | 47,493             | 894                       | 1,886            | 13,424                               |
| California.....                                | 207            | 34                                 | 2,332          | 13,159            | 1,901              | 3,833             | 9,874           | 22,472                               | 22,867            | 45,783             | 827                       | 1,812            | 12,696                               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State. SIC 3451, Screw Machine Products: New England—Maine, 1 (1-19); New Hampshire, 4 (20-99); Vermont, 3 (20-99); Rhode Island, 43 (555); West North Central—Iowa, 7 (100-249); Nebraska, 3 (20-99); Kansas, 3 (20-99); South Atlantic—Maryland, 7 (100-249); West Virginia, 1 (20-99); North Carolina, 2 (1-19); South Carolina, 1 (1-19); Georgia, 4 (20-99); Florida, 14 (20-99); East South Central—Tennessee, 5 (100-249); Alabama, 2 (20-99); West South Central—Arkansas, 5 (20-99); Oklahoma, 2 (20-99); Texas, 12 (100-249); Mountain—Arizona, 5 (20-99); Pacific—Washington, 6 (20-99); Oregon, 4 (20-99).

SIC 3452, Bolts, Nuts, Rivets, and Washers: New England—New Hampshire, 3 (100-249); Vermont, 1 (1-19); Rhode Island, 11 (855); West North Central—Minnesota, 4 (250-499); Iowa, 1 (20-99); Kansas, 1 (1-19); South Atlantic—Delaware, 1 (1-19); Maryland, 2 (100-249); Virginia, 1 (100-249); North Carolina, 2 (1000-2499); Georgia, 1 (1-19); Florida, 4 (124); East South Central—Kentucky, 1 (100-249); Tennessee, 3 (1-19); Alabama, 6 (500-999); Mississippi, 2 (100-249); West South Central—Oklahoma, 5 (100-249); Texas, 11 (250-499); Mountain—Arizona, 1 (1-19); Pacific—Washington, 3 (20-99); Oregon, 1 (20-99).

SIC 3461, Metal Stampings: New England—Maine, 1 (20-99); New Hampshire, 4 (20-99); Vermont, 2 (1-19); West North Central—North Dakota, 2 (1-19); Nebraska, 5 (20-99); Kansas, 2 (100-249); South Atlantic—Delaware, 2 (250-499); Virginia, 1 (1-19); South Carolina, 4 (549); Florida, 11 (250-499); East South Central—Tennessee, 21 (1630); Mississippi, 7 (828); West South Central—Arkansas, 2 (20-99); Louisiana, 5 (316); Oklahoma, 6 (20-99); Mountain—Wyoming, 1 (20-99); Colorado, 7 (20-99); Arizona, 1 (1-19); Utah, 3 (20-99); Nevada, 1 (1-19); Pacific—Oregon, 13 (20-99).

SIC 3471, Plating and Polishing: New England—Maine, 1 (1-19); New Hampshire, 5 (20-99); Vermont, 3 (1-19); West North Central—Iowa, 16 (100-249); Nebraska, 1 (1-19); South Atlantic—Delaware, 2 (1-19); District of Columbia, 5 (20-99); West Virginia, 4 (20-99); South Carolina, 6 (100-249); Georgia, 12 (636); East South Central—Alabama, 16 (100-249); Mississippi, 3 (20-99); West South Central—Arkansas, 5 (100-249); Louisiana, 7 (20-99); Mountain—Montana, 1 (1-19); Idaho, 2 (1-19); New Mexico, 3 (1-19); Utah, 7 (20-99); Nevada, 2 (1-19); Pacific—Hawaii, 5 (20-99).

SIC 3479, Metal Coating, Engraving, Etc.: New England—Maine, 1 (1-19); New Hampshire, 1 (1-19); Connecticut, 29 (250-499); East North Central—Ohio, 76 (2124); Indiana, 12 (498); Wisconsin, 26 (449); West North Central—Iowa, 4 (20-99); Missouri, 33 (464); South Dakota, 1 (1-19); Nebraska, 3 (1-19); Kansas, 4 (1-19); South Atlantic—Delaware, 1 (20-99); Virginia, 5 (20-99); North Carolina, 4 (20-99); South Carolina, 2 (20-99); Georgia, 4 (177); East South Central—Alabama, 8 (100-249); Mississippi, 1 (1-19); West South Central—Arkansas, 1 (1-19); Louisiana, 8 (100-249); Mountain—Idaho, 1 (1-19); Wyoming, 1 (1-19); New Mexico, 1 (1-19); Arizona, 5 (1-19); Utah, 2 (1-19); Pacific—Washington, 15 (20-99); Oregon, 15 (20-99).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.



TABLE 3. Detailed Statistics: 1963

| Item   | Screw machine products (SIC 3451) | Bolts, nuts, rivets, and washers (SIC 3452) | Metal stampings (SIC 3461) | Plating and polishing (SIC 3471) | Metal coating, engraving, etc. (SIC 3479) |
|--|-----------------------------------|---|----------------------------|----------------------------------|---|
| Primary product specialization ratio <sup>1</sup> .....        | .97                               | .92   | .84                        | ( <sup>2</sup> )                 | ( <sup>2</sup> )                          |
| Coverage ratio <sup>3</sup> .....                              | .90                               | .90   | .86                        | ( <sup>2</sup> )                 | ( <sup>2</sup> )                          |
| Establishments, total.....number..                             | 1,874                             | 573   | 2,574                      | 3,023                            | 1,258                                     |
| With 1 to 19 employees.....do....                              | 1,358                             | 250   | 1,458                      | 2,346                            | 982                                       |
| With 20 to 99 employees.....do....                             | 462                               | 188   | 818                        | 637                              | 245                                       |
| With 100 employees or more.....do....                          | 54                                | 135   | 298                        | 40                               | 31  |
| Proprietors and working partners.....do....                    | 979                               | 131   | 848                        | 1,816                            | 707                                       |
| All employees (average for the year).....do....                | 36,909                            | 57,618                                      | 132,179                    | 44,962                           | 20,669                                    |
| Payroll (all employees), total for year.....\$1,000..          | 213,172                           | 371,026                                     | 772,557                    | 223,504                          | 107,110                                   |
| Production workers:  |                                   |   |                            |                                  |   |
| Average for the year.....number..                              | 30,796                            | 43,972                                      | 108,336                    | 37,722                           | 17,113                                    |
| March.....do....   | 31,155                            | 44,544                                      | 108,483                    | 36,897                           | 16,760                                    |
| May.....do....   | 31,123                            | 43,544                                      | 107,494                    | 37,102                           | 17,267                                    |
| August.....do....  | 30,512                            | 43,275                                      | 106,634                    | 37,698                           | 17,358                                    |
| November.....do....  | 30,443                            | 44,566                                      | 110,880                    | 39,193                           | 17,428                                    |
| Man-hours.....1,000..  | 64,270                            | 92,502                                      | 222,005                    | 74,846                           | 34,998                                    |
| January-March.....do....                                       | 16,292                            | 23,584                                      | 54,312                     | 18,316                           | 8,220                                     |
| April-June.....do....  | 16,369                            | 23,481                                      | 55,702                     | 18,683                           | 8,882                                     |
| July-September.....do....                                      | 15,520                            | 21,941                                      | 53,768                     | 18,805                           | 8,927                                     |
| October-December.....do....                                    | 16,089                            | 23,496                                      | 58,223                     | 19,042                           | 8,969                                     |
| Wages.....\$1,000..  | 159,991                           | 257,477                                     | 567,309                    | 169,592                          | 79,136                                    |
| Cost of materials, etc., total.....do....                      | 232,878                           | 527,860                                     | 1,324,939                  | 148,320                          | 137,211                                   |
| Materials, parts, containers, and supplies consumed.....do.... | 183,688                           | 433,638                                     | 1,171,137                  | 114,865                          | 122,854                                   |
| Cost of resales.....do....                                     | 5,520                             | 44,854                                      | 51,023                     | 2,798                            | 2,547                                     |
| Fuels consumed.....do....                                      | 1,507                             | 5,458                                       | 11,704                     | 7,727                            | 4,283                                     |
| Electric energy:   |                                   |   |                            |                                  |   |
| Purchased:   |                                   |   |                            |                                  |   |
| Quantity.....million kw.-hrs..                                 | 198                               | 590   | 1,214                      | 721                              | 180                                       |
| Cost.....\$1,000..   | 4,261                             | 8,405                                       | 17,957                     | 12,738                           | 3,070                                     |
| Generated less sold.....million kw.-hrs..                      | (D)                               | (D)   | 24                         | 7                                | 1   |
| Contract work.....\$1,000..                                    | 37,902                            | 35,505                                      | 73,118                     | 10,192                           | 4,457                                     |
| Value of shipments (including resales), total.....do....       | 588,981                           | 1,218,247                                   | 2,678,996                  | 517,572                          | 322,139                                   |
| Value of resales.....do....                                    | 6,864                             | 54,232                                      | 66,129                     | 3,782                            | 7,189                                     |
| Value added by manufacture, adjusted.....do....                | 358,961                           | 695,276                                     | 1,368,993                  | 370,202                          | 184,546                                   |
| Manufacturers' inventories:                                    |                                   |   |                            |                                  |   |
| Beginning of year, total.....do....                            | 54,106                            | 214,688                                     | 336,751                    | 20,461                           | 24,834                                    |
| Finished products.....do....                                   | 12,158                            | 105,497                                     | 95,765                     | 2,878                            | 6,749                                     |
| Work-in-process.....do....                                     | 20,984                            | 35,031                                      | 88,313                     | 1,624                            | 4,017                                     |
| Materials, supplies, fuel, etc.....do....                      | 20,964                            | 74,160                                      | 152,673                    | 15,959                           | 14,068                                    |
| End of year, total.....do....                                  | 58,835                            | 222,167                                     | 360,833                    | 22,104                           | 27,450                                    |
| Finished products.....do....                                   | 14,431                            | 107,883                                     | 102,149                    | 3,625                            | 6,469                                     |
| Work-in-process.....do....                                     | 21,569                            | 37,534                                      | 96,865                     | 1,827                            | 3,915                                     |
| Materials, supplies, fuel, etc.....do....                      | 22,835                            | 76,750                                      | 161,819                    | 16,652                           | 17,066                                    |
| Expenditures for plant and equipment, total.....do....         | 24,209                            | 35,914                                      | 73,166                     | 22,786                           | 9,331                                     |
| New, total.....do....  | 18,676                            | 31,431                                      | 64,248                     | 20,032                           | 8,656                                     |
| New structures and additions to plant.....do....               | 3,891                             | 5,360                                       | 16,054                     | 4,814                            | 2,119                                     |
| New machinery and equipment.....do....                         | 14,785                            | 26,071                                      | 48,194                     | 15,218                           | 6,537                                     |
| Used plant and equipment.....do....                            | 5,533                             | 4,483                                       | 8,918                      | 2,754                            | 675                                       |
| Selected operating ratios:                                     |                                   |   |                            |                                  |   |
| Payroll/Total employment.....                                  | 5,776                             | 6,439                                       | 5,845                      | 4,971                            | 5,182                                     |
| Production workers/Total employment.....                       | .83                               | .76   | .82                        | .84                              | .83                                       |
| Man-hours/Production workers.....                              | 2,087                             | 2,104                                       | 2,049                      | 1,984                            | 2,045                                     |
| Production worker wages/Man-hours.....                         | 2.49                              | 2.78  | 2.59                       | 2.27                             | 2.26                                      |
| Cost of materials and payrolls/Total value of shipments.....   | .76                               | .74   | .78                        | .72                              | .76                                       |
| Cost of materials/Total value of shipments.....                | .40                               | .43   | .49                        | .29                              | .43                                       |
| Adjusted value added/Total employment.....                     | 9,726                             | 12,067                                      | 10,357                     | 8,234                            | 8,929                                     |
| Salaries and wages/Adjusted value added.....                   | .59                               | .53   | .56                        | .60                              | .58                                       |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>Relationship not meaningful because of the predominance of miscellaneous receipts, particularly receipts for contract and commission work on materials owned by others.

<sup>3</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3451.—SCREW MACHINE PRODUCTS           |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 1,874                 | 608                                | 328              | 422                | 346                | 116                | 46                   | 8                    | -                    | -                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                               | 36,909                | 1,057                              | 2,229            | 5,830              | 10,502             | 7,963              | 6,753                | 2,575                | -                    | -                        | -                        |
| Payroll.....\$1,000..                           | 213,172               | 5,452                              | 11,366           | 31,971             | 60,033             | 48,913             | 40,371               | 15,066               | -                    | -                        | -                        |
| Value added, adjusted.....do....                | 358,961               | 13,287                             | 20,293           | 56,402             | 105,075            | 78,041             | 61,632               | 24,231               | -                    | -                        | -                        |
| Value of shipments.....do.....                  | 588,981               | 21,695                             | 33,577           | 91,103             | 173,081            | 134,136            | 95,571               | 39,818               | -                    | -                        | -                        |
| Capital expenditures, new...do....              | 18,676                | 782                                | 1,171            | 2,533              | 5,395              | 3,609              | 2,991                | 2,195                | -                    | -                        | -                        |
| INDUSTRY 3452.—BOLTS, NUTS, RIVETS, AND WASHERS |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 573                   | 90                                 | 63               | 97                 | 123                | 65                 | 80                   | 25                   | 23                   | 6                        | 1                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                               | 57,618                | 182                                | 412              | 1,371              | 3,877              | 4,420              | 12,377               | 9,167                | 15,615               | <u>10,197</u>            | (D)                      |
| Payroll.....\$1,000..                           | 371,026               | 1,276                              | 2,407            | 7,636              | 23,834             | 27,946             | 76,303               | 61,025               | 101,650              | <u>68,949</u>            | (D)                      |
| Value added, adjusted.....do....                | 695,276               | 3,774                              | 6,052            | 14,410             | 49,518             | 58,900             | 146,223              | 119,659              | 186,071              | <u>110,669</u>           | (D)                      |
| Value of shipments.....do.....                  | 1,218,247             | 6,352                              | 11,697           | 30,004             | 96,059             | 116,533            | 278,275              | 197,610              | 304,646              | <u>177,071</u>           | (D)                      |
| Capital expenditures, new...do....              | 31,431                | 261                                | 775              | 966                | 3,364              | 2,530              | 9,367                | 4,570                | 5,815                | <u>3,783</u>             | (D)                      |
| INDUSTRY 3461.—METAL STAMPINGS                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 2,574                 | 577                                | 407              | 474                | 553                | 265                | 202                  | 65                   | 19                   | 11                       | 1                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                               | 132,179               | 1,118                              | 2,732            | 6,676              | 17,243             | 18,374             | 31,563               | 22,433               | 12,409               | <u>19,631</u>            | (D)                      |
| Payroll.....\$1,000..                           | 772,557               | 6,996                              | 13,736           | 35,330             | 97,725             | 105,312            | 177,532              | 130,595              | 76,263               | <u>129,068</u>           | (D)                      |
| Value added, adjusted.....do....                | 1,368,993             | 14,086                             | 28,542           | 63,442             | 166,820            | 184,470            | 309,134              | 233,602              | 118,725              | <u>250,172</u>           | (D)                      |
| Value of shipments.....do.....                  | 2,678,996             | 25,994                             | 45,995           | 118,363            | 303,546            | 352,695            | 613,575              | 490,631              | 255,180              | <u>473,017</u>           | (D)                      |
| Capital expenditures, new...do....              | 64,248                | 12,804                             | 1,217            | 2,494              | 7,669              | 8,355              | 11,912               | 11,951               | 8,310                | <u>9,536</u>             | (D)                      |
| INDUSTRY 3471.—PLATING AND POLISHING            |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 3,023                 | 1,148                              | 597              | 601                | 504                | 133                | 36                   | 4                    | -                    | -                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                               | 44,962                | 2,036                              | 4,027            | 8,433              | 15,376             | 9,024              | 4,973                | 1,093                | -                    | -                        | -                        |
| Payroll.....\$1,000..                           | 223,504               | 10,082                             | 19,280           | 41,751             | 76,785             | 45,694             | 23,948               | 5,964                | -                    | -                        | -                        |
| Value added, adjusted.....do....                | 370,202               | 18,568                             | 33,273           | 68,652             | 124,261            | 76,877             | 40,053               | 8,518                | -                    | -                        | -                        |
| Value of shipments.....do.....                  | 517,572               | 24,433                             | 44,110           | 91,892             | 171,920            | 112,238            | 59,729               | 13,250               | -                    | -                        | -                        |
| Capital expenditures, new...do....              | 20,032                | 1,082                              | 1,598            | 3,184              | 7,649              | 4,190              | 1,768                | 561                  | -                    | -                        | -                        |
| INDUSTRY 3479.—METAL COATING, ENGRAVING, ETC.   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 1,258                 | 548                                | 230              | 204                | 178                | 67                 | 25                   | 5                    | 1                    | -                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                               | 20,669                | 916                                | 1,510            | 2,729              | 5,321              | 4,606              | 3,498                | <u>2,089</u>         | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                           | 107,110               | 4,089                              | 6,971            | 13,168             | 27,058             | 24,035             | 19,717               | <u>12,072</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....                | 184,546               | 9,380                              | 12,311           | 23,403             | 45,457             | 42,678             | 31,385               | <u>19,932</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do.....                  | 322,139               | 12,993                             | 16,891           | 31,919             | 67,339             | 76,050             | 71,430               | <u>45,517</u>        | (D)                  | -                        | -                        |
| Capital expenditures, new...do....              | 8,656                 | 444                                | 541              | 942                | 1,991              | 2,189              | 1,537                | <u>1,012</u>         | (D)                  | -                        | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

<sup>1</sup>Includes capital expenditures of approximately \$1-\$2 million for plants under construction but not in operation.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                            | Value of shipments |                      |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|---|--------------------|----------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |   | Total              | Primary products     | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |   | (\$1,000)          | (\$1,000)            | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |   | A                  | B                    | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3451      | Screw machine products.....1963..<br>1958..         | 588,981            | 538,685              | 18,755             | 31,541                 | 97                                   | 599,424                            | 538,685               | 60,739                   | 90                            |
|           |   | 425,113            | 373,345              | 22,953             | 28,815                 | 94                                   | 428,805                            | 373,345               | 55,460                   | 87                            |
| 3452      | Bolts, nuts, rivets, and washers...1963..<br>1958.. | 1,218,247          | 1,058,382            | 92,019             | 67,846                 | 92                                   | 1,175,719                          | 1,058,382             | 117,337                  | 90                            |
|           |   | 880,328            | 754,705              | 72,061             | 53,562                 | 91                                   | 859,446                            | 754,705               | 104,741                  | 87                            |
| 3461      | Metal stampings.....1963..<br>1958..                | 2,678,996          | 2,134,816            | 410,369            | 133,811                | 84                                   | 2,483,666                          | 2,134,816             | 348,850                  | 86                            |
|           |   | 2,095,409          | 1,688,259            | 281,378            | 125,772                | 86                                   | 1,948,110                          | 1,694,528             | 253,582                  | 87                            |
| 3471      | Plating and polishing.....1963..<br>1958..          | 517,572            | <sup>1</sup> 501,949 | 10,269             | 5,354                  | ( <sup>1</sup> )                     | ( <sup>2</sup> )                   | 501,949               | ( <sup>2</sup> )         | ( <sup>2</sup> )              |
|           |   | 359,116            | <sup>1</sup> 349,686 | 4,419              | 5,011                  | ( <sup>1</sup> )                     | ( <sup>2</sup> )                   | 349,686               | ( <sup>2</sup> )         | ( <sup>2</sup> )              |
| 3479      | Metal coating, engraving, etc.....1963..<br>1958..  | 322,139            | <sup>1</sup> 286,484 | 22,600             | 13,055                 | ( <sup>1</sup> )                     | ( <sup>3</sup> )                   | 286,484               | ( <sup>3</sup> )         | ( <sup>3</sup> )              |
|           |   | 196,389            | <sup>1</sup> 184,050 | 8,930              | 3,409                  | ( <sup>1</sup> )                     | ( <sup>3</sup> )                   | 184,050               | ( <sup>3</sup> )         | ( <sup>3</sup> )              |

NOTE: See Introduction for an explanation of terms used.

<sup>1</sup>Specialization ratio is not meaningful because of the predominance of receipts for contract and commission work on materials owned by others. Such receipts are treated as primary products for this industry.

<sup>2</sup>Data on receipts for plating and polishing are not available for establishments classified outside industry 3471.

<sup>3</sup>Data on receipts for metal coating and engraving, etc. are not available for establishments classified outside industry 3479.





TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code | Class of products and miscellaneous receipts  | All industries | Metal stampings (SIC 3461) | Other industries | Prod. class code | Class of products and miscellaneous receipts   | All industries   | Metal stampings (SIC 3461) | Other industries |
|------------------|---|----------------|----------------------------|------------------|------------------|--|------------------|----------------------------|------------------|
|                  | METAL STAMPING INDUSTRY—Continued   |                |                            |                  |                  | METAL STAMPING INDUSTRY—Continued  |                  |                            |                  |
|                  | Secondary products—Continued  |                |                            |                  |                  | Miscellaneous receipts.....  | (X)              | 133,811                    | (X)              |
| 30794            | Packaging and shipping containers, plastics.....  | (X)            | 16,474                     | (X)              |                  | Receipts for contract work.....  | (X)              | 28,226                     | (X)              |
| 30798            | Consumer and commercial plastics products, n.e.c.....   | (X)            | 2,165                      | (X)              |                  | Scraps and salable refuse.....   | (X)              | 26,676                     | (X)              |
| 34291            | Transportation equipment hardware.....  | (X)            | 4,671                      | (X)              |                  | Resales.....   | (X)              | 66,129                     | (X)              |
| 34294            | Builders' hardware.....   | (X)            | 3,072                      | (X)              |                  | All other miscellaneous receipts..   | (X)              | 12,780                     | (X)              |
| 34295            | Other hardware.....   | (X)            | 5,380                      | (X)              |                  | Listing of other industries with over \$2 million shipments of each primary product class: |                  |                            |                  |
| 34310            | Metal plumbing fixtures.....  | (X)            | 11,078                     | (X)              | 34611            | 3522 Farm machinery and equipment.....   | (X)              | (X)                        | (over 2)         |
| 34320            | Plumbing fixtures, fittings and trim (brass goods).....   | (X)            | 4,654                      | (X)              | 34612            | 1929 Ammunition, n.e.c.....  | (X)              | (X)                        | (over 2)         |
| 34336            | Other heating equipment (except electric) and parts for non-electric heating equipment....                | (X)            | 3,270                      | (X)              | 34612            | 3069 Rubber products, n.e.c.....   | (X)              | (X)                        | (5-10)           |
| 34421            | Metal doors and frames (except storm doors).....  | (X)            | 3,643                      | (X)              | 34612            | 3312 Blast furnaces and steel mills.....   | (X)              | (X)                        | (10-20)          |
| 34432            | Fabricated steel plate, including stacks and weldments....  | (X)            | 2,009                      | (X)              | 34612            | 3352 Aluminum rolling and drawing  | (X)              | (X)                        | (over 2)         |
| 34441            | Sheet, metal roofing and siding, and roof drainage equipment....  | (X)            | 3,369                      | (X)              | 34612            | 3429 Hardware, n.e.c.....  | (X)              | (X)                        | 7,921            |
| 34443            | Other sheet metal work.....   | (X)            | 10,995                     | (X)              | 34612            | 3444 Sheetmetal work.....  | (X)              | (X)                        | 3,087            |
| 34510            | Screw machine products.....   | (X)            | 5,248                      | (X)              | 34612            | 3452 Bolts, nuts, rivets and washers.....  | (X)              | (X)                        | 2,745            |
| 34521            | Bolts, nuts, and other standard industrial fasteners.....   | (X)            | 2,958                      | (X)              | 34612            | 3481 Fabricated wire products, n.e.c.....  | (X)              | (X)                        | 5,762            |
| 34819            | Other fabricated wire products, not produced by wire drawers...   | (X)            | 2,865                      | (X)              | 34612            | 3499 Fabricated metal products, n.e.c.....   | (X)              | (X)                        | 2,226            |
| 34911            | Steel shipping pails (1 to 12 gallon capacity).....   | (X)            | 7,295                      | (X)              | 34612            | 3522 Farm machinery and equipment  | (X)              | (X)                        | (5-10)           |
| 34990            | Fabricated metal products, n.e.c.   | (X)            | 11,968                     | (X)              | 34612            | 3544 Special dies and tools.....   | (X)              | (X)                        | 11,074           |
| 35441            | Special dies and tools, die sets, jigs and fixtures.....  | (X)            | 65,923                     | (X)              | 34612            | 3569 General industry machines, n.e.c.....   | (X)              | (X)                        | (2-5)            |
| 35990            | Carburetors, pistons, and other machine shop products.....  | (X)            | 2,099                      | (X)              | 34612            | 3679 Electronic components, n.e.c.....   | (X)              | (X)                        | (2-5)            |
| 36343            | Other small household electric appliances.....  | (X)            | 31,133                     | (X)              | 34612            | 3717 Motor vehicles and parts...   | (X)              | (X)                        | 3,575            |
| 37175            | Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufacturers..... | (X)            | 12,287                     | (X)              | 34612            | 3993 Signs and advertising displays.....   | (X)              | (X)                        | (2-5)            |
|                  | Other secondary products.....   | (X)            | 194,816                    | (X)              | 34613            | 3312 Blast furnaces and steel mills.....   | (X)              | (X)                        | (over 2)         |
| 19291            | Ammunition over 30mm (or 1.18 inches and over), n.e.c.....  | (X)            | (over 2)                   | (X)              | 34613            | 3351 Copper rolling and drawing..  | (X)              | (X)                        | (over 2)         |
| 19990            | Ordnance and accessories, n.e.c.....  | (X)            | (2-5)                      | (X)              | 34613            | 3352 Aluminum rolling and drawing  | (X)              | (X)                        | (over 2)         |
| 24994            | Cork products.....  | (X)            | (5-10)                     | (X)              | 34613            | 3522 Farm machinery and equipment  | (X)              | (X)                        | (5-10)           |
| 25144            | Other metal household furniture.....  | (X)            | (5-10)                     | (X)              | 34613            | 3544 Special dies and tools.....   | (X)              | (X)                        | 3,261            |
| 26552            | Fiber cans, tubes and other fiber products.....   | (X)            | (over 2)                   | (X)              | 34613            | 3717 Motor vehicles and parts...   | (X)              | (X)                        | 82,540           |
| 30797            | Plastics dinnerware, tableware, and kitchenware.....  | (X)            | (10-20)                    | (X)              | 34613            | 3722 Aircraft engines and parts..  | (X)              | (X)                        | (2-5)            |
| 33176            | Steel pipe and tube (not made in steel mills).....  | (X)            | (2-5)                      | (X)              | 34615            | 1929 Ammunition, n.e.c.....  | (X)              | (X)                        | (over 2)         |
| 33920            | Nonferrous forgings.....  | (X)            | (5-10)                     | (X)              | 34615            | 3411 Metal cans.....   | (X)              | (X)                        | (over 2)         |
| 34110            | Metal cans.....   | (X)            | (10-20)                    | (X)              | 34616            | 2655 Fiber cans, tubes, drums, etc.....  | (X)              | (X)                        | (over 2)         |
| 34231            | Mechanics' hand service tools.  | (X)            | (2-5)                      | (X)              | 34617            | 3411 Metal cans.....   | (X)              | (X)                        | (over 2)         |
| 34232            | Edge tools.....   | (X)            | (2-5)                      | (X)              | 34618            | 2542 Metal partitions and fixtures.....  | (X)              | (X)                        | (2-5)            |
| 34413            | Other fabricated structural iron and steel.....   | (X)            | (2-5)                      | (X)              | 34618            | 3312 Blast furnaces and steel mills.....   | (X)              | (X)                        | (10-20)          |
| 34912            | Steel shipping barrels and drums (over 12 gallon capacity), except beer barrels.....                      | (X)            | (2-5)                      | (X)              | 34618            | 3443 Boiler shop products.....   | (X)              | (X)                        | (2-5)            |
| 34913            | All other metal barrels, including beer barrels and fluid milk shipping containers.....                   | (X)            | (2-5)                      | (X)              | 34618            | 3444 Sheet metal work.....   | (X)              | (X)                        | 2,737            |
| 37130            | Truck and bus bodies, for sale separately (including those made on purchased chassis)...                  | (X)            | (2-5)                      | (X)              | 34618            | 3481 Fabricated wire products, n.e.c.....  | (X)              | (X)                        | (2-5)            |
| 37224            | Aircraft engine parts and accessories.....  | (X)            | (5-10)                     | (X)              | 34618            | 3634 Electric housewares and fans  | (X)              | (X)                        | 6,371            |
| 39410            | Games and toys, except dolls and childrens' vehicles.....   | (X)            | (2-5)                      | (X)              | 34618            | 3717 Motor vehicles and parts...   | (X)              | (X)                        | (over 2)         |
| 39642            | Needles, pins, fasteners (except slide) and similar notions.....  | (X)            | (10-20)                    | (X)              | 34618            | 3821 Mechanical measuring devices  | (X)              | (X)                        | (2-5)            |
|                  |   |                |                            |                  | 34618            | 3822 Automatic temperature controls.....   | (X)              | (X)                        | (over 2)         |
|                  |   |                |                            |                  | 34618            | 3964 Needles, pins and fasteners.  | (X)              | (X)                        | (over 2)         |
|                  |   |                |                            |                  |                  | PLATING AND POLISHING INDUSTRY   |                  |                            |                  |
|                  |   |                |                            |                  |                  | Total shipments and receipts of the industry.....  | (X)              | 517,572                    | (X)              |
|                  |   |                |                            |                  | 34710            | Electroplating, plating and polishing.....   | ( <sup>1</sup> ) | 501,949                    | ( <sup>1</sup> ) |
|                  |   |                |                            |                  |                  | Secondary products.....  | (X)              | 10,269                     | (X)              |
|                  |   |                |                            |                  |                  | Miscellaneous receipts.....  | (X)              | 25,354                     | (X)              |
|                  |   |                |                            |                  |                  | Resales.....   | (X)              | 3,782                      | (X)              |
|                  |   |                |                            |                  |                  | Other.....   | (X)              | 1,572                      | (X)              |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code | Class of products and miscellaneous receipts      | All industries   | Metal coating, engraving, etc. (SIC 3479) | Other industries | Prod. class code | Class of products and miscellaneous receipts       | All industries | Metal coating, engraving, etc. (SIC 3479) | Other industries |
|------------------|---|------------------|---|------------------|------------------|--|----------------|---|------------------|
|                  | METAL COATING, ENGRAVING, ETC., INDUSTRY          |                  |   |                  |                  | METAL COATING, ENGRAVING, ETC., INDUSTRY—Continued |                |   |                  |
|                  | Total shipments and receipts of the industry..... | (X)              | 322,139                                   | (X)              |                  | Miscellaneous receipts.....                        | (X)            | <sup>2</sup> 13,055                       | (X)              |
| 34790            | Metal coating and engraving, n.e.c.....           | ( <sup>3</sup> ) | 286,484                                   | ( <sup>3</sup> ) |                  | Resales.....                                       | (X)            | 7,189                                     | (X)              |
|                  | Secondary products.....                           | (X)              | 22,600                                    | (X)              |                  | Scrap and salable refuse.....                      | (X)            | 1,227                                     | (X)              |
|                  |   |                  |   |                  |                  | Other.....   | (X)            | 4,639                                     | (X)              |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Data on receipts for electroplating, plating and polishing not available for establishments classified outside the Plating and Polishing Industry.

<sup>2</sup>Does not include receipts for contract work on materials owned by others. These receipts are included in the primary products of the industry.

<sup>3</sup>Data on receipts for coating and engraving on metal are not available for establishments classified outside the Metal Coating, Engraving, etc., Industry.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Value of shipments including interplant transfers (\$1,000) |                 |          |                 |         |        |
|--------------|---|---|-----------------|----------|-----------------|---------|--------|
|              |   | 1963  | 1958            |          |                 |         |        |
| 3451- --     | SCREW MACHINE PRODUCTS, TOTAL.....  | 599,424   | 428,805         |          |                 |         |        |
| 34510 12     | Automotive.....   | 116,477   | 77,298          |          |                 |         |        |
| 34510 22     | Aircraft and ordnance.....  | 79,716  | 54,497          |          |                 |         |        |
| 34510 42     | Household appliances, including radio and television.....   | 43,947  | 37,880          |          |                 |         |        |
| 34510 62     | Machinery.....  | 55,442  | 36,537          |          |                 |         |        |
| 34510 98     | All other screw machine products.....   | 218,316   | 138,652         |          |                 |         |        |
| 34510 00     | Screw machine products, n.s.k.....  | 85,526  | 83,941          |          |                 |         |        |
|              |   | Total shipments including interplant transfers              |                 |          |                 |         |        |
| Product      | Unit of measure   | 1963  |                 | 1958     |                 |         |        |
|              |   | Quantity  | Value (\$1,000) | Quantity | Value (\$1,000) |         |        |
| 3452- --     | BOLTS, NUTS, RIVETS, AND WASHERS, TOTAL.....  | (X)   | 1,175,719       | (X)      | 859,446         |         |        |
| 34521 --     | Standard industrial fasteners (bolts, nuts, screws, etc.).....  | (X)   | 843,037         | (X)      | 669,560         |         |        |
|              | Bolts, threaded rods, lag screws, and studs, including nuts when nuts and bolts are sold as a unit:   |   |                 |          |                 |         |        |
| 34521 01     | Standard hex, square, and 12-point bolts and screws.....  | 1,000 lbs.....  | 259,790         | 59,636   | 741,791         | 193,090 |        |
| 34521 03     | Standard round head bolts (carriage, elevator, step, plow and track).....   | do.....   | 281,364         | 60,948   |                 |         |        |
| 34521 05     | Lag screws and bolts.....   | do.....   | 68,022          | 16,226   |                 |         |        |
| 34521 07     | Studs, threaded rods, and threaded wires.....   | do.....   | 122,734         | 46,876   |                 |         |        |
| 34521 09     | Aircraft bolts.....   | do.....   | 5,819           | 20,628   |                 |         |        |
|              | Nuts:   |   |                 |          |                 |         |        |
| 34521 13     | Standard nuts (hexagon, or square, regular, heavy, or jam, finished, semifinished or unfinished, including slotted or castle) (exclude sheet metal nuts)..... | do.....   | 221,056         | 69,960   | 127,252         | 49,127  |        |
|              | Locknuts (exclude sheet metal nuts):  |   |                 |          |                 |         |        |
| 34521 15     | Aircraft.....   | do.....   | 14,938          | 32,813   | (NA)            | 19,875  |        |
| 34521 17     | Commercial (except aircraft).....   | do.....   | 27,927          | 17,005   | 26,482          | 16,486  |        |
| 34521 18     | Sheet metal nuts, including push-on, "J" and "U" type slip-on cage, anchor, and locknuts, nut retainers, etc.....   | do.....   | 25,342          | 18,242   | 48,058          | 26,923  |        |
| 34521 19     | Other nuts, including machine screw and stove bolt nuts, wing nuts, etc.....  | do.....   | 53,631          | 33,495   |                 |         |        |
|              | Screws:   |   |                 |          |                 |         |        |
| 34521 23     | Cap and set screws, hexagon head, 1/4" diameter and larger....  | 1,000 pieces..  | 3,638,634       | 73,654   | 1,980,573       | 48,422  |        |
| 34521 25     | Other cap and set screws.....   | do.....   | 854,630         | 35,471   | 820,608         | 36,226  |        |
| 34521 33     | Machine screws, including stove bolts.....  | do.....   | 13,734,162      | 65,512   | 13,410,495      | 59,465  |        |
| 34521 36     | Tapping screws (thread forming and thread cutting screws, including sheet metal and hardened metallic drive screws)....                                       | do.....   | 13,594,107      | 55,433   | 9,706,451       | 34,722  |        |
| 34521 38     | Wood screws (except wood drive screws).....   | 1,000 gross..   | 40,890          | 18,861   | 59,632          | 26,773  |        |
| 34521 39     | Other screws.....   | do.....   | (X)             | 24,466   |                 |         |        |
|              | Washers:  |   |                 |          |                 |         |        |
| 34521 45     | Spring, spiral and other lock.....  | 1,000 pieces..  | 11,079,368      | 24,909   | 7,801,492       | 17,147  |        |
| 34521 49     | Flat and other.....   | 1,000 lbs.....  | (NA)            | 30,404   | 94,706          | 18,732  |        |
|              | Rivets:   |   |                 |          |                 |         |        |
| 34521 51     | Aircraft rivets.....  | do.....   | (NA)            | 13,403   | (X)             | 19,457  |        |
| 34521 53     | 7/16" and under (other than aircraft).....  | 1,000 lbs.....  | 125,227         | 41,930   | 103,851         | 27,131  |        |
| 34521 57     | 1/2" and over (other than aircraft).....  | do.....   | 73,820          | 11,975   | 84,968          | 12,919  |        |
| 34521 81     | Pins (aircraft, straight, dowel, clevis, cotter and miscellaneous patent).....  | do.....   | (X)             | 19,436   | (X)             | 9,185   |        |
| 34521 98     | Other standard fasteners, including toggle bolts, etc.....  | do.....   | (X)             | 32,561   | (X)             | 24,386  |        |
| 34521 00     | Bolts, nuts, screws, rivets, etc., n.s.k.....   | do.....   | (X)             | 19,193   | (X)             | 29,494  |        |
| 34522 15     | Special industrial fasteners (nonstandard).....   | do.....   | (X)             | 241,539  | (X)             | 179,392 |        |
| 34523 --     | Headed products (produced by cold and hot heading) other than industrial fasteners.....   | do.....   | (X)             | 76,676   | (X)             |         |        |
|              | Other headed products:  |   |                 |          |                 |         |        |
| 34523 12     | Automotive.....   | do.....   | (X)             | 43,043   | (X)             |         |        |
| 34523 22     | Aircraft and ordnance.....  | do.....   | (X)             | 6,474    | (X)             |         |        |
| 34523 42     | Household appliances, including radio and television.....   | do.....   | (X)             | 9,772    | (X)             |         |        |
| 34523 62     | Machinery.....  | do.....   | (X)             | 1,267    | (X)             |         |        |
| 34523 98     | All other end uses.....   | do.....   | (X)             | 16,120   | (X)             |         |        |
| 34520 00     | Bolts, nuts, rivets, and washers, n.s.k.....  | do.....   | (X)             | 14,467   | (X)             |         | 10,494 |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure | Total shipments including interplant transfers |                 |          |                  |
|--------------|--|-----------------|--|-----------------|----------|------------------|
|              |  |                 | 1963   |                 | 1958     |                  |
|              |  |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000)  |
| 3461- --     | METAL STAMPINGS, TOTAL.....  |                 | (X)  | 2,483,666       | (X)      | 1,948,110        |
| 34611 --     | Vitreous-enameled products.....  |                 | (X)  | 170,144         | (X)      | 172,453          |
| 34611 11     | Cooking and kitchen utensils, including household, commercial, and hospital.....   |                 | (X)  | 23,582          | (X)      | 21,707           |
| 34611 41     | Architectural vitreous (porcelain) parts (exterior and interior), including store front and curtain wall components..... |                 | (X)  | 23,042          | (X)      | 16,954           |
| 34611 75     | Laundry equipment parts (sold separately).....   |                 | (X)  | 7,692           | (X)      | 28,754           |
| 34611 98     | Other vitreous (porcelain) enameled products, including refrigerator parts.....  |                 | (X)  | 15,828          | (X)      | 22,754           |
| 34611 00     | Vitreous enameled products, n.s.k.....   |                 | (X)  | -               | (X)      | 2,284            |
| 34612 --     | Job stampings, except automotive <sup>3</sup> .....  |                 | (X)  | 756,745         | (X)      | 576,178          |
| 34612 11     | Aviation stamps.....   |                 | (X)  | 19,804          | (X)      | 29,945           |
| 34612 15     | Agricultural equipment stampings, including tractor.....   |                 | (X)  | 22,045          | (X)      | 28,568           |
| 34612 25     | Electrical appliance stampings (except refrigeration and laundry equipment).....   |                 | (X)  | 56,853          | (X)      | 450,496          |
| 34612 31     | Furniture stampings.....   |                 | (X)  | 16,388          | (X)      | 14,397           |
| 34612 41     | Office machine stampings.....  |                 | (X)  | 25,486          | (X)      | 14,445           |
| 34612 51     | Radio and television stampings.....  |                 | (X)  | 91,394          | (X)      | 73,914           |
| 34612 61     | Refrigerator stampings.....  |                 | (X)  | 52,078          | (X)      | 43,392           |
| 34612 71     | Stove, heater, and air-conditioner stampings.....  |                 | (X)  | 29,094          | (X)      | 21,462           |
| 34612 84     | Laundry equipment stampings.....   |                 | (X)  | 16,670          | (X)      | 23,150           |
| 34612 98     | Other job stampings.....   |                 | (X)  | 388,426         | (X)      | 231,336          |
| 34612 00     | Job stampings, except automotive, n.s.k.....   |                 | (X)  | 38,507          | (X)      | 45,073           |
| 34613 13     | Automotive job stampings (truck, bus, and passenger car) <sup>3</sup> .....  |                 | (X)  | 848,076         | (X)      | 551,179          |
| 34614 --     | Stamped and spun hospital utensils, and cooking and kitchen household utensils, aluminum.....                            |                 | (X)  | 95,667          | (X)      | 110,710          |
| 34614 02     | Cooking and kitchen utensils: Household pressure cookers.....  |                 | (X)  | 88,153          | (X)      | 96,875           |
| 34614 03     | Other household utensils.....  |                 | (X)  | 7,514           | (X)      | 13,835           |
| 34614 05     | Commercial and hospital.....   |                 | (X)  | 7,514           | (X)      | 13,835           |
| 34615 --     | Stamped and spun commercial and hospital utensils and cooking and kitchen household utensils, except aluminum.....       |                 | (X)  | 134,321         | (X)      | 113,481          |
| 34615 11     | Stainless steel: Household.....  |                 | (X)  | 54,648          |          |                  |
| 34615 12     | Commercial and hospital.....   |                 | (X)  | 17,912          |          |                  |
| 34615 16     | Tinware.....   |                 | (X)  | 26,689          | (X)      | 113,481          |
| 34615 98     | Other metal.....   |                 | (X)  | 27,934          |          |                  |
| 34615 00     | Stamped and spun hospital utensils and cooking and kitchen utensils, n.s.k.....  |                 | (X)  | 7,138           |          |                  |
| 34616 --     | Metal commercial closures, except crowns.....  |                 | (X)  | 147,943         | (X)      | 131,133          |
| 34616 11     | Screw thread and lug types (nonvacuum) (for glass containers): <sup>5</sup> Aluminum.....                                | 1,000 units...  |  | 1,940,600       |          | 13,808           |
| 34616 31     | Tin mill.....  | do.....         |  | 7,126,673       |          | 49,986           |
| 34616 40     | Other metal commercial closures, including vacuum types, aluminum and tin mill (for glass containers).....               | do.....         |  | 6,853,541       |          | 45,880           |
| 34616 47     | Metal commercial closures for metal and plastic containers.....  | do.....         |  | 1,070,480       |          | 11,284           |
| 34616 51     | Milk bottle closures (aluminum and tin mill only).....   | do.....         |  | (NA)            |          | (NA)             |
| 34616 00     | Metal commercial closures (except crowns), n.s.k.....  |                 |  | 13,384          |          | 10,175           |
| 34617 11     | Metal crowns for glass and metal containers <sup>5</sup> .....   | 1,000 gross...  |  | 319,309         |          | 80,751           |
| 34618 --     | Other stamped and pressed metal end products.....  |                 | (X)  | 250,679         | (X)      | 223,271          |
| 34618 31     | Metal home canning closures: <sup>5</sup> Tin mill products: Metal lids.....   | 1,000 gross...  |  | 7,657           |          | 12,114           |
| 34618 11     | Metal screw bands.....   | do.....         |  | 2,439           |          | 5,655            |
| 34618 49     | Other home canning closures.....   | do.....         |  | 3,874           |          | ( <sup>6</sup> ) |
| 34618 59     | Perforated metal end products.....   |                 | (X)  | 17,050          | (X)      | 14,814           |
| 34618 61     | Pails, ash cans, garbage cans, tubs, etc., excluding shipping containers: Galvanized steel.....                          |                 | (X)  | 39,700          | (X)      | 32,219           |
| 34618 69     | Other metal, including other grades of steel.....  |                 | (X)  | 10,669          | (X)      | 7,911            |
| 34618 98     | Other stamped and pressed metal end products.....  |                 | (X)  | 161,657         | (X)      | 6147,713         |
| 34618 00     | Other stamped and pressed metal end products, n.s.k.....   |                 | (X)  | 7,996           | (X)      | 2,845            |
| 34610 00     | Metal stampings, n.s.k.....  |                 | (X)  | 98,114          | (X)      | 88,954           |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure | Total shipments including interplant transfers |                 |          |                 |
|--------------|--|-----------------|--|-----------------|----------|-----------------|
|              |  |                 | 1963   |                 | 1958     |                 |
|              |  |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 34710-11     | ELECTROPLATING, PLATING AND POLISHING <sup>7</sup> ..... |                 | (X)  | 501,949         | (X)      | 349,686         |
| 34790 --     | METAL COATING AND ENGRAVING, N.E.C.....                  |                 | (X)  | 286,484         | (X)      | 184,050         |
| 34790 11     | Engraving on metal <sup>7</sup> .....                    |                 | (X)  | 37,456          | }        | (X)             |
| 34790 31     | Galvanizing and other hot dip coating <sup>7</sup> ..... |                 | (X)  | 52,569          |          |                 |
| 34790 51     | Enameling, japanning, and lacquering <sup>7</sup> .....  |                 | (X)  | 140,101         |          |                 |
| 34790 00     | Metal coating and engraving, n.s.k. <sup>7</sup> .....   |                 | (X)  | 56,358          |          |                 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Data are limited to vitreous-enameled products produced from materials owned by the producing company. Data do not include the value of receipts for enameling work done on materials owned by others (enameling of products for the trade).

<sup>2</sup>Data are limited to washing machine parts (sold separately).

<sup>3</sup>"Job stampings" are mainly parts which are sold to other manufacturers for incorporation into their own products. Job stampings may be made from materials owned by the establishment or from materials owned by the customer. These figures represent only those stampings made from materials owned by the establishment performing the stamping operation.

<sup>4</sup>Data represent electrical appliance stampings (except refrigeration and washing machines).

<sup>5</sup>Figures for 1963 and 1958 as reported on Monthly Survey M34H, "Closures for Containers", are as follows:

| Product   | Unit of measure | Quantity of shipments including interplant transfers |             |
|---|-----------------|--|-------------|
|   |                 | 1963   | 1958        |
| Metal commercial closures for glass containers:   |                 |  |             |
| Aluminum screw thread and lug type.....   | 1,000 units...  | 1,913,304  | 1,973,869   |
| Tin mill screw thread and lug type.....   | ...do.....      | 7,280,227  | 7,776,361   |
| Vacuum types, aluminum and tin.....   | ...do.....      | } 6,553,092  | { 4,301,953 |
| Other types, aluminum and tin mill.....   | ...do.....      |  |             |
| Metal closures for metal and plastic containers.....  | ...do.....      | 1,103,215  | (NA)        |
| Crowns.....   | 1,000 gross...  | 315,771  | 306,765     |
| Home canning closures for glass containers, total.....  | ...do.....      | 9,991  | 14,382      |
| Tin mill products:  |                 |  |             |
| Metal lids.....   | ...do.....      | } 7,648  | { 10,435    |
| Metal screw bands.....  | ...do.....      |  |             |
| Other home canning closures, including zinc screw caps and bands (one-piece), glass lids, shoulder seal jar rings, top seal jar rings and other type home canning closures..... | ...do.....      | 2,343  | 942         |

(NA) Not available.

<sup>6</sup>For 1958 product code 3461849 is combined with product code 3461898.

<sup>7</sup>Value consists principally of receipts for work done on materials owned by others. The value represents only work done by establishments classified in the industry to which the product (service) is primary.



TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year   | Indexes (1954 = 100) |                  |
|--------------|--|----------------------|------------------|
|              |  | Production           | Unit value       |
| 345--        | Screw machine products, bolts, etc.....1963..                        | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | 1958..   | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 3451-        | Screw machine products.....1963..                                    | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | 1958..   | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 3452-        | Bolts, nuts, rivets, and washers <sup>2</sup> .....1963..            | 137                  | 124              |
|              | 1958..   | 99                   | 123              |
| 34521        | Standard industrial fasteners (bolts, nuts, screws, etc.).....1963.. | 118                  | 124              |
|              | 1958..   | 95                   | 123              |
| 3461-        | Metal stampings.....1963..   | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | 1958..   | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 34616        | Metal commercial closures except crowns.....1963..                   | 134                  | 114              |
|              | 1958..   | 124                  | 111              |
| 34617        | Metal crowns for glass and metal containers.....1963..               | 96                   | 108              |
|              | 1958..   | 94                   | 110              |
| 347--        | Metal services, n.e.c.....1963..                                     | ( <sup>3</sup> )     | ( <sup>3</sup> ) |
|              | 1958..   | ( <sup>3</sup> )     | ( <sup>3</sup> ) |

n.e.c. Not elsewhere classified.

<sup>1</sup>Not shown because comparable quantity data were not obtained for a significant portion of these products.

<sup>2</sup>Adjusted to include special industrial fasteners (product class 34522) and headed products produced by cold and hot heading, other than industrial fasteners (product class 34523).

<sup>3</sup>Not applicable to these service industries--namely, plating and polishing (industry 3471) and metal coating, engraving, etc. (industry 3479).

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class  | 1963      | 1962 <sup>1</sup>    | 1961 <sup>1</sup>    | 1960 <sup>1</sup>    | 1959 <sup>1</sup>    | 1958                 | 1954                 | 1947      |
|-------|--|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------|
| 34510 | Screw machine products.....  | 599,424   | 536,516              | 469,938              | 492,244              | 518,091              | 428,805              | 424,762              | 226,536   |
| 3452- | Bolts, nuts, rivets, and washers.....  | 1,175,719 | 1,097,212            | 949,800              | 1,005,919            | 1,081,218            | 859,446              | 706,392              | 483,492   |
| 34521 | Bolts, nuts, and other standard industrial fasteners.....  | 843,037   | 787,455              | 695,972              | 745,592              | 818,860              | 669,560              | 568,728              | 446,701   |
| 34522 | Special industrial fasteners (nonstandard). Headed products (produced by cold and hot heading), other than industrial fasteners. | 241,539   | <sup>2</sup> 274,326 | <sup>2</sup> 230,769 | <sup>2</sup> 236,914 | <sup>2</sup> 239,011 | <sup>2</sup> 179,392 | <sup>2</sup> 137,664 | (NA)      |
| 34523 | Headed products (produced by cold and hot heading), other than industrial fasteners.   | 76,676    | ( <sup>2</sup> )     | ( <sup>2</sup> )     | ( <sup>2</sup> )     | ( <sup>2</sup> )     | ( <sup>2</sup> )     | ( <sup>2</sup> )     | (NA)      |
| 34520 | Bolts, nuts, rivets, and washers, n.s.k....  | 14,467    | (35,421)             | (23,059)             | (23,413)             | (23,347)             | 10,494               | -                    | -         |
| 3461- | Metal stampings.....   | 2,483,666 | 2,384,119            | 2,159,616            | 2,294,710            | 2,327,353            | 1,948,110            | 1,699,902            | 1,254,424 |
| 34611 | Vitreous enameled products.....  | 70,144    | 72,465               | 73,598               | 72,085               | 75,808               | 72,453               | 67,138               | 76,359    |
| 34612 | Job stampings, except automotive.....  | 756,745   | 702,538              | 625,394              | 639,764              | 683,796              | 576,178              | 510,422              | 341,966   |
| 34613 | Job stampings, automotive.....   | 848,076   | 738,359              | 620,268              | 743,622              | 707,857              | 551,179              | 474,349              | 401,041   |
| 34614 | Stamped and spun hospital utensils and cooking and kitchen household utensils, aluminum.....                                     | 95,667    | 107,244              | 104,218              | 111,519              | 116,890              | 110,710              | 92,517               | 155,127   |
| 34615 | Stamped and spun hospital utensils and cooking and kitchen household utensils, except aluminum.....                              | 134,321   | 125,307              | 122,650              | 120,409              | 142,853              | 113,481              | 108,385              |           |
| 34616 | Metal commercial closures, except crowns...  | 147,943   | 154,097              | 145,455              | 143,012              | 138,144              | 131,133              | 94,949               | 45,918    |
| 34617 | Crowns.....  | 81,977    | 83,685               | 84,679               | 79,083               | 88,333               | 80,751               | 78,443               | 60,429    |
| 34618 | Other stamped and pressed metal end products.....  | 250,679   | 265,284              | 244,829              | 242,112              | 233,977              | 223,271              | 246,513              | 138,884   |
| 34610 | Metal stampings, n.s.k.....  | 98,114    | (135,140)            | (138,525)            | (143,104)            | (139,695)            | 88,954               | 27,186               | 34,710    |
| 34710 | Electroplating, plating and polishing <sup>3</sup> .....   | 501,949   | 447,153              | 411,372              | 394,141              | 393,788              | 349,686              | 296,408              | 172,475   |
| 34790 | Coating, engraving, and allied services, n.e.c. <sup>3</sup> .....   | 286,484   | 270,368              | 228,073              | 249,133              | 228,839              | 184,050              | 95,910               | 60,828    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Data for product class 34523, Headed products (produced by cold and hot heading) other than industrial fasteners, are included with product class 34522, Special industrial fasteners (nonstandard).

<sup>3</sup>Represents only work done by establishments classified in the industry to which the product (service) is primary.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area   | Value of shipments |                  | Product class and geographic area        | Value of shipments |                  | Product class and geographic area   | Value of shipments |                  |
|---|--------------------|------------------|--|--------------------|------------------|---|--------------------|------------------|
|   | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |
| BOLTS, NUTS, AND OTHER STANDARD INDUSTRIAL FASTENERS (34521)                                |                    |                  | VITREOUS-ENAMELED PRODUCTS (34611)       |                    |                  | JOB STAMPINGS, AUTOMOTIVE (34613)—Continued   |                    |                  |
| United States, total.....   | 843,037            | 669,560          | United States, total....                 | 70,144             | 72,453           | East North Central.....   | 640,729            | 429,546          |
| New England.....  | 80,813             | 85,357           | New England.....                         | 1,321              | 1,677            | Ohio.....   | 152,817            | 80,636           |
| Massachusetts.....  | 38,016             | 33,101           | Middle Atlantic.....                     | 26,403             | 21,130           | Indiana.....  | 73,366             | 44,374           |
| Connecticut.....  | 29,853             | 40,765           | New York.....                            | 9,093              | ( <sup>2</sup> ) | Illinois.....   | 27,286             | 26,170           |
| Middle Atlantic.....  | 207,154            | 167,668          | Pennsylvania.....                        | 17,310             | 14,802           | Michigan.....   | 371,609            | 265,791          |
| New York.....   | 43,681             | 42,910           | North Central.....                       | 25,236             | ( <sup>2</sup> ) | Wisconsin.....  | 15,661             | 12,575           |
| New Jersey.....   | 59,507             | 31,386           | Indiana.....                             | 5,828              | ( <sup>2</sup> ) | West North Central.....   | 2,366              | ( <sup>2</sup> ) |
| Pennsylvania.....   | 103,966            | 93,372           | Illinois.....                            | 7,857              | 11,929           | South.....  | 77,529             | ( <sup>2</sup> ) |
| East North Central.....   | 409,156            | 305,148          | South.....                               | 14,889             | ( <sup>2</sup> ) | Kentucky.....   | 3,345              | ( <sup>2</sup> ) |
| Ohio.....   | 108,670            | 94,907           | Tennessee.....                           | 6,233              | ( <sup>2</sup> ) | West.....   | 6,498              | ( <sup>2</sup> ) |
| Indiana.....  | 44,156             | 36,592           | Pacific.....                             | 2,295              | 2,157            | California.....   | 6,271              | ( <sup>2</sup> ) |
| Illinois.....   | 173,407            | 124,538          | JOB STAMPINGS, EXCEPT AUTOMOTIVE (34612) |                    |                  | STAMPED AND SPUN HOSPITAL UTENSILS, AND COOKING AND KITCHEN HOUSEHOLD UTENSILS, ALUMINUM (34614)        |                    |                  |
| Michigan.....   | 69,021             | 39,347           | United States, total....                 | 756,745            | 576,178          | United States, total....  | 95,667             | 110,710          |
| Wisconsin.....  | 13,902             | 9,764            | New England.....                         | 74,435             | 60,960           | Middle Atlantic.....  | 23,377             | 30,088           |
| West North Central.....   | 18,097             | 15,323           | Massachusetts.....                       | 24,850             | 19,601           | New York.....   | 2,822              | 3,051            |
| South Atlantic.....   | 33,689             | 17,125           | Rhode Island.....                        | 6,282              | 3,487            | East North Central.....   | 64,082             | 71,855           |
| East South Central.....   | 18,032             | 14,093           | Connecticut.....                         | 41,930             | 37,329           | Wisconsin.....  | 52,302             | 57,194           |
| West South Central.....   | 6,793              | 6,058            | Middle Atlantic.....                     | 179,903            | 157,860          | All other divisions.....  | 8,208              | ( <sup>2</sup> ) |
| West.....   | 69,303             | 58,788           | New York.....                            | 81,721             | 70,325           | STAMPED AND SPUN HOSPITAL UTENSILS, AND COOKING AND KITCHEN HOUSEHOLD UTENSILS, EXCEPT ALUMINUM (34615) |                    |                  |
| California.....   | 61,792             | ( <sup>2</sup> ) | New Jersey.....                          | 54,511             | 40,659           | United States, total...   | 134,321            | 113,481          |
| SPECIAL INDUSTRIAL FASTENERS (NONSTANDARD) (34522)  |                    |                  | Pennsylvania.....                        | 43,671             | 46,876           | New England.....  | 1,026              | 2,672            |
| United States, total.....   | 241,539            | 179,392          | East North Central.....                  | 374,915            | 273,994          | Middle Atlantic.....  | 26,129             | 38,080           |
| New England.....  | 27,644             | 21,104           | Ohio.....                                | 119,627            | 81,633           | New York.....   | 22,431             | 30,350           |
| Connecticut.....  | 9,418              | ( <sup>2</sup> ) | Indiana.....                             | 24,979             | 20,390           | East North Central.....   | 90,458             | 55,789           |
| Middle Atlantic.....  | 34,263             | 31,947           | Illinois.....                            | 149,758            | 109,446          | Ohio.....   | 20,390             | 11,041           |
| New York.....   | 8,730              | 4,424            | Michigan.....                            | 43,773             | 31,366           | Illinois.....   | 33,338             | 27,109           |
| New Jersey.....   | 4,832              | 4,965            | Wisconsin.....                           | 36,778             | 31,159           | Wisconsin.....  | 32,867             | 15,098           |
| Pennsylvania.....   | 20,701             | 22,558           | West North Central.....                  | 37,437             | 29,066           | West North Central.....   | 4,437              | 2,673            |
| North Central.....  | 152,348            | 104,309          | Minnesota.....                           | 18,327             | 11,570           | Minnesota.....  | 2,567              | ( <sup>2</sup> ) |
| Ohio.....   | 81,238             | 42,638           | Missouri.....                            | 9,545              | 9,197            | South.....  | 7,796              | ( <sup>2</sup> ) |
| Illinois.....   | 43,814             | 32,742           | South Atlantic.....                      | 11,996             | 10,319           | West.....   | 4,475              | ( <sup>2</sup> ) |
| Michigan.....   | 25,337             | 25,296           | West Virginia.....                       | 5,880              | 5,549            | California.....   | 3,102              | 6,407            |
| South.....  | 2,933              | 1,015            | North Carolina.....                      | 3,348              | 1,669            | METAL COMMERCIAL CLOSURES, EXCEPT CROWNS (34616)  |                    |                  |
| Pacific.....  | 24,351             | 21,017           | Florida.....                             | 1,152              | ( <sup>2</sup> ) | United States, total...   | 147,943            | 131,133          |
| HEADED PRODUCTS (PRODUCED BY COLD AND HOT HEADING), OTHER THAN INDUSTRIAL FASTENERS (34523) |                    |                  | East South Central.....                  | 28,261             | 13,942           | Middle Atlantic.....  | 49,599             | 40,946           |
| United States, total.....   |                    | 76,676           | Kentucky.....                            | 18,469             | 12,364           | Pennsylvania.....   | 25,612             | 18,740           |
| New England.....  |                    | 7,583            | Tennessee.....                           | 3,886              | ( <sup>2</sup> ) | East North Central.....   | 68,586             | ( <sup>2</sup> ) |
| Middle Atlantic.....  |                    | 10,136           | West South Central.....                  | 4,385              | 3,134            | Illinois.....   | 51,027             | 46,522           |
| New York.....   |                    | 3,457            | Texas.....                               | 2,700              | ( <sup>2</sup> ) | Pacific.....  | 7,807              | 7,294            |
| Pennsylvania.....   |                    | 6,679            | West.....                                | 45,413             | ( <sup>2</sup> ) | California.....   | 7,807              | 7,294            |
| North Central.....  |                    | 51,989           | California.....                          | 43,929             | ( <sup>2</sup> ) | All other divisions.....  | 21,951             | ( <sup>2</sup> ) |
| Ohio.....   |                    | 7,933            | JOB STAMPINGS, AUTOMOTIVE (34613)        |                    |                  |   |                    |                  |
| Illinois.....   |                    | 16,741           | United States, total....                 | 848,076            | 551,179          |   |                    |                  |
| Michigan.....   |                    | 23,678           | New England.....                         | 10,579             | 7,669            |   |                    |                  |
| South and West.....   |                    | 6,965            | Massachusetts.....                       | 4,607              | ( <sup>2</sup> ) |   |                    |                  |
|   |                    |                  | Connecticut.....                         | 5,691              | 4,490            |   |                    |                  |
|   |                    |                  | Middle Atlantic.....                     | 110,365            | 65,425           |   |                    |                  |
|   |                    |                  | New York.....                            | 10,640             | 9,188            |   |                    |                  |

See footnotes at end of table.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area                    | Value of shipments |                  | Product class and geographic area                              | Value of shipments |         | Product class and geographic area                              | Value of shipments |                  |
|--|--------------------|------------------|--|--------------------|---------|--|--------------------|------------------|
|  | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958    |  | 1963 <sup>1</sup>  | 1958             |
| CROWNS (34617)                                       |                    |                  | OTHER STAMPED AND PRESSED METAL END PRODUCTS (34618)—Continued |                    |         | OTHER STAMPED AND PRESSED METAL END PRODUCTS (34618)—Continued |                    |                  |
| United States, total....                             | 81,977             | 80,751           |  |                    |         |  |                    |                  |
| Northeast.....                                       | 24,915             | ( <sup>2</sup> ) | Middle Atlantic.....   | 73,298             | 50,358  | West North Central.....  | 21,796             | 16,768           |
| Pennsylvania.....                                    | 9,997              | ( <sup>2</sup> ) | New York.....  | 33,599             | 24,363  | Missouri.....  | 8,451              | 7,865            |
| North Central.....                                   | 22,629             | 15,908           | New Jersey.....  | 9,870              | 5,544   | South Atlantic.....  | 8,013              | 5,090            |
| Illinois.....  | 13,327             | ( <sup>2</sup> ) | Pennsylvania.....  | 29,829             | 20,451  | West Virginia.....   | 2,869              | 3,237            |
| South and West.....                                  | 34,433             | 40,033           |  |                    |         | Georgia.....   | 1,591              | ( <sup>2</sup> ) |
| OTHER STAMPED AND PRESSED METAL END PRODUCTS (34618) |                    |                  | East North Central.....  | 89,673             | 106,687 | East South Central.....  | 10,787             | 5,232            |
| United States, total....                             | 250,679            | 223,271          | Ohio.....  | 27,136             | 46,947  | Kentucky.....  | 1,876              | ( <sup>2</sup> ) |
| New England.....                                     | 30,574             | 20,772           | Indiana.....   | 11,534             | 17,121  | West South Central.....  | 2,261              | 2,984            |
| Massachusetts.....                                   | 8,922              | 7,594            | Illinois.....  | 31,664             | 31,514  | West.....  | 14,277             | ( <sup>2</sup> ) |
| Connecticut.....                                     | 16,442             | 9,995            | Michigan.....  | 7,976              | 5,207   |  |                    |                  |
|  |                    |                  | Wisconsin.....   | 11,372             | 5,898   |  |                    |                  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 34521, New Hampshire, Rhode Island, Minnesota, Missouri, Maryland, Virginia, North Carolina, Florida, Kentucky, Alabama, Texas, Colorado, and Washington; 34522, Massachusetts, Rhode Island, Mississippi, Oregon, and California; 34523, Connecticut, Indiana, Oklahoma, and California; 34611, Ohio, Michigan, Wisconsin, West Virginia, Kentucky, Texas, and California; 34612, Iowa, Kansas, Alabama, Mississippi, and Oklahoma; 34613, New Jersey, Pennsylvania, Iowa, West Virginia, South Carolina, Georgia, Florida, and Mississippi; 34614, New Jersey, Pennsylvania, Ohio, Illinois, and Georgia; 34615, New Jersey, Pennsylvania, Indiana, Missouri, Maryland, and Texas; 34616, New York, New Jersey, Indiana, Missouri, Maryland, West Virginia, and Tennessee; 34617, New York, New Jersey, Indiana, Wisconsin, Missouri, Delaware, Maryland, Georgia, Alabama, Louisiana, Texas, and California; 34618, Rhode Island, Minnesota, Iowa, Florida, Tennessee, Alabama, Texas, Washington, and California.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code   | Material  | Unit of measure                | 1963     |                          | 1958     |                          |
|--|---|--------------------------------|----------|--------------------------|----------|--------------------------|
|  |   |                                | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3451.--SCREW MACHINE PRODUCTS           |   |                                |          |                          |          |                          |
|  | Materials, parts, containers, and supplies, total.....  |                                | (X)      | 183,688                  | (X)      | 142,256                  |
|  | Mill shapes and forms (except castings):  |                                |          |                          |          |                          |
|  | Carbon steel:   |                                |          |                          |          |                          |
| 331011   | Bars and bar shapes.....  | Short tons.....                | 225,631  | 55,658                   | 177,433  | 40,890                   |
| 331012   | Sheet and strip.....  | ..do.....                      | 2,864    | 596                      | 2,250    | 445                      |
| 331017   | Wire and wire products.....   | ..do.....                      | 4,842    | 1,108                    | 13,105   | 2,605                    |
| 331013   | Plates.....   | ..do.....                      | 376      | 74                       | (NA)     |                          |
| 331019   | All other carbon steel mill shapes and forms.....   | ..do.....                      | 3,306    | 1,005                    |          | 1,087                    |
|  | Alloy steel (except stainless):   |                                |          |                          |          |                          |
| 331021   | Bars and bar shapes.....  | ..do.....                      | 17,259   | 6,056                    | 16,412   | 4,924                    |
| 331029   | All other alloy steel mill shapes and forms.....  | ..do.....                      | 960      | 944                      | (NA)     | 781                      |
| 331031   | Stainless steel mill shapes and forms.....  | ..do.....                      | 6,317    | 8,394                    | 4,563    | 5,566                    |
|  | Copper and copper-base alloy:   |                                |          |                          |          |                          |
| 335728   | Bare wire (for electrical conduction).....  | 1,000 lbs.....                 | 2,910    | 1,320                    | (NA)     | (NA)                     |
| 335790   | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content) | 249      | 136                      | 176      | 59                       |
| 335102   | Rod, bar, and mechanical wire.....  | 1,000 lbs.....                 | 79,759   | 30,134                   |          |                          |
| 335123   | Plate, sheet, and strip.....  | ..do.....                      | 47       | 75                       | 70,403   | 25,139                   |
| 335127   | Pipe and tube.....  | ..do.....                      | 1,565    | 689                      |          |                          |
|  | Aluminum and aluminum-base alloy:   |                                |          |                          |          |                          |
| 335202   | Sheet, plate, and foil.....   | ..do.....                      | 296      | 184                      | 1,779    | 1,235                    |
| 335205   | Extruded shapes.....  | ..do.....                      | 7,266    | 4,684                    |          |                          |
| 335209   | All other aluminum mill shapes and forms.....   | ..do.....                      | 3,784    | 2,601                    | 6,472    | 4,293                    |
|  | Castings (rough and semifinished): <sup>1</sup>   |                                |          |                          |          |                          |
| 332300   | Steel.....  | Short tons.....                | 3,081    | 1,476                    | 1,668    | 791                      |
| 336100   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                 | 401      | 341                      | 664      | 501                      |
| 336200   | Copper and copper-base alloy.....   | ..do.....                      | 444      | 271                      | 647      | 404                      |
| 307902   | Plastic rods, tubes, and other shapes.....  |                                | (NA)     | 625                      | (NA)     | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....                     |                                | (X)      | 37,022                   | (X)      | 24,424                   |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....                                 |                                | (X)      | 30,295                   | (X)      | 29,112                   |
| INDUSTRY 3452.--BOLTS, NUTS, WASHERS, AND RIVETS |   |                                |          |                          |          |                          |
|  | Materials, parts, containers, and supplies, total.....  |                                | (X)      | 433,638                  | (X)      | 304,574                  |
|  | Mill shapes and forms (except castings):  |                                |          |                          |          |                          |
|  | Carbon steel:   |                                |          |                          |          |                          |
| 331011   | Bars and bar shapes.....  | Short tons.....                | 304,021  | 51,098                   | 212,405  | 35,392                   |
| 331012   | Sheet and strip.....  | ..do.....                      | 131,101  | 23,348                   | 107,726  | 17,502                   |
| 331013   | Plates.....   | ..do.....                      | 21,920   | 2,394                    | 13,855   | 1,567                    |
| 331017   | Wire and wire products.....   | ..do.....                      | 653,885  | 128,041                  | 541,806  | 96,504                   |
| 331019   | All other carbon steel mill shapes and forms.....   | ..do.....                      | 48,664   | 10,860                   | 17,147   | 3,123                    |
|  | Alloy steel (except stainless):   |                                |          |                          |          |                          |
| 331021   | Bars and bar shapes.....  | ..do.....                      | 51,798   | 14,119                   | 20,099   | 5,938                    |
| 331029   | All other alloy steel mill shapes and forms.....  | ..do.....                      | 48,925   | 15,302                   | 30,866   | 8,457                    |
| 331031   | Stainless steel mill shapes and forms.....  | ..do.....                      | 15,310   | 20,469                   | 11,054   | 14,703                   |
|  | Copper and copper-base alloy:   |                                |          |                          |          |                          |
| 335728   | Bare wire (for electrical conduction).....  | 1,000 lbs.....                 |          |                          |          |                          |
| 335790   | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content) | 473      | 605                      | (NA)     | (NA)                     |
| 335102   | Rod, bar, and mechanical wire.....  | 1,000 lbs.....                 |          |                          |          |                          |
| 335127   | Pipe and tube.....  | ..do.....                      | 33,579   | 18,107                   | 43,792   | 21,491                   |
| 335123   | Sheet, plate, and strip.....  | ..do.....                      | 13,658   | 7,000                    |          |                          |
|  | Aluminum and aluminum-base alloy:   |                                |          |                          |          |                          |
| 335202   | Sheet, plate, and foil.....   | ..do.....                      | 2,362    | 1,130                    | 1,900    | 1,022                    |
| 335205   | Extruded shapes, including extruded rod, bar, pipe, tube, etc.  | ..do.....                      | 2,207    | 976                      |          |                          |
| 335209   | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                      | 11,535   | 7,094                    | 10,303   | 6,234                    |
|  | Castings (rough and semifinished): <sup>3</sup>   |                                |          |                          |          |                          |
| 332300   | Steel.....  | Short tons.....                | 6,878    | 4,290                    | 2,441    | 1,286                    |
| 336100   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                 | 166      | 90                       | 1,527    | 777                      |
| 336200   | Copper and copper-base alloy.....   | ..do.....                      | (D)      | (D)                      | (D)      | (D)                      |
| 307902   | Plastic rods, tubes, and other shapes.....  |                                | (NA)     | 689                      | (NA)     | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....                     |                                | (X)      | 100,609                  | (X)      | 70,189                   |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....                                 |                                | (X)      | 27,417                   | (X)      | 20,389                   |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code                            | Material  | Unit of measure                | 1963      |                          | 1958      |                          |
|---------------------------------|---|--------------------------------|-----------|--------------------------|-----------|--------------------------|
|                                 |   |                                | Quantity  | Delivered cost (\$1,000) | Quantity  | Delivered cost (\$1,000) |
| INDUSTRY 3461.--METAL STAMPINGS |   |                                |           |                          |           |                          |
|                                 | Materials, parts, containers, and supplies, total.....                            |                                | (X)       | 1,171,137                | (X)       | 924,207                  |
|                                 | Mill shapes and forms (except castings):  |                                |           |                          |           |                          |
|                                 | Carbon steel:   |                                |           |                          |           |                          |
| 331011                          | Bars and bar shapes.....  | Short tons.....                | 111,749   | 18,978                   | 74,127    | 12,615                   |
| 331012                          | Sheet and strip.....  | ..do.....                      | 2,167,494 | 335,917                  | 1,702,467 | 247,185                  |
| 331013                          | Plates.....   | ..do.....                      | 106,281   | 14,988                   | 70,793    | 9,723                    |
| 331015                          | Structural shapes.....  | ..do.....                      | 14,495    | 2,882                    | 7,789     | 1,241                    |
| 331017                          | Wire and wire products.....   | ..do.....                      | 43,843    | 8,573                    | 39,313    | 8,971                    |
| 331018                          | Tinplate, terne plate, and black plate.....                                       | ..do.....                      | 457,159   | 89,172                   | 413,199   | 74,073                   |
| 331019                          | All other carbon steel mill shapes and forms.....                                 | ..do.....                      | 35,198    | 7,376                    | 11,717    | 3,127                    |
|                                 | Alloy steel (except stainless):   |                                |           |                          |           |                          |
| 331021                          | Bars and bar shapes.....  | ..do.....                      | 4,561     | 3,044                    | 3,867     | 2,072                    |
| 331029                          | All other alloy steel mill shapes and forms.....                                  | ..do.....                      | 95,166    | 24,914                   | 46,749    | 14,517                   |
| 331031                          | Stainless steel.....  | ..do.....                      | 66,963    | 74,027                   | 59,187    | 62,702                   |
|                                 | Copper and copper-base alloy:   |                                |           |                          |           |                          |
| 335728                          | Bare wire (for electrical conduction).....  | 1,000 lbs.....                 | 2,132     | 1,183                    | 2,565     | 1,521                    |
| 335790                          | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content) | 44        | 50                       | 188       | 150                      |
| 335102                          | Rod, bar, and mechanical wire.....  | 1,000 lbs.....                 | 19,023    | 7,733                    | 70,303    | 33,504                   |
| 335123                          | Plate, sheet, and strip.....  | ..do.....                      | 62,561    | 33,912                   |           |                          |
| 335127                          | Pipe and tube.....  | ..do.....                      | 3,520     | 2,927                    |           |                          |
|                                 | Aluminum and aluminum-base alloy:   |                                |           |                          |           |                          |
| 335202                          | Sheet, plate, and foil.....   | ..do.....                      | 212,435   | 92,326                   | 168,783   | 72,343                   |
| 335205                          | Extruded shapes.....  | ..do.....                      | 24,393    | 12,146                   | 13,552    | 6,878                    |
| 335209                          | All other aluminum mill shapes and forms.....                                     | ..do.....                      | 9,808     | 4,647                    |           |                          |
| 333348                          | Zinc and zinc-base alloy refinery shapes.....                                     | Short tons.....                | 12,072    | 3,506                    | 11,390    | 2,631                    |
|                                 | Castings (rough and semifinished): <sup>4</sup>                                   |                                |           |                          |           |                          |
| 332011                          | Iron (gray and malleable).....  | ..do.....                      | 8,850     | 3,748                    | 8,226     | 2,716                    |
| 332300                          | Steel.....  | ..do.....                      | 2,264     | 673                      | 6,960     | 2,004                    |
| 336100                          | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                 | 1,352     | 1,107                    | 7,179     | 4,697                    |
| 336200                          | Copper and copper-base alloy.....   | ..do.....                      | 1,846     | 860                      | 509       | 327                      |
| 282140                          | Thermosetting resins.....   | 1,000 lbs.<br>dry basis.....   | 43,231    | 7,706                    | (NA)      | (NA)                     |
| 282130                          | Thermoplastic resins.....   | ..do.....                      | 47,410    | 9,538                    | (NA)      | (NA)                     |
| 970099                          | All other materials and components, parts, containers, and supplies consumed..... |                                | (X)       | 300,095                  | (X)       | 361,210                  |
| 976000                          | Materials, parts, containers, and supplies, n.s.k.....                            |                                | (X)       | 2109,109                 |           |                          |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

<sup>1</sup>In 1963 there were, in addition, 807 short tons of steel castings produced and consumed in the same establishment. Data for other types of castings produced and consumed in the same establishment for 1963 and for all types of castings in 1958 are not available.

<sup>2</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

<sup>3</sup>Does not include castings produced and consumed in the same establishment.

<sup>4</sup>In 1963 there were, in addition, 1,857 short tons of steel castings produced and consumed in the same establishment. Data for other types of castings produced and consumed in the same establishment for 1963 and for all types of castings in 1958 are not available.



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Screw machine products (SIC 3451) | Bolts, nuts, rivets, and washers (SIC 3452) | Metal stampings (SIC 3461) | Plating and polishing (SIC 3471) | Metal coating, engraving, etc. (SIC 3479) |
|---|-----------------------------------|---|----------------------------|----------------------------------|---|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 6,087                             | 14,001                                      | 29,331                     | 20,147                           | 7,638                                     |
| Total cost of purchased fuels.....do....  | 1,479                             | 5,711                                       | 12,495                     | 8,070                            | 4,448                                     |
| Bituminous coal, lignite, and anthracite:   |                                   |   |                            |                                  |   |
| Quantity.....1,000 short tons..   | (S)                               | 69  | 134                        | (S)                              | (S)                                       |
| Cost.....\$1,000..  | (S)                               | 508   | 976                        | (S)                              | (S)                                       |
| Coke and breeze:  |                                   |   |                            |                                  |   |
| Quantity.....1,000 short tons..   | -                                 | (S)   | (S)                        | -                                | -   |
| Cost.....\$1,000..  | -                                 | (S)   | (S)                        | -                                | -   |
| Fuel oil (distillate and residual):   |                                   |   |                            |                                  |   |
| Quantity.....1,000 barrels of 42 gallons..  | 182                               | 415   | 1,368                      | 526                              | 204                                       |
| Cost.....\$1,000..  | 856                               | 1,468                                       | 3,269                      | 2,098                            | 925                                       |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |                                   |   |                            |                                  |   |
| Quantity.....million cu.ft..  | 427                               | 5,064                                       | 9,609                      | 6,901                            | 5,585                                     |
| Cost.....\$1,000..  | 340                               | 3,277                                       | 6,206                      | 4,280                            | 2,582                                     |
| Other fuels.....do....  | 269                               | 443   | 2,042                      | 1,584                            | 783                                       |
| Electric energy:  |                                   |   |                            |                                  |   |
| Purchased:  |                                   |   |                            |                                  |   |
| Quantity.....million kw.-hrs..  | 262                               | 560   | 1,067                      | 661                              | 176                                       |
| Cost.....\$1,000..  | 4,608                             | 8,290                                       | 16,836                     | 12,077                           | 3,190                                     |
| Generated less sold.....million kw.-hrs..   | -                                 | (S)   | 21                         | (S)                              | (S)                                       |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 230                               | 426   | 887                        | 360                              | 128                                       |
| Prime movers, total.....do....  | 13                                | 19  | 79                         | 49                               | 11  |
| Driving generators.....do....   | 4                                 | 6   | 30                         | 20                               | 4   |
| Not driving generators.....do....   | 9                                 | 13  | 49                         | 29                               | 7   |
| Electric motors, total.....do....   | 217                               | 408   | 821                        | 312                              | 118                                       |
| Driven by purchased energy.....do....   | 217                               | 407   | 808                        | 311                              | 117                                       |
| Driven by energy generated at establishment.....do....  | -                                 | 1   | 13                         | (Z)                              | 1   |
| Aggregate horsepower per 100 production workers.....  | 768                               | 979   | 820                        | 865                              | 786                                       |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3452-                          | BOLTS, NUTS, RIVETS, AND WASHERS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 573                     | 57,618         | 371,026           | 43,972             | 92,502            | 257,477         | 695,276  | 527,860                     | 1,218,247                    | 31,431                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 473                     | 42,368         | 273,228           | 32,561             | 68,696            | 190,986         | 513,095  | 418,357                     | 927,550                      | 23,510                              |
|                                | 75-89% specialization.....   | 46                      | 6,851          | 40,763            | 5,031              | 10,515            | 27,205          | 79,133   | 49,087                      | 129,468                      | 3,067                               |
| 34521                          | Bolts, nuts, and other standard industrial fasteners (primary product class of estab.).....  | 344                     | 42,983         | 273,062           | 32,693             | 68,674            | 189,913         | 509,657  | 393,873                     | 900,505                      | 21,950                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 247                     | 20,525         | 130,129           | 15,525             | 33,160            | 88,624          | 256,669  | 211,164                     | 465,334                      | 11,898                              |
|                                | 75-89% specialization.....   | 32                      | 4,631          | 28,497            | 3,323              | 6,815             | 18,616          | 50,334   | 42,400                      | 94,516                       | 2,255                               |
| 34522                          | Special industrial fasteners (nonstandard) (primary product class of estab.).....  | 77                      | 11,510         | 77,988            | 8,715              | 18,471            | 53,289          | 145,264  | 91,524                      | 234,498                      | 5,958                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 40                      | 2,562          | 16,409            | 1,905              | 3,888             | 10,710          | 30,785   | 26,288                      | 56,164                       | 1,794                               |
|                                | 75-89% specialization.....   | 16                      | 2,926          | 19,459            | 2,079              | 4,240             | 12,261          | 34,865   | 20,199                      | 54,920                       | 1,136                               |
| 34523                          | Headed products (produced by cold and hot heading), other than industrial fasteners (primary product class of estab.).....           | 51                      | 2,185          | 15,452            | 1,788              | 4,064             | 10,909          | 31,689   | 33,463                      | 64,853                       | 2,617                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 32                      | 1,247          | 8,562             | 1,051              | 2,363             | 6,519           | 15,823   | 15,440                      | 31,143                       | 842                                 |
|                                | 75-89% specialization.....   | 9                       | 475            | 3,321             | 358                | 862               | 1,948           | 7,109  | 9,127                       | 16,200                       | 459                                 |
| 3461-                          | METAL STAMPINGS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 2,574                   | 132,179        | 772,557           | 108,336            | 222,005           | 567,309         | 1,368,993                                      | 1,324,939                   | 2,678,996                    | 64,248                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 1,951                   | 74,264         | 420,317           | 61,302             | 126,599           | 307,097         | 756,615  | 740,017                     | 1,490,645                    | 31,311                              |
|                                | 75-89% specialization.....   | 205                     | 20,811         | 138,140           | 17,215             | 35,632            | 106,064         | 238,335  | 221,726                     | 456,319                      | 8,923                               |
| 34611                          | Vitreous enameled products (primary product class of estab.).....  | 38                      | 5,791          | 28,623            | 4,824              | 9,819             | 20,911          | 58,298   | 42,045                      | 100,073                      | 2,578                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 22                      | 1,910          | 8,230             | 1,592              | 3,302             | 5,951           | 14,251   | 13,287                      | 27,321                       | 376                                 |
|                                | 75-89% specialization.....   | 4                       | 456            | 2,596             | 351                | 680               | 1,767           | 5,776  | 1,477                       | 7,017                        | 23                                  |
| 34612                          | Job stampings, except automotive (primary product class of estab.).....  | 1,100                   | 44,573         | 260,732           | 36,258             | 75,149            | 186,625         | 430,033  | 344,817                     | 771,186                      | 18,260                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 630                     | 18,841         | 109,198           | 15,288             | 31,364            | 77,640          | 184,586  | 153,136                     | 337,212                      | 8,051                               |
|                                | 75-89% specialization.....   | 152                     | 6,916          | 40,963            | 5,574              | 11,480            | 28,927          | 63,107   | 46,600                      | 109,511                      | 2,097                               |
| 34613                          | Job stampings, automotive (primary product class of estab.).....   | 364                     | 34,495         | 221,571           | 29,106             | 60,822            | 171,445         | 384,005  | 441,239                     | 820,986                      | 13,364                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 199                     | 14,241         | 87,517            | 12,054             | 25,564            | 67,240          | 164,306  | 199,136                     | 361,484                      | 5,599                               |
|                                | 75-89% specialization.....   | 66                      | 9,993          | 72,334            | 8,498              | 17,840            | 58,125          | 121,047  | 113,927                     | 234,146                      | 4,254                               |
| 34614                          | Stamped and spun hospital utensils and cooking and kitchen household utensils, aluminum (primary product class of estab.).....       | 29                      | 6,784          | 35,881            | 5,535              | 10,962            | 26,021          | 78,724   | 87,345                      | 162,520                      | 5,656                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 15                      | 1,018          | 5,288             | 883                | 1,793             | 4,166           | 8,700  | 10,178                      | 18,253                       | 1,382                               |
| 34615                          | Stamped and spun hospital utensils and cooking and kitchen household utensils, etc., aluminum (primary product class of estab.)..... | 61                      | 7,035          | 39,585            | 5,532              | 11,107            | 26,882          | 82,140   | 75,824                      | 157,008                      | 2,415                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 37                      | 2,011          | 10,789            | 1,626              | 3,284             | 7,265           | 24,724   | 20,545                      | 44,717                       | 672                                 |
|                                | 75-89% or more specialization..  | 8                       | 949            | 5,395             | 769                | 1,571             | 3,914           | 8,743  | 8,734                       | 17,289                       | 843                                 |



TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization                              | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3461-                          | METAL STAMPINGS—Continued   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
| 34616                          | Metal commercial closures, except crowns (primary product class of estab.).....     | 36                      | 5,732          | 33,114            | 4,684              | 9,221             | 24,077          | 66,935   | 76,980                      | 144,167                      | 2,951                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 25                      | 3,789          | 23,057            | 3,036              | 5,853             | 16,270          | 45,687   | 51,713                      | 97,659                       | 1,735                               |
| 34617                          | Crowns (primary product class of estab.).....                                       | 20                      | 4,265          | 27,506            | 3,438              | 6,942             | 20,898          | 50,418   | 75,443                      | 125,436                      | 7,002                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 12                      | 1,103          | 7,114             | 882                | 1,851             | 4,762           | 13,816   | 22,130                      | 36,466                       | 662                                 |
| 34618                          | Other stamped and pressed metal end products (primary product class of estab.)..... | 205                     | 14,347         | 79,991            | 11,515             | 22,317            | 56,737          | 137,963  | 125,096                     | 261,971                      | 6,269                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 122                     | 4,904          | 26,413            | 4,068              | 7,937             | 19,285          | 47,360   | 43,432                      | 90,962                       | 2,196                               |
|                                | 75-89% specialization.....  | 22                      | 1,598          | 7,549             | 1,301              | 2,513             | 5,471           | 15,304   | 11,087                      | 25,917                       | 795                                 |

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations  | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3451.—SCREW MACHINE PRODUCTS  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Nonferrous foundry (except die casting).....   | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Nonferrous die casting.....  | 2                        | 2   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 6                        | 6   | -       | -          | 10                                    | 10  | -       | -          |
| Electroplating and other plating.....  | 20                       | 17  | 3       | -          | 52                                    | 22  | 30      | -          |
| Galvanizing and other hot dip coating.....   | 3                        | 3   | -       | -          | 4                                     | 4   | -       | -          |
| Heat treating of metals.....   | 44                       | 38  | 6       | -          | 115                                   | 53  | 62      | -          |
| Automatic screw machine department <sup>2</sup> .....                                    | 860                      | 281                                       | 384     | 195        | 12,226                                | 420                                       | 3,839   | 7,967      |
| Machine shop.....  | 434                      | 174                                       | 169     | 91         | 6,167                                 | 258                                       | 1,701   | 4,208      |
| Tool and die shop.....   | 144                      | 108                                       | 35      | 1          | 515                                   | 161                                       | (D)     | (D)        |
| Foundry pattern shop.....  | 4                        | 3   | 1       | -          | 25                                    | (D)                                       | (D)     | -          |
| Plate or structural fabrication.....   | 8                        | 7   | 1       | -          | 30                                    | (D)                                       | (D)     | -          |
| Stamping, blanking and forming of metals.....  | 73                       | 57  | 14      | 2          | 268                                   | 71  | (D)     | (D)        |
| Painting, lacquering and enameling on metals.....  | 21                       | 21  | -       | -          | 23                                    | 23  | -       | -          |
| INDUSTRY 3452.—BOLTS, NUTS, RIVETS, AND WASHERS  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 2                        | 1   | 1       | -          | (D)                                   | (D)                                       | (D)     | -          |
| Nonferrous foundry (except die casting).....   | 2                        | 2   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Nonferrous die casting.....  | 6                        | 4   | 1       | 1          | 39                                    | (D)                                       | (D)     | (D)        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 15                       | 5   | 10      | -          | 108                                   | 13  | 95      | -          |
| Electroplating and other plating.....  | 69                       | 36  | 21      | 12         | 670                                   | 74  | 190     | 406        |
| Galvanizing and other hot dip coating.....   | 19                       | 11  | 8       | -          | 91                                    | 18  | 73      | -          |
| Heat treating of metals.....   | 113                      | 69  | 33      | 11         | 778                                   | 133                                       | 304     | 341        |
| Automatic screw machine department.....  | 121                      | 48  | 45      | 28         | 2,585                                 | 89  | 496     | 2,000      |
| Machine shop.....  | 186                      | 71  | 65      | 50         | 3,839                                 | 136                                       | 673     | 3,040      |
| Tool and die shop.....   | 138                      | 52  | 53      | 33         | 2,327                                 | 87  | 514     | 1,726      |
| Foundry pattern shop.....  | 2                        | 2   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Plate or structural fabrication.....   | 5                        | 3   | 1       | 1          | (D)                                   | (D)                                       | (D)     | (D)        |
| Stamping, blanking and forming of metals.....  | 130                      | 44  | 45      | 41         | 3,583                                 | 65  | 447     | 3,071      |
| Painting, lacquering and enameling on metals.....  | 33                       | 27  | 4       | 2          | 108                                   | 37  | (D)     | (D)        |
| INDUSTRY 3461.—METAL STAMPINGS   |                          |   |         |            |                                       |   |         |            |
| Nonferrous die casting.....  | 23                       | 15  | 5       | 3          | 273                                   | 19  | 44      | 210        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 20                       | 9   | 4       | 7          | 484                                   | 13  | 32      | 439        |
| Electroplating and other plating.....  | 107                      | 52  | 41      | 14         | 1,057                                 | 88  | 333     | 636        |
| Galvanizing and other hot dip coating.....   | 28                       | 13  | 10      | 5          | 287                                   | 21  | 93      | 173        |
| Heat treating of metals.....   | 118                      | 92  | 22      | 4          | 498                                   | 130                                       | 199     | 169        |
| Automatic screw machine department.....  | 38                       | 25  | 12      | 1          | 285                                   | 42  | (D)     | (D)        |
| Machine shop.....  | 414                      | 236                                       | 139     | 39         | 3,528                                 | 453                                       | 1,201   | 1,874      |
| Tool and die shop.....   | 722                      | 394                                       | 258     | 70         | 6,077                                 | 772                                       | 2,308   | 2,997      |
| Foundry pattern shop.....  | 20                       | 17  | 2       | 1          | 125                                   | 23  | (D)     | (D)        |
| Plate or structural fabrication.....   | 48                       | 35  | 7       | 6          | 291                                   | 46  | 61      | 184        |
| Stamping, blanking and forming of metals <sup>3</sup> .....                              | 1,328                    | 305                                       | 544     | 479        | 41,926                                | 428                                       | 5,771   | 35,737     |
| Painting, lacquering and enameling on metals.....  | 370                      | 212                                       | 103     | 55         | 4,480                                 | 354                                       | 985     | 3,141      |

NOTE: Very small establishments were not requested to report their metal working operations, and, in some instances, a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production-worker employment on the last line of the table below:

| Item  | Industry |       |       |
|---|----------|-------|-------|
|   | 3451     | 3452  | 3461  |
| Total number of establishments in the industry.....   | 1,874    | 573   | 2,574 |
| Number of establishments which reported one or more of the specified operations.....                              | 956      | 317   | 1,442 |
| Percent of industry production workers in these establishments.....   | 80-85    | 75-80 | 80-85 |
| Number of establishments which reported "none" of the operations apply.....                                       | 54       | 62    | 93    |
| Percent of industry production workers in these establishments.....   | 0-5      | 5-10  | 0-5   |
| Percent of industry production workers in establishments which completed the metalworking operations inquiry..... | 85-90    | 80-85 | 80-85 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishment.

<sup>2</sup>Industry 3451 is composed of establishments primarily engaged in producing screw machine products. However, only 860 of the 1,874 establishments classified in the industry reported such operations. Most of the remaining establishments in the industry, consisting of small plants with fewer than 5 employees, reported on "short-form" schedules which did not include a metalworking operations inquiry. In addition, there is evidence that some of the establishments with 5 to 20 employees did not answer this inquiry. Also, some establishments in this industry probably have no automatic screw machines but are limited to hand-operated screw machines.

<sup>3</sup>Since industry 3461 is composed of establishments primarily engaged in producing metal stampings, all establishments classified in the industry should have reported stamping, blanking and forming operations. However, only 1,328 of the 2,574 establishments classified in the industry reported such operations; 93 establishments reported no metalworking operations; and the remainder, consisting mainly of small plants with fewer than 5 employees reported on "short-form" schedules which did not include a metalworking operation inquiry. In addition, there is evidence that many of the establishments with 5 to 49 employees did not answer this inquiry.



## FABRICATED METAL PRODUCTS, N.E.C.

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3481—Miscellaneous Fabricated Wire Products
- 3491—Metal Shipping Barrels, Drums, Kegs, and Pails
- 3492—Safes and Vaults
- 3493—Steel Springs
- 3494—Valves and Pipe Fittings, Except Plumbers' Brass Goods
- 3496—Collapsible Tubes
- 3497—Metal Foil and Leaf
- 3498—Fabricated Pipe and Fabricated Pipe Fittings
- 3499—Fabricated Metal Products, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3481—MISCELLANEOUS FABRICATED WIRE PRODUCTS

This industry comprises establishments primarily engaged in manufacturing miscellaneous fabricated wire products from purchased wire. Rolling mills engaged in manufacturing wire products are classified in Major Group 33; establishments manufacturing nonferrous wire nails and spikes in industry 3399; those drawing and insulating nonferrous wire in industry 3357; and those assembling wire bedsprings or seats are classified in Major Group 25. For a detailed list of products of industry 3481, refer to table 6A, product codes 3481111 to 3481998.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Fabricated Wire Products, N.E.C., industry in 1963 totaled \$1,031 million. This amount included shipments of fabricated wire products (primary products) valued at \$904 million, shipments of other products (secondary products) valued at \$71 million, and miscellaneous receipts (mainly receipts for sale of products bought and resold) at \$56 million.

This industry's shipments of fabricated wire products in 1963 represented 93 percent of its total product shipments. The industry specialization ratio in 1958 was 91 percent. Secondary products shipped by this industry in 1963 included steel springs (\$14 million) and metal stampings (\$6 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 15 percent of the total industry shipments are represented by plants specializing in precision mechanical springs; 22 percent in other wire springs; and 32 percent in other fabricated wire products.

Shipments of fabricated wire products, n.e.c., by this industry in 1963 represented 65 percent of all shipments of these products (\$1,399 million) by all industries. In 1958 the coverage ratio was 64 percent. Industry 3315, Steel Wire Drawing, Etc., shipped \$186 million of fabricated wire products.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3481, e.g., noninsulated ferrous wire rope, etc., 43 percent; precision mechanical springs, 86 percent; other wire springs, 87 percent; and fencing and fence gates, 46 percent.

The production index for the primary products of the industry decreased to 122 in 1963 from the 1958 level of 106. The unit value index for 1963 was 118 compared to 112 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3491—METAL SHIPPING BARRELS, DRUMS, KEGS, AND PAILS

This industry comprises establishments primarily engaged in manufacturing ferrous and nonferrous shipping barrels, drums, kegs, and pails. For a detailed list of products of industry 3491, refer to table 6A, product codes 3491111 to 3491331.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Metal Barrels, Drums, and Pails Industry in 1963 totaled \$303 million. This amount included shipments of metal barrels, drums, kegs, and pails (primary products) valued at \$275 million, shipments of other products (secondary products) valued at \$23 million, and miscellaneous receipts (mainly receipts for sale of products bought and resold) at \$6 million.

This industry's shipments of metal barrels, drums, kegs, and pails in 1963 represented 92 percent of its total product shipments. The industry specialization ratio in 1958 was also 92 percent. Secondary products shipped by this industry in 1963 included metal cans (\$7 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 72 percent of the total industry shipments are represented by plants specializing in steel shipping barrels and drums.

Shipments of metal barrels, drums, kegs, and pails by this industry in 1963 represented 86 percent of all shipments of these products (\$318 million) by all industries. In 1958 the coverage ratio was also 86 percent. Other industries shipping metal barrels, drums, kegs, and pails included industry 3411, Metal Cans, \$11.7 million; and industry 3461, Metal Stampings, \$7.3 million.



The production index for the primary products of the industry increased to 110 in 1963 from the 1958 level of 102. The unit value index for 1963 was 132 compared to 121 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3492—SAFES AND VAULTS

This industry comprises establishments primarily engaged in manufacturing fire or burglary resistive steel safes and vaults (except concrete grave vaults—industry 3272, and metal grave vaults—industry 3988), and similar fire or burglary resistive products. For a detailed list of products of industry 3492, refer to table 6A, product codes 3492013 to 3492098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Safes and Vaults Industry in 1963 totaled \$78 million.

This industry's shipments of safes and vaults in 1963 represented 81 percent of its total product shipments. The industry specialization ratio in 1958 was 82 percent.

Shipments of safes and vaults by this industry in 1963 represented between 90 and 95 percent of all shipments of these products (\$59 million) by all industries. In 1958 the coverage ratio was 97 percent.

#### 3493—STEEL SPRINGS

This industry comprises establishments primarily engaged in manufacturing leaf springs, hot wound springs, and coiled flat springs. Establishments primarily engaged in manufacturing wire springs are classified in industry 3481, and rolling mills manufacturing steel springs in industry 3312. For a detailed list of products of industry 3493, refer to table 6A, product codes 3493011 to 3493098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Steel Springs Industry in 1963 totaled \$158 million. This amount included shipments of steel springs (primary products) valued at \$137 million, shipments of other products (secondary products) valued at \$14 million, and miscellaneous receipts at \$7 million.

This industry's shipments of steel springs in 1963 represented 91 percent of its total product shipments. The industry specialization ratio in 1958 was 81 percent. Secondary products shipped by this industry in 1963 included precision mechanical springs (\$7 million).

Shipments of steel springs by this industry in 1963 represented 67 percent of all shipments of these products (\$205 million) by all industries. In 1958 the coverage ratio was 69 percent. Other industries shipping steel springs included industry 3481, Fabricated Wire Products, N.E.C., \$16 million.

The production index for the primary products of the industry increased to 124 in 1963 from the 1958 level of 89. The unit value index for 1963 was 125 compared to 116 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3494—VALVES AND PIPE FITTINGS, EXCEPT PLUMBERS' BRASS GOODS

This industry comprises establishments primarily engaged in manufacturing valves for controlling the flow of liquids or gases in pipes and mains, and for machinery. Establishments primarily engaged in manufacturing faucets, spigots, and similar plumbers' brass goods and fittings are classified in industry 3432. For a detailed list of products of industry 3494, refer to table 6A, product codes 3494111 to 3494498.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Valves and Pipe Fittings Industry in 1963 totaled \$1,589 million. This amount included shipments of valves and pipe fittings (primary products) valued at \$1,300 million, shipments of other products (secondary products) valued at \$214 million, and miscellaneous receipts (mainly receipts for products bought and resold) at \$74 million.

This industry's shipments of valves and pipe fittings in 1963 represented 86 percent of its total product shipments. The industry specialization ratio in 1958 was 88 percent. Secondary products shipped by this industry in 1963 included aircraft engine parts and accessories (\$13 million) and other refrigeration and air-conditioning equipment (\$12 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 46 percent of the total industry shipments are represented by plants specializing in metal valves for piping systems and 31 percent in metal fittings and unions for piping systems.

Shipments of valves and pipe fittings by this industry in 1963 represented 85 percent of all shipments of these products (\$1,525 million) by all industries. In 1958 the coverage ratio was 88 percent. Other industries shipping valves and pipe fittings included industry 3561, Pumps and Compressors, \$34 million; and industry 3533, Oil Field Machinery, \$5 million.

The production index for the primary products of the industry increased to 129 in 1963 from the 1958 level of 104. The unit value index for 1963 was 127 compared to 125 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3496—COLLAPSIBLE TUBES

This industry comprises establishments primarily engaged in manufacturing collapsible tubes defined as cylindrical containers for viscous products, made of thin flexible metal, usually of tin, tin-lined lead, lead, lead-tin alloy, or aluminum, with integral shoulder and neck, provided with an appropriate size opening in the throat, and usually with a screw cap made of plastic material for closure over the neck. For a detailed list of products of industry 3496, refer to table 6A, product codes 3496011 to 3496029.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Collapsible Tubes Industry in 1963 totaled \$51 million. This amount included shipments of collapsible tubes (primary products) valued at \$44 million, shipments of other products (secondary products) valued at \$6 million, and miscellaneous receipts (mainly receipts for products bought and resold) at \$1 million.



This industry's shipments of collapsible tubes in 1963 represented 88 percent of its total product shipments. The industry specialization ratio in 1958 was 91 percent.

Shipments of collapsible tubes by this industry in 1963 represented 100 percent of all shipments of these products (\$44 million) by all industries. In 1958 the coverage ratio was also 100 percent.

The production index for the primary products of the industry increased to 115 in 1963 from the 1958 level of 98. The unit value index for 1963 was 112 compared to 111 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3497—METAL FOIL AND LEAF

This industry comprises establishments primarily engaged in manufacturing gold, silver, tin, and other metal foil (including converted metal foil) and leaf. Establishments primarily engaged in manufacturing plain aluminum foil are classified in industry 3352. For a detailed list of products of industry 3497, refer to table 6A, product codes 3497023 to 3497057.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Metal Foil and Leaf Industry in 1963 totaled \$181 million. This amount included shipments of metal foil and leaf (primary products) valued at \$147 million, shipments of other products (secondary products) valued at \$29 million, and miscellaneous receipts at \$5 million.

This industry's shipments of metal foil and leaf in 1963 represented 84 percent of its total product shipments. The industry specialization ratio in 1958 was 83 percent. Secondary products shipped by this industry in 1963 included miscellaneous gravure printing (\$4 million).

Shipments of metal foil and leaf by this industry in 1963 represented 45 percent of all shipments of these products (\$330 million) by all industries. In 1958 the coverage ratio was 52 percent. Other industries shipping metal foil and leaf consisted mainly of industry 3352, Aluminum Rolling and Drawing, \$135 million; and industry 2641, Paper Coating and Glazing, \$18 million.

The production index for the primary products of the industry increased to 177 in 1963 from the 1958 level of 84. The unit value index for 1963 was 131 compared to 128 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3498—FABRICATED PIPE AND FABRICATED PIPE FITTINGS

This industry comprises establishments primarily engaged in fabricating pipe and pipe fittings from purchased pipe, by cutting, threading, bending, etc. Establishments primarily engaged in manufacturing cast iron pipe and fittings, including cast and forged pipe fittings which have been machined and threaded, are classified in industry 3321; welded and heavy riveted pipe in industry 3317; and seamless steel pipe in industry 3317. Establishments primarily engaged in manufacturing products, such as bannisters, railings, and grilles from pipe are classified in industry 3446. For a detailed list of products of industry 3498, refer to table 6A, product codes 3498013 to 3498019.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Fabricated Pipe and Fittings Industry in 1963 totaled \$306 million. This amount included shipments of fabricated pipe and

fittings (primary products) valued at \$260 million, shipments of other products (secondary products) valued at \$21 million, and miscellaneous receipts (mainly receipts for products bought and resold) at \$25 million.

This industry's shipments of fabricated pipe and fittings in 1963 represented 92 percent of its total product shipments. The industry specialization ratio in 1958 was 89 percent.

Shipments of fabricated pipe and fittings by this industry in 1963 represented 91 percent of all shipments of these products (\$287 million) by all industries. In 1958 the coverage ratio was 93 percent. Other industries shipping fabricated pipe and fittings (primary products) included industry 3494, Valves and Pipe Fittings, \$4 million; and industry 3499, Fabricated Metal Products, N.E.C., \$3 million.

#### 3499—FABRICATED METAL PRODUCTS, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing fabricated metal products, not elsewhere classified. Establishments primarily engaged in manufacturing advertising novelties are classified in industry 3993. For a detailed list of products of industry 3499, refer to table 6A, product codes 3499051 to 3499059.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

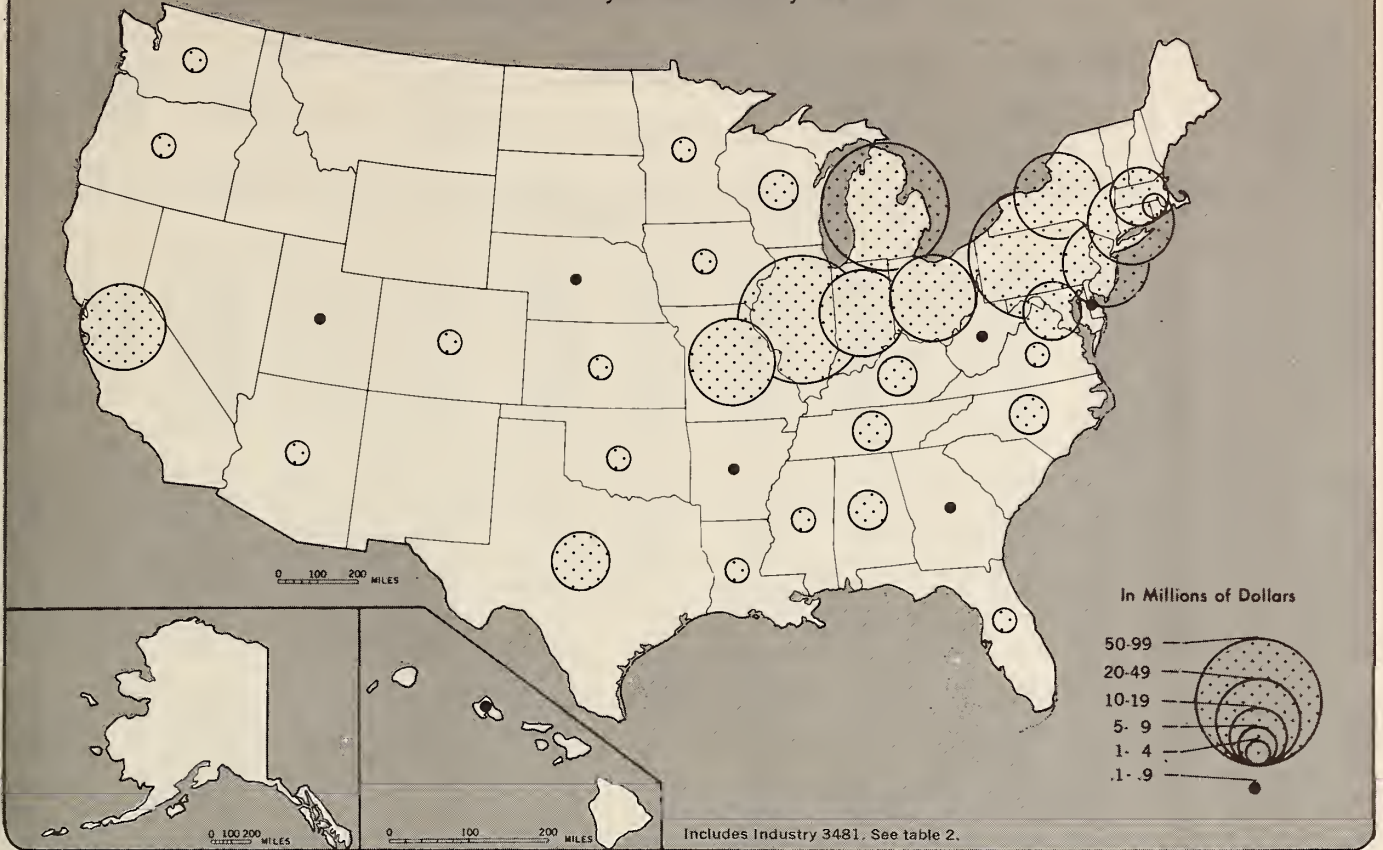
Value of shipments and other receipts of the Fabricated Metal Products, N.E.C., Industry in 1963 totaled \$573 million. This amount included shipments of fabricated metal products, n.e.c. (primary products) valued at \$469 million, shipments of other products (secondary products) valued at \$60 million, and miscellaneous receipts (mainly receipts for products bought and resold) at \$44 million.

This industry's shipments of fabricated metal products in 1963 represented 89 percent of its total product shipments. The industry specialization ratio in 1958 was 88 percent. Secondary products shipped by this industry in 1963 included wood products, n.e.c. (\$3 million), job stampings, except automotive (\$2 million), and fabricated pipe and fittings (\$3 million).

Shipments of fabricated metal products, n.e.c., by this industry in 1963 represented 62 percent of all shipments of these products (\$753 million) by all industries. In 1958 the coverage ratio was also 62 percent. Other industries shipping fabricated metal products included industry 3429, Hardware, N.E.C., \$13 million; and industry 3461, Metal Stampings, \$12 million.



**FABRICATED WIRE PRODUCTS, N.E.C.: SIC 348**  
 Value Added by Manufacture by State: 1963



**FABRICATED METAL PRODUCTS, N.E.C.: SIC 349**  
 Value Added by Manufacture by State: 1963

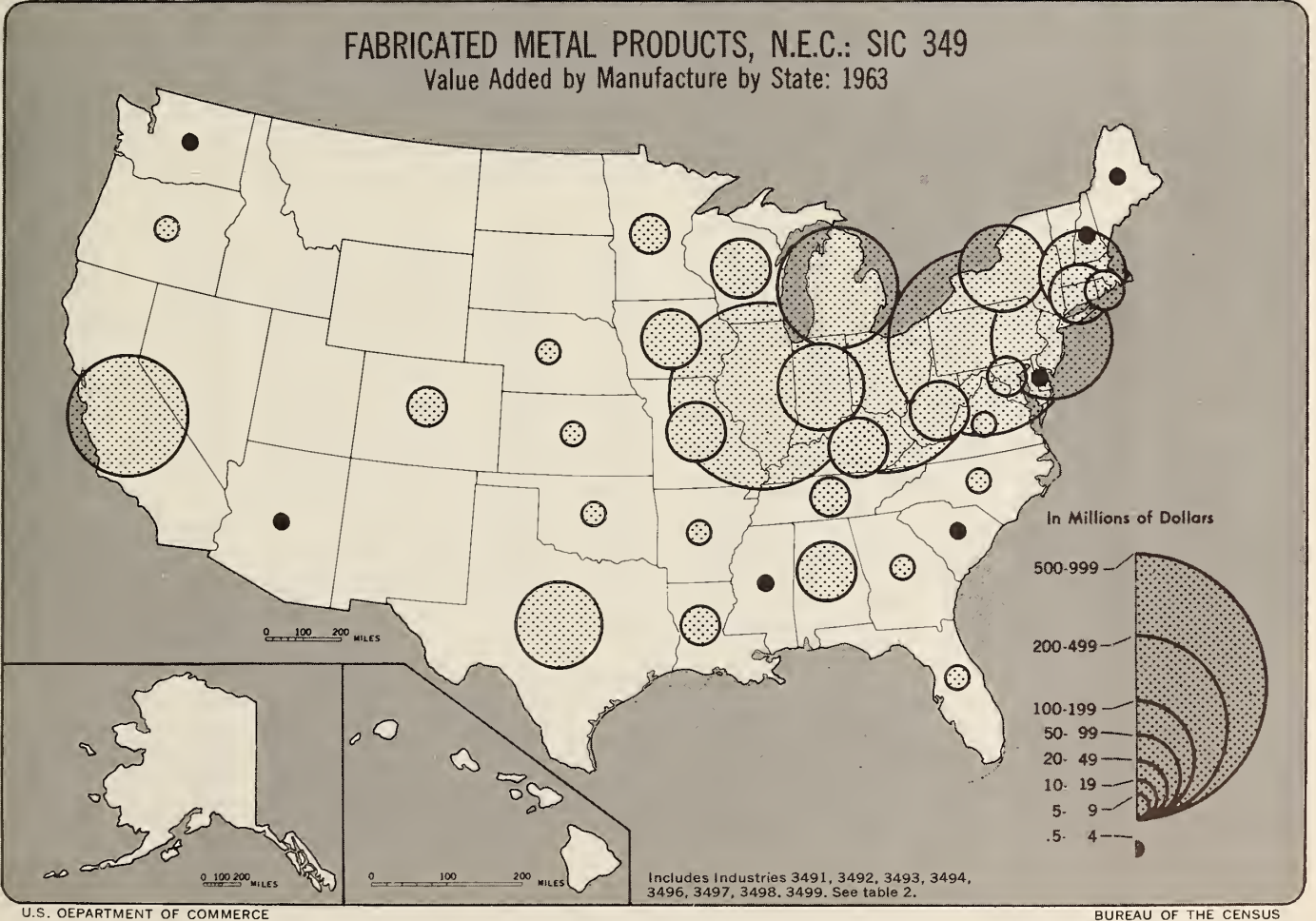


TABLE 1. General Statistics: 1963 and Earlier Years

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3481.—FABRICATED WIRE PRODUCTS, N.E.C. |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                       | 1,464                      | 1,567             | 557  | 55,514            | 297,626              | 45,070             | 92,096               | 213,329            | 539,137  | 490,937                           | 1,030,876                          | 24,795  | 93  | 65                                       |
| 1962 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 60,364            | 325,554              | 48,407             | 100,635              | 226,601            | 561,389  | 512,263                           | 1,067,822                          | 32,547  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 57,405            | 300,298              | 45,822             | 94,876               | 208,087            | 510,512  | 472,342                           | 983,642                            | 28,657  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 60,874            | 307,217              | 48,858             | 99,456               | 218,029            | 518,944  | 494,353                           | 1,016,382                          | 24,856  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 60,714            | 308,944              | 49,322             | 103,382              | 222,745            | 535,323  | 520,507                           | 1,052,956                          | 24,856  | (NA)  | (NA)                                     |
| 1958.....                                       | 1,371                      | 1,463             | 538  | 55,476            | 261,027              | 44,125             | 86,278               | 184,432            | 439,940  | 425,981                           | 874,923                            | 18,105  | 91  | 64                                       |
| 1957 <sup>1 2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 62,313            | 286,158              | 50,604             | 98,389               | 208,300            | 503,679  | 442,910                           | 939,980                            | 23,815  | 89  | 68                                       |
| 1956 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 63,397            | 284,801              | 52,448             | 105,120              | 209,891            | 505,726  | 434,205                           | 928,656                            | 17,655  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 63,948            | 276,411              | 54,040             | 108,048              | 209,013            | 484,084  | 405,995                           | 879,942                            | (S)   | (NA)  | (NA)                                     |
| 1954.....                                       | 1,205                      | 1,275             | 498  | 59,929            | 243,904              | 50,067             | 99,329               | 181,835            | 413,310  | 352,480                           | 768,709                            | 17,503  | 89  | 63                                       |
| 1953 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 65,907            | 268,627              | 55,619             | 112,820              | 208,208            | 450,277  | 390,879                           | 841,156                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 64,108            | 247,261              | 53,983             | 106,773              | 185,892            | 401,457  | 325,531                           | 726,988                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 65,426            | 241,277              | 55,178             | 111,372              | 184,354            | 416,314  | 351,699                           | 768,013                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 65,048            | 216,199              | 56,295             | 112,901              | 169,476            | 372,096  | 305,767                           | 677,863                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 55,281            | 175,483              | 46,626             | 96,500               | 137,412            | 273,994  | 220,065                           | 496,885                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                       | 853                        | 911               | (NA)   | 56,973            | 161,759              | 49,371             | 100,490              | 128,736            | 266,966  | 199,007                           | 465,973                            | 15,540  | 91  | 60                                       |
| 1939.....                                       | (NA)                       | 669               | (NA)   | 35,916            | 49,067               | 30,386             | (NA)                 | 35,539             | 83,865   | 74,952                            | 158,817                            | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                       | (NA)                       | 563               | (NA)   | 37,880            | 50,569               | 33,471             | (NA)                 | 39,207             | 86,214   | 78,296                            | 164,510                            | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                       | (NA)                       | 536               | (NA)   | 28,797            | 33,811               | 25,165             | (NA)                 | 25,426             | 61,585   | 55,984                            | 117,569                            | (NA)  | (NA)  | (NA)                                     |
| 1933.....                                       | (NA)                       | 429               | (NA)   | 20,270            | 18,433               | 17,633             | (NA)                 | 14,155             | 39,300   | 35,220                            | 74,520                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....                                       | (NA)                       | 494               | (NA)   | (NA)              | (NA)                 | 17,226             | (NA)                 | 17,386             | 46,386   | 40,308                            | 86,694                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....                                       | (NA)                       | 547               | (NA)   | 25,609            | 37,501               | 22,388             | (NA)                 | 27,912             | 78,661   | 68,144                            | 146,805                            | (NA)  | (NA)  | (NA)                                     |
| 1927.....                                       | (NA)                       | 512               | (NA)   | 25,174            | 35,875               | 21,697             | (NA)                 | 26,439             | 65,443   | 63,093                            | 128,536                            | (NA)  | (NA)  | (NA)                                     |
| 1925.....                                       | (NA)                       | 462               | (NA)   | 22,406            | 31,835               | 19,268             | (NA)                 | 23,835             | 55,825   | 59,604                            | 115,429                            | (NA)  | (NA)  | (NA)                                     |
| 1923.....                                       | (NA)                       | 462               | (NA)   | 19,307            | 25,574               | 16,783             | (NA)                 | 19,341             | 47,968   | 52,280                            | 100,248                            | (NA)  | (NA)  | (NA)                                     |
| 1921.....                                       | (NA)                       | 413               | (NA)   | 13,695            | 18,462               | 11,485             | (NA)                 | 13,314             | 29,346   | 37,039                            | 66,385                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....                                       | (NA)                       | 558               | (NA)   | 17,883            | 21,585               | 15,224             | (NA)                 | 15,506             | 39,795   | 50,754                            | 90,549                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....                                       | (NA)                       | 552               | (NA)   | 14,196            | 9,593                | 12,126             | (NA)                 | 6,719              | 17,675   | 24,114                            | 41,789                             | (NA)  | (NA)  | (NA)                                     |
| 1909.....                                       | (NA)                       | 611               | (NA)   | 14,510            | 9,005                | 12,348             | (NA)                 | 6,331              | 17,544   | 24,394                            | 41,938                             | (NA)  | (NA)  | (NA)                                     |
| 1904.....                                       | (NA)                       | 649               | (NA)   | 15,315            | 8,217                | 13,379             | (NA)                 | 6,100              | 15,182   | 17,856                            | 33,038                             | (NA)  | (NA)  | (NA)                                     |
| 1899.....                                       | (NA)                       | 596               | (NA)   | 10,137            | 4,834                | 9,142              | (NA)                 | 3,894              | 9,027  | 10,813                            | 19,840                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3491.—METAL BARRELS, DRUMS, AND PAILS  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                       | 95                         | 145               | 93   | 10,508            | 66,614               | 8,480              | 17,713               | 49,127             | 119,617  | 183,880                           | 303,423                            | 6,412   | 92  | 86                                       |
| 1962 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 9,592             | 62,158               | 7,634              | 15,956               | 45,084             | 104,419  | 174,977                           | 279,535                            | (5,582)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 9,209             | 55,543               | 7,291              | 14,755               | 39,921             | 97,244   | 158,533                           | 257,101                            | 4,147   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 9,769             | 55,579               | 7,827              | 14,882               | 38,978             | 93,601   | 163,186                           | (256,342)                          | 5,665   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | (9,406)           | (54,795)             | (7,693)            | (15,309)             | (40,167)           | (105,702)  | (171,511)                         | (277,616)                          | (4,186)   | (NA)  | (NA)                                     |
| 1958 (new) <sup>2</sup> .....                   | 78                         | 126               | 75   | 9,496             | 53,200               | 7,584              | 15,244               | 38,766             | 96,171   | 153,135                           | 250,256                            | 5,332   | 92  | 86                                       |
| 1958 (old) <sup>3</sup> .....                   | (NA)                       | 121               | 70   | 9,055             | 50,427               | 7,239              | 14,246               | 36,352             | 91,230   | 150,911                           | 242,574                            | 4,416   | 92  | 86                                       |
| 1957 <sup>1 2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,420            | 56,727               | 8,437              | 17,447               | 42,692             | 104,053  | 175,630                           | 278,925                            | 5,433   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 10,547            | 55,249               | 8,724              | 18,570               | 42,414             | 102,020  | 168,667                           | 269,567                            | 7,841   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 10,657            | 52,342               | 8,832              | 18,919               | 40,490             | 95,616   | 156,489                           | 253,450                            | 7,786   | (NA)  | (NA)                                     |
| 1954.....                                       | 51                         | 93                | 63   | 10,585            | 48,501               | 8,687              | 17,924               | 37,058             | 85,667   | 137,670                           | 224,920                            | 5,860   | 82  | 86                                       |
| 1953 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 10,027            | 45,596               | 8,353              | 17,037               | 34,885             | 76,687   | 126,573                           | 203,260                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 9,773             | 39,687               | 8,278              | 16,729               | 30,807             | 78,159   | 113,317                           | 191,476                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 11,181            | 41,786               | 9,636              | 19,649               | 33,625             | 98,838   | 147,356                           | 246,194                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 9,329             | 30,713               | 8,305              | 15,965               | 24,706             | 72,831   | 110,218                           | 183,049                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 8,574             | 27,555               | 7,347              | 13,504               | 21,183             | 66,127   | 90,060                            | 156,187                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                       | 47                         | 71                | 53   | 10,927            | 31,368               | 9,341              | 18,483               | 24,955             | 64,186   | 109,086                           | 173,272                            | 3,607   | 83  | 83                                       |
| 1939.....                                       | (NA)                       | 64                | (NA)   | 6,964             | 9,545                | 6,072              | (NA)                 | 7,360              | 16,838   | 32,328                            | 49,166                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                       | (NA)                       | 58                | (NA)   | 7,051             | 9,159                | 6,231              | (NA)                 | 7,357              | 17,879   | 30,296                            | 48,175                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                       | (NA)                       | 64                | (NA)   | 6,481             | 7,624                | 5,761              | (NA)                 | 5,839              | 13,560   | 21,090                            | 34,650                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....                                       | (NA)                       | 58                | (NA)   | 7,015             | 6,959                | 6,517              | (NA)                 | 6,026              | 12,364   | 18,035                            | 30,399                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....                                       | (NA)                       | 52                | (NA)   | (NA)              | (NA)                 | 3,253              | (NA)                 | 3,513              | 8,654  | 12,990                            | 21,644                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....                                       | (NA)                       | 53                | (NA)   | 4,666             | 7,665                | 4,110              | (NA)                 | 5,769              | 15,878   | 21,947                            | 37,825                             | (NA)  | (NA)  | (NA)                                     |
| 1927.....                                       | (NA)                       | 39                | (NA)   | 3,344             | 5,390                | 2,853              | (NA)                 | 3,986              | 9,369  | 14,736                            | 24,105                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....                                       | (NA)                       | 33                | (NA)   | 2,286             | 3,866                | 2,021              | (NA)                 | 2,914              | 7,185  | 12,743                            | 19,928                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....                                       | (NA)                       | 39                | (NA)   | 3,145             | 4,912                | 2,668              | (NA)                 | 3,363              | 8,431  | 14,818                            | 23,249                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....                                       | (NA)                       | 31                | (NA)   | 2,445             | 3,525                | 2,013              | (NA)                 | 2,323              | 5,258  | 9,267                             | 14,525                             | (NA)  | (NA)  | (NA)                                     |
| 1919 <sup>4</sup> .....                         | (NA)                       | 33                | (NA)   | 3,956             | 5,899                | 3,322              | (NA)                 | 4,435              | 9,792  | 15,151                            | 24,943                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3492.—SAFES AND VAULTS                 |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                       | 28                         | 32                | 15   | 3,346             | 21,782               | 2,304              | 4,817                | 14,041             | 56,223   | 24,269                            | 78,012                             | 1,794   | 81  | 90-95                                    |
| 1962 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 3,300             | 20,825               | 2,070              | 4,390                | 12,323             | 50,901   | 20,559                            | 71,254                             | 934   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 3,383             | 20,183               | 2,169              | 4,456                | 12,231             | 49,240   | 20,677                            | 69,546                             | 1,343   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 3,581             | 19,273               | 2,368              | 4,661                | 12,253             | 46,614   | 20,106                            | 66,183                             | 534   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 3,724             | 20,062               | 2,391              | 4,838                | 12,577             | 44,202   | 19,429                            | 62,257                             | 1,021   | (NA)  | (NA)                                     |
| 1958.....                                       | 31                         | 33                | 12   | 3,495             | 15,843               | 2,323              | 4,417                | 10,722             | 39,537   | 18,514                            | 58,790                             | 683   | 82  | 97                                       |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year                                      | Companies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spec-<br>ializa-<br>tion<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|-----------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|---|-----------------------------------|------------------------------------|---|---|--|
|   |                       | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                   |                                    |   |   |  |
| INDUSTRY 3492.—SAFES AND VAULTS—Continued |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1957 <sup>1 2</sup>                       | (NA)                  | (NA)              | (NA)   | 3,548             | 14,869               | 2,402              | 4,492                | 10,054             | 38,141  | 15,225                            | 51,858                             | 627   | 86  | 97                                       |
| 1956 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 3,072             | 14,037               | 2,295              | 4,629                | 9,787              | 35,604  | 15,213                            | 50,566                             | 622   | (NA)  | (NA)                                     |
| 1954 <sup>1</sup>                         | 25                    | 26                | 10   | 3,442             | 15,030               | 2,581              | 5,050                | 10,341             | 29,583  | 12,398                            | 41,758                             | 714   | 87  | 97                                       |
| 1952 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 3,752             | 14,985               | 2,796              | (NA)                 | 10,754             | 29,211  | 11,276                            | 40,487                             | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 3,773             | 14,120               | 2,961              | (NA)                 | 10,790             | 28,695  | 13,976                            | 42,671                             | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 4,166             | 13,800               | 2,648              | (NA)                 | 7,848              | 21,154  | 12,405                            | 33,559                             | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 3,048             | 9,511                | 2,286              | (NA)                 | 6,263              | 17,450  | 8,379                             | 25,829                             | (NA)  | (NA)  | (NA)                                     |
| 1947 <sup>1</sup>                         | 26                    | 26                | (NA)   | 3,754             | 10,117               | 3,004              | 6,035                | 7,437              | 19,434  | 9,782                             | 29,216                             | 580   | 98  | 98                                       |
| 1939 <sup>1</sup>                         | (NA)                  | 16                | (NA)   | 1,558             | 2,286                | 1,236              | (NA)                 | 1,589              | 3,671   | 2,413                             | 6,084                              | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>1</sup>                         | (NA)                  | 14                | (NA)   | 1,359             | 1,951                | 1,132              | (NA)                 | 1,445              | 3,151   | 1,998                             | 5,149                              | (NA)  | (NA)  | (NA)                                     |
| 1935 <sup>1</sup>                         | (NA)                  | 14                | (NA)   | 1,060             | 1,280                | 809                | (NA)                 | 800                | 2,047   | 1,266                             | 3,313                              | (NA)  | (NA)  | (NA)                                     |
| 1933 <sup>1</sup>                         | (NA)                  | 21                | (NA)   | 1,208             | 1,058                | 933                | (NA)                 | 643                | 1,980   | 938                               | 2,918                              | (NA)  | (NA)  | (NA)                                     |
| 1931 <sup>1</sup>                         | (NA)                  | 25                | (NA)   | (NA)              | (NA)                 | 2,044              | (NA)                 | 2,176              | 7,534   | 4,073                             | 11,607                             | (NA)  | (NA)  | (NA)                                     |
| 1929 <sup>1</sup>                         | (NA)                  | 27                | (NA)   | 3,782             | 6,442                | 3,033              | (NA)                 | 4,439              | 12,970  | 6,392                             | 19,362                             | (NA)  | (NA)  | (NA)                                     |
| 1927 <sup>4</sup>                         | (NA)                  | 25                | (NA)   | 3,936             | 5,796                | 3,386              | (NA)                 | 4,494              | 11,214  | 7,226                             | 18,440                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3493.—STEEL SPRINGS              |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1963 <sup>1</sup>                         | 91                    | 96                | 49   | 6,287             | 41,321               | 5,110              | 10,633               | 31,398             | 69,305  | 89,063                            | 157,704                            | 1,962   | 91  | 67                                       |
| 1962 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 7,036             | 45,680               | 5,489              | 11,573               | 33,717             | 77,303  | 88,604                            | 165,132                            | 2,954   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 6,356             | 38,570               | 4,891              | 9,901                | 27,720             | 60,508  | 70,856                            | 131,091                            | (2,027)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 6,629             | 40,337               | 5,235              | 10,718               | 29,672             | 65,442  | 79,282                            | 143,274                            | 2,626   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 7,078             | 40,824               | 5,592              | 11,045               | 29,535             | 67,644  | 84,194                            | 150,398                            | (2,140)   | (NA)  | (NA)                                     |
| 1958 <sup>1</sup>                         | 84                    | 90                | 53   | 6,758             | 35,607               | 5,242              | 9,978                | 25,499             | 54,135  | 65,639                            | 120,525                            | 1,721   | 81  | 69                                       |
| 1957 <sup>1 2</sup>                       | (NA)                  | (NA)              | (NA)   | 9,194             | 51,289               | 7,436              | 15,341               | 38,740             | 80,175  | 124,146                           | 200,253                            | (S)   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 9,005             | 48,950               | 7,327              | 15,268               | 37,497             | 79,036  | 118,564                           | 194,749                            | 4,270   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 9,759             | 50,309               | 8,108              | 17,470               | 39,944             | 79,914  | 120,925                           | 198,543                            | (S)   | (NA)  | (NA)                                     |
| 1954 <sup>1</sup>                         | 89                    | 101               | 43   | 7,078             | 33,304               | 5,650              | 11,429               | 24,510             | 50,768  | 70,853                            | 122,928                            | 36,127  | 84  | 74                                       |
| 1953 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 8,120             | 38,569               | 6,755              | (NA)                 | 29,371             | 62,949  | 75,775                            | 138,724                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 7,377             | 33,069               | 6,195              | (NA)                 | 25,337             | 54,406  | 65,535                            | 119,941                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 7,968             | 32,629               | 6,880              | (NA)                 | 25,646             | 55,858  | 72,248                            | 128,106                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 7,179             | 27,555               | 5,813              | (NA)                 | 20,455             | 46,362  | 59,246                            | 105,608                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 7,158             | 25,289               | 5,794              | (NA)                 | 19,245             | 45,354  | 46,287                            | 91,641                             | (NA)  | (NA)  | (NA)                                     |
| 1947 <sup>1</sup>                         | 68                    | 81                | (NA)   | 7,760             | 24,938               | 6,747              | 14,135               | 20,233             | 45,876  | 46,770                            | 92,646                             | 2,285   | 89  | 68                                       |
| 1939 <sup>1</sup>                         | (NA)                  | 53                | (NA)   | 3,591             | 5,739                | 2,940              | (NA)                 | 4,277              | 10,249  | 12,795                            | 23,044                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>1</sup>                         | (NA)                  | 57                | (NA)   | 4,412             | 7,151                | 3,902              | (NA)                 | 5,804              | 11,080  | 16,153                            | 27,233                             | (NA)  | (NA)  | (NA)                                     |
| 1935 <sup>1</sup>                         | (NA)                  | 49                | (NA)   | 3,595             | 4,609                | 3,146              | (NA)                 | 3,566              | 7,184   | 11,049                            | 18,233                             | (NA)  | (NA)  | (NA)                                     |
| 1933 <sup>1</sup>                         | (NA)                  | 60                | (NA)   | 2,508             | 2,581                | 2,112              | (NA)                 | 1,972              | 4,870   | 5,543                             | 10,413                             | (NA)  | (NA)  | (NA)                                     |
| 1931 <sup>4</sup>                         | (NA)                  | 77                | (NA)   | (NA)              | (NA)                 | 2,561              | (NA)                 | 3,101              | 6,247   | 6,367                             | 12,614                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3494.—VALVES AND PIPE FITTINGS   |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1963 <sup>1</sup>                         | 580                   | 646               | 374  | 80,407            | 500,009              | 58,143             | 116,929              | 321,239            | 942,700   | 951,964                           | 1,588,509                          | 38,951  | 86  | 85                                       |
| 1962 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 81,278            | 491,448              | 57,933             | 116,414              | 311,696            | 932,953   | 655,184                           | 1,570,548                          | 38,351  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 76,358            | 446,371              | 54,199             | 107,417              | 277,651            | 820,905   | 616,418                           | 1,418,545                          | 29,911  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 74,987            | 424,565              | 54,205             | 105,682              | 273,009            | 768,973   | 577,541                           | 1,343,254                          | 32,004  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 75,980            | 424,354              | 56,096             | 110,748              | 280,416            | 820,939   | 573,390                           | 1,357,093                          | 35,066  | (NA)  | (NA)                                     |
| 1958 <sup>1</sup>                         | 549                   | 590               | 347  | 76,844            | 410,225              | 55,930             | 110,634              | 269,608            | 732,618   | 512,950                           | 1,263,960                          | 34,108  | 89  | 88                                       |
| 1957 <sup>1 2</sup>                       | (NA)                  | (NA)              | (NA)   | 80,035            | 419,524              | 60,203             | 121,247              | 282,034            | 814,214   | 614,715                           | 1,414,042                          | (S)   | 87  | 90                                       |
| 1956 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 78,644            | 406,194              | 62,188             | 126,282              | 283,746            | 800,026   | 614,723                           | 1,356,185                          | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 74,485            | 355,531              | 57,929             | 119,148              | 250,762            | 665,292   | 500,416                           | 1,126,802                          | (S)   | (NA)  | (NA)                                     |
| 1954 <sup>1</sup>                         | 523                   | 556               | 314  | 75,016            | 333,213              | 58,425             | 115,312              | 235,730            | 579,006   | 416,111                           | 989,463                            | 24,869  | 85  | 86                                       |
| 1953 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 78,954            | 348,685              | 61,658             | 127,484              | 252,872            | 604,376   | 406,757                           | 1,011,133                          | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 80,068            | 348,347              | 63,695             | 131,294              | 253,237            | 614,183   | 389,375                           | 1,003,558                          | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 81,621            | 344,441              | 66,045             | 139,629              | 254,000            | 617,228   | 399,311                           | 1,016,539                          | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 70,284            | 261,964              | 56,786             | 115,823              | 188,669            | 456,915   | 288,501                           | 745,416                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 64,246            | 219,245              | 50,941             | 99,892               | 153,424            | 384,740   | 204,115                           | 588,855                            | (NA)  | (NA)  | (NA)                                     |
| 1947 <sup>1</sup>                         | 436                   | 452               | (NA)   | 79,713            | 237,921              | 65,522             | 132,012              | 183,763            | 392,090   | 241,681                           | 633,771                            | 20,877  | 82  | 90                                       |
| 1939 <sup>4</sup>                         | (NA)                  | 298               | (NA)   | (NA)              | (NA)                 | 32,159             | (NA)                 | 43,936             | 107,511   | 57,416                            | 164,927                            | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3496.—COLLAPSIBLE TUBES          |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1963 <sup>1</sup>                         | 18                    | 24                | 19   | 3,984             | 18,804               | 3,540              | 6,923                | 14,771             | 30,562  | 20,396                            | 51,027                             | 1,925   | 88  | 100                                      |
| 1962 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 4,062             | 18,362               | 3,632              | 7,222                | 16,309             | 28,854  | 19,172                            | 47,630                             | 2,054   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 4,177             | 18,058               | 3,433              | 7,349                | 16,204             | 27,395  | 20,544                            | 47,977                             | 842   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 3,955             | 17,539               | 3,493              | 7,145                | 15,616             | 28,877  | 19,867                            | 48,625                             | 1,244   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 4,039             | 17,317               | 3,563              | 7,250                | 15,355             | 28,443  | 20,836                            | 48,673                             | 2,060   | (NA)  | (NA)                                     |
| 1958 <sup>1</sup>                         | 18                    | 22                | 20   | 3,837             | 16,118               | 3,367              | 6,852                | 12,453             | 25,257  | 19,183                            | 44,700                             | 1,572   | 91  | 100                                      |
| 1957 <sup>1 2</sup>                       | (NA)                  | (NA)              | (NA)   | 3,673             | 14,926               | 3,261              | 6,467                | 11,478             | 23,667  | 15,710                            | 39,379                             | 1,082   | 89  | 100                                      |
| 1956 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 4,313             | 16,399               | 3,872              | 7,704                | 12,936             | 26,022  | 16,936                            | 43,014                             | 1,050   | (NA)  | (NA)                                     |
| 1954 <sup>1</sup>                         | 19                    | 21                | 18   | 4,302             | 14,934               | 3,856              | 7,643                | 11,783             | 22,429  | 15,707                            | 38,067                             | 1,369   | 93  | 100                                      |
| 1953 <sup>1</sup>                         | (NA)                  | (NA)              | (NA)   | 4,082             | 13,360               | 3,679              | 7,114                | 10,902             | 20,533  | 13,877                            | 34,410                             | (NA)  | (NA)  | (NA)                                     |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year   | Companies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expendi-<br>tures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|-----------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                       | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3496.—COLLAPSIBLE TUBES—Continued       |                       |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1947.....  | 19                    | 19                | (NA)   | 3,866             | 9,415                | 3,475              | 6,886                | 7,205              | 16,942   | 10,055                            | 26,997                             | 1,477   | 91  | 100                                      |
| 1939.....  | (NA)                  | 14                | (NA)   | 2,195             | 2,695                | 1,933              | (NA)                 | 1,903              | 4,536  | 4,936                             | 9,472                              | (NA)  | (NA)  | (NA)                                     |
| 1937.....  | (NA)                  | 15                | (NA)   | 2,164             | 2,437                | 1,983              | (NA)                 | 1,872              | 3,913  | 5,272                             | 9,185                              | (NA)  | (NA)  | (NA)                                     |
| 1935.....  | (NA)                  | 16                | (NA)   | 2,138             | 2,306                | 1,961              | (NA)                 | 1,750              | 3,539  | 4,966                             | 8,505                              | (NA)  | (NA)  | (NA)                                     |
| 1933.....  | (NA)                  | 17                | (NA)   | 1,881             | 1,735                | 1,750              | (NA)                 | 1,482              | 3,090  | 3,834                             | 6,924                              | (NA)  | (NA)  | (NA)                                     |
| 1931.....  | (NA)                  | 17                | (NA)   | (NA)              | (NA)                 | 1,737              | (NA)                 | 1,634              | 3,492  | 4,142                             | 7,634                              | (NA)  | (NA)  | (NA)                                     |
| 1929.....  | (NA)                  | 17                | (NA)   | 1,968             | 2,429                | 1,821              | (NA)                 | 1,782              | 3,527  | 5,386                             | 8,913                              | (NA)  | (NA)  | (NA)                                     |
| 1927.....  | (NA)                  | 17                | (NA)   | 2,169             | 2,568                | 1,984              | (NA)                 | 1,918              | 4,247  | 7,104                             | 11,351                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....  | (NA)                  | 16                | (NA)   | (NA)              | (NA)                 | 1,948              | (NA)                 | 1,877              | 3,755  | 5,694                             | 9,449                              | (NA)  | (NA)  | (NA)                                     |
| 1923 <sup>4</sup> .....                          | (NA)                  | 12                | (NA)   | 1,413             | 1,448                | 1,297              | (NA)                 | 1,161              | 2,143  | 3,047                             | 5,190                              | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3497.—METAL FOIL AND LEAF               |                       |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 56                    | 67                | 40   | 4,981             | 32,438               | 3,733              | 7,831                | 21,775             | 63,486   | 117,887                           | 180,567                            | 6,410   | 84  | 45                                       |
| 1962 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 3,465             | 23,688               | 2,410              | 5,454                | 15,228             | 48,912   | 74,531                            | 120,593                            | (4,857)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 3,109             | 20,826               | 2,226              | 4,969                | 13,534             | 40,248   | 63,127                            | 102,185                            | (3,983)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 3,275             | 20,888               | 2,369              | 5,473                | 13,456             | 43,125   | 66,684                            | 109,527                            | (S)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 3,376             | 20,839               | 2,441              | 5,543                | 14,239             | 41,560   | 70,316                            | 110,071                            | (S)   | (NA)  | (NA)                                     |
| 1958 <sup>4</sup> .....                          | 59                    | 66                | 31   | 3,500             | 18,709               | 2,522              | 5,149                | 12,118             | 38,063   | 59,165                            | 96,438                             | 3,296   | 83  | 52                                       |
| INDUSTRY 3498.—FABRICATED PIPE AND FITTINGS      |                       |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 328                   | 349               | 146  | 13,007            | 79,087               | 9,346              | 18,733               | 51,671             | 144,598  | 161,499                           | 305,640                            | 5,099   | 92  | 91                                       |
| 1962 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 12,090            | 77,328               | 8,699              | 17,768               | 50,475             | 130,264  | 175,325                           | 301,593                            | 3,417   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 11,841            | 71,991               | 8,510              | 16,977               | 46,125             | 136,448  | 156,314                           | 287,401                            | (5,225)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 13,464            | 77,542               | 9,738              | 19,885               | 50,712             | 124,256  | 178,478                           | 304,973                            | 5,224   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 13,331            | 77,990               | 9,706              | 20,001               | 50,159             | 143,401  | 185,940                           | 327,124                            | 5,494   | (NA)  | (NA)                                     |
| 1958.....  | 273                   | 286               | 136  | 15,214            | 84,015               | 11,139             | 22,238               | 55,347             | 155,621  | 174,661                           | 329,979                            | 4,103   | 89  | 93                                       |
| 1957 <sup>1 2</sup> .....                        | (NA)                  | (NA)              | (NA)   | 14,295            | 78,257               | 10,900             | 21,229               | 52,613             | 154,887  | 143,272                           | 287,645                            | (S)   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 13,457            | 68,278               | 10,285             | 19,881               | 47,521             | 139,233  | 128,638                           | 257,720                            | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 12,495            | 58,603               | 9,549              | 18,291               | 40,787             | 104,789  | 111,255                           | 214,246                            | (S)   | (NA)  | (NA)                                     |
| 1954.....  | 237                   | 250               | 130  | 12,670            | 62,092               | 9,943              | 19,352               | 43,945             | 122,408  | 122,283                           | 249,923                            | 4,804   | 92  | 88                                       |
| 1953 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 12,858            | 64,240               | 10,368             | (NA)                 | 46,801             | 111,522  | 98,489                            | 210,011                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 12,793            | 62,580               | 8,974              | (NA)                 | 37,813             | 98,790   | 87,676                            | 186,466                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 12,152            | 51,586               | 8,998              | (NA)                 | 34,538             | 91,855   | 88,901                            | 180,756                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 10,514            | 38,304               | 8,236              | (NA)                 | 26,795             | 84,303   | 74,023                            | 158,326                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 9,867             | 37,745               | 7,427              | (NA)                 | 21,868             | 80,982   | 61,412                            | 142,394                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....  | 206                   | 212               | (NA)   | 10,568            | 33,362               | 8,273              | 16,781               | 23,172             | 58,786   | 57,190                            | 115,976                            | 4,084   | 82  | 83                                       |
| 1939 <sup>4</sup> .....                          | (NA)                  | 112               | (NA)   | (NA)              | (NA)                 | 2,792              | (NA)                 | 3,737              | 10,842   | 12,172                            | 23,014                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3499.—FABRICATED METAL PRODUCTS, N.E.C. |                       |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 1,254                 | 1,277             | 346  | 28,302            | 151,919              | 22,209             | 45,673               | 105,063            | 299,326  | 276,264                           | 573,185                            | 16,189  | 89  | 62                                       |
| 1962 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 24,125            | 130,817              | 18,258             | 39,071               | 84,439             | 237,877  | 238,432                           | 469,200                            | (16,647)  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 21,237            | 112,807              | 15,819             | 33,798               | 69,773             | 204,000  | 198,831                           | 401,629                            | 10,741  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 22,527            | 112,386              | 17,027             | 36,160               | 72,559             | 199,811  | 205,925                           | 403,688                            | 12,605  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 23,027            | 108,601              | 17,870             | 34,058               | 73,104             | 212,268  | 188,031                           | 397,915                            | (S)   | (NA)  | (NA)                                     |
| 1958.....  | 962                   | 974               | 213  | 20,200            | 93,199               | 15,600             | 29,845               | 62,747             | 180,132  | 160,374                           | 340,096                            | 11,362  | 88  | 62                                       |
| 1957 <sup>1 2</sup> .....                        | (NA)                  | (NA)              | (NA)   | 19,087            | 82,869               | 15,236             | 29,002               | 58,022             | 169,812  | 151,655                           | 314,705                            | 8,220   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 19,683            | 80,586               | 15,775             | 29,841               | 56,070             | 165,598  | 149,018                           | 306,420                            | 10,830  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                          | (NA)                  | (NA)              | (NA)   | 20,277            | 80,107               | 16,542             | 32,243               | 56,562             | 158,348  | 134,687                           | 282,802                            | (S)   | (NA)  | (NA)                                     |
| 1954.....  | 1,017                 | 1,026             | 183  | 18,069            | 68,191               | 14,556             | 28,228               | 47,982             | 130,687  | 120,894                           | 254,081                            | 8,088   | 85  | 53                                       |
| 1947.....  | 430                   | 438               | (NA)   | 7,633             | 21,190               | 6,377              | 13,288               | 15,560             | 39,967   | 33,238                            | 73,205                             | 2,028   | 90  | 60                                       |
| 1939 <sup>4</sup> .....                          | (NA)                  | 104               | (NA)   | (NA)              | (NA)                 | 5,097              | (NA)                 | 6,802              | 19,328   | 13,085                            | 32,413                             | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1954 excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1954 excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Data for Alaska and Hawaii are excluded for years prior to 1958.

<sup>3</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification, accordingly, the data for 1958-1963 are not comparable with those for earlier years.

<sup>4</sup>No separate figures are available for prior years.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                    | 1963           |                           |               |          |                    |           |           |                                      |                   |                    | 1958                      |               |                                      |
|---|----------------|---------------------------|---------------|----------|--------------------|-----------|-----------|--------------------------------------|-------------------|--------------------|---------------------------|---------------|--------------------------------------|
|   | Establishments |                           | All employees |          | Production workers |           |           | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees | Value added by manufacture, adjusted |
|   | Total          | With 20 employees or more | Total         | Payroll  | Total              | Man-hours | Wages     |                                      |                   |                    |                           |               |                                      |
| (number)  | (number)       | (number)                  | (\$1,000)     | (number) | (1,000)            | (\$1,000) | (\$1,000) | (\$1,000)                            | (\$1,000)         | (\$1,000)          | (number)                  | (\$1,000)     |                                      |
| INDUSTRY 3481.—FABRICATED WIRE PRODUCTS, N.E.C. |                |                           |               |          |                    |           |           |                                      |                   |                    |                           |               |                                      |
| Total.....                                      | 1,567          | 557                       | 55,514        | 297,626  | 45,070             | 92,096    | 213,329   | 539,137                              | 490,937           | 1,030,876          | 24,795                    | 55,476        | 439,940                              |
| New England.....                                | 146            | 59                        | 4,375         | 21,299   | 3,555              | 7,790     | 15,281    | 36,275                               | 26,332            | 61,848             | 1,234                     | 4,972         | 35,647                               |
| Massachusetts....                               | 55             | 22                        | 1,530         | 6,848    | 1,240              | 2,532     | 4,909     | 12,760                               | 11,380            | 23,507             | 481                       | 2,219         | 15,233                               |
| Rhode Island.....                               | 14             | 2                         | 197           | 1,014    | 168                | 348       | 833       | 1,904                                | 1,593             | 3,543              | 229                       | 138           | 832                                  |
| Connecticut.....                                | 71             | 35                        | 2,614         | 13,321   | 2,119              | 4,857     | 9,450     | 21,408                               | 13,236            | 34,451             | 519                       | 2,603         | 19,509                               |
| Middle Atlantic....                             | 414            | 131                       | 13,868        | 73,701   | 11,196             | 22,605    | 53,463    | 146,472                              | 113,261           | 260,568            | 5,018                     | 14,271        | 117,298                              |
| New York.....                                   | 216            | 59                        | 4,665         | 23,070   | 3,745              | 7,635     | 16,391    | 40,957                               | 33,113            | 73,182             | 1,350                     | 4,943         | 34,641                               |
| New Jersey.....                                 | 90             | 24                        | 2,935         | 16,688   | 2,390              | 4,628     | 11,957    | 35,930                               | 24,581            | 60,748             | 871                       | 2,662         | 25,822                               |
| Pennsylvania.....                               | 108            | 48                        | 6,268         | 33,943   | 5,061              | 10,342    | 25,115    | 69,585                               | 55,567            | 126,638            | 2,797                     | 6,666         | 56,835                               |
| East North Central.                             | 439            | 179                       | 21,908        | 126,272  | 18,032             | 36,833    | 92,148    | 203,220                              | 186,115           | 390,014            | 9,392                     | 22,373        | 175,216                              |
| Ohio.....                                       | 101            | 33                        | 2,588         | 14,031   | 2,102              | 4,264     | 9,825     | 25,464                               | 20,193            | 45,697             | 930                       | 4,412         | 39,410                               |
| Indiana.....                                    | 56             | 28                        | 3,107         | 16,389   | 2,626              | 5,258     | 12,578    | 27,194                               | 25,452            | 52,574             | 1,145                     | 2,666         | 19,950                               |
| Illinois.....                                   | 168            | 69                        | 8,528         | 48,841   | 7,045              | 14,143    | 35,274    | 74,043                               | 73,241            | 147,872            | 3,599                     | 7,456         | 57,858                               |
| Michigan.....                                   | 88             | 41                        | 6,827         | 42,538   | 5,553              | 11,684    | 31,215    | 69,283                               | 62,111            | 131,594            | 3,013                     | 6,777         | 46,681                               |
| Wisconsin.....                                  | 26             | 8                         | 858           | 4,473    | 706                | 1,484     | 3,256     | 7,236                                | 5,118             | 12,277             | 705                       | 1,062         | 11,317                               |
| West North Central.                             | 86             | 36                        | 3,358         | 17,825   | 2,654              | 5,385     | 11,988    | 33,576                               | 32,370            | 65,649             | 2,017                     | 3,177         | 27,910                               |
| Minnesota.....                                  | 21             | 4                         | 465           | 2,655    | 403                | 858       | 2,088     | 4,558                                | 3,394             | 7,908              | 205                       | 464           | 3,668                                |
| Iowa.....                                       | 12             | 5                         | 553           | 2,658    | 475                | 935       | 1,979     | 4,702                                | 5,519             | 10,148             | 463                       | 439           | 2,415                                |
| Missouri.....                                   | 36             | 19                        | 1,951         | 10,748   | 1,467              | 2,985     | 6,788     | 20,845                               | 20,208            | 40,891             | 1,259                     | 1,922         | 19,016                               |
| Kansas.....                                     | 10             | 7                         | 314           | 1,385    | 252                | 483       | 934       | 2,615                                | 2,489             | 5,056              | 87                        | 283           | 2,412                                |
| South Atlantic....                              | 80             | 28                        | 3,014         | 12,957   | 2,445              | 4,919     | 8,825     | 28,448                               | 37,697            | 65,842             | 2,290                     | 2,608         | 22,779                               |
| Maryland.....                                   | 18             | 6                         | 1,020         | 5,166    | 752                | 1,461     | 3,129     | 14,455                               | 14,236            | 28,185             | 1,074                     | 1,152         | 12,927                               |
| North Carolina...                               | 19             | 11                        | 1,137         | 3,912    | 1,005              | 2,028     | 3,008     | 5,725                                | 11,946            | 17,432             | 470                       | 856           | 4,294                                |
| Florida.....                                    | 29             | 5                         | 494           | 2,325    | 398                | 863       | 1,595     | 4,977                                | 6,405             | 11,343             | 344                       | 230           | 2,443                                |
| East South Central.                             | 52             | 26                        | 2,439         | 10,613   | 1,966              | 4,121     | 7,032     | 26,104                               | 23,390            | 49,024             | 1,535                     | 1,616         | 10,872                               |
| Tennessee.....                                  | 17             | 10                        | 833           | 3,234    | 650                | 1,378     | 2,100     | 6,404                                | 5,931             | 12,174             | 153                       | 708           | 3,372                                |
| Alabama.....                                    | 17             | 8                         | 519           | 2,361    | 438                | 936       | 1,734     | 7,088                                | 7,506             | 14,215             | 401                       | 272           | 3,730                                |
| West South Central.                             | 73             | 24                        | 1,700         | 8,030    | 1,319              | 2,907     | 5,601     | 18,022                               | 25,978            | 44,224             | 704                       | 1,724         | 12,569                               |
| Oklahoma.....                                   | 13             | 2                         | 235           | 1,109    | 165                | 339       | 635       | 2,951                                | 3,897             | 7,020              | 85                        | 435           | 2,271                                |
| Texas.....                                      | 51             | 18                        | 1,339         | 6,403    | 1,056              | 2,324     | 4,617     | 13,227                               | 21,100            | 34,461             | 576                       | 978           | 8,220                                |
| Mountain.....                                   | 26             | 4                         | 278           | 1,367    | 225                | 448       | 866       | 2,589                                | 3,015             | 5,634              | 150                       | 196           | 1,517                                |
| Colorado.....                                   | 10             | 2                         | 143           | 830      | 109                | 217       | 500       | 1,311                                | 1,467             | 2,786              | 79                        | 126           | 1,076                                |
| Pacific.....                                    | 251            | 70                        | 4,574         | 25,562   | 3,678              | 7,088     | 18,125    | 44,431                               | 42,779            | 88,073             | 2,455                     | 4,539         | 36,132                               |
| Washington.....                                 | 20             | 7                         | 297           | 1,764    | 226                | 434       | 1,214     | 3,237                                | 4,160             | 7,410              | 98                        | 229           | 2,653                                |
| California.....                                 | 212            | 60                        | 4,071         | 22,871   | 3,276              | 6,391     | 16,247    | 39,564                               | 36,996            | 77,489             | 2,313                     | 4,205         | 32,970                               |
| INDUSTRY 3491.—METAL BARRELS, DRUMS, AND PAILS  |                |                           |               |          |                    |           |           |                                      |                   |                    |                           |               |                                      |
| Total.....                                      | 145            | 93                        | 10,508        | 66,614   | 8,480              | 17,713    | 49,127    | 119,617                              | 183,880           | 303,423            | 6,412                     | 9,496         | 96,171                               |
| New England.....                                | 6              | 2                         | 121           | 722      | 91                 | 201       | 456       | 1,219                                | 2,405             | 3,635              | 115                       | 127           | 885                                  |
| Middle Atlantic....                             | 38             | 26                        | 3,015         | 19,264   | 2,467              | 5,255     | 14,255    | 35,272                               | 51,621            | 86,536             | 1,507                     | 2,472         | 25,085                               |
| New York.....                                   | 13             | 4                         | 417           | 2,248    | 362                | 749       | 1,852     | 3,882                                | 6,654             | 10,373             | 230                       | 372           | 2,903                                |
| New Jersey.....                                 | 13             | 13                        | 1,921         | 12,856   | 1,530              | 3,220     | 9,219     | 23,447                               | 31,569            | 54,937             | 1,128                     | 1,272         | 14,073                               |
| Pennsylvania.....                               | 12             | 9                         | 677           | 4,160    | 575                | 1,286     | 3,184     | 7,943                                | 13,398            | 21,226             | 149                       | 828           | 8,109                                |
| North Central.....                              | 48             | 34                        | 4,527         | 29,576   | 3,627              | 7,473     | 21,561    | 51,789                               | 68,020            | 120,625            | 2,776                     | 4,249         | 39,016                               |
| Ohio.....                                       | 15             | 14                        | 1,571         | 9,942    | 1,320              | 2,498     | 7,698     | 15,152                               | 22,912            | 38,200             | 808                       | 1,647         | 13,108                               |
| Illinois.....                                   | 16             | 12                        | 2,082         | 14,768   | 1,629              | 3,596     | 10,485    | 27,063                               | 34,130            | 61,037             | 1,483                     | 2,110         | 21,857                               |
| South Atlantic....                              | 12             | 5                         | 229           | 1,077    | 202                | 402       | 837       | 2,700                                | 5,017             | 7,760              | 62                        | 270           | 2,967                                |
| East South Central.                             | 8              | 5                         | 276           | 1,333    | 236                | 521       | 1,039     | 2,885                                | 6,228             | 9,028              | 142                       | 354           | 3,713                                |
| West South Central.                             | 17             | 11                        | 1,269         | 8,177    | 1,011              | 2,085     | 6,031     | 16,631                               | 31,010            | 47,330             | 592                       | 1,122         | 15,062                               |
| Texas.....                                      | 9              | 6                         | 709           | 4,400    | 562                | 1,128     | 3,219     | 8,830                                | 16,638            | 25,315             | 313                       | 571           | 8,468                                |
| West.....                                       | 16             | 10                        | 1,071         | 6,465    | 846                | 1,776     | 4,948     | 9,121                                | 19,579            | 28,509             | 1,218                     | 902           | 9,443                                |
| California.....                                 | 12             | 9                         | 1,015         | 6,146    | 798                | 1,691     | 4,698     | 8,371                                | 18,296            | 26,484             | 1,190                     | 879           | 9,254                                |
| INDUSTRY 3492.—SAFES AND VAULTS                 |                |                           |               |          |                    |           |           |                                      |                   |                    |                           |               |                                      |
| Total.....                                      | 32             | 15                        | 3,346         | 21,782   | 2,304              | 4,817     | 14,041    | 56,223                               | 24,269            | 78,012             | 1,794                     | 3,495         | 39,537                               |
| Northeast.....                                  | 5              | 2                         | 95            | 549      | 64                 | 122       | 272       | 1,094                                | 724               | 1,909              | 34                        | 208           | 1,709                                |
| North Central,<br>South and West....            | 27             | 13                        | 3,251         | 21,233   | 2,240              | 4,695     | 13,769    | 55,129                               | 23,545            | 76,103             | 1,760                     | 3,287         | 37,828                               |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>            | 1963              |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  | 1958                      |   |
|---|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|---|--------------------------------|---------------------------------|--|---------------------------|---|
|   | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted<br>(\$1,000) | Cost of materials<br>(\$1,000) | Value of shipments<br>(\$1,000) | Capital expenditures, new<br>(\$1,000) | All employees<br>(number) | Value added by manufacture, adjusted<br>(\$1,000) |
|   | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                |                                 |  |                           |   |
| INDUSTRY 3493.—STEEL SPRINGS            |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                              | 96                | 49                                    | 6,287             | 41,321               | 5,110              | 10,633               | 31,398             | 69,305  | 89,063                         | 157,704                         | 1,962                                  | 6,758                     | 54,135  |
| New England.....                        | 8                 | 1                                     | 72                | 434                  | 52                 | 112                  | 295                | 674   | 456                            | 1,156                           | 14                                     | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Middle Atlantic....                     | 22                | 16                                    | 1,872             | 12,568               | 1,543              | 3,207                | 9,627              | 22,894  | 27,681                         | 50,054                          | 781                                    | 2,041                     | 15,329  |
| New York.....                           | 7                 | 4                                     | 525               | 3,889                | 448                | 972                  | 3,152              | 6,665   | 10,742                         | 17,188                          | 184                                    | 439                       | 3,302   |
| East North Central.                     | 34                | 22                                    | 3,591             | 24,167               | 2,960              | 6,175                | 18,854             | 38,036  | 54,842                         | 92,675                          | 1,010                                  | 2,526                     | 21,160  |
| Illinois.....                           | 6                 | 3                                     | 646               | 4,210                | 506                | 1,036                | 3,148              | 6,285   | 9,696                          | 16,024                          | 316                                    | 527                       | 5,365   |
| Michigan.....                           | 17                | 12                                    | 1,629             | 11,196               | 1,353              | 2,876                | 8,831              | 19,589  | 25,577                         | 45,038                          | 343                                    | 917                       | 7,327   |
| West North Central.                     | 5                 | 2                                     | 77                | 358                  | 64                 | 128                  | 290                | 594   | 541                            | 1,153                           | 7                                      | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| South.....                              | 9                 | 4                                     | 221               | 1,003                | 183                | 390                  | 772                | 2,280   | 1,361                          | 3,672                           | 86                                     | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Pacific.....                            | 18                | 4                                     | 454               | 2,791                | 308                | 621                  | 1,560              | 4,827   | 4,182                          | 8,994                           | 64                                     | 449                       | 3,809   |
| California.....                         | 13                | 3                                     | 387               | 2,396                | 265                | 533                  | 1,315              | 4,076   | 3,632                          | 7,699                           | 58                                     | 376                       | 3,197   |
| INDUSTRY 3494.—VALVES AND PIPE FITTINGS |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                              | 646               | 374                                   | 80,407            | 500,009              | 58,148             | 116,929              | 321,239            | 942,700   | 651,964                        | 1,588,509                       | 38,951                                 | 76,844                    | 732,618   |
| New England.....                        | 68                | 37                                    | 8,730             | 52,115               | 5,918              | 12,120               | 32,025             | 88,634  | 60,439                         | 153,511                         | 4,322                                  | 9,594                     | 76,600  |
| Massachusetts....                       | 44                | 21                                    | 5,101             | 31,101               | 3,287              | 6,834                | 18,134             | 49,827  | 36,388                         | 88,039                          | 1,930                                  | 5,439                     | 44,434  |
| Connecticut.....                        | 13                | 9                                     | 2,222             | 12,889               | 1,573              | 3,069                | 8,229              | 22,702  | 13,340                         | 38,246                          | 1,854                                  | 2,811                     | 19,506  |
| Middle Atlantic....                     | 166               | 93                                    | 18,839            | 114,081              | 13,449             | 26,883               | 73,654             | 215,517   | 130,780                        | 343,832                         | 10,290                                 | 16,659                    | 155,842   |
| New York.....                           | 45                | 21                                    | 4,166             | 23,050               | 3,164              | 6,492                | 16,630             | 41,279  | 26,212                         | 66,579                          | 4,331                                  | 3,390                     | 31,387  |
| New Jersey.....                         | 50                | 27                                    | 3,951             | 26,151               | 2,488              | 5,085                | 14,051             | 49,921  | 26,022                         | 75,301                          | 1,632                                  | 3,357                     | 32,897  |
| Pennsylvania....                        | 71                | 45                                    | 10,722            | 64,880               | 7,797              | 15,306               | 42,966             | 124,317   | 78,546                         | 201,952                         | 4,327                                  | 9,912                     | 91,558  |
| East North Central.                     | 173               | 113                                   | 29,570            | 191,888              | 21,707             | 42,936               | 124,369            | 340,905   | 260,532                        | 596,627                         | 11,838                                 | 32,260                    | 300,574   |
| Ohio.....                               | 57                | 35                                    | 9,471             | 59,070               | 7,283              | 14,751               | 40,419             | 106,083   | 68,419                         | 170,878                         | 4,315                                  | 8,166                     | 81,059  |
| Indiana.....                            | 22                | 18                                    | 3,767             | 23,254               | 2,770              | 5,301                | 14,754             | 45,753  | 36,981                         | 81,435                          | 1,037                                  | 2,945                     | 35,696  |
| Illinois.....                           | 55                | 35                                    | 10,506            | 70,916               | 7,430              | 14,406               | 44,178             | 125,129   | 92,198                         | 218,910                         | 3,650                                  | 15,289                    | 136,109   |
| Michigan.....                           | 30                | 20                                    | 4,442             | 29,354               | 3,339              | 6,664                | 19,535             | 50,666  | 50,408                         | 99,071                          | 1,929                                  | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Wisconsin.....                          | 9                 | 5                                     | 1,384             | 9,294                | 885                | 1,814                | 5,483              | 13,274  | 12,526                         | 26,333                          | 907                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| West North Central.                     | 28                | 16                                    | 4,724             | 28,259               | 3,292              | 6,925                | 18,196             | 73,885  | 41,279                         | 111,631                         | 1,703                                  | 2,844                     | 37,354  |
| Iowa.....                               | 8                 | 5                                     | 2,165             | 13,005               | 1,470              | 3,229                | 8,461              | 32,305  | 19,173                         | 51,595                          | 1,123                                  | 1,644                     | 21,635  |
| Missouri.....                           | 9                 | 5                                     | 1,453             | 9,213                | 1,007              | 2,016                | 5,511              | 26,056  | 10,969                         | 33,635                          | 123                                    | 600                       | 5,715   |
| South Atlantic....                      | 24                | 13                                    | 1,530             | 7,401                | 1,222              | 2,487                | 5,400              | 12,905  | 9,008                          | 21,831                          | 688                                    | 1,524                     | 13,203  |
| East South Central.                     | 18                | 11                                    | 6,046             | 34,423               | 4,983              | 9,182                | 25,455             | 67,425  | 48,784                         | 115,744                         | 2,618                                  | 4,998                     | 50,943  |
| Alabama.....                            | 6                 | 4                                     | 2,789             | 14,758               | 2,397              | 4,131                | 10,910             | 29,342  | 15,622                         | 42,704                          | 789                                    | 2,294                     | 19,406  |
| West South Central.                     | 64                | 36                                    | 4,580             | 26,688               | 3,168              | 6,642                | 16,216             | 57,973  | 43,199                         | 102,898                         | 1,793                                  | 3,935                     | 45,235  |
| Oklahoma.....                           | 16                | 9                                     | 558               | 3,810                | 401                | 898                  | 2,330              | 7,675   | 3,786                          | 11,954                          | 243                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Texas.....                              | 38                | 22                                    | 3,186             | 19,407               | 2,155              | 4,522                | 11,370             | 42,420  | 35,196                         | 77,817                          | 1,410                                  | 3,034                     | 35,417  |
| Mountain.....                           | 9                 | 5                                     | 619               | 4,216                | 414                | 849                  | 2,271              | 9,496   | 8,740                          | 17,426                          | 511                                    | 515                       | 5,368   |
| Pacific.....                            | 96                | 50                                    | 5,769             | 40,938               | 3,995              | 8,905                | 23,653             | 75,960  | 49,203                         | 125,009                         | 5,188                                  | 4,515                     | 47,499  |
| California.....                         | 88                | 48                                    | 5,607             | 39,867               | 3,875              | 8,653                | 22,963             | 74,263  | 47,183                         | 121,149                         | 5,120                                  | 4,394                     | 45,982  |
| INDUSTRY 3496.—COLLAPSIBLE TUBES        |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                              | 24                | 19                                    | 3,984             | 18,804               | 3,540              | 6,923                | 14,771             | 30,562  | 20,396                         | 51,027                          | 1,925                                  | 3,837                     | 25,257  |
| Northeast.....                          | 12                | 11                                    | 2,659             | 12,399               | 2,380              | 4,620                | 9,841              | 18,603  | 12,332                         | 30,788                          | 1,445                                  | 2,442                     | 15,213  |
| North Central....                       | 7                 | 4                                     | 355               | 1,532                | 298                | 625                  | 1,087              | 2,860   | 1,723                          | 4,567                           | 80                                     | 300                       | 2,027   |
| South and West....                      | 5                 | 4                                     | 970               | 4,873                | 862                | 1,678                | 3,843              | 9,099   | 6,341                          | 15,672                          | 400                                    | 1,095                     | 8,017   |
| INDUSTRY 3497.—METAL FOIL AND LEAF      |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                              | 67                | 40                                    | 4,981             | 32,438               | 3,733              | 7,831                | 21,775             | 63,486  | 117,887                        | 180,567                         | 6,410                                  | 3,500                     | 38,063  |
| Middle Atlantic....                     | 26                | 10                                    | 655               | 4,173                | 518                | 1,087                | 2,851              | 8,331   | 13,940                         | 21,815                          | 748                                    | 655                       | 6,717   |
| New Jersey.....                         | 11                | 5                                     | 360               | 2,445                | 280                | 597                  | 1,591              | 5,658   | 8,186                          | 13,606                          | 651                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| East North Central.                     | 12                | 8                                     | 1,454             | 9,867                | 1,054              | 2,209                | 6,358              | 21,693  | 34,403                         | 55,823                          | 2,229                                  | 1,193                     | 12,694  |
| South.....                              | 9                 | 8                                     | 1,417             | 8,719                | 1,096              | 2,331                | 6,245              | 17,198  | 45,633                         | 62,853                          | 2,420                                  | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Pacific.....                            | 8                 | 6                                     | 560               | 4,103                | 360                | 710                  | 2,176              | 5,684   | 8,464                          | 13,839                          | 479                                    | 521                       | 6,233   |
| All other divisions                     | 12                | 8                                     | 895               | 5,576                | 705                | 1,494                | 4,145              | 10,580  | 15,447                         | 26,237                          | 534                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Connecticut.....                        | 6                 | 4                                     | 344               | 1,881                | 260                | 561                  | 1,354              | 5,402   | 5,430                          | 10,510                          | 46                                     | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                     | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3498.—FABRICATED PIPES AND FITTINGS     |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                       | 349            | 146                                | 13,007         | 79,087            | 9,346              | 18,733            | 51,671          | 144,598                              | 161,499           | 305,640            | 5,099                     | 15,214           | 155,621                              |
| New England.....                                 | 20             | 7                                  | 538            | 2,925             | 420                | 823               | 1,998           | 5,626                                | 4,477             | 9,517              | 120                       | 438              | 3,839                                |
| Massachusetts....                                | 9              | 3                                  | 332            | 1,685             | 244                | 476               | 1,116           | 3,609                                | 2,682             | 5,793              | 61                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Middle Atlantic....                              | 89             | 45                                 | 4,615          | 28,626            | 3,066              | 6,004             | 16,938          | 54,670                               | 53,589            | 106,863            | 1,535                     | 4,824            | 63,304                               |
| New York.....                                    | 23             | 7                                  | 581            | 2,877             | 459                | 951               | 1,985           | 6,240                                | 6,264             | 12,086             | 103                       | 671              | 6,862                                |
| New Jersey.....                                  | 22             | 14                                 | 1,486          | 9,225             | 995                | 2,031             | 5,351           | 15,885                               | 16,828            | 32,039             | 611                       | 1,727            | 18,625                               |
| Pennsylvania....                                 | 44             | 24                                 | 2,548          | 16,524            | 1,612              | 3,022             | 9,602           | 32,545                               | 30,497            | 62,738             | 821                       | 2,426            | 37,817                               |
| East North Central.                              | 93             | 40                                 | 3,603          | 21,554            | 2,777              | 5,540             | 15,197          | 42,227                               | 46,974            | 88,978             | 1,989                     | 5,308            | 48,851                               |
| Ohio.....  | 29             | 14                                 | 1,834          | 11,839            | 1,366              | 2,705             | 8,265           | 25,459                               | 26,411            | 51,395             | 795                       | 3,582            | 39,995                               |
| Illinois.....                                    | 20             | 9                                  | 447            | 2,466             | 370                | 743               | 1,863           | 3,884                                | 6,286             | 10,377             | 139                       | 627              | 5,155                                |
| Michigan.....                                    | 27             | 11                                 | 844            | 4,884             | 655                | 1,317             | 3,428           | 8,352                                | 8,661             | 17,096             | 432                       | 683              | 429                                  |
| West North Central.                              | 17             | 4                                  | 357            | 1,552             | 231                | 474               | 1,150           | 1,052                                | 5,201             | 8,086              | 93                        | 1,295            | 13,392                               |
| Missouri.....                                    | 12             | 3                                  | 298            | 1,226             | 182                | 376               | 911             | 604                                  | 4,535             | 6,993              | 61                        | 955              | 10,790                               |
| South Atlantic.....                              | 20             | 10                                 | 1,005          | 6,068             | 658                | 1,375             | 3,456           | 9,956                                | 10,642            | 20,668             | 465                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Florida.....                                     | 6              | 2                                  | 131            | 666               | 102                | 184               | 353             | 1,189                                | 2,150             | 3,346              | 62                        | 121              | 642                                  |
| East South Central.                              | 6              | 2                                  | 66             | 354               | 55                 | 107               | 258             | 393                                  | 795               | 1,168              | 2                         | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West South Central.                              | 45             | 19                                 | 1,519          | 9,750             | 1,206              | 2,501             | 7,076           | 15,041                               | 23,405            | 38,447             | 396                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Texas.....                                       | 40             | 18                                 | 1,435          | 9,280             | 1,138              | 2,378             | 6,733           | 14,373                               | 22,709            | 37,063             | 345                       | 1,019            | 8,312                                |
| West.....  | 59             | 19                                 | 1,304          | 8,258             | 933                | 1,909             | 5,598           | 15,633                               | 16,416            | 31,913             | 499                       | 1,156            | 10,983                               |
| California.....                                  | 45             | 14                                 | 921            | 6,147             | 697                | 1,467             | 4,148           | 12,162                               | 12,511            | 24,588             | 258                       | 949              | 8,860                                |
| INDUSTRY 3499.—FABRICATED METAL PRODUCTS, N.E.C. |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                       | 1,277          | 346                                | 28,302         | 151,919           | 22,209             | 45,673            | 105,063         | 299,326                              | 276,264           | 573,185            | 16,189                    | 20,200           | 180,132                              |
| New England.....                                 | 101            | 28                                 | 2,359          | 12,966            | 1,800              | 3,751             | 8,194           | 22,280                               | 16,590            | 38,665             | 1,203                     | 1,812            | 13,844                               |
| Massachusetts....                                | 52             | 12                                 | 939            | 5,537             | 729                | 1,487             | 3,445           | 9,588                                | 7,480             | 16,774             | 437                       | 866              | 7,878                                |
| Rhode Island.....                                | 14             | 3                                  | 559            | 2,780             | 381                | 827               | 1,504           | 5,085                                | 2,460             | 7,546              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Connecticut.....                                 | 29             | 12                                 | 751            | 4,145             | 601                | 1,249             | 2,879           | 6,622                                | 6,171             | 12,773             | 249                       | 526              | 3,675                                |
| Middle Atlantic....                              | 369            | 99                                 | 6,736          | 33,281            | 5,374              | 10,957            | 23,243          | 62,354                               | 59,596            | 123,339            | 2,183                     | 4,573            | 36,192                               |
| New York.....                                    | 221            | 56                                 | 3,595          | 17,927            | 2,916              | 5,913             | 12,713          | 33,926                               | 30,731            | 65,684             | 992                       | 2,944            | 22,568                               |
| New Jersey.....                                  | 67             | 15                                 | 1,157          | 6,268             | 874                | 1,828             | 4,196           | 11,167                               | 8,480             | 19,970             | 469                       | 639              | 4,774                                |
| Pennsylvania....                                 | 81             | 28                                 | 1,984          | 9,086             | 1,584              | 3,216             | 6,334           | 17,261                               | 20,385            | 37,685             | 722                       | 990              | 8,850                                |
| East North Central.                              | 340            | 114                                | 11,535         | 65,547            | 9,013              | 18,533            | 45,868          | 127,806                              | 117,772           | 244,936            | 8,281                     | 9,544            | 89,765                               |
| Ohio.....  | 69             | 26                                 | 1,859          | 10,421            | 1,333              | 2,760             | 6,804           | 19,090                               | 21,026            | 40,235             | 832                       | 1,517            | 13,328                               |
| Indiana.....                                     | 27             | 11                                 | 1,473          | 8,765             | 1,120              | 2,354             | 6,288           | 15,754                               | 12,261            | 27,825             | 733                       | 2,132            | 16,893                               |
| Illinois.....                                    | 142            | 42                                 | 4,783          | 26,196            | 3,873              | 7,834             | 18,970          | 58,364                               | 55,812            | 113,524            | 5,397                     | 4,037            | 42,284                               |
| Michigan.....                                    | 79             | 27                                 | 2,952          | 17,754            | 2,322              | 4,841             | 12,205          | 29,764                               | 24,295            | 54,161             | 1,107                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Wisconsin.....                                   | 23             | 8                                  | 468            | 2,411             | 365                | 744               | 1,601           | 4,834                                | 4,378             | 9,191              | 212                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West North Central.                              | 84             | 23                                 | 1,955          | 10,919            | 1,473              | 3,024             | 7,218           | 19,648                               | 21,483            | 40,968             | 1,151                     | 732              | 6,816                                |
| Minnesota.....                                   | 29             | 10                                 | 875            | 5,196             | 690                | 1,407             | 3,683           | 9,240                                | 9,157             | 18,480             | 594                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Iowa.....  | 11             | 3                                  | 155            | 930               | 111                | 222               | 486             | 1,472                                | 1,069             | 2,592              | 68                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South Atlantic.....                              | 91             | 22                                 | 1,724          | 8,418             | 1,398              | 3,019             | 6,025           | 26,424                               | 28,049            | 53,937             | 1,100                     | 1,945            | 21,637                               |
| Maryland.....                                    | 17             | 7                                  | 647            | 3,443             | 538                | 1,183             | 2,480           | 10,523                               | 11,861            | 22,422             | 398                       | 601              | 10,164                               |
| Georgia.....                                     | 12             | 1                                  | 254            | 979               | 226                | 516               | 768             | 1,555                                | 2,081             | 3,617              | 36                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Florida.....                                     | 35             | 5                                  | 300            | 1,389             | 221                | 458               | 907             | 2,643                                | 2,516             | 5,237              | 69                        | 995              | 6,513                                |
| East South Central.                              | 24             | 11                                 | 474            | 2,120             | 400                | 795               | 1,600           | 5,333                                | 3,455             | 7,208              | 361                       | 182              | 1,166                                |
| Kentucky.....                                    | 13             | 7                                  | 312            | 1,511             | 269                | 560               | 1,139           | 4,112                                | 2,156             | 4,722              | 323                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West South Central.                              | 63             | 15                                 | 996            | 4,619             | 846                | 1,744             | 3,574           | 7,486                                | 7,413             | 15,071             | 499                       | 281              | 1,570                                |
| Louisiana.....                                   | 6              | 3                                  | 105            | 415               | 82                 | 157               | 250             | 1,145                                | 1,132             | 2,290              | 72                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Texas.....                                       | 38             | 7                                  | 453            | 2,382             | 371                | 771               | 1,832           | 2,829                                | 2,733             | 5,753              | 135                       | 162              | 1,066                                |
| West.....  | 205            | 34                                 | 2,523          | 14,049            | 1,905              | 3,850             | 9,341           | 27,995                               | 21,906            | 49,061             | 1,411                     | 1,131            | 9,142                                |
| Colorado.....                                    | 9              | 1                                  | 119            | 668               | 96                 | 192               | 526             | 1,690                                | 1,648             | 3,287              | 54                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                                  | 157            | 29                                 | 2,129          | 12,105            | 1,585              | 3,211             | 7,831           | 23,931                               | 18,349            | 41,496             | 1,193                     | 949              | 7,667                                |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

Footnotes continued on next page.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

Footnotes for Table 2-34E-Continued

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3481, Fabricated Wire Products, N.E.C.: New England—Maine, 2 (1-19); New Hampshire, 2 (1-19); Vermont, 2 (1-19); West North Central—North Dakota, 1 (1-19); Nebraska, 6 (20-99); South Atlantic—Delaware, 1 (20-99); Virginia, 3 (164); West Virginia, 1 (20-99); South Carolina, 2 (1-19); East South Central—Kentucky, 10 (500-999); Mississippi, 8 (250-499); West South Central—Arkansas, 4 (20-99); Louisiana, 5 (20-99); Mountain—New Mexico, 1 (1-19); Arizona, 11 (100-249); Utah, 4 (20-99); Pacific—Oregon, 17 (100-249); Hawaii, 2 (20-99).

SIC 3491, Metal Barrels, Drums, and Pails: New England—Massachusetts, 4 (20-99); Connecticut, 2 (20-99); East North Central—Indiana, 1 (100-249); Michigan, 4 (20-99); Wisconsin, 4 (100-249); West North Central—Minnesota, 2 (100-249); Iowa, 2 (20-99); Missouri, 2 (20-99); Kansas, 2 (100-249); South Atlantic—Maryland, 1 (20-99); West Virginia, 4 (20-99); South Carolina, 1 (1-19); Georgia, 4 (20-99); Florida, 2 (20-99); East South Central—Tennessee, 1 (20-99); Alabama, 5 (100-249); Mississippi, 2 (1-19); West South Central—Louisiana, 6 (500-999); Oklahoma, 2 (1-19); Mountain—Colorado, 2 (1-19); Pacific—Washington, 1 (1-19); Oregon, 1 (1-19).

SIC 3492, Safes and Vaults: New England—Connecticut, 1 (1-19); Middle Atlantic—New York, 3 (20-99); Pennsylvania, 1 (20-99); East North Central—Ohio, 9 (2,911); Indiana, 3 (100-249); Illinois, 2 (1-19); South Atlantic—Florida, 1 (1-19); West South Central—Texas, 2 (20-99); Pacific—California, 10 (179).

SIC 3493, Steel Springs: New England—Vermont, 1 (1-19); Massachusetts, 2 (20-99); Connecticut, 5 (20-99); Middle Atlantic—New Jersey, 1 (1-19); Pennsylvania, 14 (1,000-2,499); East North Central—Ohio, 7 (742); Indiana, 4 (574); West North Central—Minnesota, 1 (1-19); Iowa, 1 (20-99); Missouri, 3 (20-99); South Atlantic—North Carolina, 1 (1-19); Florida, 1 (1-19); East South Central—Mississippi, 1 (100-249); West South Central—Texas, 6 (101); Pacific—Washington, 3 (20-99); Oregon, 1 (20-99); Hawaii, 1 (1-19).

SIC 3494, Valves and Pipe Fittings: New England—Maine, 2 (20-99); New Hampshire, 1 (100-249); Rhode Island, 8 (1,000-2,400); West North Central—Minnesota, 5 (645); Nebraska, 2 (250-499); Kansas, 4 (100-249); South Atlantic—Delaware, 2 (100-249); Maryland, 2 (20-99); Virginia, 3 (154); West Virginia, 2 (250-499); North Carolina, 4 (250-499); Georgia, 2 (250-499); Florida, 9 (152); East South Central—Kentucky, 6 (2,037); Tennessee, 6 (1,220); West South Central—Arkansas, 8 (250-499); Louisiana, 2 (500-999); Mountain—Wyoming, 1 (1-19); Colorado, 6 (566); Arizona, 1 (1-19); Utah, 1 (20-99); Pacific—Washington, 4 (1-19); Oregon, 4 (100-249).

SIC 3496, Collapsible Tubes: New England—Rhode Island, 1 (20-99); Connecticut, 1 (500-999); Middle Atlantic—New York, 1 (1-19); New Jersey, 7 (1,000-2,499); Pennsylvania, 2 (250-499); East North Central—Ohio, 1 (1-19); Indiana, 1 (20-99); Illinois, 1 (100-249); Michigan, 2 (20-99); Wisconsin, 1 (1-19); West North Central—Iowa, 1 (20-99); South Atlantic—West Virginia, 1 (500-999); East South Central—Kentucky, 1 (100-249); West South Central—Arkansas, 1 (100-249); Pacific—California, 2 (20-99).

SIC 3497, Metal Foil and Leaf: New England—Vermont, 2 (20-99); Massachusetts, 3 (116); Middle Atlantic—New York, 13 (250-499); Pennsylvania, 2 (20-99); East North Central—Ohio, 3 (500-999); Indiana, 1 (100-249); Illinois, 8 (577); West North Central—Missouri, 1 (250-499); South Atlantic—Maryland, 1 (20-99); Virginia, 2 (500-999); North Carolina, 1 (20-99); East South Central—Kentucky, 4 (500-999); West South Central—Texas, 1 (1-19); Pacific—Washington, 1 (1-19); California, 7 (500-999).

SIC 3498, Fabricated Pipes and Fittings: New England—Maine, 2 (20-99); Rhode Island, 1 (20-99); Connecticut, 8 (100-249); East North Central—Indiana, 6 (231); Wisconsin, 11 (247); West North Central—Minnesota, 1 (20-99); Iowa, 1 (1-19); Nebraska, 1 (1-19); Kansas, 2 (20-99); South Atlantic—Delaware, 2 (100-249); Maryland, 2 (20-99); Virginia, 2 (1-19); West Virginia, 1 (250-499); North Carolina, 4 (202); South Carolina, 1 (20-99); Georgia, 2 (20-99); East South Central—Tennessee, 2 (20-99); Alabama, 1 (20-99); Mississippi, 3 (1-19); West South Central—Louisiana, 2 (1-19); Oklahoma, 3 (20-99); Mountain—Colorado, 1 (20-99); New Mexico, 1 (1-19); Arizona, 1 (1-19); Pacific—Washington, 5 (20-99); Oregon, 6 (250-499).

SIC 3499, Fabricated Metal Products, N.E.C.: New England—Maine, 2 (20-99); New Hampshire, 3 (20-99); Vermont, 1 (1-19); West North Central—Missouri, 9 (814); North Dakota, 1 (1-19); South Dakota, 2 (1-19); Nebraska, 3 (1-19); Kansas, 12 (20-99); South Atlantic—District of Columbia, 1 (1-19); Virginia, 9 (20-99); West Virginia, 5 (163); North Carolina, 6 (122); South Carolina, 6 (100-249); East South Central—Tennessee, 5 (20-99); Alabama, 5 (20-99); Mississippi, 1 (1-19); West South Central—Arkansas, 7 (318); Oklahoma, 12 (120); Mountain—Montana, 2 (1-19); Idaho, 1 (1-19); Wyoming, 2 (1-19); New Mexico, 1 (1-19); Arizona, 6 (100-249); Utah, 3 (1-19); Nevada, 2 (1-19); Pacific—Washington, 9 (20-99); Oregon, 12 (20-99); Hawaii, 1 (1-19).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.



TABLE 3. Detailed Statistics: 1963

| Item   | Fabricated wire products, n.e.c. (SIC 3481) | Metal barrels, drums, and pails (SIC 3491) | Safes and vaults (SIC 3492) | Steel springs (SIC 3493) | Valves and pipe fittings (SIC 3494) | Collapsible tubes (SIC 3496) | Metal foil and leaf (SIC 3497) | Fabricated pipe and fittings (SIC 3498) | Fabricated metal products, n.e.c. (SIC 3499) |
|--|---|--|-----------------------------|--------------------------|-------------------------------------|------------------------------|--------------------------------|---|--|
| Primary product specialization ratio <sup>1</sup>              | .93   | .92  | .81                         | .91                      | .86                                 | .88                          | .84                            | .92                                     | .89  |
| Coverage ratio <sup>2</sup>                                    | .65   | .86  | .90-.95                     | .67                      | .85                                 | 1.00                         | .45                            | .91                                     | .62  |
| Establishments, total.....number..                             | 1,567                                       | 145  | 32                          | 96                       | 646                                 | 24                           | 67                             | 349                                     | 1,277  |
| With 1 to 19 employees.....do....                              | 1,010                                       | 52   | 17                          | 47                       | 272                                 | 5                            | 27                             | 203                                     | 931  |
| With 20 to 99 employees.....do....                             | 415   | 56   | 12                          | 30                       | 192                                 | 9                            | 28                             | 113                                     | 304  |
| With 100 employees or more.....do....                          | 142   | 37   | 3                           | 19                       | 182                                 | 10                           | 12                             | 33                                      | 42   |
| Proprietors and working partners.....do....                    | 1,407                                       | 46   | 27                          | 61                       | 283                                 | 6                            | 24                             | 248                                     | 1,152  |
| All employees (average for the year).....do....                | 55,514                                      | 10,508                                     | 3,346                       | 6,287                    | 80,407                              | 3,984                        | 4,981                          | 13,007                                  | 28,302                                       |
| Payroll (all employees), total for year.....\$1,000..          | 297,626                                     | 66,614                                     | 21,782                      | 41,321                   | 500,009                             | 18,804                       | 32,438                         | 79,087                                  | 151,919                                      |
| Production workers:  |   |  |                             |                          |                                     |                              |                                |   |  |
| Average for the year.....number..                              | 45,070                                      | 8,480                                      | 2,304                       | 5,110                    | 58,148                              | 3,540                        | 3,733                          | 9,346                                   | 22,209                                       |
| March.....do....   | 44,576                                      | 8,352                                      | 2,219                       | 5,084                    | 57,745                              | 3,413                        | 3,553                          | 9,144                                   | 21,792                                       |
| May.....do....   | 45,127                                      | 8,570                                      | 2,213                       | 5,234                    | 58,100                              | 3,463                        | 3,745                          | 9,475                                   | 21,977                                       |
| August.....do....  | 44,857                                      | 8,776                                      | 2,343                       | 5,007                    | 59,377                              | 3,591                        | 3,769                          | 9,618                                   | 22,460                                       |
| November.....do....  | 46,091                                      | 8,218                                      | 2,446                       | 5,112                    | 57,362                              | 3,690                        | 3,849                          | 9,183                                   | 22,659                                       |
| Man-hours.....1,000..  | 92,096                                      | 17,713                                     | 4,817                       | 10,633                   | 116,929                             | 6,923                        | 7,831                          | 18,733                                  | 45,673                                       |
| January-March.....do....                                       | 22,353                                      | 4,323                                      | 1,254                       | 2,650                    | 29,178                              | 1,688                        | 1,979                          | 4,534                                   | 11,131                                       |
| April-June.....do....  | 23,061                                      | 4,606                                      | 1,178                       | 2,730                    | 29,767                              | 1,760                        | 1,945                          | 4,760                                   | 11,462                                       |
| July-September.....do....                                      | 22,709                                      | 4,537                                      | 1,223                       | 2,554                    | 28,430                              | 1,642                        | 1,994                          | 4,752                                   | 11,260                                       |
| October-December.....do....                                    | 23,973                                      | 4,259                                      | 1,169                       | 2,704                    | 29,554                              | 1,834                        | 2,017                          | 4,687                                   | 11,820                                       |
| Wages.....\$1,000..  | 213,329                                     | 49,127                                     | 14,041                      | 31,398                   | 321,239                             | 14,771                       | 21,775                         | 51,671                                  | 105,063                                      |
| Cost of materials, etc., total.....do....                      | 490,937                                     | 183,880                                    | 24,269                      | 89,063                   | 651,964                             | 20,396                       | 117,887                        | 161,499                                 | 276,264                                      |
| Materials, parts, containers, and supplies consumed.....do.... | 433,668                                     | 176,034                                    | 20,169                      | 82,268                   | 569,770                             | 19,336                       | 114,843                        | 141,679                                 | 235,976                                      |
| Cost of resales.....do....                                     | 29,104                                      | 2,761                                      | 3,549                       | 3,113                    | 40,691                              | 303                          | 770                            | 13,674                                  | 22,498                                       |
| Fuels consumed.....do....                                      | 3,649                                       | 1,695                                      | 186                         | 1,948                    | 7,873                               | 268                          | 522                            | 1,091                                   | 2,034  |
| Electric energy:   |   |  |                             |                          |                                     |                              |                                |   |  |
| Purchased:   |   |  |                             |                          |                                     |                              |                                |   |  |
| Quantity.....million kw.-hrs..                                 | 338   | 122  | 17                          | 67                       | 670                                 | 35                           | 80                             | 79                                      | 231  |
| Cost.....\$1,000..   | 5,712                                       | 1,980                                      | 241                         | 972                      | 9,966                               | 487                          | 1,011                          | 1,409                                   | 3,747  |
| Generated less sold.....million kw.-hrs..                      | (D)   | -  | -                           | -                        | (D)                                 | -                            | -                              | (D)                                     | (D)  |
| Contract work.....\$1,000..                                    | 18,804                                      | 1,410                                      | 124                         | 762                      | 23,664                              | 2                            | 741                            | 3,646                                   | 12,009                                       |
| Value of shipments (including resales), total.....do....       | 1,030,876                                   | 303,423                                    | 78,012                      | 157,704                  | 1,588,509                           | 51,027                       | 180,567                        | 305,640                                 | 573,185                                      |
| Value of resales.....do....                                    | 38,362                                      | 3,031                                      | 4,830                       | 5,063                    | 46,558                              | 341                          | 871                            | 15,292                                  | 31,643                                       |
| Value added by manufacture, adjusted.....do....                | 539,137                                     | 119,617                                    | 56,223                      | 69,305                   | 942,700                             | 30,562                       | 63,486                         | 144,598                                 | 299,326                                      |
| Manufacturers' inventories:                                    |   |  |                             |                          |                                     |                              |                                |   |  |
| Beginning of year, total.....do....                            | 150,688                                     | 49,433                                     | 13,300                      | 19,526                   | 381,082                             | 4,954                        | 25,122                         | 70,374                                  | 87,180                                       |
| Finished products.....do....                                   | 59,365                                      | 7,589                                      | 4,596                       | 3,026                    | 155,678                             | 1,937                        | 8,197                          | 25,196                                  | 28,906                                       |
| Work-in-process.....do....                                     | 28,830                                      | 6,025                                      | 3,860                       | 5,414                    | 138,683                             | 669                          | 5,093                          | 12,571                                  | 21,930                                       |
| Materials, supplies, fuel, etc.....do....                      | 62,493                                      | 35,819                                     | 4,844                       | 11,086                   | 86,721                              | 2,348                        | 11,832                         | 32,607                                  | 36,344                                       |
| End of year, total.....do....                                  | 150,692                                     | 49,513                                     | 15,714                      | 21,061                   | 385,426                             | 5,033                        | 28,737                         | 69,813                                  | 91,556                                       |
| Finished products.....do....                                   | 59,541                                      | 7,555                                      | 5,546                       | 3,419                    | 161,618                             | 1,900                        | 8,981                          | 24,499                                  | 31,326                                       |
| Work-in-process.....do....                                     | 28,352                                      | 6,133                                      | 5,390                       | 5,685                    | 138,898                             | 637                          | 5,115                          | 13,725                                  | 21,915                                       |
| Materials, supplies, fuel, etc.....do....                      | 62,799                                      | 35,825                                     | 4,778                       | 11,957                   | 84,912                              | 2,496                        | 14,641                         | 31,589                                  | 38,315                                       |
| Expenditures for plant and equipment, total.....do....         | 27,675                                      | 7,614                                      | 1,958                       | 2,162                    | 44,610                              | 2,008                        | 6,473                          | 6,381                                   | 18,182                                       |
| New, total.....do....  | 24,795                                      | 6,412                                      | 1,794                       | 1,962                    | 38,951                              | 1,925                        | 6,410                          | 5,099                                   | 16,189                                       |
| New structures and additions to plant.....do....               | 6,036                                       | 825  | 774                         | 292                      | 11,262                              | 415                          | 1,164                          | 1,197                                   | 5,228  |
| New machinery and equipment.....do....                         | 18,759                                      | 5,587                                      | 1,020                       | 1,670                    | 27,689                              | 1,510                        | 5,246                          | 3,902                                   | 10,961                                       |
| Used plant and equipment.....do....                            | 2,880                                       | 1,202                                      | 164                         | 200                      | 5,659                               | 83                           | 63                             | 1,282                                   | 1,993  |
| Selected operating ratios:                                     |   |  |                             |                          |                                     |                              |                                |   |  |
| Payroll/Total employment.....                                  | 5,343                                       | 6,339                                      | 6,510                       | 6,572                    | 6,218                               | 4,720                        | 6,512                          | 6,071                                   | 5,368  |
| Production workers/Total employment.....                       | .81   | .81  | .69                         | .81                      | .72                                 | .89                          | .75                            | .72                                     | .78  |
| Man-hours/Production workers.....                              | 2,043                                       | 2,089                                      | 2,091                       | 2,081                    | 2,011                               | 1,956                        | 2,098                          | 2,004                                   | 2,057  |
| Production worker wages/Man-hours.....                         | 2.32  | 2.77                                       | 2.91                        | 2.95                     | 2.75                                | 2.13                         | 2.78                           | 2.76                                    | 2.30   |
| Cost of materials and payrolls/Total value of shipments.....   | .76   | .83  | .59                         | .83                      | .73                                 | .77                          | .83                            | .79                                     | .75  |
| Cost of materials/Total value of shipments.....                | .48   | .61  | .31                         | .56                      | .41                                 | .40                          | .65                            | .53                                     | .48  |
| Adjusted value added/Total employment.....                     | 9,712                                       | 11,383                                     | 16,803                      | 11,024                   | 11,719                              | 7,671                        | 12,746                         | 11,100                                  | 10,576                                       |
| Salaries and wages/Adjusted value added.....                   | .55   | .56  | .39                         | .60                      | .53                                 | .62                          | .51                            | .55                                     | .51  |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item   | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3481.—FABRICATED METAL PRODUCTS, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 1,567                 | 517                                | 250              | 243                | 281                | 134                | 109                  | 24                   | 9                    | -                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                                | 55,514                | 1,009                              | 1,701            | 3,326              | 8,759              | 9,127              | 16,423               | 8,425                | 6,744                | -                        | -                        |
| Payroll.....\$1,000..                            | 297,626               | 5,230                              | 7,850            | 15,338             | 43,034             | 46,168             | 87,408               | 49,759               | 42,839               | -                        | -                        |
| Value added, adjusted.....do....                 | 539,137               | 10,481                             | 20,396           | 28,371             | 80,125             | 82,194             | 155,199              | 98,424               | 63,947               | -                        | -                        |
| Value of shipments.....do.....                   | 1,030,876             | 20,632                             | 35,374           | 53,333             | 158,759            | 165,949            | 298,764              | 183,801              | 114,264              | -                        | -                        |
| Capital expenditures, new.....do....             | 24,795                | 1,112                              | 1,113            | 1,294              | 3,984              | 3,163              | 7,263                | 4,593                | 2,273                | -                        | -                        |
| INDUSTRY 3491.—METAL BARRELS, DRUMS, AND PAILS   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 145                   | 22                                 | 14               | 16                 | 27                 | 29                 | 31                   | 6                    | -                    | -                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                                | 10,508                | 40                                 | 96               | 233                | 863                | 2,095              | 5,109                | 2,072                | -                    | -                        | -                        |
| Payroll.....\$1,000..                            | 66,614                | 185                                | 402              | 1,227              | 4,480              | 12,431             | 33,515               | 14,374               | -                    | -                        | -                        |
| Value added, adjusted.....do....                 | 119,617               | 354                                | 740              | 2,652              | 8,951              | 22,488             | 63,023               | 21,409               | -                    | -                        | -                        |
| Value of shipments.....do.....                   | 303,423               | 921                                | 2,217            | 7,136              | 25,683             | 69,505             | 147,900              | 50,061               | -                    | -                        | -                        |
| Capital expenditures, new.....do....             | 6,412                 | 15                                 | 33               | 151                | 564                | 1,482              | 3,149                | 1,018                | -                    | -                        | -                        |
| INDUSTRY 3492.—SAFES AND VAULTS                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 32                    | 10                                 | 4                | 3                  | 8                  | 4                  | 1                    | -                    | -                    | 2                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                                | 3,346                 | 12                                 | 25               | 3,309              | (D)                | (D)                | (D)                  | -                    | -                    | (D)                      | -                        |
| Payroll.....\$1,000..                            | 21,782                | 90                                 | 152              | 21,540             | (D)                | (D)                | (D)                  | -                    | -                    | (D)                      | -                        |
| Value added, adjusted.....do....                 | 56,223                | 214                                | 358              | 55,651             | (D)                | (D)                | (D)                  | -                    | -                    | (D)                      | -                        |
| Value of shipments.....do.....                   | 78,012                | 358                                | 531              | 77,123             | (D)                | (D)                | (D)                  | -                    | -                    | (D)                      | -                        |
| Capital expenditures, new.....do....             | 1,794                 | 6                                  | 18               | 1,770              | (D)                | (D)                | (D)                  | -                    | -                    | (D)                      | -                        |
| INDUSTRY 3493.—STEEL SPRINGS                     |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 96                    | 19                                 | 10               | 18                 | 19                 | 11                 | 14                   | 3                    | 2                    | -                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                                | 6,287                 | 22                                 | 73               | 251                | 587                | 749                | 2,307                | 2,298                | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                            | 41,321                | 137                                | 387              | 1,593              | 3,344              | 4,849              | 14,967               | 16,044               | (D)                  | -                        | -                        |
| Value added, adjusted.....do....                 | 69,305                | 259                                | 822              | 2,945              | 6,161              | 8,918              | 24,718               | 25,482               | (D)                  | -                        | -                        |
| Value of shipments.....do.....                   | 157,704               | 415                                | 1,693            | 4,909              | 10,419             | 16,472             | 59,963               | 63,833               | (D)                  | -                        | -                        |
| Capital expenditures, new.....do....             | 1,962                 | 8                                  | 9                | 37                 | 113                | 371                | 1,011                | 413                  | (D)                  | -                        | -                        |
| INDUSTRY 3494.—VALVES AND PIPE FITTINGS          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 646                   | 105                                | 70               | 97                 | 108                | 84                 | 92                   | 49                   | 30                   | 11                       | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                                | 80,407                | 157                                | 481              | 1,392              | 3,601              | 6,025              | 14,662               | 17,137               | 21,136               | 15,816                   | -                        |
| Payroll.....\$1,000..                            | 500,009               | 895                                | 2,798            | 8,102              | 21,326             | 35,636             | 87,790               | 107,960              | 135,944              | 99,558                   | -                        |
| Value added, adjusted.....do....                 | 942,700               | 1,942                              | 5,127            | 17,318             | 40,924             | 70,205             | 176,765              | 200,320              | 254,467              | 175,632                  | -                        |
| Value of shipments.....do.....                   | 1,588,509             | 3,561                              | 9,753            | 29,771             | 75,176             | 124,931            | 322,349              | 325,887              | 417,370              | 279,721                  | -                        |
| Capital expenditures, new.....do....             | 38,951                | 1,795                              | 213              | 603                | 2,244              | 2,717              | 9,052                | 7,699                | 8,893                | 6,735                    | -                        |
| INDUSTRY 3496.—COLLAPSIBLE TUBES                 |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 24                    | 4                                  | -                | 1                  | 4                  | 5                  | 5                    | 1                    | 4                    | -                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do.....                                | 3,984                 | 16                                 | -                | (D)                | 166                | 391                | 1,243                | (D)                  | 2,168                | -                        | -                        |
| Payroll.....\$1,000..                            | 18,804                | 45                                 | -                | (D)                | 680                | 1,870              | 5,685                | (D)                  | 10,524               | -                        | -                        |
| Value added, adjusted.....do....                 | 30,562                | 79                                 | -                | (D)                | 1,310              | 2,693              | 9,559                | (D)                  | 16,921               | -                        | -                        |
| Value of shipments.....do.....                   | 51,027                | 165                                | -                | (D)                | 2,050              | 4,773              | 16,428               | (D)                  | 27,611               | -                        | -                        |
| Capital expenditures, new.....do....             | 1,925                 | 27                                 | -                | (D)                | (D)                | 97                 | 704                  | (D)                  | 1,097                | -                        | -                        |

See footnotes at end of table.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963—Continued

| Item   | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3497.—METAL FOIL AND LEAF               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 67                    | 10                                 | 9                | 8                  | 16                 | 12                 | 6                    | 5                    | 1                    | -                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 4,981                 | 14                                 | 65               | 114                | 479                | 915                | 867                  | <u>2,527</u>         | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                            | 32,438                | 75                                 | 402              | 670                | 2,926              | 5,432              | 5,888                | <u>17,045</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....                 | 63,486                | 164                                | 974              | 1,760              | 7,011              | 9,328              | 12,732               | <u>31,517</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....                    | 180,567               | 594                                | 3,011            | 4,962              | 18,869             | 23,493             | 28,860               | <u>100,778</u>       | (D)                  | -                        | -                        |
| Capital expenditures, new...do....               | 6,410                 | 14                                 | 13               | 120                | 738                | 696                | 512                  | <u>4,317</u>         | (D)                  | -                        | -                        |
| INDUSTRY 3498.—FABRICATED PIPE AND FITTINGS      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 349                   | 92                                 | 51               | 60                 | 80                 | 33                 | 25                   | 5                    | 3                    | -                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 13,007                | 124                                | 355              | 806                | 2,488              | 2,286              | 3,774                | 1,486                | 1,688                | -                        | -                        |
| Payroll.....\$1,000..                            | 79,077                | 981                                | 2,022            | 4,528              | 13,676             | 13,434             | 24,370               | 9,634                | 10,442               | -                        | -                        |
| Value added, adjusted.....do....                 | 144,599               | 1,782                              | 4,517            | 8,071              | 24,708             | 25,962             | 42,992               | 16,763               | 19,803               | -                        | -                        |
| Value of shipments.....do....                    | 305,640               | 4,006                              | 7,635            | 16,684             | 62,705             | 52,000             | 84,711               | 39,315               | 38,584               | -                        | -                        |
| Capital expenditures, new...do....               | 5,099                 | 84                                 | 141              | 292                | 1,236              | 589                | 1,790                | 525                  | 442                  | -                        | -                        |
| INDUSTRY 3499.—FABRICATED METAL PRODUCTS, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 1,277                 | 469                                | 222              | 240                | 211                | 93                 | 31                   | 8                    | 3                    | -                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 28,302                | 873                                | 1,516            | 3,285              | 6,427              | 6,443              | 5,099                | 2,773                | 1,886                | -                        | -                        |
| Payroll.....\$1,000..                            | 151,919               | 3,767                              | 7,234            | 17,237             | 32,771             | 36,274             | 26,490               | 16,647               | 11,499               | -                        | -                        |
| Value added, adjusted.....do....                 | 299,326               | 8,473                              | 14,062           | 32,824             | 59,818             | 86,447             | 48,509               | 28,099               | 21,094               | -                        | -                        |
| Value of shipments.....do....                    | 573,185               | 16,300                             | 25,628           | 59,913             | 114,460            | 171,145            | 99,986               | 54,058               | 31,695               | -                        | -                        |
| Capital expenditures, new...do....               | 16,189                | <sup>2</sup> 3,237                 | 801              | 1,841              | 2,923              | 2,823              | 1,507                | 2,059                | 998                  | -                        | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

n.e.c. Not elsewhere classified.

<sup>1</sup>Includes capital expenditures for plants under construction but not in operation which constitute \$500-\$1,000 thousand of the total for the size class.<sup>2</sup>Includes capital expenditures for plants under construction but not in operation which constitute \$2-\$5 million of the total for the size class.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                 | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |  | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3481      | Fabricated wire products, n.e.c...1963.. | 1,030,876          | 903,884          | 71,099             | 55,893                 | 93                                   | 1,399,261                          | 903,884               | 495,377                  | 65                            |
|           | 1958..                                   | 874,923            | 744,522          | 69,588             | 60,813                 | 91                                   | 1,164,232                          | 744,522               | 419,710                  | 64                            |
| 3491      | Metal barrels, drums, and pails...1963.. | 303,423            | 274,551          | 22,966             | 5,906                  | 92                                   | 317,873                            | 274,551               | 43,322                   | 86                            |
|           | 1958..                                   | 250,256            | 222,581          | 18,974             | 8,701                  | 92                                   | 258,953                            | 222,581               | 36,372                   | 86                            |
| 3492      | Safes and vaults.....1963..              | 78,012             | (D)              | (D)                | (D)                    | 81                                   | 59,328                             | (D)                   | (D)                      | 90-95                         |
|           | 1958..                                   | 58,790             | 43,680           | 9,630              | 5,480                  | 82                                   | 45,088                             | 43,680                | 1,408                    | 97                            |
| 3493      | Steel springs.....1963..                 | 157,704            | 136,509          | 14,161             | 7,034                  | 91                                   | 205,235                            | 136,509               | 68,726                   | 67                            |
|           | 1958..                                   | 120,525            | 91,489           | 21,908             | 7,128                  | 81                                   | 133,143                            | 91,489                | 41,654                   | 69                            |
| 3494      | Valves and pipe fittings.....1963..      | 1,588,509          | 1,299,931        | 214,195            | 74,383                 | 86                                   | 1,525,399                          | 1,299,931             | 225,468                  | 85                            |
|           | 1958..                                   | 1,263,960          | 1,050,020        | 143,878            | 70,062                 | 88                                   | 1,193,012                          | 1,050,020             | 142,992                  | 88                            |
| 3496      | Collapsible tubes.....1963..             | 51,027             | 44,216           | 5,920              | 891                    | 88                                   | 44,216                             | 44,216                | -                        | 100                           |
|           | 1958..                                   | 44,700             | 37,172           | 3,675              | 3,853                  | 91                                   | 37,172                             | 37,172                | -                        | 100                           |
| 3497      | Metal foil and leaf.....1963..           | 180,567            | 147,352          | 28,555             | 4,660                  | 84                                   | 329,930                            | 147,352               | 182,578                  | 45                            |
|           | 1958..                                   | 96,438             | 76,419           | 15,516             | 4,503                  | 83                                   | 145,484                            | 76,419                | 69,065                   | 52                            |
| 3498      | Fabricated pipe and fittings.....1963..  | 305,640            | 259,647          | 21,129             | 24,864                 | 92                                   | 286,525                            | 259,647               | 26,889                   | 91                            |
|           | 1958..                                   | 329,979            | 246,957          | 29,540             | 53,482                 | 89                                   | 265,378                            | 246,957               | 18,421                   | 93                            |
| 3499      | Fabricated metal products, n.e.c..1963.. | 573,185            | 469,193          | 60,295             | 43,697                 | 89                                   | 753,371                            | 469,193               | 284,178                  | 62                            |
|           | 1958..                                   | 340,096            | 273,386          | 38,303             | 28,407                 | 88                                   | 443,638                            | 273,386               | 170,252                  | 62                            |

NOTE: See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>Included in this industry are selected fabricated wire products (see footnotes 3,7,10, and 12 in table 5B) which are also primary to industry 3315, Steel Wire Drawing, Etc. A coverage ratio computed on the basis of including both industries to which these products are primary would total 79 percent; 65 percent by industry 3481 and 14 percent by industry 3315. The remaining 21 percent was shipped by establishments in other industries, including industry 3312, Blast Furnaces and Steel Mills, and industry 3357, Nonferrous Wire Drawing, Etc.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c)

miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                 | Class of products and miscellaneous receipts  | All industries        | Fabricated wire products, n.e.c. (SIC 3481) | Blast furnaces and steel mills (SIC 3312) | Steel wire drawing, etc. (SIC 3315) | Nonferrous wire drawing, etc. (SIC 3357) | Steel springs (SIC 3493) | Other industries <sup>1</sup> |
|----------------------------------|---|-----------------------|---|---|-------------------------------------|--|--------------------------|-------------------------------|
| FABRICATED WIRE PRODUCTS, N.E.C. |   |                       |   |   |                                     |  |                          |                               |
|                                  | Total shipments and receipts of the industry.....   | (X)                   | 1,030,876                                   | (X)                                       | (X)                                 | (X)                                      | (X)                      | (X)                           |
|                                  | Primary products.....   | 1,399,261             | 903,884                                     | (D)                                       | 186,029                             | (D)                                      | (D)                      | 309,348                       |
| 34811                            | Noninsulated ferrous wire rope, cable and strand not produced by wire drawers.....            | <sup>2</sup> 189,934  | 82,619                                      | 33,207                                    | 67,739                              | (D)                                      | -                        | <sup>3</sup> 6,369            |
| 34812                            | Precision mechanical springs.....   | 149,985               | 129,077                                     | (D)                                       | (D)                                 | (D)                                      | 6,524                    | <sup>4</sup> 14,384           |
| 34813                            | Other wire springs.....   | 239,498               | 208,323                                     | (D)                                       | (D)                                 | (D)                                      | (D)                      | <sup>5</sup> 31,175           |
| 34814                            | Ferrous wire cloth and other woven ferrous wire products, not produced by wire drawers.....   | <sup>6</sup> 72,328   | 38,767                                      | 10,466                                    | 13,851                              | 2,826                                    | -                        | <sup>7</sup> 6,418            |
| 34815                            | Nonferrous wire cloth and other woven nonferrous wire products, not made by wire drawers..... | <sup>8</sup> 70,487   | 44,093                                      | -   | (D)                                 | 21,231                                   | -                        | <sup>9</sup> 5,163            |
| 34816                            | Fencing and fence gates, not produced by wire drawers.....                                    | <sup>10</sup> 115,480 | 53,218                                      | 42,201                                    | 16,130                              | (D)                                      | -                        | 3,931                         |
| 34819                            | Other fabricated wire products, not produced by wire drawers.....                             | <sup>11</sup> 501,529 | 288,070                                     | 103,666                                   | 77,894                              | (D)                                      | -                        | <sup>12</sup> 31,899          |
| 34810                            | Miscellaneous fabricated wire products, n.s.k.....  | 60,020                | 59,717                                      | -   | -                                   | -  | (D)                      | 303                           |
|                                  | Secondary products.....   | (X)                   | 71,099                                      | (X)                                       | (X)                                 | (X)                                      | (X)                      | (X)                           |
| 25144                            | Other metal household furniture.....  | (X)                   | 3,384                                       | (X)                                       | (X)                                 | (X)                                      | (X)                      | (X)                           |
| 3429-                            | Hardware, n.e.c.....  | (X)                   | 2,973                                       | (X)                                       | (X)                                 | (X)                                      | (X)                      | (X)                           |
| 34612                            | Job stampings, except automotive.....   | (X)                   | 5,762                                       | (X)                                       | (X)                                 | (X)                                      | (X)                      | (X)                           |
| 34930                            | Steel springs.....  | (X)                   | 15,793                                      | (X)                                       | (X)                                 | (X)                                      | (X)                      | (X)                           |
|                                  | Other secondary products.....   | (X)                   | 43,187                                      | (X)                                       | (X)                                 | (X)                                      | (X)                      | (X)                           |
|                                  | Miscellaneous receipts.....   | (X)                   | 55,893                                      | (X)                                       | (X)                                 | (X)                                      | (X)                      | (X)                           |
|                                  | Receipts for contract work.....   | (X)                   | 4,022                                       | (X)                                       | (X)                                 | (X)                                      | (X)                      | (X)                           |
|                                  | Receipts for installation.....  | (X)                   | 4,788                                       | (X)                                       | (X)                                 | (X)                                      | (X)                      | (X)                           |
|                                  | Sale of products bought and resold.....   | (X)                   | 38,362                                      | (X)                                       | (X)                                 | (X)                                      | (X)                      | (X)                           |
|                                  | All other receipts.....   | (X)                   | 8,721                                       | (X)                                       | (X)                                 | (X)                                      | (X)                      | (X)                           |

| Prod. class code                         | Class of products and miscellaneous receipts  | All industries | Metal barrels, drums, and pails (SIC 3491) | Other industries     | Prod. class code          | Class of products and miscellaneous receipts      | All industries | Safes and vaults (SIC 3492) | Other industries     |
|--|---|----------------|--|----------------------|---------------------------|---|----------------|-----------------------------|----------------------|
| METAL BARRELS, DRUMS, AND PAILS INDUSTRY |   |                |  |                      | SAFES AND VAULTS INDUSTRY |   |                |                             |                      |
|  | Total shipments and receipts of the industry.....                                       | (X)            | 303,423                                    | (X)                  |                           | Total shipments and receipts of the industry..... | (X)            | 78,012                      | (X)                  |
|  | Primary products.....   | 317,873        | 274,551                                    | 43,322               | 34920                     | Safes and vaults.....                             | 59,328         | (D)                         | (D)                  |
|  |   |                |  |                      |                           | Secondary products.....                           | (X)            | (D)                         | (X)                  |
|  |   |                |  |                      |                           | Miscellaneous receipts.....                       | (X)            | (D)                         | (X)                  |
| 34911                                    | Steel shipping pails (to 12 gallon capacity).....                                       | 87,186         | 66,448                                     | <sup>13</sup> 20,738 |                           |   |                |                             |                      |
| 34912                                    | Steel shipping barrels and drums (over 12 gallon capacity), except beer barrels.....    | 191,501        | 177,814                                    | <sup>14</sup> 13,687 |                           |   | All industries | Steel springs (SIC 3493)    | Other industries     |
| 34913                                    | All other metal barrels, including beer barrels and fluid milk shipping containers..... | 35,887         | 26,990                                     | <sup>15</sup> 8,897  |                           |   |                |                             |                      |
| 34910                                    | Metal barrels, drums, and pails, n.s.k.....   | 3,299          | 3,299                                      | -                    |                           |   |                |                             |                      |
|  | Secondary products.....   | (X)            | 22,966                                     | (X)                  |                           |   |                |                             |                      |
|  |   |                |  |                      | 34930                     | STEEL SPRING INDUSTRY                             |                |                             |                      |
|  |   |                |  |                      |                           | Total shipments and receipts of the industry..... | (X)            | 157,704                     | (X)                  |
| 34110                                    | Metal cans.....   | (X)            | 6,643                                      | (X)                  |                           | Steel springs.....                                | 205,235        | 136,509                     | <sup>17</sup> 68,726 |
|  | All other secondary products.....   | (X)            | <sup>16</sup> 16,323                       | (X)                  |                           | Secondary products.....                           | (X)            | 14,161                      | (X)                  |
|  |   |                |  |                      | 34812                     | Precision mechanical springs.....                 | (X)            | 6,524                       | (X)                  |
|  |   |                |  |                      |                           | All other products.....                           | (X)            | 7,637                       | (X)                  |
|  | Miscellaneous receipts.....   | (X)            | 5,906                                      | (X)                  |                           | Miscellaneous receipts.....                       | (X)            | 7,034                       | (X)                  |
|  | Sale of products bought and resold.....   | (X)            | 3,031                                      | (X)                  |                           | Sale of products bought and resold.....           | (X)            | 1,795                       | (X)                  |
|  | All other receipts.....   | (X)            | 2,875                                      | (X)                  |                           | All other receipts.....                           | (X)            | 5,239                       | (X)                  |

See footnotes at end of table.





TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963—Continued

| Prod. class code | Class of product and miscellaneous receipts       | All industries | FABRICATED PIPE AND FITTINGS INDUSTRY        |   | Valves and pipe fittings (SIC 3494) | Fabricated metal products, n.e.c. (SIC 3499) | Other industries           |   |
|------------------|---|----------------|--|---|-------------------------------------|--|----------------------------|---|
|                  |   |                | Fabricated pipe and fittings (SIC 3498)      |   |                                     |  |                            |   |
|                  | FABRICATED PIPE AND FITTINGS INDUSTRY             |                |  |   |                                     |  |                            |   |
|                  | Total shipments and receipts of the industry..... | (X)            | 305,640                                      | (X)                                       | (X)                                 | (X)  | (X)                        |   |
| 34980            | Fabricated pipe and fittings.....                 | 286,535        | 259,647                                      | 3,691                                     | 2,715                               | <sup>23</sup> 20,483                         |                            |   |
|                  | Secondary products.....                           | (X)            | <sup>24</sup> 21,129                         | (X)                                       | (X)                                 | (X)  | (X)                        |   |
|                  | Miscellaneous receipts.....                       | (X)            | 24,864                                       | (X)                                       | (X)                                 | (X)  | (X)                        |   |
|                  | Receipts for contract work.....                   | (X)            | 5,707  | (X)                                       | (X)                                 | (X)  | (X)                        |   |
|                  | Sale of products bought and resold.....           | (X)            | 15,292                                       | (X)                                       | (X)                                 | (X)  | (X)                        |   |
|                  | All other receipts.....                           | (X)            | 3,865  | (X)                                       | (X)                                 | (X)  | (X)                        |   |
| Prod. class code | Class of product and miscellaneous receipts       | All industries | FABRICATED METAL PRODUCTS, N.E.C., INDUSTRY  |   |                                     |  |                            |   |
|                  |   |                | Fabricated metal products, n.e.c. (SIC 3499) | Blast furnaces and steel mills (SIC 3312) | Hardware, n.e.c. (SIC 3429)         | Sheet metal work (SIC 3444)                  | Metal stampings (SIC 3461) | Radio, TV communications equipment (SIC 3662) |
|                  | FABRICATED METAL PRODUCTS, N.E.C., INDUSTRY       |                |  |   |                                     |  |                            |   |
|                  | Total shipments and receipts of the industry..... | (X)            | 573,185                                      | (X)                                       | (X)                                 | (X)  | (X)                        | (X)   |
| 34990            | Fabricated metal products, n.e.c.....             | 753,371        | 469,193                                      | 84,424                                    | 12,846                              | 9,026  | 11,968                     | 9,344 <sup>25</sup> 156,570                   |
|                  | Secondary products.....                           | (X)            | 60,295                                       | (X)                                       | (X)                                 | (X)  | (X)                        | (X)   |
| 24995            | Wood products, n.e.c.....                         | (X)            | 3,317  | (X)                                       | (X)                                 | (X)  | (X)                        | (X)   |
| 34612            | Job stampings, except automotive.....             | (X)            | 2,226  | (X)                                       | (X)                                 | (X)  | (X)                        | (X)   |
| 34930            | Fabricated pipe and fittings.....                 | (X)            | 2,715  | (X)                                       | (X)                                 | (X)  | (X)                        | (X)   |
|                  | All other secondary products.....                 | (X)            | <sup>26</sup> 52,037                         | (X)                                       | (X)                                 | (X)  | (X)                        | (X)   |
|                  | Miscellaneous receipts.....                       | (X)            | 43,697                                       | (X)                                       | (X)                                 | (X)  | (X)                        | (X)   |
|                  | Receipts for contract work.....                   | (X)            | 8,305  | (X)                                       | (X)                                 | (X)  | (X)                        | (X)   |
|                  | Sale of products bought and resold.....           | (X)            | 31,643                                       | (X)                                       | (X)                                 | (X)  | (X)                        | (X)   |
|                  | All other receipts.....                           | (X)            | 3,749  | (X)                                       | (X)                                 | (X)  | (X)                        | (X)   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Includes values for those industries for which separate data could not be published without revealing the operations of individual companies.

<sup>2</sup>Includes total for product class 33151, Noninsulated ferrous wire rope, cable, and strand, produced from wire drawn in the same establishment, which is primary to industry 3315.

<sup>3</sup>Includes shipments totaling over \$2 million for industry 3352, Aluminum Rolling and Drawing, which is withheld to avoid disclosing individual company figures.

<sup>4</sup>Includes shipments totaling over \$2 million which is withheld to avoid disclosing individual company figures for industry 3315, Steel Wire Drawing, Etc., and industry 3316, Cold Finishing of Steel Shapes.

<sup>5</sup>Includes shipments totaling over \$2 million which is withheld to avoid disclosing individual company figures for industry 3315, Steel Wire Drawing, etc., and industry 3429, Hardware, N.E.C.

<sup>6</sup>Includes total for product class 33157, Wire cloth and other woven wire products, made in wire drawing plants which is primary to industry 3315.

<sup>7</sup>Includes shipments totaling over \$2 million which is withheld to avoid disclosing individual company figures for industry 3357, Nonferrous Wire Drawing, Etc., and industry 3548, Metal Working Machinery, N.E.C.

<sup>8</sup>Includes total for product class 33575, Nonferrous wire cloth and other woven wire products, made in nonferrous wire drawing plants which is primary to industry 3357.

<sup>9</sup>Includes \$2 million shipped by industry 3442, Metal Doors, Sash, and Trim.

<sup>10</sup>Includes total for product class 33156, Fencing and fence gates, made in wire drawing plants which is primary to industry 3315.

<sup>11</sup>Includes total for product class 33159, Other fabricated ferrous wire products, except springs made in wire drawing plants which is primary to industry 3315.

<sup>12</sup>Includes \$2 million shipped by industry 3441, Fabricated Structural Steel; \$6 million shipped by industry 3449, Miscellaneous Metal Work, N.E.C.; and \$3 million shipped by industry 3461, Metal Stampings. In addition shipments of over \$2 million were reported by industry 2541, Metal Household Furniture, and industry 3554, Paper Industries Machinery, which are withheld to avoid disclosing individual company figures.

<sup>13</sup>Includes \$11.7 million shipped by industry 3411, Metal Cans and \$7.3 million shipped by industry 3461, Metal Stampings.

<sup>14</sup>The following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3461, Metal Stampings, and 3639, Household Appliances, N.E.C.

<sup>15</sup>The following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3461, Metal Stampings and 3729, Aircraft Equipment, N.E.C.

<sup>16</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 26551, Paperboard and other fiber drums, and 34412, Fabricated structural iron and steel for bridges.

<sup>17</sup>Includes \$15.8 million shipped by industry 3481, Fabricated Wire Products, N.E.C. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3391, Iron and Steel Forgings, and 3717, Motor Vehicles and Parts.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

Footnotes for Table 5B--34E--Continued

<sup>18</sup>Includes \$3.2 million shipped by industry 3432, Plumbing Fittings, Brass Goods. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3392, Nonferrous Forgings; 3433, Heating Equipment, Except Electric; 3443, Boiler Shop Products; 3511, Steam Engines and Turbines; 3599, Miscellaneous Machinery; and 3717, Motor Vehicles and Parts.

<sup>19</sup>Includes \$3.2 million shipped by industry 3432, Plumbing Fittings, Brass Goods, and \$4.0 million shipped by industry 3433, Heating Equipment, Except Electric; and industry 3561, Pumps and Compressors had shipments which totaled \$2 million or more but is withheld to avoid disclosing figures for individual companies.

<sup>20</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 33911, Drop, upset and press steel forgings (closed die) forgings; 33919, Open die or smith forgings (open frame hammer or press); 33920, Nonferrous forgings; 34443, Other sheet metal work; 35227, Lawn mowers and parts; 35323, All other mining machinery (complete units); 35332, Other oil and gas-field drilling machinery and equipment; 35483, Acetylene welding and cutting apparatus; 35612, Hydraulic fluid power pumps and motors; 35641, Industrial fans and blowers; 35851, Heat transfer equipment; 35860, Measuring and dispensing pumps; 36220, General industry power circuit devices and controls; 36441, Pole line and transmission hardware; 36795, Other electronic components and accessories, n.e.c., including parts for electronic tubes (except glass blanks); and 37175, Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufacturers.

<sup>21</sup>The following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 2643, Bags, Except Textile Bags; and 3356, Rolling and Drawing, N.E.C.

<sup>22</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 26416, Other coated and processed paper, except wrappers; 26432, Specialty bags and liners; 26510, Folding paperboard boxes and cartons, except ice cream, butter, margarine, frozen food, etc.; and 34441, Sheet, metal roofing and siding, and roof drainage equipment.

<sup>23</sup>In addition, the following industries had shipment which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 2911, Petroleum Refining; 3533, Oil Field Machinery; and 3599, Miscellaneous Machinery.

<sup>24</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 34944, Other metal valves and fittings, except plumbers' brass goods and fittings; and 35690, General industrial machinery, n.e.c.

<sup>25</sup>Includes \$4.1 million shipped by industry 2499, Wood Products, N.E.C.; \$4.1 million shipped by industry 2514, Metal Household Furniture; \$3.7 million shipped by industry 2542, Metal Partitions and Fixtures; \$2.1 million shipped by industry 3423, Hand and Edge Tools; \$2.2 million shipped by industry 3442, Metal Doors, Sash, and Trim; \$2.9 million shipped by industry 3443, Boiler Shop Products; \$6.0 million shipped by industry 3494, Valves and Pipe Fittings; \$3.8 million shipped by industry 3559, Special Industry Machines, N.E.C.; \$4.8 million shipped by industry 3585, Refrigeration Machinery; \$4.4 million shipped by industry 3644, Noncurrent Carrying Devices; \$3.2 million shipped by industry 3717, Motor Vehicles and Parts; and \$6.6 million shipped by industry 3729, Aircraft Equipment, N.E.C. In addition the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 2515, Mattresses and Bedsprings; 2641, Paper Coating and Glazing; 3321, Gray Iron Foundries; 3323, Steel Foundries; 3425, Hand Saws and Saw Blades; 3522, Farm Machinery and Equipment; 3531, Construction Machinery; 3552, Textile Machinery; 3562, Ball and Roller Bearings; 3631, Household Cooking Equipment; 3639, Household Appliances, N.E.C.; 3642, Lighting Fixtures; 3643, Current Carrying Devices; 3742, Railroad and Street Cars; and 3843, Dental Equipment and Supplies.

<sup>26</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 25144, Other metal household furniture; 35451, Small cutting tools for machine tools and metal working machinery; 35690, General industrial machinery, n.e.c.; and 39142, Flatware.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code         | Product  | Unit of measure | Total shipments including interplant transfers |                 |          |                 |
|----------------------|--|-----------------|--|-----------------|----------|-----------------|
|                      |  |                 | 1963   |                 | 1958     |                 |
|                      |  |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 3481- --             | MISCELLANEOUS FABRICATED WIRE PRODUCTS.....  |                 | (X)  | 1,399,261       | (X)      | 1,164,232       |
| 33151 --<br>34811 -- | Noninsulated ferrous wire rope, cable, and strand.....   |                 | (X)  | 189,934         | (X)      | 163,386         |
| 33151 --             | Made in industries 3312 (blast furnaces and steel mills) and 3315 (steel wire drawing).....      |                 | (X)  | 100,946         | (X)      | 94,106          |
| 34811 --             | Made in fabricated wire products, n.e.c. (industry 3481) and other industries.....               |                 | (X)  | 88,988          | (X)      | 69,280          |
| 33151 11<br>34811 11 | Iron and steel wire rope and cable.....  | Short tons...   | 235,262  | 141,184         | 187,395  | 125,025         |
| 33151 11             | Made in industries 3312 and 3315.....  | do.....         | 135,385  | 67,775          | 96,686   | 62,561          |
| 34811 11             | Made in industry 3481 and other industries.....  | do.....         | 99,877   | 73,409          | 90,709   | 62,464          |
| 33151 21<br>34811 21 | Composite strand, rope, and cable, including wire strands of different metals (except ACSR)..... | do.....         | 69,533   | 27,952          | 8,321    | 6,155           |
| 33151 33<br>34811 33 | Steel wire strand, except wire strand for prestressed concrete, including guard rail cable.....  | do.....         |  |                 |          |                 |
| 33151 35<br>34811 35 | Wire strand for prestressed concrete.....  | do.....         |  |                 |          |                 |
| 33151 00<br>34811 00 | Noninsulated ferrous wire rope, cable, and strand, n.s.k.....                                    |                 | (X)  | 9,025           | (X)      | 1,854           |
| 34812 11             | Precision mechanical springs.....  | Short tons...   | 118,082  | 149,985         | 102,586  | 108,984         |
| 34813 --             | Other wire springs.....  |                 | (X)  | 239,498         | (X)      | 187,772         |
| 34813 11             | Upholstery and furniture springs (unassembled):<br>Seat and back springs for motor vehicles..... | Short tons...   | 185,403  | 99,122          | 122,349  | 76,544          |
| 34813 13             | Springs for mattresses and bedsprings:<br>Quantity reported.....                                 | do.....         | 50,985   | 19,783          | 15,132   | 7,049           |
|                      | Quantity not reported.....   |                 | (X)  | 2,983           | (X)      | 1,107           |
| 34813 17             | Spring units for box springs, innerspring mattresses and dual purpose sleep furniture.....       | Short tons...   | (NA)   | 33,116          | (NA)     | 54,261          |
| 34813 18             | Spring units for upholstered furniture (unassembled).....  | do.....         | (NA)   | 13,334          | 223,090  | 13,682          |
| 34813 19             | Other upholstery and furniture springs.....  | do.....         | (NA)   | 5,398           | 37,592   | 3,389           |
| 34813 98             | Other wire springs:<br>Quantity reported.....  | do.....         | 40,623   | 27,915          | 28,129   | 15,578          |
|                      | Quantity not reported.....   |                 | (X)  | 14,565          | (X)      | 3,916           |
| 34813 00             | Wire springs, n.s.k.....   |                 | (X)  | 23,282          | (X)      | 12,246          |
| 33157 --<br>34814 -- | Ferrous wire cloth and other woven ferrous wire products.....                                    |                 | (X)  | 72,328          | (X)      | 497,899         |
| 33157 --             | Made in industries 3312 (blast furnaces and steel mills) and 3315 (steel wire drawing).....      |                 | (X)  | 24,317          | (X)      | 25,943          |
| 34814 --             | Made in fabricated wire products, n.e.c. (industry 3481) and other industries.....               |                 | (X)  | 48,011          | (X)      | 71,956          |
| 33157 21<br>34814 11 | Insect wire screening, steel, including stainless steel.....                                     | 1,000 sq.ft...  | 168,633  | 7,454           | 217,660  | 9,791           |
| 33157 31<br>34814 31 | Hardware cloth.....  | Short tons...   | 8,637  | 6,277           | 10,162   | 7,218           |
| 33157 61<br>34814 61 | Industrial wire cloth, steel.....  | 1,000 sq.ft...  | (NA)   | 23,713          | 48,508   | 24,675          |
| 33157 61             | Made in industries 3312 and 3315.....  | do.....         | (NA)   | 4,603           | 17,041   | 3,200           |
| 34814 61             | Made in industry 3481 and other industries.....  | do.....         | 25,872   | 19,110          | 31,467   | 21,475          |
| 33157 71<br>34814 71 | Woven wire netting (poultry, fur farm, stucco, etc.).....  | Short tons...   | (NA)   | 13,617          | 52,189   | 16,460          |
| 33157 98<br>34814 98 | Other wire cloth and woven wire products including diamond cloth.....                            |                 | (X)  | 21,090          | (X)      | 416,679         |
| 33157 00<br>34814 00 | Wire cloth and woven wire products, n.s.k.....   |                 | (X)  | 1,209           | (X)      | 523,076         |
| 33575 --<br>34815 -- | Nonferrous wire cloth and other woven nonferrous wire products.....                              |                 | (X)  | 70,487          | (X)      | 459,096         |
| 33575 --             | Made in industry 3357 (nonferrous wire drawing, etc.).....                                       |                 | (X)  | 21,231          | (X)      | 9,983           |
| 34815 --             | Made in fabricated wire products, n.e.c. (industry 3481) and other industries.....               |                 | (X)  | 49,256          | (X)      | 49,113          |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code         | Product   | Unit of measure | Total shipments including interplant transfers |                 |          |                 |
|----------------------|---|-----------------|--|-----------------|----------|-----------------|
|                      |   |                 | 1963   |                 | 1958     |                 |
|                      |   |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 33575 --<br>34815 -- | Nonferrous wire cloth and other woven nonferrous wire products—Continued                    |                 |  |                 |          |                 |
| 34815 --             | Made in fabricated wire products, n.e.c. (industry 3481) and other industries—Continued     |                 |  |                 |          |                 |
|                      | Insect wire screening:  |                 |  |                 |          |                 |
| 33575 25<br>34815 15 | Aluminum.....   | 1,000 sq.ft...  | 459,123  | 21,216          | 305,356  | 18,239          |
| 33575 25<br>34815 15 | Made in industry 3357.....  | ..do.....       | 188,096  | 7,256           | 107,875  | 6,478           |
|                      | Made in industry 3481 and other industries.....   | ..do.....       | 271,027  | 13,960          | 197,481  | 11,761          |
| 33575 23<br>34815 13 | Copper and copper-base alloy.....   | ..do.....       | (NA)   | 804             | (NA)     | 2,921           |
| 33575 29<br>34815 19 | All other nonferrous metal.....   | ..do.....       | (NA)   |                 | (4)      | (4)             |
| 33575 51<br>34815 51 | Paper machine wire cloth (fourdrinier and cylinder) (including stainless steel).....        | ..do.....       | 24,600   | 36,586          | 22,976   | 30,902          |
| 33575 65<br>34815 65 | Industrial wire cloth, nonferrous.....  | ..do.....       | 12,484   | 8,836           | 8,496    | 7,034           |
| 33575 00<br>34815 00 | Nonferrous wire cloth and other woven nonferrous wire products, n.s.k.....                  |                 | (X)  | 3,045           | (X)      | (5)             |
| 33156 --<br>34816 -- | Fencing and fence gates.....  |                 | (X)  | 115,480         | (X)      | 103,309         |
| 33156 --<br>34816 -- | Made in industries 3312 (blast furnaces and steel mills) and 3315 (steel wire drawing)..... |                 | (X)  | 58,331          | (X)      | 48,045          |
|                      | Made in fabricated wire products, n.e.c. (industry 3481) and other industries.....          |                 | (X)  | 57,149          | (X)      | 55,264          |
| 33156 13<br>34816 13 | Chain link fencing, excluding post, gates and fittings.....                                 | Short tons...   | (NA)   | 37,458          | (NA)     | 56,277          |
| 33156 35<br>34816 35 | Fence gates, posts, and fittings.....   | ..do.....       | 125,883  | 38,467          |          |                 |
| 33156 13,<br>35      | Made in industries 3312 and 3315.....   | ..do.....       | (NA)   | 30,231          | 51,456   | 11,654          |
| 34816 13,<br>35      | Made in industry 3481 and other industries.....   | ..do.....       | (NA)   | 45,694          | (NA)     | 42,599          |
| 33156 21<br>34816 21 | Wire fence, woven and welded.....   | ..do.....       | 132,190  | 33,294          | (NA)     | 34,363          |
| 33156 21<br>34816 21 | Made in industries 3312 and 3315.....   | ..do.....       | 109,694  | 26,256          | 127,770  | 30,194          |
|                      | Made in industry 3481 and other industries.....   | ..do.....       | 22,496   | 7,038           | (NA)     | 4,169           |
| 33156 71<br>34816 71 | Ornamental lawn fence.....  | ..do.....       | 11,011   | 3,452           | 19,754   | 5,695           |
| 33156 71<br>34816 71 | Made in industries 3312 and 3315.....   | ..do.....       | 5,781  | 1,844           | 17,995   | 5,134           |
|                      | Made in industry 3481 and other industries.....   | ..do.....       | 5,230  | 1,608           | 1,759    | 561             |
| 33156 00<br>34816 00 | Fencing and fence gates, n.s.k.....   |                 | (X)  | 2,809           | (X)      | 6,974           |
| 33159 --<br>34819 -- | Other fabricated wire products.....   |                 | (X)  | 501,529         | (X)      | 405,656         |
| 33159 --<br>34819 -- | Made in industries 3312 (blast furnaces and steel mills) and 3315 (steel wire drawing)..... |                 | (X)  | 181,560         | (X)      | 143,168         |
|                      | Made in fabricated wire products, n.e.c. (industry 3481) and other industries.....          |                 | (X)  | 319,969         | (X)      | 262,488         |
|                      | Wire chain:   |                 |  |                 |          |                 |
| 33159 41<br>34819 41 | Tire.....   | Short tons...   | 20,899   | 14,834          | 28,844   | 20,141          |
| 33159 41<br>34819 41 | Made in industries 3312 and 3315.....   | ..do.....       | 7,772  | 5,609           | 9,626    | 7,018           |
|                      | Made in industry 3481 and other industries.....   | ..do.....       | 13,127   | 9,225           | 19,218   | 13,123          |
| 33159 49<br>34819 49 | Other.....  | ..do.....       | 61,465   | 44,652          | 47,944   | 34,553          |
| 33159 49<br>34819 49 | Made in industries 3312 and 3315.....   | ..do.....       | 19,740   | 14,161          | 14,557   | 11,649          |
|                      | Made in industry 3481 and other industries.....   | ..do.....       | 41,725   | 30,491          | 33,387   | 22,904          |
| 33159 51<br>34819 51 | Barbed and twisted steel wire.....  | ..do.....       | 110,613  | 20,348          | 57,388   | 12,131          |
| 33159 55<br>34819 55 | Wire bale ties.....   | ..do.....       | 86,934   | 17,340          | 71,260   | 15,682          |
| 33159 55<br>34819 55 | Made in industries 3312 and 3315.....   | ..do.....       | 73,184   | 13,932          | 56,717   | 12,181          |
|                      | Made in industry 3481 and other industries.....   | ..do.....       | 13,750   | 3,408           | 14,543   | 3,501           |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code         | Product   | Unit of measure | Total shipments including interplant transfers |                 |          |                 |
|----------------------|---|-----------------|--|-----------------|----------|-----------------|
|                      |   |                 | 1963   |                 | 1958     |                 |
|                      |   |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 33159 --<br>34819 -- | Other fabricated wire products—Continued  |                 |  |                 |          |                 |
| 34819 --             | Made in fabricated wire products, n.e.c. (industry 3481) and other industries—Continued |                 |  |                 |          |                 |
|                      | Welded steel wire fabric:   |                 |  |                 |          |                 |
| 33159 61<br>34819 61 | Concrete reinforcing mesh.....  | Short tons....  | 486,664  | 94,172          | 516,694  | 97,539          |
| 33159 61<br>34819 61 | Made in industries 3312 and 3315.....   | ..do.....       | 379,350  | 74,160          | 435,148  | 80,106          |
|                      | Made in industry 3481 and other industries.....   | ..do.....       | 107,314  | 20,012          | 81,546   | 17,433          |
| 33159 65<br>34819 65 | Other welded steel wire fabric.....   | ..do.....       | 127,661  | 31,191          | 74,392   | 19,454          |
| 33159 65<br>34819 65 | Made in industries 3312 and 3315.....   | ..do.....       | 116,676  | 27,305          | 64,145   | 16,207          |
|                      | Made in industry 3481 and other industries.....   | ..do.....       | 10,985   | 3,886           | 10,247   | 3,247           |
| 33159 71<br>34819 71 | Wire garment hangers.....   | 1,000 lbs....   | 161,381  | 25,685          | 146,672  | 19,517          |
| 33159 73<br>34819 73 | Wire carts, including household, grocery type and industrial.....                       | .....           | (X)  | 14,957          |          |                 |
| 33159 75<br>34819 75 | Steel wire cages.....   | .....           | (X)  | 9,198           |          |                 |
| 33159 77<br>34819 77 | Paper clips.....  | .....           |  |                 | (X)      | 158,475         |
| 33159 98<br>34819 98 | Other wire products including baskets, guards, florists' designs, kitchenware, etc..... | .....           | (X)  | 211,298         |          |                 |
| 33159 00<br>34819 00 | Other fabricated wire products, n.s.k.....  | .....           | (X)  | 17,854          | (X)      | 28,164          |
| 34110 00             | Miscellaneous fabricated wire products, n.s.k.....                                      | .....           | (X)  | 60,020          | (X)      | 38,130          |
| 3491- --             | METAL BARRELS, DRUMS, AND PAILS, TOTAL.....   | .....           | (X)  | 317,873         | (X)      | 258,953         |
| 34911 --             | Steel shipping pails (12 gallon capacity and under): <sup>7</sup>                       |                 |  |                 |          |                 |
| 34911 11             | Reported in census of manufactures.....   | .....           | (X)  | 87,186          | (X)      | 80,229          |
|                      | Reported on Monthly Form M34K.....  | 1,000 units...  | 79,073   | (NA)            | 72,179   | (NA)            |
|                      | Detailed figures by type of pail from monthly survey:                                   |                 |  |                 |          |                 |
| 34911 15             | Tapered pails, all capacities, all gauges.....  | ..do.....       | 16,207   | (NA)            | 9,039    | (NA)            |
| 34911 19             | Dome top pails, all capacities, all gauges.....   | ..do.....       | 4,606  | (NA)            | 4,143    | (NA)            |
|                      | Other types.....  | ..do.....       | 58,260   | (NA)            | 58,997   | (NA)            |
|                      | For sale.....   | ..do.....       | 55,307   | (NA)            | 57,146   | (NA)            |
| 34911 21             | 1 to 2 gallon, all gauges.....  | ..do.....       | 2,426  | (NA)            | 2,957    | (NA)            |
| 34911 25             | Over 2 gallon, up to but excluding 5 gallon, all gauges.....                            | ..do.....       | 3,196  | (NA)            | 3,564    | (NA)            |
| 34911 29             | 5 gallon, 24 gauge and heavier.....   | ..do.....       | 13,711   | (NA)            | 20,152   | (NA)            |
| 34911 31             | 5 gallon, 26 gauge.....   | ..do.....       | 24,190   | (NA)            | 23,261   | (NA)            |
| 34911 35             | 5 gallon, 28 gauge and lighter.....   | ..do.....       | 7,491  | (NA)            | 2,304    | (NA)            |
| 34911 39             | Over 5 gallon, up to and including 7 gallon, all gauges 11-1/4" diameter or less.....   | ..do.....       | 2,711  | (NA)            | 3,303    | (NA)            |
| 34911 41             | 7 gallon, up to and including 12 gallon, all gauges, all diameters over 11-1/4".....    | ..do.....       | 1,582  | (NA)            | 1,605    | (NA)            |
|                      | For own use.....  | ..do.....       | 2,953  | (NA)            | 1,851    | (NA)            |
| 34911 21-35          | 1 to 5 gallon capacity.....   | ..do.....       |  |                 |          |                 |
| 34911 39             | Over 5 gallon, up to and including 7 gallon, all gauges, 11-1/4" diameter or less.....  | ..do.....       | 2,953  | (NA)            | 1,302    | (NA)            |
| 34911 41             | 7 to 12 gallon capacity, diameter over 11-1/4".....                                     | ..do.....       |  |                 | 549      | (NA)            |
| 34912 --             | Steel shipping barrels and drums (over 12 gallon capacity): <sup>8</sup>                |                 |  |                 |          |                 |
| 34912 10             | Reported in the census of manufactures.....   | .....           | (X)  | 191,501         | (X)      | 162,375         |
|                      | Reported on Monthly Form M34K.....  | 1,000 units...  | 32,297   | (NA)            | 31,491   | (NA)            |
|                      | Detailed data by size of container from monthly surveys:                                |                 |  |                 |          |                 |
|                      | Heavy type.....   | ..do.....       | 20,057   | (NA)            | 19,018   | (NA)            |
|                      | Light head liquid type.....   | ..do.....       | 16,860   | (NA)            | 15,273   | (NA)            |
|                      | 55 gallon capacity:   |                 |  |                 |          |                 |
| 34912 11             | 16 gauge and heavier.....   | ..do.....       | 484  | (NA)            | 767      | (NA)            |
| 34912 15             | 18 gauge.....   | ..do.....       | 10,311   | (NA)            | 12,065   | (NA)            |
| 34912 21             | 19 gauge and lighter (except those with 20 gauge body and 18 gauge head).....           | ..do.....       | 89   | (NA)            |          |                 |
| 34912 23             | 20 gauge body and 18 gauge head.....  | ..do.....       | 3,713  | (NA)            | 493      | (NA)            |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure | Total shipments including interplant transfers |                 |          |                 |
|--------------|--|-----------------|--|-----------------|----------|-----------------|
|              |  |                 | 1963   |                 | 1958     |                 |
|              |  |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 34912        | Steel shipping barrels and drums (over 12 gallon capacity)—Con.<br>Reported on Monthly Form M34K—Continued<br>Detailed data by size of container from monthly surveys—Con.<br>Heavy type—Continued<br>Light head liquid type—Continued   |                 |  |                 |          |                 |
| 34912 25     | 30 to 33 gallon, all gauges.....   | 1,000 units...  | 1,225  | (NA)            | 1,036    | (NA)            |
| 34912 29     | All other capacities, all gauges.....  | ..do.....       | 1,038  | (NA)            | 912      | (NA)            |
|              | Full open head type.....   | ..do.....       | 3,196  | (NA)            | 3,745    | (NA)            |
| 34912 31     | 55 gallon and larger, 18 gauge and heavier.....  | ..do.....       | 2,135  | (NA)            | 2,527    | (NA)            |
| 34912 35     | 19 and 20 gauge.....   | ..do.....       | 168  | (NA)            | 93       | (NA)            |
| 34912 39     | All other capacities, 20 gauge and heavier.....  | ..do.....       | 893  | (NA)            | 1,125    | (NA)            |
|              | Light type (full open head or partial opening).....  | ..do.....       | 9,234  | (NA)            | 9,315    | (NA)            |
|              | For sale.....  | ..do.....       | 8,557  | (NA)            | 7,178    | (NA)            |
|              | Welded side seam construction.....   | ..do.....       | 5,262  | (NA)            | 3,276    | (NA)            |
| 34912 41     | Over 30 gallon, 22 to 26 gauge.....  | ..do.....       | 2,163  | (NA)            | 1,141    | (NA)            |
| 34912 46     | 30 gallon and smaller, 22 to 26 gauge.....   | ..do.....       | 2,057  | (NA)            | 1,546    | (NA)            |
| 34912 47     | All capacities, 28 to 30 gauge.....  | ..do.....       | 1,042  | (NA)            | 589      | (NA)            |
| 34912 51     | Lock side seam construction.....   | ..do.....       | 3,296  | (NA)            | 3,902    | (NA)            |
| 34912 41-51  | For own use.....   | ..do.....       | 676  | (NA)            | 2,137    | (NA)            |
| 34912 61     | Grease drums.....  | ..do.....       | 3,006  | (NA)            | 3,158    | (NA)            |
| 34913 --     | All other metal barrels, including beer barrels and fluid milk shipping containers.....  | ..do.....       | (X)  | 35,887          | (X)      | 14,723          |
| 34913 12     | All other metal barrels, including parts for metal barrels and pails.....  | ..do.....       | (X)  | 29,578          | (X)      | 10,137          |
| 34913 31     | Metal fluid milk shipping and delivery containers (except crates).....   | ..do.....       | (NA)   | 6,309           | (NA)     | 4,586           |
| 34910 00     | Metal barrels, drums, and pails, n.s.k.....  | ..do.....       | (X)  | 3,299           | (X)      | 1,626           |
| 3492- --     | SAFES AND VAULTS, TOTAL.....   | ..do.....       | (X)  | 59,328          | (X)      | 45,088          |
|              | Safes and chests:  |                 |  |                 |          |                 |
|              | Fire-resistive safes and chests: <sup>9</sup>  |                 |  |                 |          |                 |
| 34920 13     | One-, two-, and four-hour types.....   | Number.....     | 70,959   | 8,208           | 64,114   | 10,323          |
| 34920 17     | All other fire-resistive types.....  | ..do.....       |  |                 |          |                 |
| 34920 21     | Burglary-resistive safes and chests: <sup>9</sup>  |                 |  |                 |          |                 |
|              | Quantity reported.....   | ..do.....       | 21,042   | 5,532           | 15,694   | 3,616           |
|              | Quantity not reported.....   | ..do.....       | -  | -               | (X)      | 626             |
| 34920 41     | Safe deposit boxes.....  | ..do.....       | }  | 45,588          | 291,403  | 7,038           |
|              | Quantity reported.....   | ..do.....       |  |                 |          |                 |
|              | Quantity not reported.....   | ..do.....       |  |                 |          |                 |
| 34920 98     | All other bank and security vaults and equipment, including bank security lockers, night depositories, security equipment for drive-in windows and similar equipment and signaling and alarm equipment when sold together with bank equipment and other interior equipment for safes and chests..... | ..do.....       | (X)  |                 | (X)      | 18,880          |
| 34920 00     | Safes and vaults, not specified by kind.....   | ..do.....       |  |                 | (X)      | 2,630           |
| 3493- --     | STEEL SPRINGS, TOTAL.....  | ..do.....       | (X)  | 205,235         | (X)      | 133,143         |
|              | Helical springs, hot wound:  |                 |  |                 |          |                 |
|              | Automotive coil springs:   |                 |  |                 |          |                 |
| 34930 11     | Shipments to motor vehicle manufacturers (auto, truck, bus, trailer, etc.).....  | Short tons..... | 115,719  | 35,266          | 47,642   | 13,887          |
| 34930 13     | Shipments to other customers.....  | ..do.....       | 12,736   | 3,837           | 7,281    | 2,624           |
| 34930 15     | Locomotive and railroad car.....   | ..do.....       | 42,155   | 13,834          | 22,831   | 7,133           |
| 34930 19     | Other helical springs, hot wound.....  | ..do.....       | 11,627   | 6,398           | 5,596    | 2,304           |
|              | Leaf springs:  |                 |  |                 |          |                 |
|              | Automotive (auto, truck, bus, trailer, etc.):  |                 |  |                 |          |                 |
| 34930 51     | Shipments to motor vehicle manufacturers.....  | ..do.....       | 256,739  | 91,519          | 185,036  | 60,125          |
| 34930 59     | Shipments to other customers.....  | ..do.....       | 41,676   | 18,154          | 30,676   | 12,828          |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure | Total shipments including interplant transfers |                 |          |                 |
|--------------|--|-----------------|--|-----------------|----------|-----------------|
|              |  |                 | 1963   |                 | 1958     |                 |
|              |  |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
|              | Leaf springs—Continued   |                 |  |                 |          |                 |
| 34930 63     | Leaf springs for tractors, farm equipment, locomotive and railroad cars and other heavy equipment.....   | Short tons....  | 6,678  | 2,126           | 9,910    | 3,326           |
| 34930 71     | Flat springs made of sheet and strip.....  | .....           | (X)  | 19,804          | (X)      | 19,502          |
| 34930 98     | Other steel springs, including torsion bar springs, except wire springs.....   | .....           | (X)  | 6,954           | (X)      | 3,123           |
| 34930 00     | Steel springs, except wire, n.s.k.....   | .....           | (X)  | 7,343           | (X)      | 8,291           |
| 3494- --     | VALVES AND PIPE FITTINGS (EXCEPT PLUMBERS' BRASS GOODS AND FITTINGS), TOTAL.....   | .....           | (X)  | 1,525,399       | (X)      | 1,193,012       |
| 34941 --     | Metal valves for piping systems (except plumbing and heating valves).....  | .....           | (X)  | 686,096         | (X)      | 559,840         |
|              | Gates, globes, angles, checks, butterflies, lubricated plugs, cocks, stop and checks, cross, etc. (except automatic regulating valves):            |                 |  |                 |          |                 |
| 34941 11     | Iron (all pressures) (includes fire hydrants).....   | Short tons....  | 146,217  | 160,197         | 150,272  | 137,406         |
| 34941 13     | Steel (carbon and alloy) (all pressures).....  | ..do.....       | 65,760   | 182,430         | 60,808   | 175,727         |
| 34941 15     | Brass and bronze (125 lb. W.S.P. and over).....  | ..do.....       | 33,269   | 99,097          | 21,629   | 75,032          |
| 34941 17     | Aluminum.....  | ..do.....       | 588  | 3,666           | (NA)     | (NA)            |
|              | Pop safety valves and relief valves (over 15 lb. W.S.P.):  |                 |  |                 |          |                 |
| 34941 31     | Iron.....  | ..do.....       | 2,917  | 6,922           | 1,046    | 2,422           |
| 34941 33     | Steel (carbon and alloy).....  | ..do.....       | 6,054  | 24,701          | 3,632    | 11,404          |
| 34941 35     | Brass and bronze.....  | ..do.....       | 3,162  | 12,684          | 1,730    | 6,174           |
|              | Automatic regulating valves:   |                 |  |                 |          |                 |
| 34941 51     | Diaphragm-actuated.....  | .....           | (NA)   | 55,911          | (NA)     | 71,311          |
| 34941 53     | Float-actuated (include float cages).....  | .....           | (NA)   | 5,165           | (NA)     | 5,414           |
| 34941 54     | Solenoid-actuated.....   | 1,000 units...  | 1,477  | 25,640          | (NA)     | 51,988          |
| 34941 55     | Other automatic regulating valves.....   | .....           | (NA)   | 83,280          | (NA)     | (NA)            |
| 34941 57     | Compressed gas cylinder valves.....  | .....           | (NA)   | 13,105          | (NA)     | 8,864           |
| 34941 00     | Metal valves for piping systems, n.s.k.....  | .....           | (X)  | 13,298          | (X)      | 14,098          |
| 34942 --     | Metal fittings and unions for piping systems:  |                 |  |                 |          |                 |
|              | Fittings, flanges, and unions.....   | .....           | (X)  | 421,664         | (X)      | 374,233         |
| 34942 11     | Gray iron.....   | Short tons....  | 77,198   | 34,910          | 79,399   | 31,621          |
|              | Malleable iron:  |                 |  |                 |          |                 |
| 34942 13     | Fittings and flanges.....  | ..do.....       | 85,382   | 56,865          | 70,354   | 50,033          |
| 34942 15     | Unions and union fittings.....   | ..do.....       | 20,427   | 24,167          | 17,223   | 14,074          |
| 34942 21     | Cast carbon and alloy steel.....   | ..do.....       | 7,143  | 10,453          |          |                 |
|              | Forged carbon and alloy steel:   |                 |  |                 |          |                 |
| 34942 23     | Fittings and unions.....   | ..do.....       | 45,030   | 62,665          | 103,778  | 111,143         |
| 34942 25     | Flanges.....   | ..do.....       | 39,954   | 33,376          |          |                 |
| 34942 27     | Fittings, welding type.....  | ..do.....       | 42,830   | 34,158          |          |                 |
| 34942 18     | Cast and wrought copper and copper-brass alloy.....  | ..do.....       | 50,283   | 88,227          | 40,201   | 68,555          |
| 34942 19     | Aluminum.....  | ..do.....       | 510  | 1,298           | (NA)     | (NA)            |
|              | Steam traps (over 15 lb. W.S.P.):  |                 |  |                 |          |                 |
| 34942 51     | Thermostatic; and combination float and thermostatic.....  | 1,000 units...  | (NA)   | 7,464           | 697      | 6,355           |
| 34942 55     | Mechanical.....  | ..do.....       | 368  | 5,002           | 330      | 4,241           |
| 34942 98     | Other metal piping specialties for piping systems (except plumbing and heating valves).....  | .....           | (X)  | 57,036          | (X)      | 88,211          |
| 34942 00     | Metal fittings and unions for piping systems, n.s.k.....   | .....           | (X)  | 6,042           | (X)      | -               |
| 34943 --     | Plumbing and heating valves and specialties (except plumbers' brass goods).....  | .....           | (X)  | 87,860          | (X)      | 87,110          |
| 34943 11     | Gates, globes, angles, checks, butterflies, lubricated plugs, cocks, stop and checks, cross, etc.; brass and bronze valves (under 125 W.S.P.)..... | Short tons....  | 11,383   | 24,267          | 17,540   | 38,250          |
| 34943 51     | Steam traps (15 lb. W.S.P. and under).....   | .....           | (X)  | 3,578           | (X)      | 4,087           |
| 34943 98     | Other metal plumbing and heating valves and specialties, including pop safety valves and relief valves - 15 lb. W.S.P. and under.....              | .....           | (X)  | 55,401          | (X)      | 41,649          |
| 34943 00     | Plumbing and heating valves and specialties, except plumbers' brass goods and fittings, n.s.k.....   | .....           | (X)  | 4,614           | (X)      | 3,124           |
| 34944 --     | Other metal valves and fittings, except plumbers' brass goods and fittings.....  | .....           | (X)  | 303,319         | (X)      | 151,564         |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure               | Total shipments including interplant transfers |                      |          |                      |                      |
|--------------|---|-------------------------------|--|----------------------|----------|----------------------|----------------------|
|              |   |                               | 1963   |                      | 1958     |                      |                      |
|              |   |                               | Quantity                                       | Value (\$1,000)      | Quantity | Value (\$1,000)      |                      |
| 34944 --     | Other metal valves and fittings, except plumbers' brass goods and fittings—Continued  |                               |  |                      |          |                      |                      |
| 34944 71     | Pipe hangers and pipe supports.....   |                               | (X)  | 27,634               |          | (X)                  | 13,497               |
| 34944 81     | Valves for power transfer (pneumatic or hydraulic) such as for directional control, pressure control, and flow or volume control..... |                               | (X)  | 183,228              |          |                      |                      |
| 34944 98     | Other metal valves and fittings, except plumbers' brass goods and fittings.....   |                               | (X)  | 86,988               |          | (X)                  | 138,067              |
| 34944 00     | Other metal valves and fittings, except plumbers' brass goods and fittings, not specified by kind.....                                |                               | (X)  | 5,469                |          | (X)                  | -                    |
| 34940 00     | Valves and fittings, except plumbers' brass goods and fittings, n.s.k.....  |                               | (X)  | 26,460               |          | (X)                  | 20,265               |
| 3496- --     | COLLAPSIBLE TUBES, TOTAL.....   |                               | (X)  | 44,216               |          | (X)                  | 37,172               |
| 34960 11     | Aluminum.....   | 1,000 gross...                | 4,564  | 22,594               | 4,035    | 21,339               |                      |
| 34960 12     | Lead.....   | do.....                       | 2,980  | 14,460               | 1,992    | 9,429                |                      |
| 34960 13     | Tin.....  | do.....                       | 798  | 5,856                | 746      | 3,902                |                      |
| 34960 29     | Other, including tin-coated and tin-lead alloy.....   | do.....                       | (X)  | 656                  | (X)      | 1,025                |                      |
| 34960 00     | Collapsible tubes, n.s.k.....   | do.....                       | (X)  | 650                  | (X)      | 1,477                |                      |
| 3497- --     | METAL FOIL AND LEAF (EXCEPT PLAIN ALUMINUM FOIL), TOTAL.....  |                               | (X)  | 329,930              |          | (X)                  | 145,484              |
|              | Foil:   |                               |  |                      |          |                      |                      |
| 34970 23     | Laminated or coated foil in rolls and sheet, plain or printed: Foil laminated and/or coated with polyethylene <sup>10</sup> .....     | 1,000 lbs. metal content..... | 8,898  | 10,972               |          |                      |                      |
| 34970 25     | Foil laminated and/or coated with materials other than polyethylene <sup>10</sup> .....   | do.....                       | 51,433   | 67,212               |          | <sup>11</sup> 16,225 | <sup>11</sup> 17,497 |
|              | Converted aluminum foil products (foil only) (except bags and liners): <sup>12</sup>  |                               |  |                      |          |                      |                      |
| 34970 32     | Household, institutional and freezer foil.....  | do.....                       | 99,278   | 83,050               |          |                      |                      |
| 34970 33     | Rigid and semirigid containers.....   | do.....                       | 52,482   | 37,064               |          |                      |                      |
| 34970 34     | Gift wrap.....  | do.....                       | (13)   | (13)                 |          |                      |                      |
| 34970 35     | Other foil products.....  | do.....                       | (NA)   | 16,200               |          |                      |                      |
|              | Converted aluminum foil products made of foil laminated to paper, polyethylene, etc. (except bags and liners): <sup>12</sup>          |                               |  |                      |          | 109,246              | 109,155              |
| 34970 36     | Gift wrap.....  | do.....                       | <sup>13</sup> 12,071                           | <sup>13</sup> 12,005 |          |                      |                      |
| 34970 31     | Wrappers and wraps (bread, confections, tobacco, etc.).....   | do.....                       | 22,037   | 42,068               |          |                      |                      |
| 34970 38     | Other.....  | do.....                       | 30,443   | 32,018               |          |                      |                      |
| 34970 47     | Other foil, including composition (combination of two or more metals).....  |                               | (X)  | 9,987                |          | (X)                  | 5,074                |
|              | Leaf:   |                               |  |                      |          |                      |                      |
| 34970 51     | Gold leaf.....  |                               | (X)  | 5,403                |          | (X)                  | 4,713                |
| 34970 57     | Other leaf.....   |                               | (X)  | 10,971               |          | (X)                  | 4,704                |
| 34970 00     | Metal foil and leaf, n.s.k.....   |                               | (X)  | 2,980                |          | (X)                  | 4,341                |
| 3498- --     | FABRICATED PIPE AND FITTINGS, TOTAL.....  |                               | (X)  | 286,535              |          | (NA)                 | 265,378              |
| 34980 13     | Iron and steel:   |                               |  |                      |          |                      |                      |
|              | Quantity reported.....  | Short tons....                | 225,537  | 113,969              |          |                      |                      |
|              | Quantity not reported.....  |                               | (X)  | 87,568               |          |                      |                      |
| 34980 15     | Aluminum:   |                               |  |                      |          |                      |                      |
|              | Quantity reported.....  | Short tons....                | 3,835  | 6,688                |          |                      |                      |
|              | Quantity not reported.....  |                               | (X)  | 6,710                |          | (NA)                 | 265,378              |
| 34980 19     | All other nonferrous fabricated pipe and pipe fittings.....   |                               | (X)  | 40,765               |          |                      |                      |
| 34980 00     | Fabricated pipe and fittings, n.s.k.....  |                               | (X)  | 30,835               |          |                      |                      |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure | Total shipments including interplant transfers |                 |          |                 |
|--------------|--|-----------------|--|-----------------|----------|-----------------|
|              |  |                 | 1963   |                 | 1958     |                 |
|              |  |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 3499- --     | FABRICATED METAL PRODUCTS, N.E.C., TOTAL.....  |                 | (X)  | 753,371         | (X)      | 443,638         |
|              | Metal ladders, step and rung types (portable):   |                 |  |                 |          |                 |
| 34990 51     | Aluminum.....  | No. of units..  | 553,670  | 14,020          | }        |                 |
| 34990 52     | Other metals.....  |                 | (NA)   | 1,831           |          |                 |
| 34990 54     | Metal ironing boards.....  | No. of units..  | 2,213,588                                      | 12,865          | }        | 443,638         |
| 34990 55     | Permanent magnets.....   |                 | (X)  | 36,749          |          |                 |
| 34990 56     | Fabricated assemblies of railroad frogs, switches, and crossings..                         | Short tons....  | 173,907  | 53,776          |          |                 |
| 34990 57     | Metal strapping, flat.....   | do.....         | 297,647  | 82,243          |          |                 |
| 34990 59     | Other fabricated metal products, n.e.c. (including metal ammunition boxes and chests)..... |                 | (X)  | 465,155         |          |                 |
| 34990 00     | Fabricated metal products, n.e.c., n.s.k.....  |                 | (X)  | 86,732          |          |                 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>This quantity was valued at \$61,700 thousand. The remaining \$14,844 thousand was reported without quantity.

<sup>2</sup>This quantity was valued at \$10,428 thousand. The remaining \$3,254 thousand was reported without quantity.

<sup>3</sup>This quantity was valued at \$2,916 thousand. The remaining \$473 thousand was reported without quantity.

<sup>4</sup>For 1958, data for product code 3481519, Nonferrous metal insect wire screening, other than copper and copper-base alloy, and aluminum, are included with product code 3481498, Other wire cloth and woven wire products.

<sup>5</sup>For 1958, data for product code 3481400, Wire cloth and woven wire products, not specified by kind, include data for product code 3481500, Nonferrous wire cloth and other woven nonferrous wire products, not specified by kind.

<sup>6</sup>This quantity was valued at \$5,599 thousand. The remaining \$1,435 thousand was reported without quantity.

<sup>7</sup>Steel shipping packages, kegs, and pails are defined as single-walled shipping containers with a range of capacity from 1 to 12 gallons inclusive, constructed of steel sheet of 29 gauge and heavier. This definition does not include tin cans (packers' cans, general line cans, and beer cans), terneplate oil containers, fluid milk shipping containers, ice cream cans, gas cylinders, beer barrels, reconditioned barrels and drums, or containers not commercially usable in the transportation of commodities.

<sup>8</sup>Steel shipping barrels and drums are defined as single-walled cylindrical or bilged shipping containers, with a range of capacity from 12 to 132 gallons, constructed of steel. This definition does not include tin cans (packers' cans, general line cans, and beer cans), terneplate oil containers, high and low pressure gas steel cylinders, fluid milk shipping containers, ice cream cans, or containers not commercially usable in the transportation of commodities.

<sup>9</sup>Safes and chests are shown as fire-resistive or burglary-resistive, depending on the primary purpose for which they are built.

<sup>10</sup>More detailed data are available in Current Industrial Reports Series M26F, "Converted Flexible Packaging Products". There are inconsistencies in classification in these two surveys. These differences will be resolved in the 1964 report in the M26F series.

<sup>11</sup>In 1958 these data are limited to laminated foil made from purchased aluminum foil.

<sup>12</sup>More detailed data on converted aluminum foil are available in Current Industrial Reports Series M34P, "Aluminum Foil Converted". That report contains data on poundages of aluminum foil converted by end use. However, it is not possible to precisely compare the data in this industry with data in the annual Current Industrial Report. Some of the products for which aluminum foil consumption is reported in the annual survey are produced for use by the same company to package a commodity. In such cases, the converted aluminum foil product is not included in this industry but is included as a portion of the value of the packaged commodity.

<sup>13</sup>Data for product code 3497034 included with product code 3497036.

TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year  | Indexes (1954 = 100) |            | Product code | Product and year   | Indexes (1954 = 100) |            |
|--------------|---|----------------------|------------|--------------|--|----------------------|------------|
|              |   | Production           | Unit value |              |  | Production           | Unit value |
| 348--        | Fabricated wire products,<br>n.e.c. <sup>1</sup> .....1963..                | 122                  | 118        | 3491-        | Fabricated metal products, n.e.c.—Con.   |                      |            |
|              | .....1958..   | 106                  | 112        | 3491-        | Metal barrels, drums, and pails.....1963..   | 110                  | 132        |
|              |   |                      |            |              | .....1958..  | 102                  | 121        |
| 3481-        | Fabricated wire products, n.e.c. <sup>1</sup> .....1963..                   | 122                  | 118        | 34911        | Steel shipping pails (12 gallon<br>capacity and under).....1963..                                | 127                  | 125        |
|              | .....1958..   | 106                  | 112        |              | .....1958..  | 116                  | 126        |
| 34811        | Noninsulated ferrous wire rope,<br>cable, and strand.....1963..             | 136                  | 110        | 34912        | Steel shipping barrels and drums<br>(over 12 gallon capacity).....1963..                         | 98                   | 136        |
|              | .....1958..   | 110                  | 106        |              | .....1958..  | 95                   | 119        |
| 34812        | Precision mechanical springs.....1963..                                     | 100                  | 152        | 3493-        | Steel springs.....1963..   | 124                  | 125        |
|              | .....1958..   | 85                   | 131        |              | .....1958..  | 89                   | 116        |
| 34813        | Other wire springs.....1963..   | 117                  | 106        | 3494-        | Valves and pipe fittings (except<br>plumbers' brass goods and fittings) <sup>3</sup> .....1963.. | 129                  | 127        |
|              | .....1958..   | 98                   | 100        |              | .....1958..  | 104                  | 125        |
| 34814        | Ferrous wire cloth and other woven<br>ferrous wire products.....1963..      | 90                   | 104        | 34941        | Metal valves for piping systems<br>(except plumbing and heating<br>valves).....1963..            | 113                  | 140        |
|              | .....1958..   | 113                  | 107        |              | .....1958..  | 98                   | 136        |
| 34815        | Nonferrous wire cloth and other<br>woven nonferrous wire products....1963.. | 189                  | 102        | 34942        | Metal fittings and unions for<br>piping systems.....1963..                                       | 118                  | 111        |
|              | .....1958..   | 113                  | 107        |              | .....1958..  | 105                  | 111        |
| 34816        | Fencing and fence gates.....1963..  | 115                  | 106        | 3496-        | Collapsible tubes.....1963..   | 115                  | 112        |
|              | .....1958..   | 108                  | 107        |              | .....1958..  | 98                   | 111        |
| 349--        | Fabricated metal products,<br>n.e.c.....1963..                              | (2)                  | (2)        | 3497-        | Metal foil and leaf (except plain<br>aluminum foil).....1963..                                   | 177                  | 131        |
|              | .....1958..   | (2)                  | (2)        |              | .....1958..  | 84                   | 128        |

n.e.c. Not elsewhere classified.

<sup>1</sup>Adjusted to include other fabricated wire products (product class 34819) and products not specified by kind.

<sup>2</sup>Not shown because comparable quantity data were not obtained for a significant portion of these products.

<sup>3</sup>Adjusted to include plumbing and heating valves and specialties (product class 34943) and other metal valves and fittings (product class 34944).



TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class   | 1963      | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958      | 1954    | 1947    |
|-------|---|-----------|-------------------|-------------------|-------------------|-------------------|-----------|---------|---------|
| 3481- | Fabricated wire products, n.e.c.....  | 1,399,261 | (NA)              | (NA)              | (NA)              | (NA)              | 1,164,232 | 982,720 | (NA)    |
| 34811 | Noninsulated ferrous wire rope, cable and strand, not produced by wire drawers <sup>2</sup> .....           | 189,934   | 190,563           | 178,689           | 185,228           | 190,913           | 163,386   | 142,875 | 128,338 |
| 34812 | Precision mechanical springs.....   | 149,985   | 166,583           | 144,212           | 139,868           | 150,324           | 108,984   | 98,049  | (NA)    |
| 34813 | Other wire springs.....   | 239,498   | 224,318           | 203,606           | 228,308           | 216,326           | 187,772   | 191,071 | (NA)    |
| 34814 | Ferrous wire cloth, and other woven ferrous wire products, not produced by wire drawers <sup>3</sup> .....  | 72,328    | (NA)              | (NA)              | (NA)              | (NA)              | 156,995   | 131,175 | 90,792  |
| 34815 | Nonferrous wire cloth and other woven nonferrous wire products, not made by wire drawers <sup>4</sup> ..... | 70,487    |                   |                   |                   |                   |           |         |         |
| 34816 | Fencing and fence gates, not produced by wire drawers <sup>5</sup> .....                                    | 115,480   | 111,200           | 113,065           | 103,530           | 111,355           | 103,309   | 92,909  | 63,297  |
| 34819 | Other fabricated wire products, not produced by wire drawers <sup>6</sup> .....                             | 501,529   | 467,407           | 453,458           | 431,233           | 445,835           | 405,656   | 313,382 | 214,690 |
| 34810 | Fabricated wire products, n.s.k.....  | 60,020    | (NA)              | (NA)              | (NA)              | (NA)              | 38,130    | 13,259  | (NA)    |
| 3491- | Metal barrels, drums, and pails.....  | 317,873   | 291,786           | 272,341           | 265,136           | 290,496           | 258,953   | 211,255 | 179,556 |
| 34911 | Steel shipping pails (1 to 12 gal. capacity)  | 87,186    | 86,903            | 85,513            | 86,745            | 95,212            | 80,229    | 54,771  | 35,604  |
| 34912 | Steel shipping barrels and drums (over 12 gallon capacity), except beer barrels.....                        | 191,501   | 186,203           | 168,976           | 162,045           | 177,313           | 162,375   | 143,854 | 107,741 |
| 34913 | All other barrels, including beer barrels and fluid milk shipping containers.....                           | 35,887    | 18,455            | 17,426            | 16,058            | 16,437            | 14,723    | 12,630  | 36,211  |
| 34910 | Metal barrels, drums, and pails, n.s.k.....   | 3,299     | (NA)              | (NA)              | (NA)              | (NA)              | 1,626     | (NA)    | (NA)    |
| 34920 | Safes and vaults.....   | 59,328    | 48,917            | 51,725            | 50,843            | 48,171            | 45,088    | 33,969  | 28,737  |
| 34930 | Steel springs.....  | 205,235   | 168,899           | 133,314           | 152,440           | 150,301           | 133,143   | 129,593 | 118,510 |
| 3494- | Valves and pipe fittings.....   | 1,525,399 | 1,464,495         | 1,322,363         | 1,301,604         | 1,310,027         | 1,193,012 | 911,678 | 557,448 |
| 34941 | Metal valves for piping systems (except plumbing and heating valves).....                                   | 686,096   | 655,124           | 605,801           | 595,633           | 595,764           | 559,840   | 420,305 | 441,557 |
| 34942 | Metal fittings and unions for piping systems.....   | 421,664   | 412,387           | 378,193           | 387,486           | 397,373           | 374,233   | 304,425 |         |
| 34943 | Plumbing and heating valves, and specialties, except plumbers' brass goods.....                             | 87,860    | 116,628           | 107,859           | 95,553            | 97,551            | 87,110    | 94,035  | 63,761  |
| 34944 | Other metal valves and fittings, except plumbers' brass goods and fittings.....                             | 303,319   | 234,418           | 196,342           | 193,476           | 193,345           | 151,564   | 788,397 | 743,175 |
| 34940 | Valves and fittings, n.s.k.....   | 26,460    | (NA)              | (NA)              | (NA)              | (NA)              | 20,265    | 4,516   | 8,955   |
| 34960 | Collapsible tubes.....  | 44,216    | 41,448            | 41,883            | 40,521            | 40,728            | 37,172    | 34,129  | 23,772  |
| 34970 | Metal foil and leaf.....  | 329,930   | (180,907)         | (157,193)         | (156,193)         | (157,122)         | 145,484   | 128,392 | 66,473  |
| 34980 | Fabricated pipe and fittings.....   | 286,535   | 248,986           | 224,203           | 223,819           | 247,042           | 265,378   | 214,133 | 109,991 |
| 34990 | Fabricated metal products, n.e.c.....   | 753,371   | 654,604           | 554,662           | 542,693           | 501,745           | 443,638   | 364,769 | 107,942 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Includes product class 33151, Noninsulated ferrous wire rope, cable, and strand produced from wire drawn, which is primary to industry 3315.

<sup>3</sup>Includes product class 33157, Wire cloth and other woven wire products made in wire drawing plants, which is primary to industry 3315.

<sup>4</sup>Includes product class 33575, Nonferrous wire cloth and other woven wire products made in nonferrous wire drawing plants, which is primary to industry 3357.

<sup>5</sup>Includes product class 33156, Fencing and fence gates made in wire drawing plants, which is primary to industry 3315.

<sup>6</sup>Includes product class 33159, Other fabricated ferrous wire products, except springs made in wire drawing plants, which is primary to industry 3315.

<sup>7</sup>Does not include pipe hangars and pipe supports, for which data is not available.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area                                   | Value of shipments |                  | Product class and geographic area  | Value of shipments |                         | Product class and geographic area   | Value of shipments |                  |
|---|--------------------|------------------|--|--------------------|-------------------------|---|--------------------|------------------|
|   | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958                    |   | 1963 <sup>1</sup>  | 1958             |
| NONINSULATED FERROUS WIRE ROPE, CABLE, AND STRAND (33151 and 34811) |                    |                  | FERROUS WIRE CLOTH AND OTHER WOVEN FERROUS WIRE PRODUCTS (33157 and 34814)       |                    |                         | OTHER FABRICATED WIRE PRODUCTS (33159 and 34819)—Continued                              |                    |                  |
| United States, total....  | 189,934            | 163,386          | United States, total....   | 72,328             |                         | Middle Atlantic.....  | 150,329            | 138,115          |
| New England.....  | 16,818             | 2,694            | New England.....   | 9,168              |                         | New York.....   | 44,907             | 45,598           |
| Middle Atlantic.....  | 85,325             | 72,294           | Massachusetts.....   | 4,917              |                         | New Jersey.....   | 23,304             | 11,007           |
| New York.....   | 8,130              | 2,587            | Middle Atlantic.....   | 16,589             |                         | Pennsylvania.....   | 82,118             | 81,510           |
| New Jersey.....   | 33,445             | 29,037           | New York.....  | 6,035              |                         | East North Central.....   | 163,610            | 131,393          |
| Pennsylvania.....   | 43,750             | 40,670           | Pennsylvania.....  | 10,221             |                         | Ohio.....   | 24,015             | 22,819           |
| East North Central.....   | 30,211             | 22,430           | Middle Atlantic.....   | 24,279             |                         | Indiana.....  | 27,096             | 26,068           |
| Ohio.....   | 2,547              | 4,100            | Ohio.....  | 7,778              |                         | Illinois.....   | 77,642             | 55,943           |
| Michigan.....   | 1,725              | ( <sup>2</sup> ) | Illinois.....  | 12,393             |                         | Michigan.....   | 29,371             | 22,286           |
| South Atlantic.....   | 10,320             | 9,188            | East North Central.....  | 24,279             |                         | Wisconsin.....  | 5,486              | 4,277            |
| West South Central.....   | 3,117              | ( <sup>2</sup> ) | Ohio.....  | 7,778              |                         | West North Central.....   | 42,938             | 35,246           |
| Texas.....  | 3,117              | ( <sup>2</sup> ) | Illinois.....  | 12,393             |                         | Minnesota.....  | 8,221              | 7,983            |
| Pacific.....  | 17,434             | 12,217           | East South Central.....  | 4,379              |                         | Iowa.....   | 8,002              | 4,368            |
| All other divisions.....  | 26,709             | 44,563           | Pacific.....   | 7,257              |                         | Missouri.....   | 22,339             | 19,027           |
| PRECISION MECHANICAL SPRINGS (34812)                                |                    |                  | All other divisions.....   | 10,656             |                         | Kansas.....   | 3,011              | ( <sup>2</sup> ) |
| United States, total....  | 149,985            | 108,984          | NONFERROUS WIRE CLOTH AND OTHER WOVEN NONFERROUS WIRE PRODUCTS (33575 and 34815) |                    |                         | South Atlantic.....   | 24,026             | 14,639           |
| New England.....  | 16,477             | 12,314           | United States, total....   | 70,487             |                         | Maryland.....   | 12,131             | 7,054            |
| Connecticut.....  | 14,750             | 9,469            | New England.....   | 7,575              |                         | North Carolina.....   | 1,658              | ( <sup>2</sup> ) |
| Middle Atlantic.....  | 20,392             | 12,352           | Massachusetts.....   | 4,572              |                         | Georgia.....  | 2,869              | 2,169            |
| New York.....   | 5,513              | 3,593            | Middle Atlantic.....   | 25,689             |                         | Florida.....  | 4,502              | 3,969            |
| New Jersey.....   | 1,366              | ( <sup>3</sup> ) | New Jersey.....  | 12,022             |                         | East South Central.....   | 23,754             | 15,220           |
| Pennsylvania.....   | 13,513             | 8,172            | East North Central.....  | 13,312             |                         | Tennessee.....  | 8,891              | 5,873            |
| East North Central.....   | 102,192            | 74,637           | South Atlantic.....  | 11,692             |                         | Alabama.....  | 13,817             | 9,170            |
| Indiana.....  | 12,868             | ( <sup>2</sup> ) | Florida.....   | 6,504              |                         | West South Central.....   | 20,162             | 13,315           |
| Illinois.....   | 41,180             | 35,855           | East South Central.....  | 6,917              |                         | Arkansas.....   | 1,022              | ( <sup>2</sup> ) |
| Michigan.....   | 38,992             | 23,981           | Pacific.....   | 1,604              |                         | Texas.....  | 11,653             | 7,312            |
| Pacific.....  | 7,415              | 6,218            | All other divisions.....   | 3,698              |                         | Mountain.....   | 15,900             | 11,856           |
| All other divisions.....  | 3,509              | 3,463            | FENCING AND FENCE GATES (33156 and 34816)  |                    |                         | Pacific.....  | 33,461             | 23,038           |
| OTHER WIRE SPRINGS (34813)  |                    |                  | United States, total....   | 115,480            | 103,309                 | Washington.....   | 2,177              | 1,688            |
| United States, total....  | 239,498            | 187,772          | New England.....   | 3,777              | 4,463                   | California.....   | 31,052             | 21,055           |
| New England.....  | 8,742              | 9,911            | Middle Atlantic.....   | 5,521              | 12,247                  | STEEL SHIPPING PAILS (1 to 12 GALLON CAPACITY) (34911)                                  |                    |                  |
| Massachusetts.....  | 6,169              | 5,060            | New York.....  | 1,364              | 3,697                   | United States, total....  | 87,186             | 80,229           |
| Connecticut.....  | 2,573              | 4,851            | Pennsylvania.....  | 3,224              | 8,347                   | Middle Atlantic.....  | 23,707             | ( <sup>2</sup> ) |
| Middle Atlantic.....  | 17,615             | 24,432           | East North Central.....  | 43,355             | 35,761                  | Pennsylvania.....   | 9,411              | 16,573           |
| New York.....   | 2,507              | 6,014            | Ohio.....  | 8,029              | 2,160                   | East North Central.....   | 38,026             | ( <sup>2</sup> ) |
| New Jersey.....   | 2,312              | 1,617            | Indiana.....   | 5,522              | ( <sup>2</sup> )        | Illinois.....   | 23,273             | 18,326           |
| Pennsylvania.....   | 12,796             | 16,801           | Illinois.....  | 28,396             | 25,143                  | West North Central.....   | 1,605              | ( <sup>2</sup> ) |
| East North Central.....   | 142,746            | 102,869          | West North Central.....  | 11,582             | 9,803                   | South Atlantic.....   | 3,874              | ( <sup>2</sup> ) |
| Ohio.....   | 31,994             | 26,106           | South Atlantic.....  | 13,413             | ( <sup>2</sup> )        | West South Central.....   | 7,557              | ( <sup>2</sup> ) |
| Indiana.....  | 12,618             | ( <sup>2</sup> ) | West South Central.....  | 18,572             | ( <sup>2</sup> )        | Pacific.....  | 10,104             | 6,428            |
| Illinois.....   | 54,520             | 40,501           | Texas.....   | 15,930             | 12,354                  | All other divisions.....  | 2,313              | ( <sup>2</sup> ) |
| Michigan.....   | 41,008             | 28,549           | Pacific.....   | 12,541             | ( <sup>2</sup> )        | STEEL SHIPPING BARRELS AND DRUMS (OVER 12 GALLON CAPACITY), EXCEPT BEER BARRELS (34912) |                    |                  |
| Wisconsin.....  | 2,606              | ( <sup>2</sup> ) | California.....  | 12,423             | 11,906                  | United States, total....  | 191,501            | 162,375          |
| West North Central.....   | 9,776              | 8,264            | All other divisions.....   | 6,719              | ( <sup>2</sup> )        | Northeast.....  | 59,980             | ( <sup>2</sup> ) |
| Missouri.....   | 6,749              | 7,441            | OTHER FABRICATED WIRE PRODUCTS (33159 and 34819)                                 |                    |                         | New Jersey.....   | 38,765             | 22,696           |
| South Atlantic.....   | 14,060             | 13,094           | United States, total....   | 501,529            | 405,656                 | East North Central.....   | 58,155             | 45,862           |
| North Carolina.....   | 9,743              | 7,270            | New England.....   | 27,349             | 22,854                  | Ohio.....   | 24,144             | 18,872           |
| East South Central.....   | 17,097             | 5,773            | Massachusetts.....   | 9,551              | 10,016                  | Illinois.....   | 30,917             | 25,452           |
| Pacific.....  | 23,629             | ( <sup>2</sup> ) | Connecticut.....   | 16,474             | 11,812                  | West North Central.....   | 6,680              | 4,320            |
| California.....   | 21,850             | 18,281           |  |                    | Missouri.....           | 2,386   | ( <sup>2</sup> )   |                  |
| All other divisions.....  | 5,833              | 23,428           |  |                    | South Atlantic.....     | 5,634   | ( <sup>2</sup> )   |                  |
|   |                    |                  |  |                    | East South Central..... | 6,223   | ( <sup>2</sup> )   |                  |

See footnotes at end of table.



TABLE 6D Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area   | Value of shipments |                  | Product class and geographic area  | Value of shipments |                  | Product class and geographic area  | Value of shipments |                  |
|---|--------------------|------------------|--|--------------------|------------------|--|--------------------|------------------|
|   | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |
| STEEL SHIPPING BARRELS AND DRUMS (OVER 12 GALLON CAPACITY), EXCEPT BEER BARRELS (34912)—Continued |                    |                  | METAL FITTINGS AND UNIONS FOR PIPING SYSTEMS (34942)                               |                    |                  | OTHER METAL VALVES AND FITTINGS, EXCEPT PLUMBERS' BRASS GOODS AND FIXTURES (34944)—Continued |                    |                  |
| West South Central.....   | 37,847             | ( <sup>2</sup> ) | United States, total...  | 421,664            | 374,233          | Middle Atlantic.....   | 62,542             | 25,146           |
| Louisiana.....  | 17,394             | 17,828           | New England.....   | 25,975             | 29,167           | New York.....  | 24,648             | 4,467            |
| Texas.....  | 20,453             | 20,606           | Massachusetts.....   | 6,466              | 15,396           | New Jersey.....  | 21,338             | 9,788            |
| West.....   | 16,982             | ( <sup>2</sup> ) | Rhode Island.....  | 11,792             | ( <sup>2</sup> ) | Pennsylvania.....  | 16,506             | 10,891           |
| ALL OTHER METAL BARRELS, INCLUDING BEER BARRELS AND FLUID MILK SHIPPING CONTAINERS (34913)        |                    |                  | Connecticut.....   | 7,717              | ( <sup>2</sup> ) | East North Central.....  | 96,827             | 71,650           |
| United States, total....  |                    | 35,887           | Middle Atlantic.....   | 118,122            | 91,360           | Ohio.....  | 28,134             | 13,636           |
| Middle Atlantic.....  |                    | 8,886            | New York.....  | 6,592              | 4,599            | Indiana.....   | 6,514              | ( <sup>2</sup> ) |
| New York.....   |                    | 2,728            | New Jersey.....  | 9,385              | 10,590           | Illinois.....  | 28,250             | 27,665           |
| East North Central.....   |                    | 16,294           | Pennsylvania.....  | 102,145            | 76,171           | Michigan.....  | 26,372             | 25,229           |
| Ohio.....   |                    | 2,771            | East North Central.....  | 188,165            | ( <sup>2</sup> ) | Wisconsin.....   | 7,557              | 4,126            |
| West North Central.....   |                    | 4,782            | Ohio.....  | 48,163             | 35,119           | West North Central.....  | 28,610             | 12,290           |
| All other divisions.....  |                    | 5,925            | Indiana.....   | 35,823             | 23,547           | Minnesota.....   | 3,959              | ( <sup>2</sup> ) |
| METAL VALVES FOR PIPING SYSTEMS (EXCEPT PLUMBING AND HEATING VALVES) (34941)                      |                    |                  | Illinois.....  | 44,585             | 49,952           | Missouri.....  | 7,855              | 6,590            |
| United States, total....  |                    | 559,840          | West North Central.....  | 5,034              | ( <sup>2</sup> ) | South.....   | 10,245             | 9,881            |
| New England.....  | 89,416             | 75,718           | South Atlantic.....  | 6,525              | ( <sup>2</sup> ) | Texas.....   | 4,379              | 3,484            |
| Massachusetts.....  | 56,139             | 47,240           | East South Central.....  | 47,021             | ( <sup>2</sup> ) | Mountain.....  | 25,794             | ( <sup>2</sup> ) |
| Connecticut.....  | 22,639             | 22,632           | Alabama.....   | 22,385             | ( <sup>2</sup> ) | Pacific.....   | 57,027             | ( <sup>2</sup> ) |
| Middle Atlantic.....  | 134,866            | 117,864          | West South Central.....  | 18,279             | ( <sup>2</sup> ) | Oregon.....  | 2,398              | 1,623            |
| New York.....   | 32,858             | 30,593           | Texas.....   | 15,644             | 14,433           | California.....  | 54,629             | 16,154           |
| New Jersey.....   | 33,452             | 26,291           | West.....  | 12,543             | 16,719           | METAL FOIL AND LEAF (EXCEPT PLAIN ALUMINUM FOIL) <sup>3</sup> (34970)                        |                    |                  |
| Pennsylvania.....   | 68,556             | 60,980           | PLUMBING AND HEATING VALVES AND SPECIALITIES, EXCEPT PLUMBERS' BRASS GOODS (34943) |                    |                  | United States, total...  | 329,930            | 145,484          |
| East North Central.....   | 210,270            | 209,041          | United States, total....   | 87,860             | 87,110           | New England.....   | 18,759             | 10,869           |
| Ohio.....   | 75,621             | 68,213           | New England.....   | 9,297              | 4,725            | Connecticut.....   | 10,636             | 8,097            |
| Indiana.....  | 24,232             | 23,933           | Massachusetts.....   | 5,362              | 5,598            | Middle Atlantic.....   | 43,743             | 24,542           |
| Illinois.....   | 92,642             | 99,206           | Middle Atlantic.....   | 9,140              | 10,030           | New York.....  | 14,826             | 9,509            |
| Michigan.....   | 7,489              | 10,393           | Pennsylvania.....  | 3,257              | ( <sup>2</sup> ) | New Jersey.....  | 19,313             | 9,814            |
| Wisconsin.....  | 10,286             | 7,296            | East North Central.....  | 50,064             | 49,807           | Pennsylvania.....  | 9,604              | 5,219            |
| West North Central.....   | 71,995             | 39,920           | Ohio.....  | 10,940             | 11,464           | East North Central.....  | 57,846             | ( <sup>2</sup> ) |
| Missouri.....   | 15,603             | ( <sup>2</sup> ) | Indiana.....   | 7,099              | 7,443            | Ohio.....  | 33,209             | 20,651           |
| South Atlantic.....   | 3,837              | 3,646            | Illinois.....  | 24,125             | 20,184           | Illinois.....  | 18,632             | 14,924           |
| East South Central.....   | 51,029             | 31,192           | West North Central.....  | 4,842              | 2,855            | West North Central.....  | 30,823             | ( <sup>2</sup> ) |
| West South Central.....   | 76,856             | 47,446           | South.....   | 8,616              | 11,531           | South.....   | 159,802            | 31,612           |
| Oklahoma.....   | 11,979             | ( <sup>2</sup> ) | Pacific.....   | 5,901              | 8,162            | Pacific.....   | 18,957             | 20,027           |
| Texas.....  | 53,979             | 39,527           | OTHER METAL VALVES AND FITTINGS, EXCEPT PLUMBERS' BRASS GOODS AND FIXTURES (34944) |                    |                  | FABRICATED METAL PRODUCTS, N.E.C. (34990)  |                    |                  |
| West.....   | 47,827             | ( <sup>2</sup> ) | United States, total..   | 303,319            | 151,564          | United States, total...  | 753,371            | 443,638          |
|   |                    |                  | New England.....   | 22,274             | 11,243           | New England.....   | 69,079             | 31,658           |
|   |                    |                  | Massachusetts.....   | 12,934             | ( <sup>2</sup> ) | New Hampshire.....   | 1,414              | ( <sup>2</sup> ) |
|   |                    |                  |  |                    |                  | Massachusetts.....   | 27,038             | 10,151           |
|   |                    |                  |  |                    |                  | Rhode Island.....  | 9,846              | 3,654            |
|   |                    |                  |  |                    |                  | Connecticut.....   | 30,262             | 17,052           |

See footnotes at end of table.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area                   | Value of shipments |         | Product class and geographic area                   | Value of shipments |        | Product class and geographic area                   | Value of shipments |        |
|---|--------------------|---------|---|--------------------|--------|---|--------------------|--------|
|   | 1963 <sup>1</sup>  | 1958    |   | 1963 <sup>1</sup>  | 1958   |   | 1963 <sup>1</sup>  | 1958   |
| FABRICATED METAL PRODUCTS, N.E.C. (34990)—Continued |                    |         | FABRICATED METAL PRODUCTS, N.E.C. (34990)—Continued |                    |        | FABRICATED METAL PRODUCTS, N.E.C. (34990)—Continued |                    |        |
| Middle Atlantic.....                                | 193,948            | 116,764 | West North Central.....                             | 40,478             | 13,774 | East South Central.....                             | 7,526              | 2,875  |
| New York.....                                       | 72,532             | 47,601  | Minnesota.....                                      | 13,283             | 6,690  | Kentucky.....                                       | 4,321              | 1,231  |
| New Jersey.....                                     | 30,297             | 19,249  | Iowa.....   | 6,856              | 1,719  | Tennessee.....                                      | 1,679              | (Z)    |
| Pennsylvania.....                                   | 91,119             | 49,914  | Missouri.....                                       | 17,523             | 4,414  | West South Central.....                             | 19,544             | 4,559  |
| East North Central.....                             | 306,718            | 214,624 | Kansas.....   | 2,347              | (Z)    | Oklahoma.....                                       | 3,143              | 1,172  |
| Ohio.....   | 50,118             | 35,162  | South Atlantic.....                                 | 55,443             | 38,107 | Texas.....  | 9,489              | 2,028  |
| Indiana.....  | 40,679             | 26,496  | Maryland.....                                       | 24,183             | 16,999 | Mountain.....                                       | 13,141             | 2,729  |
| Illinois.....                                       | 152,641            | 119,119 | Virginia.....                                       | 2,295              | 1,658  | Arizona.....  | 1,249              | 1,102  |
| Michigan.....                                       | 52,945             | 28,920  | North Carolina.....                                 | 2,751              | 3,831  | Pacific.....  | 47,494             | 18,548 |
| Wisconsin.....                                      | 10,335             | 4,927   | Georgia.....  | 3,412              | 1,302  | Oregon.....   | 1,357              | (Z)    |
|   |                    |         | Florida.....  | 4,886              | 6,598  | California.....                                     | 44,810             | 17,940 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million. n.e.c. Not elsewhere classified.

<sup>1</sup>For the specified product classes shipment of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 33151 and 34811, Massachusetts, Connecticut, Indiana, Illinois, Wisconsin, Missouri, Maryland, Virginia, Georgia, Florida, Colorado, Washington, and California; 34812, Massachusetts, Ohio, Kentucky, and California; 34813, Iowa, Maryland, Kentucky, Mississippi, Texas, and Colorado; 33157 and 34814, Connecticut, Indiana, Michigan, Missouri, Maryland, Kentucky, Colorado, Oregon, and California; 33575 and 34815, Connecticut, New York, Pennsylvania, Ohio, Wisconsin, Missouri, Alabama, Mississippi, and California; 33156 and 34816, Connecticut, Minnesota, Iowa, Missouri, Maryland, Florida, Alabama, Louisiana, Oklahoma, and Colorado; 33159 and 34819, Rhode Island, Delaware, Louisiana, Oklahoma, and Colorado; 34911, Massachusetts, New York, New Jersey, Wisconsin, Kansas, South Carolina, Alabama, Louisiana, Texas, and California; 34912, Connecticut, New York, Pennsylvania, Michigan, Kansas, West Virginia, Tennessee, Alabama, and California; 34913, New Jersey, Pennsylvania, Indiana, Illinois, Wisconsin, Minnesota, Missouri, Nebraska, and South Carolina; 34920, New York, Ohio, and Indiana; 34941, New Hampshire, Rhode Island, Minnesota, Iowa, Nebraska, Kansas, West Virginia, Kentucky, Tennessee, Alabama, Arkansas, Louisiana, Washington, and California; 34942, Michigan, Wisconsin, Missouri, Kansas, Delaware, Georgia, Kentucky, Arkansas, Oklahoma, Colorado, and California; 34943, Rhode Island, Connecticut, New York, New Jersey, Michigan, Wisconsin, Iowa, Oregon, and California; 34944, Vermont, Connecticut, Nebraska, Kansas, Virginia, Oklahoma, Colorado, and Arizona; 34970, Vermont, Massachusetts, Indiana, Wisconsin, Minnesota, Iowa, Missouri, Maryland, Virginia, North Carolina, Kentucky, Tennessee, Arkansas, and California; 34990, West Virginia, South Carolina, Alabama, Arkansas, Louisiana, Colorado, and Washington.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>In 1958 these data are limited to laminated foil made from purchased aluminum foil.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code  | Material   | Unit of measure                | 1963     |                          | 1958     |                          |
|---|--|--------------------------------|----------|--------------------------|----------|--------------------------|
|   |  |                                | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3481.—FABRICATED WIRE PRODUCTS, N.E.C. |  |                                |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....   |                                | (X)      | 433,668                  | (X)      | 373,917                  |
|   | Mill shapes and forms (except castings):   |                                |          |                          |          |                          |
|   | Carbon steel:  |                                |          |                          |          |                          |
| 331011  | Bars and bar shapes.....   | Short tons.....                | 30,458   | 5,440                    | 63,264   | 11,632                   |
| 331012  | Sheet and strip.....   | .....do.....                   | 137,110  | 24,798                   | 107,951  | 18,794                   |
| 331015  | Structural shapes.....   | .....do.....                   | 2,536    | 554                      | 9,106    | 1,899                    |
| 331017  | Wire and wire products.....  | .....do.....                   | 908,400  | 201,780                  | 840,316  | 185,508                  |
| 331019  | All other carbon steel mill shapes and forms.....  | .....do.....                   | 29,842   | 7,147                    | 32,742   | 6,558                    |
|   | Alloy steel (except stainless):  |                                |          |                          |          |                          |
| 331021  | Bars and bar shapes.....   | .....do.....                   | 14,061   | 3,338                    | 13,703   | 2,907                    |
| 331029  | All other alloy steel mill shapes and forms.....   | .....do.....                   | 7,220    | 4,208                    | 2,670    | 1,785                    |
| 331031  | Stainless steel mill shapes and forms.....   | .....do.....                   | 5,152    | 10,253                   | 3,393    | 7,044                    |
|   | Copper and copper-base alloy mill shapes and forms:  |                                |          |                          |          |                          |
| 335728  | Bare wire for electrical conduction.....   | 1,000 lbs.....                 | 781      | 502                      | 1,050    | 514                      |
| 335790  | Insulated wire and cable.....  | 1,000 lbs. (copper content)... |          |                          | 201      | 279                      |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                           | 1,000 lbs.....                 | 7,009    | 4,543                    | 11,363   | 7,235                    |
| 335123  | Plate, sheet, and strip (including military cups and discs)....                                      | .....do.....                   | 1,963    | 1,466                    |          |                          |
| 335127  | Pipe and tube.....   | .....do.....                   | 1,338    | 999                      |          |                          |
|   | Aluminum and aluminum-base alloy mill shapes and forms:  |                                |          |                          |          |                          |
| 335202  | Sheet, plate and foil.....   | .....do.....                   | 6,191    | 1,913                    | (NA)     | 512                      |
| 335205  | Extruded shapes (including extruded rod, bar, pipe, tube etc.)..                                     | .....do.....                   | 6,906    | 2,138                    | 11,447   | 6,432                    |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing etc.)..... | .....do.....                   | 7,377    | 3,324                    |          |                          |
|   | Castings (rough and semifinished): <sup>1</sup>  |                                |          |                          |          |                          |
| 332300  | Steel.....   | Short tons.....                | 5,014    | 2,263                    | 3,817    | 1,493                    |
| 336100  | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....                 | 403      | 233                      | 1,141    | 564                      |
| 336200  | Copper and copper-base alloy.....  | .....do.....                   | (NA)     | 29                       | (NA)     | (NA)                     |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                    |                                | (X)      | 84,042                   | (X)      | 78,446                   |
| 976000  | Materials, parts, containers, etc., n.s.k. <sup>2</sup> .....  |                                | (X)      | 74,698                   | (X)      | 42,315                   |
| INDUSTRY 3491.—METAL BARRELS, DRUMS, AND PAILS  |  |                                |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....   |                                | (X)      | 176,034                  | (X)      | 145,384                  |
|   | Mill shapes and forms (except castings):   |                                |          |                          |          |                          |
|   | Carbon steel:  |                                |          |                          |          |                          |
| 331011  | Bar and bar shapes.....  | Short Tons.....                | 3,484    | 533                      | 24,666   | 3,623                    |
|   | Steel:   |                                |          |                          |          |                          |
| 331012  | Sheet and strip.....   | .....do.....                   | 727,154  | 106,280                  | 727,141  | 105,755                  |
| 331018  | Tin plate, terneplate and black plate.....   | .....do.....                   | 38,155   | 5,647                    | 14,683   | 2,160                    |
| 331017  | Wire and wire products.....  | .....do.....                   | 10,791   | 1,824                    | 7,071    | 1,418                    |
| 331013  | Plates.....  | .....do.....                   | 27,782   | 4,296                    | 5,902    | 910                      |
| 331015  | Structural shapes.....   | .....do.....                   |          |                          | 666      | 149                      |
| 331019  | All other carbon steel mill shapes and forms.....  | .....do.....                   |          |                          | 1,392    | 263                      |
| 331000  | Alloy steel (except stainless).....  | .....do.....                   | 4,203    | 3,043                    | 968      | 1,277                    |
| 331031  | Stainless steel mill shapes and forms.....   | .....do.....                   |          |                          |          |                          |
| 970000  | All other materials and components, parts, containers, and supplies consumed.....                    |                                | (X)      | 45,692                   | (X)      | 27,070                   |
| 973000  | Materials, components, parts, containers, etc., n.s.k. <sup>2</sup> .....                            |                                | (X)      | 8,719                    | (X)      | 2,759                    |
| INDUSTRY 3493.—STEEL SPRINGS                    |  |                                |          |                          |          |                          |
|   | Materials, containers, parts, and supplies, total.....   |                                | (X)      | 82,268                   | (X)      | 58,306                   |
|   | Mill shapes and forms (except castings):   |                                |          |                          |          |                          |
|   | Carbon steel:  |                                |          |                          |          |                          |
| 331011  | Bars and bar shapes.....   | Short tons.....                | 65,537   | 11,009                   | 54,165   | 8,369                    |
| 331012  | Sheet and strip.....   | .....do.....                   | 49,616   | 8,934                    | 20,481   | 3,543                    |
| 331017  | Wire and wire products.....  | .....do.....                   | 11,659   | 5,416                    | 4,915    | 2,548                    |
| 331019  | All other carbon steel mill shapes and forms.....  | .....do.....                   | 2,263    | 557                      | 2,726    | 554                      |
|   | Alloy steel (except stainless):  |                                |          |                          |          |                          |
| 331021  | Bars and bar shapes.....   | .....do.....                   | 206,456  | 35,359                   | 168,422  | 29,008                   |
| 331029  | All other alloy steel mill shapes and forms.....   | .....do.....                   |          |                          |          |                          |
| 331031  | Stainless steel mill shapes and forms.....   | .....do.....                   | 207      | 452                      | 33       | 61                       |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure            | 1963     |                          | 1958     |                          |
|---|---|----------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                            | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3493.—STEEL SPRINGS—Continued                  |   |                            |          |                          |          |                          |
| 332300  | Steel castings (rough and semifinished).....  | .....                      | (D)      | (D)                      | (NA)     | (NA)                     |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....     | .....                      | (X)      | 17,988                   | (X)      | 8,144                    |
| 973000  | Materials, parts, containers, etc., n.s.k. <sup>2</sup> .....                         | .....                      | (X)      | 2,553                    | (X)      | 6,079                    |
| INDUSTRY 3494.—VALVES AND PIPE FITTINGS                 |   |                            |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....                                | .....                      | (X)      | 569,770                  | (X)      | 440,047                  |
| Mill shapes and forms (except castings):                |   |                            |          |                          |          |                          |
| Carbon steel:   |   |                            |          |                          |          |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....            | 61,795   | 11,707                   | 56,358   | 11,240                   |
| 331012  | Sheet and strip.....  | .....do.....               | 39,618   | 6,616                    | 13,499   | 2,562                    |
| 331013  | Plates.....   | .....do.....               | 26,782   | 4,457                    | 25,882   | 4,229                    |
| 331019  | All other carbon steel mill shapes and forms.....                                     | .....do.....               | 54,565   | 13,129                   | 44,858   | 10,998                   |
| Alloy steel (except stainless):                         |   |                            |          |                          |          |                          |
| 331021  | Bars and bar shapes.....  | .....do.....               | 15,067   | 4,323                    | 6,466    | 2,070                    |
| 331029  | All other alloy steel mill shapes and forms.....                                      | .....do.....               | 9,008    | 3,585                    | 5,001    | 2,834                    |
| 331031  | Stainless steel mill shapes and forms.....  | .....do.....               | 12,357   | 16,510                   | 10,617   | 12,985                   |
| Copper and copper base alloy:                           |   |                            |          |                          |          |                          |
| 335728  | Bare wire for electrical conduction.....  | 1,000 lbs.....             | 951      | 435                      | 287      | 159                      |
| 335790  | Insulated wire and cable.....   | 1,000 lbs. copper content. | 828      | 754                      | 582      | 486                      |
| 335102  | Rod, bar, and mechanical wire.....  | 1,000 lbs.....             | 109,445  | 37,818                   | 108,948  | 37,104                   |
| 335123  | Plate, sheet, and strip.....  | .....do.....               | 4,048    | 2,023                    |          |                          |
| 335127  | Pipe and tube.....  | .....do.....               | 33,034   | 16,518                   |          |                          |
| Aluminum and aluminum-base alloy:                       |   |                            |          |                          |          |                          |
| 335202  | Sheet, plate and foil.....  | .....do.....               | 600      | 366                      | 1,150    | 655                      |
| 335205  | Extruded shapes (rod, bar, pipe, etc.).....   | .....do.....               | 1,975    | 1,374                    | 7,565    | 4,020                    |
| 335209  | All other aluminum mill shapes and forms (wire, rod, etc.).....                       | .....do.....               | 10,432   | 5,213                    |          |                          |
| Primary metals:   |   |                            |          |                          |          |                          |
| 331051  | Pig iron.....   | Short tons.....            | 91,410   | 5,510                    | 105,281  | 6,596                    |
| 333401  | Aluminum and aluminum-base alloy refinery shapes, (ingot, slugs, etc.).....           | .....do.....               | 1,550    | 883                      | (NA)     | (NA)                     |
| 333102  | Copper and copper-base alloy refinery shapes.....                                     | .....do.....               | 63,602   | 38,915                   | 42,431   | 21,605                   |
| Scrap (purchased only):                                 |   |                            |          |                          |          |                          |
| 999811  | Iron and steel.....   | .....do.....               | 221,971  | 8,238                    | 134,344  | 5,900                    |
| 999808  | Aluminum and aluminum-base alloy.....   | .....do.....               | 6,321    | 3,638                    | (NA)     | (NA)                     |
| 999812  | Copper and copper-base alloy.....   | .....do.....               | 9,535    | 4,790                    | 24,204   | 11,845                   |
| Castings (rough and semifinished): <sup>3</sup>         |   |                            |          |                          |          |                          |
| 332011  | Iron (gray and malleable).....  | .....do.....               | 113,586  | 39,502                   | 124,832  | 40,218                   |
| 332300  | Steel.....  | .....do.....               | 40,178   | 37,923                   | 40,559   | 32,893                   |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....             | 6,058    | 5,202                    | 5,166    | 4,155                    |
| 336200  | Copper and copper-base alloy.....   | .....do.....               | 47,863   | 30,761                   | 56,334   | 27,514                   |
| 339100  | Iron and steel forgings <sup>4</sup> .....  | Short tons.....            | 26,141   | 14,718                   | 14,298   | 9,510                    |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....     | .....                      | (X)      | 215,254                  | (X)      | 166,159                  |
| 976000  | Materials, parts, containers, etc., n.s.k. <sup>2</sup> .....                         | .....                      | (X)      | 39,608                   | (X)      | 24,310                   |
| INDUSTRY 3496.—COLLAPSIBLE TUBES                        |   |                            |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....                                | .....                      | (X)      | 19,336                   | (X)      | 15,186                   |
| 333401  | Aluminum and aluminum-base alloy refinery shapes (pig, ingot, shot, slugs, etc.)..... | Short tons.....            | 7,458    | 5,027                    | 5,223    | 4,719                    |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....     | .....                      | (X)      | 13,344                   | (X)      | 6,821                    |
| 973000  | Materials, parts, containers, etc., n.s.k. <sup>2</sup> .....                         | .....                      | (X)      | 965                      | (X)      | 3,646                    |
| INDUSTRY 3497.—METAL FOIL AND LEAF                      |   |                            |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....                                | .....                      | (X)      | 114,843                  | (X)      | 51,356                   |
| Aluminum and aluminum-base alloy mill shapes and forms: |   |                            |          |                          |          |                          |
| 335231  | Plain foil <sup>5</sup> .....   | 1,000 lbs.....             | 68,772   | 38,791                   | 26,402   | 15,819                   |
| 335203  | Sheet and plate.....  | .....do.....               | 36,632   | 9,697                    | 17,154   | 6,853                    |
| 335205  | Extruded shapes.....  | .....do.....               |          |                          | (NA)     | (NA)                     |
| 335209  | All other mill shapes and forms.....  | .....do.....               |          |                          | (NA)     | (NA)                     |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material   | Unit of measure               | 1963     |                          | 1958     |                          |
|--|--|-------------------------------|----------|--------------------------|----------|--------------------------|
|  |  |                               | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3497.—METAL FOIL AND LEAF—Continued     |  |                               |          |                          |          |                          |
| 349702   | Aluminum foil, laminated <sup>2</sup> .....  | 1,000 lbs. metal content..... | 1,061    | 1,023                    | 1,733    | 942                      |
| 970099   | All other material and components, parts, containers, and supplies consumed.....                     | .....                         | (X)      | 62,936                   | (X)      | 23,938                   |
| 976000   | Materials, parts, etc., n.s.k. <sup>2</sup> .....  | .....                         | (X)      | 2,396                    | (X)      | 3,804                    |
| INDUSTRY 3498.—FABRICATED PIPE AND FITTINGS      |  |                               |          |                          |          |                          |
|  | Materials, parts, containers, and supplies, total.....   | .....                         | (X)      | 141,679                  | (NA)     | (NA)                     |
|  | Mill shapes and forms (except casting):  |                               |          |                          |          |                          |
|  | Carbon steel:  |                               |          |                          |          |                          |
| 331011   | Bars and bar shapes.....   | Short tons.....               | 14,425   | 3,284                    | (NA)     | (NA)                     |
| 331012   | Sheet and strip.....   | ..do.....                     | 21,246   | 3,227                    | (NA)     | (NA)                     |
| 331013   | Plates.....  | ..do.....                     | 3,549    | 679                      | (NA)     | (NA)                     |
| 331017   | Wire and wire products.....  | ..do.....                     | 858      | 346                      | (NA)     | (NA)                     |
| 331015   | Structural shapes.....   | ..do.....                     | 200,284  | 40,186                   | (NA)     | (NA)                     |
| 331019   | All other carbon steel mill shapes and forms.....  | ..do.....                     |          |                          |          |                          |
|  | Alloy steel (except stainless):  |                               |          |                          |          |                          |
| 331021   | Bars and bar shapes.....   | ..do.....                     | 1,521    | 808                      | (NA)     | (NA)                     |
| 331029   | All other alloy steel mill shapes and forms.....   | ..do.....                     | 10,005   | 6,850                    | (NA)     | (NA)                     |
| 331031   | Stainless steel.....   | ..do.....                     | 2,832    | 5,391                    | (NA)     | (NA)                     |
|  | Copper and copper-base alloy:  |                               |          |                          |          |                          |
| 335102   | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                           | 1,000 lbs.....                | 800      | 509                      | (NA)     | (NA)                     |
| 335123   | Plate, sheet, and strip (including military cups and discs)....                                      | ..do.....                     |          |                          |          |                          |
| 335127   | Pipe and tube.....   | ..do.....                     |          |                          |          |                          |
|  | Aluminum and aluminum-base alloy:  |                               |          |                          |          |                          |
| 335202   | Sheet, plate, and foil.....  | ..do.....                     | 223      | 134                      | (NA)     | (NA)                     |
| 335205   | Extruded shapes (including extruded rod, bar, pipe, tube, etc..                                      | ..do.....                     | 4,895    | 3,193                    | (NA)     | (NA)                     |
| 335209   | All other aluminum mill shapes and forms (wire, rolled, rod, and bar, powder welded tubing, etc..... | ..do.....                     | 836      | 582                      | (NA)     | (NA)                     |
|  | Castings (rough and semifinished) <sup>1</sup> :   |                               |          |                          |          |                          |
| 332011   | Iron (gray and malleable).....   | Short tons.....               | 4,641    | 1,851                    | (NA)     | (NA)                     |
| 332300   | Steel.....   | ..do.....                     | 1,329    | 1,056                    | (NA)     | (NA)                     |
| 336100   | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....                | 1,245    | 723                      | (NA)     | (NA)                     |
| 336200   | Copper and copper-base alloy.....  | ..do.....                     | 676      | 425                      | (NA)     | (NA)                     |
| 339100   | Iron and steel forgings <sup>1</sup> .....   | Short tons.....               | 2,082    | 1,409                    | (NA)     | (NA)                     |
| 349401   | Valves and pipe fittings (except plumbers brass goods and fittings)                                  | .....                         | (X)      | 9,892                    | (NA)     | (NA)                     |
| 333010   | Nonferrous plating metals (chromium nickel, zinc, etc.).....   | .....                         | (X)      | 828                      | (NA)     | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....                    | .....                         | (X)      | 30,921                   | (NA)     | (NA)                     |
| 976000   | Materials, parts, etc., n.s.k. <sup>2</sup> .....  | .....                         | (X)      | 22,351                   | (NA)     | (NA)                     |
| INDUSTRY 3499.—FABRICATED METAL PRODUCTS, N.E.C. |  |                               |          |                          |          |                          |
|  | Materials, containers, supplies, etc., total.....  | .....                         | (X)      | 235,976                  | (NA)     | (NA)                     |
|  | Mill shapes and forms (except steel casting):  |                               |          |                          |          |                          |
|  | Carbon steel:  |                               |          |                          |          |                          |
| 331011   | Bars and bar shapes.....   | Short tons.....               | 41,387   | 6,490                    | (NA)     | (NA)                     |
| 331013   | Plates.....  | ..do.....                     | 23,460   | 3,548                    | (NA)     | (NA)                     |
| 331012   | Sheet and strip.....   | ..do.....                     | 303,129  | 47,842                   | (NA)     | (NA)                     |
| 331015   | Structural shapes.....   | ..do.....                     | 15,585   | 2,278                    | (NA)     | (NA)                     |
| 331017   | Wire and wire products.....  | ..do.....                     | 8,404    | 2,276                    | (NA)     | (NA)                     |
| 331019   | All other carbon steel mill shapes and forms.....  | ..do.....                     | 36,094   | 7,687                    | (NA)     | (NA)                     |
|  | Alloy steel (except stainless):  |                               |          |                          |          |                          |
| 331021   | Bars and bar shapes.....   | ..do.....                     | 2,413    | 1,104                    | (NA)     | (NA)                     |
| 331029   | All other alloy steel mill shapes and forms.....   | ..do.....                     | 26,500   | 4,423                    | (NA)     | (NA)                     |
| 331031   | Stainless steel.....   | ..do.....                     | 2,784    | 3,513                    | (NA)     | (NA)                     |
|  | Copper and copper-base alloy:  |                               |          |                          |          |                          |
| 335728   | Bare wire for electrical conduction.....   | .....                         | (D)      | (D)                      | (NA)     | (NA)                     |
| 335790   | Insulated wire and cable.....  | .....                         |          |                          |          |                          |
| 335102   | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                           | 1,000 lbs.....                | 1,544    | 690                      | (NA)     | (NA)                     |
| 335123   | Plate, sheet, and strip (including military cups and discs)....                                      | ..do.....                     | 2,211    | 1,176                    | (NA)     | (NA)                     |
|  | Pipe and tube.....   | ..do.....                     | 2,413    | 1,353                    | (NA)     | (NA)                     |
|  | Aluminum and aluminum-base alloy:  |                               |          |                          |          |                          |
| 335127   | Sheet, plate, and foil.....  | ..do.....                     | 6,943    | 3,572                    | (NA)     | (NA)                     |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material   | Unit of measure | 1963  |                             | 1958     |                             |
|--------|--|-----------------|---|-----------------------------|----------|-----------------------------|
|        |  |                 | Quantity  | Delivered cost<br>(\$1,000) | Quantity | Delivered cost<br>(\$1,000) |
|        | Mill shapes and forms (except castings)—Continued  |                 | INDUSTRY 3499.—FABRICATED METAL<br>PRODUCTS, N.E.C.—Continued |                             |          |                             |
|        | Aluminum and aluminum-base alloy—Continued   |                 |   |                             |          |                             |
| 335205 | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)  | 1,000 lbs.....  | 10,934  | 5,687                       | (NA)     | (NA)                        |
| 335209 | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded, tubing, etc.)..... | ...do.....      | 3,113   | 1,445                       | (NA)     | (NA)                        |
|        | Castings (rough and semifinished): <sup>1</sup>  |                 |   |                             |          |                             |
| 332011 | Iron (gray and malleable).....   | Short tons..... | 4,782   | 1,866                       | (NA)     | (NA)                        |
| 332300 | Steel.....   | ...do.....      | 5,035   | 3,216                       | (NA)     | (NA)                        |
| 336100 | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....  | 1,489   | 1,253                       | (NA)     | (NA)                        |
| 336200 | Copper and copper-base alloy.....  | ...do.....      | 1,815   | 1,054                       | (NA)     | (NA)                        |
| 339100 | Iron and steel forgings <sup>1</sup> .....   | Short tons..... | 659   | 362                         | (NA)     | (NA)                        |
| 349401 | Valves and pipe fittings (except plumbers' brass goods and fittings).....                              |                 | (X)   | 224                         | (NA)     | (NA)                        |
| 333010 | Nonferrous plating metals (chromium, nickel, zinc, etc.).....  |                 | (X)   | 2,290                       | (NA)     | (NA)                        |
| 970099 | All other materials and components, parts, containers, and supplies consumed.....                      |                 | (X)   | 81,814                      | (NA)     | (NA)                        |
| 976000 | Materials, containers, supplies, n.s.k. <sup>2</sup> .....   |                 | (X)   | 50,813                      | (NA)     | (NA)                        |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Does not include tonnages of castings or forgings produced and consumed in the same establishment.

<sup>2</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not reported and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

<sup>3</sup>In 1963, 258,392 short tons of iron castings, 6,003 short tons of steel castings, and 122,917 thousand pounds of copper and copper-base alloy castings were produced and consumed in the same establishment. 1963 data for aluminum and aluminum-base alloy castings produced and consumed in the same establishment are not available. The comparable figure for copper and copper-base alloy castings in 1958 is 61,231 thousand pounds. Data for other types of castings produced and consumed in the same establishment are not available for 1958.

<sup>4</sup>3,934 short tons of forgings were produced and consumed in the same establishment in 1958. The comparable data for 1963 are not available.

<sup>5</sup>Data on total consumption of aluminum foil are available, by end use, in Current Industrial Reports Series M34P, Aluminum Foil Converted. The data in the Current Industrial Report include consumption by all establishments such as foil mills, foil converters, and others including food processing and other establishments converting foil for purposes of packaging a product. Data in this report are limited to establishments classified in the metal foil and leaf industry.



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Fabricated wire products, n.e.c. (SIC 3481) | Metal barrels, drums, and pails (SIC 3491) | Safes and vaults (SIC 3492) | Steel springs (SIC 3493) | Valves and pipe fittings (SIC 3494) | Collapsible tubes (SIC 3496) | Fabricated pipe and fittings (SIC 3498) | Fabricated metal products, n.e.c. (SIC 3499) |
|---|---|--|-----------------------------|--------------------------|-------------------------------------|------------------------------|---|--|
| Total cost of purchased fuels and electric energy .....\$1,000..  | 11,578                                      | 4,096                                      | 467                         | 3,081                    | 17,843                              | 632                          | 3,126                                   | 5,759  |
| Total cost of purchased fuels.....do....  | 4,980                                       | 2,077                                      | 216                         | 1,975                    | 8,220                               | 194                          | 1,352                                   | 2,121  |
| Bituminous coal, lignite, and anthracite:   |   |  |                             |                          |                                     |                              |   |  |
| Quantity.....1,000 short tons..   | 23  | (S)  | (S)                         | (S)                      | 115                                 | -                            | (S)                                     | 10   |
| Cost.....\$1,000..  | 203   | (S)  | (S)                         | (S)                      | 793                                 | -                            | (S)                                     | 89   |
| Coke and breeze:  |   |  |                             |                          |                                     |                              |   |  |
| Quantity.....1,000 short tons..   | (S)   | -  | -                           | -                        | 39                                  | -                            | -                                       | -  |
| Cost.....\$1,000..  | (S)   | -  | -                           | -                        | 1,190                               | -                            | -                                       | -  |
| Fuel oil (distillate and residual):   |   |  |                             |                          |                                     |                              |   |  |
| Quantity.....1,000 barrels of 42 gallons..  | 286   | (S)  | (S)                         | 38                       | 609                                 | (S)                          | 64                                      | 120  |
| Cost.....\$1,000..  | 1,142                                       | (S)  | (S)                         | 120                      | 2,367                               | (S)                          | 274                                     | 547  |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |   |  |                             |                          |                                     |                              |   |  |
| Quantity.....million cu.ft..  | 4,064                                       | 1,884                                      | 170                         | 2,931                    | 6,669                               | 173                          | 999                                     | 1,060  |
| Cost.....\$1,000..  | 2,692                                       | 1,302                                      | 121                         | 1,795                    | 3,458                               | 142                          | 735                                     | 768  |
| Other fuels.....do....  | 941   | 172  | (S)                         | 55                       | 412                                 | (S)                          | 316                                     | 717  |
| Electric energy:  |   |  |                             |                          |                                     |                              |   |  |
| Purchased:  |   |  |                             |                          |                                     |                              |   |  |
| Quantity.....million kw.-hrs..  | 384   | 120  | 18                          | 84                       | 637                                 | 32                           | 87                                      | 207  |
| Cost.....\$1,000..  | 6,598                                       | 2,019                                      | 251                         | 1,106                    | 9,623                               | 438                          | 1,774                                   | 3,638  |
| Generated less sold.....million kw.-hrs..   | -   | -  | -                           | -                        | (S)                                 | -                            | -                                       | (S)  |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 259   | 125  | 17                          | 57                       | 584                                 | 9                            | 93                                      | 178  |
| Prime movers, total.....do....  | 23  | 12   | 1                           | 8                        | 37                                  | -                            | 4                                       | 15   |
| Driving generators.....do....   | 2   | 3  | -                           | 4                        | 11                                  | -                            | 1                                       | 4  |
| Not driving generators.....do....   | 21  | 9  | 1                           | 4                        | 26                                  | -                            | 3                                       | 11   |
| Electric motors, total.....do....   | 236   | 113  | 16                          | 48                       | 549                                 | 9                            | 90                                      | 165  |
| Driven by purchased energy.....do....   | 236   | 113  | 16                          | 48                       | 546                                 | 9                            | 90                                      | 163  |
| Driven by energy generated at establishment.....do....  | -   | -  | -                           | -                        | 3                                   | -                            | -                                       | 1  |
| Aggregate horsepower per 100 production workers.....  | 535   | 1,637                                      | 821                         | 1,038                    | 1,011                               | 248                          | 1,069                                   | 975  |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3481-                          | FABRICATED WIRE PRODUCTS, N.E.C.  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 1,567                   | 55,514         | 297,626           | 45,070             | 92,096            | 213,329         | 539,137  | 490,937                     | 1,030,876                    | 24,795                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.....   | 1,424                   | 45,341         | 239,119           | 37,004             | 75,139            | 172,387         | 438,502  | 400,966                     | 840,067                      | 19,011                              |
|                                | 75-89% specialization.....  | 53                      | 3,966          | 24,109            | 3,096              | 6,501             | 16,675          | 42,255   | 35,955                      | 78,237                       | 2,174                               |
| 34811                          | Noninsulated ferrous wire rope, cable and strand not produced by wire drawers (primary product class of estab.).....            | 41                      | 2,743          | 16,563            | 1,999              | 3,963             | 10,769          | 38,212   | 49,816                      | 88,088                       | 1,888                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 37                      | 2,482          | 15,122            | 1,807              | 3,634             | 10,013          | 34,963   | 45,826                      | 80,508                       | 1,718                               |
| 34812                          | Precision mechanical springs (primary product class of estab.)....  | 113                     | 9,216          | 55,790            | 7,358              | 15,523            | 39,546          | 89,111   | 66,912                      | 156,079                      | 4,071                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 84                      | 5,065          | 28,978            | 4,172              | 8,759             | 20,479          | 45,603   | 34,561                      | 80,273                       | 1,774                               |
|                                | 75-89% specialization.....  | 9                       | 1,531          | 9,761             | 1,156              | 2,371             | 6,598           | 15,784   | 12,007                      | 27,733                       | 465                                 |
| 34813                          | Other wire springs (primary product class of estab.).....   | 173                     | 13,759         | 73,267            | 11,787             | 23,417            | 55,620          | 115,948  | 109,816                     | 226,565                      | 5,293                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 147                     | 11,115         | 58,343            | 9,510              | 18,640            | 44,429          | 91,368   | 83,856                      | 176,158                      | 4,165                               |
|                                | 75-89% specialization.....  | 8                       | 1,349          | 8,699             | 1,181              | 2,382             | 6,543           | 13,951   | 11,361                      | 25,350                       | (D)                                 |
| 34814                          | Ferrous wire cloth and other woven nonferrous wire products, not produced by wire drawers (primary product class of estab.).... | 77                      | 2,221          | 12,869            | 1,752              | 3,605             | 8,718           | 24,184   | 19,730                      | 43,858                       | 1,668                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 55                      | 1,275          | 6,786             | 1,061              | 2,177             | 5,038           | 11,628   | 10,238                      | 21,866                       | 589                                 |
|                                | 75-89% specialization.....  | 11                      | 273            | 1,655             | 180                | 339               | 754             | 2,322  | 3,064                       | 5,431                        | 224                                 |
| 34815                          | Nonferrous wire cloth and other woven nonferrous wire products, not made by wire drawers (primary product class of estab.)..... | 39                      | 2,188          | 12,084            | 1,843              | 3,644             | 8,964           | 29,408   | 18,820                      | 48,162                       | 1,281                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 30                      | 1,394          | 8,246             | 1,156              | 2,301             | 6,023           | 22,369   | 10,171                      | 32,251                       | 770                                 |
| 34816                          | Fencing and fence gates, not produced by wire drawers (primary product class of estab.).....                                    | 83                      | 2,347          | 12,466            | 1,773              | 3,709             | 8,693           | 28,868   | 40,205                      | 69,521                       | 721                                 |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 66                      | 1,663          | 8,572             | 1,235              | 2,595             | 5,709           | 22,656   | 29,575                      | 51,986                       | 508                                 |
| 34819                          | Other fabricated wire products, not produced by wire drawers (primary product class of estab.).....                             | 395                     | 18,546         | 96,055            | 14,953             | 30,953            | 67,292          | 179,064  | 153,142                     | 331,392                      | 6,840                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 304                     | 13,089         | 65,484            | 10,628             | 22,016            | 47,274          | 126,132  | 106,002                     | 230,610                      | 5,064                               |
|                                | 75-89% specialization.....  | 37                      | 1,863          | 10,487            | 1,477              | 2,977             | 7,083           | 18,794   | 21,301                      | 40,621                       | 723                                 |
| 3491-                          | METAL BARRELS, DRUMS, AND PAILS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 145                     | 10,508         | 66,614            | 8,480              | 17,713            | 49,127          | 119,617  | 183,880                     | 303,423                      | 6,412                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 127                     | 8,211          | 51,779            | 6,674              | 13,582            | 38,216          | 90,534   | 149,682                     | 239,526                      | 5,259                               |
|                                | 75-89% specialization.....  | 8                       | 986            | 7,075             | 737                | 1,756             | 5,041           | 12,341   | 16,797                      | 29,703                       | 510                                 |
| 34911                          | Steel shipping pails (1 to 12 gallon capacity) (primary product class of estab.).....   | 16                      | 1,807          | 10,919            | 1,487              | 3,203             | 8,253           | 20,644   | 25,219                      | 45,983                       | 999                                 |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 10                      | 753            | 3,942             | 648                | 1,332             | 3,171           | 7,555  | 9,398                       | 16,861                       | 272                                 |

See footnotes at end of table.



TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3491-                          | METAL BARRELS, DRUMS, AND PAILS—Continued   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
| 34912                          | Steel shipping barrels and drums (over 12 gallon capacity), except beer barrels (primary product class of estab.).....    | 82                      | 6,688          | 44,789            | 5,410              | 11,213            | 33,401          | 79,243   | 139,516                     | 218,086                      | 4,421                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 46                      | 2,487          | 15,974            | 2,052              | 4,256             | 11,972          | 31,030   | 59,177                      | 89,714                       | 1,125                               |
|                                | 75-89% specialization.....  | 15                      | 1,199          | 8,114             | 990                | 2,059             | 6,209           | 14,359   | 21,654                      | 36,055                       | 832                                 |
| 34913                          | All other metal barrels, including beer barrels and fluid milk shipping containers (primary product class of estab.)..... | 24                      | 1,645          | 9,026             | 1,282              | 2,593             | 6,025           | 16,540   | 14,639                      | 31,768                       | 697                                 |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 17                      | 958            | 5,556             | 725                | 1,451             | 3,392           | 10,485   | 6,760                       | 17,234                       | 430                                 |
| 3494-                          | VALVES AND PIPE FITTINGS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 646                     | 80,407         | 500,009           | 58,148             | 116,929           | 321,239         | 942,700  | 651,964                     | 1,588,509                    | 38,951                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 510                     | 51,555         | 308,517           | 38,302             | 77,188            | 207,905         | 598,382  | 395,032                     | 995,659                      | 25,053                              |
|                                | 75-89% specialization.....  | 36                      | 9,094          | 59,382            | 6,444              | 12,828            | 37,118          | 106,119  | 72,895                      | 180,082                      | 3,300                               |
| 34941                          | Metal valves for piping systems (except plumbing and heating valves) (primary product class of estab.).....               | 174                     | 37,342         | 228,185           | 26,170             | 53,397            | 146,201         | 450,776  | 275,821                     | 729,719                      | 15,584                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 113                     | 21,272         | 125,704           | 15,139             | 31,243            | 83,325          | 258,773  | 158,602                     | 421,613                      | 9,546                               |
|                                | 75-89% specialization.....  | 17                      | 5,773          | 36,010            | 4,188              | 7,960             | 24,129          | 63,565   | 35,133                      | 100,488                      | 1,090                               |
| 34942                          | Metal fittings and unions for piping systems (primary product class of estab.).....                                       | 106                     | 24,131         | 152,413           | 18,504             | 36,167            | 103,604         | 277,495  | 222,370                     | 490,460                      | 9,784                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 61                      | 7,761          | 46,009            | 6,434              | 12,777            | 33,822          | 83,358   | 74,497                      | 155,308                      | 3,552                               |
|                                | 75-89% specialization.....  | 10                      | 3,412          | 19,971            | 2,847              | 5,031             | 15,727          | 48,278   | 30,494                      | 76,852                       | 1,077                               |
| 34943                          | Plumbing and heating valves and specialties, except plumbers' brass goods (primary product class of estab.).....          | 50                      | 4,301          | 24,917            | 3,363              | 6,609             | 16,338          | 45,176   | 40,853                      | 85,676                       | 1,447                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 26                      | 1,727          | 10,102            | 1,367              | 2,655             | 6,711           | 18,296   | 14,995                      | 33,398                       | 716                                 |
|                                | 75-89% specialization.....  | 8                       | 642            | 3,638             | 514                | 1,069             | 2,704           | 5,491  | 4,331                       | 9,887                        | 147                                 |
| 34944                          | Other metal valves and fittings, except plumbers' brass goods and fittings (primary product class of estab.).....         | 173                     | 13,202         | 86,959            | 5,986              | 18,496            | 49,459          | 155,420  | 102,494                     | 258,446                      | 10,909                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 120                     | 7,676          | 51,754            | 5,393              | 11,205            | 30,440          | 86,652   | 54,318                      | 142,944                      | 4,714                               |
|                                | 75-89% specialization.....  | 13                      | 1,280          | 8,533             | 892                | 1,843             | 5,003           | 18,857   | 11,922                      | 31,290                       | 397                                 |
| 3496-                          | COLLAPSIBLE TUBES   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 24                      | 3,984          | 18,804            | 3,540              | 6,923             | 14,771          | 30,562   | 20,396                      | 51,027                       | 1,925                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 20                      | 2,701          | 12,170            | 2,376              | 4,645             | 9,206           | 18,321   | 12,655                      | 31,023                       | 1,328                               |
| 3497-                          | METAL FOIL AND LEAF   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 67                      | 4,981          | 32,438            | 3,733              | 7,831             | 21,775          | 63,486   | 117,887                     | 180,567                      | 6,410                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 52                      | 3,665          | 24,635            | 2,694              | 5,705             | 16,588          | 48,925   | 89,936                      | 138,081                      | 5,490                               |
|                                | 75-89% specialization.....  | 3                       | 131            | 785               | 103                | 246               | 564             | 1,428  | 2,414                       | 3,804                        | 164                                 |
| 3499-                          | FABRICATED METAL PRODUCTS, N.E.C.   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 1,277                   | 28,302         | 151,919           | 22,209             | 45,673            | 105,063         | 299,326  | 276,264                     | 573,185                      | 16,189                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 1,088                   | 19,405         | 101,321           | 15,453             | 31,666            | 71,040          | 213,712  | 197,656                     | 409,696                      | 9,345                               |
|                                | 75-89% specialization.....  | 52                      | 2,193          | 12,310            | 1,646              | 3,368             | 8,409           | 24,388   | 26,631                      | 50,666                       | 990                                 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations                            | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3481.—FABRICATED WIRE PRODUCTS, N.E.C.    |                          |   |         |            |                                       |   |         |            |
| Galvanizing and other hot dip coating.....         | 40                       | 26  | 12      | 2          | 219                                   | 60  | (D)     | (D)        |
| Heat treating of metals.....                       | 115                      | 85  | 28      | 2          | 450                                   | 125                                       | (D)     | (D)        |
| Automatic screw machine department.....            | 14                       | 10  | 2       | 2          | 92                                    | 17  | (D)     | (D)        |
| Machine shop.....                                  | 192                      | 116                                       | 67      | 9          | 1,065                                 | 209                                       | 555     | 301        |
| Tool and die shop.....                             | 168                      | 118                                       | 46      | 4          | 714                                   | 213                                       | 405     | 96         |
| Plate or structural fabrication.....               | 14                       | 7   | 5       | 2          | 203                                   | 14  | (D)     | (D)        |
| Stamping, blanking, and forming of metals.....     | 310                      | 144                                       | 102     | 64         | 4,881                                 | 280                                       | 986     | 3,615      |
| Painting, lacquering, and enameling on metals..... | 213                      | 176                                       | 34      | 3          | 671                                   | 289                                       | 288     | 94         |
| INDUSTRY 3491.—METAL BARRELS, DRUMS, AND PAILS     |                          |   |         |            |                                       |   |         |            |
| Galvanizing and other hot dip coating.....         | 6                        | -   | 6       | -          | 56                                    | -   | 56      | -          |
| Machine shop.....                                  | 44                       | 16  | 22      | 6          | 411                                   | 33  | 199     | 179        |
| Tool and die shop.....                             | 9                        | 8   | -       | 1          | 58                                    | (D)                                       | -       | (D)        |
| Plate or structural fabrication.....               | 12                       | -   | 10      | 2          | 256                                   | -   | (D)     | (D)        |
| Stamping, blanking, and forming of metals.....     | 76                       | 18  | 25      | 33         | 2,205                                 | 42  | 226     | 1,937      |
| Painting, lacquering, and enameling on metals..... | 84                       | 41  | 34      | 9          | 680                                   | 87  | 303     | 290        |
| INDUSTRY 3492.—SAFES AND VAULTS                    |                          |   |         |            |                                       |   |         |            |
| Electroplating and other plating.....              | 2                        | -   | 1       | 1          | (D)                                   | -   | (D)     | (D)        |
| Heat treating of metals.....                       | 2                        | 2   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Machine shop.....                                  | 10                       | 4   | 3       | 3          | (D)                                   | (D)                                       | (D)     | (D)        |
| Tool and die shop.....                             | 4                        | 1   | 2       | 1          | (D)                                   | (D)                                       | (D)     | (D)        |
| Plate or structural fabrication.....               | 7                        | 3   | 2       | 2          | (D)                                   | (D)                                       | (D)     | (D)        |
| Stamping, blanking, and forming of metals.....     | 9                        | 4   | 3       | 3          | 167                                   | 9   | (D)     | (D)        |
| Painting, lacquering, and enameling on metals..... | 10                       | 8   | 1       | 1          | 50                                    | (D)                                       | (D)     | (D)        |
| INDUSTRY 3493.—STEEL SPRINGS                       |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....                               | 4                        | -   | 1       | 3          | (D)                                   | -   | (D)     | (D)        |
| Forging—presses, hammers, or upsetters.....        | 17                       | 6   | 7       | 4          | 276                                   | 11  | 64      | 201        |
| Electroplating and other plating.....              | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Heat treating of metals.....                       | 44                       | 24  | 12      | 8          | 575                                   | 41  | 120     | 414        |
| Machine shop.....                                  | 26                       | 14  | 10      | 2          | 168                                   | 30  | (D)     | (D)        |
| Tool and die shop.....                             | 15                       | 7   | 7       | 1          | 96                                    | 10  | (D)     | (D)        |
| Plate or structural fabrication.....               | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Stamping, blanking, and forming of metals.....     | 30                       | 13  | 8       | 9          | 650                                   | 25  | 71      | 554        |
| Painting, lacquering, and enameling on metals..... | 31                       | 25  | 6       | -          | 88                                    | 45  | 43      | -          |
| INDUSTRY 3494.—VALVES AND PIPE FITTINGS            |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....                               | 42                       | 4   | 6       | 32         | 4,728                                 | 4   | 53      | 4,671      |
| Nonferrous foundry (except die casting).....       | 71                       | 13  | 17      | 41         | 3,177                                 | 10  | 169     | 2,998      |
| Forging—presses, hammers, or upsetters.....        | 28                       | 10  | 12      | 6          | 818                                   | 11  | 142     | 665        |
| Electroplating and other plating.....              | 36                       | 23  | 9       | 4          | 349                                   | 34  | 82      | 233        |
| Galvanizing and other hot dip coating.....         | 21                       | 11  | 6       | 4          | 285                                   | 24  | 72      | 189        |
| Heat treating of metals.....                       | 68                       | 52  | 13      | 3          | 369                                   | 86  | 121     | 162        |
| Automatic screw machine department.....            | 113                      | 56  | 34      | 23         | 1,779                                 | 113                                       | 285     | 1,381      |
| Machine shop.....                                  | 364                      | 58  | 111     | 195        | 18,851                                | 96  | 1,227   | 17,528     |
| Tool and die shop.....                             | 176                      | 75  | 72      | 29         | 1,958                                 | 166                                       | 653     | 1,139      |
| Foundry pattern shop.....                          | 81                       | 46  | 31      | 4          | 492                                   | 91  | 289     | 112        |
| Plate or structural fabrication.....               | 44                       | 18  | 12      | 14         | 817                                   | 36  | 132     | 649        |
| Stamping, blanking, and forming of metals.....     | 79                       | 51  | 17      | 11         | 733                                   | 97  | 145     | 491        |
| Painting, lacquering, and enameling on metals..... | 155                      | 134                                       | 17      | 4          | 480                                   | 222                                       | 167     | 91         |
| INDUSTRY 3496.—COLLAPSIBLE TUBES                   |                          |   |         |            |                                       |   |         |            |
| Machine shop.....                                  | 16                       | 2   | 9       | 5          | 328                                   | (D)                                       | (D)     | 220        |
| Stamping, blanking, and forming of metals.....     | 17                       | 5   | 5       | 7          | 450                                   | 17  | 37      | 396        |
| Painting, lacquering, and enameling on metals..... | 16                       | -   | 2       | 14         | 813                                   | -   | (D)     | (D)        |
| INDUSTRY 3497.—METAL FOIL AND LEAF                 |                          |   |         |            |                                       |   |         |            |
| Machine shop.....                                  | 11                       | 5   | 2       | 4          | 222                                   | (D)                                       | (D)     | 186        |
| Stamping, blanking, and forming of metals.....     | 10                       | 2   | 4       | 4          | 401                                   | (D)                                       | (D)     | 351        |
| Painting, lacquering, and enameling on metals..... | 5                        | 1   | 4       | -          | 39                                    | (D)                                       | (D)     | -          |

See footnotes at end of table.



TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963—Continued

| Metalworking operations                            | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3498.—FABRICATED PIPE AND FITTINGS        |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....                               | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Nonferrous foundry (except die casting).....       | 5                        | 2   | 3       | -          | 31                                    | (D)                                       | (D)     | -          |
| Nonferrous die casting.....                        | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Forging—presses, hammers, or upsetters.....        | 6                        | 3   | 1       | 2          | 70                                    | (D)                                       | (D)     | (D)        |
| Electroplating and other plating.....              | 10                       | 7   | 2       | 1          | 48                                    | (D)                                       | (D)     | (D)        |
| Galvanizing and other hot dip coating.....         | 6                        | 6   | -       | -          | 19                                    | 19  | -       | -          |
| Heat treating of metals.....                       | 21                       | 18  | 3       | -          | 52                                    | 34  | 18      | -          |
| Automatic screw machine department.....            | 17                       | 5   | 6       | 6          | 283                                   | 9   | 51      | 223        |
| Machine shop.....                                  | 74                       | 35  | 31      | 8          | 729                                   | 65  | 344     | 320        |
| Tool and die shop.....                             | 20                       | 15  | 4       | 1          | 90                                    | 29  | (D)     | (D)        |
| Foundry pattern shop.....                          | 6                        | 6   | -       | -          | 10                                    | 10  | -       | -          |
| Plate or structural fabrication.....               | 23                       | 8   | 13      | 2          | 185                                   | 18  | (D)     | (D)        |
| Stamping, blanking, and forming of metals.....     | 36                       | 16  | 14      | 6          | 450                                   | 27  | 120     | 303        |
| Painting, lacquering, and enameling on metals..... | 31                       | 27  | 4       | -          | 67                                    | 42  | 25      | -          |
| INDUSTRY 3499.—FABRICATED METAL PRODUCTS, N.E.C.   |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....                               | 10                       | 2   | 4       | 4          | 204                                   | (D)                                       | (D)     | 177        |
| Nonferrous foundry (except die casting).....       | 18                       | 6   | 10      | 2          | 184                                   | 10  | (D)     | (D)        |
| Nonferrous die casting.....                        | 10                       | 4   | 6       | -          | 64                                    | 8   | 56      | -          |
| Forging—presses, hammers, or upsetters.....        | 15                       | 11  | 4       | -          | 55                                    | 18  | 37      | -          |
| Electroplating and other plating.....              | 31                       | 18  | 11      | 2          | 182                                   | 24  | (D)     | (D)        |
| Galvanizing and other hot dip coating.....         | 8                        | 6   | 2       | -          | 23                                    | (D)                                       | (D)     | -          |
| Heat treating of metals.....                       | 38                       | 28  | 7       | 3          | 175                                   | 51  | 52      | 72         |
| Automatic screw machine department.....            | 22                       | 14  | 5       | 3          | 135                                   | 25  | 42      | 68         |
| Machine shop.....                                  | 169                      | 102                                       | 46      | 21         | 1,505                                 | 186                                       | 400     | 919        |
| Tool and die shop.....                             | 99                       | 74  | 20      | 5          | 411                                   | 116                                       | 160     | 135        |
| Foundry pattern shop.....                          | 21                       | 17  | 3       | 1          | 59                                    | 21  | (D)     | (D)        |
| Plate or structural fabrication.....               | 89                       | 36  | 34      | 19         | 7,243                                 | 53  | 372     | 6,818      |
| Stamping, blanking, and forming of metals.....     | 277                      | 125                                       | 110     | 42         | 22,862                                | 237                                       | 1,054   | 21,571     |
| Painting, lacquering, and enameling on metals..... | 203                      | 165                                       | 38      | -          | 575                                   | 232                                       | 343     | -          |

Note: Very small establishments were not requested to report their metalworking operations and in some instances a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production worker employment on the last line of the table below.

| Item  | Industry |       |       |       |        |        |       |       |       |
|---|----------|-------|-------|-------|--------|--------|-------|-------|-------|
|   | 3481     | 3491  | 3492  | 3493  | 3494   | 3496   | 3497  | 3498  | 3499  |
| Total number of establishments in the industry.....   | 1,567    | 145   | 32    | 96    | 646    | 24     | 67    | 349   | 1,277 |
| Number of establishments which reported one or more of the specified operations.....                          | 487      | 94    | 13    | 52    | 414    | 17     | 17    | 112   | 435   |
| Percent of industry production workers in these establishments  | 60-65    | 80-85 | 90-95 | 85-90 | 90-95  | 95-100 | 45-50 | 60-65 | 50-55 |
| Number of establishments which reported "none" of the operations apply.....                                   | 176      | 9     | -     | 7     | 33     | 1      | 17    | 67    | 67    |
| Percent of industry production workers in these establishments  | 5-10     | 0-5   | -     | 0-5   | 0-5    | 0-5    | 15-20 | 15-20 | 0-5   |
| Percent of industry production workers in establishments which completed metalworking operations inquiry..... | 70-75    | 85-90 | 90-95 | 85-90 | 95-100 | 95-100 | 60-65 | 75-80 | 50-55 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified.

<sup>1</sup>These size groups are based on the number of production workers in the specified operation. They are not based on total employment of the establishment.

| Column 1 | Column 2 | Column 3 | Column 4 | Column 5 |
|----------|----------|----------|----------|----------|
|          |          |          |          |          |
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|          |          |          |          |          |
|          |          |          |          |          |



## Machinery, Except Electrical

- 35A Engines and turbines and farm machinery and equipment
- 35B Construction, mining, and materials handling machinery and equipment
- 35C Metalworking machinery and equipment
- 35D Special industry machinery, except metalworking machinery
- 35E General industrial machinery and equipment
- 35F Office, computing, and accounting machines
- 35G Service industry machines and machine shops

This major group includes establishments primarily engaged in producing a wide variety of machinery and equipment items. The industries included in this major group encompass the whole range of industrial machinery, other than electrical. To a considerable extent, the products fall into the producers' heavy equipment category, are frequently of a complex character, and are produced both to individual order and as standard items. Industries in groups 351 to 358 are defined in terms of end products, and the parts, attachments, and accessories for these items are included in the industry of this end product unless specifically classified elsewhere in the Standard Industrial Classification. The volume of shipments of machinery parts and accessories in some industries constitutes a significant portion of total shipments. These parts producers are generally smaller establishments but there are a large number of them. Group 359, Machine Shops, includes plants producing a broad variety of miscellaneous parts made by job machine shops.

Group 352 includes farm machines and wheel-tractors, while group 353 comprises all types of earth-moving equipment, including tracklaying tractors and contractors' off-highway type tractors, mining machinery, and materials-handling equipment. The end products of plants in groups 351 to 356 are usually capital equipment, bought and used, not only by manufacturing companies but also at mines, farms, and in transportation, construction and commerce. Groups 357 and 358 include products for commercial and service use such as measuring and

dispensing pumps, office and store machines, and commercial refrigeration equipment.

Plants primarily engaged in rebuilding machinery or equipment on a factory basis were formerly included in this major group. However, such rebuilding activities are now classified according to the original industry classification of the product being rebuilt. Plants primarily rebuilding automotive parts are included in Major Group 37. Plants primarily rebuilding machine tools, metalworking machinery, and office and store machines are included in the industry of the plants producing the original equipment. Table 6A for each industry will show the industries in which rebuilding activities are included with the volume of such rebuilding.

The individual establishments within Major Group 35 frequently produce products falling into two or more SIC 4-digit industries. In fact, many of the larger establishments produce a significant amount of products secondary to the industry in which they are classified. These secondary products however, tend to be similar to the primary products of the establishment in the material used in their manufacture, type of labor employed to produce them, and nature of the processes involved in the production line.

Establishments in this group of industries typically maintain machine shops, tool and die rooms, and heat-treating facilities. Frequently the establishment, particularly if it is of some size, will also operate a pattern shop, screw-machine department, and stamping facility. With

greater variation depending upon the particular 4-digit industry, the physical plant may contain a foundry, forge shop, plate fabrication, electroplating, galvanizing, or other metal processing department. Data on the number of establishments engaged in a selected number of the more important of these operations and the number of employees working in the operations are shown in table 9 for each of the 4-digit industries in this major group. The metalworking operations shown in that table do not represent, of course, a complete list or, for many metal fabricating industries, even those which are most important. There are a number of significant activities such as assembly, subassembly, finishing, etc., which were covered only for selected industries.

Although the production processes in this area adhere to a general pattern of specified metalworking and metal fabricating operations, there is a substantial variation in the number and types of processes performed by an individual establishment as well as from industry to industry. Within a single 4-digit industry, certain establishments may be exclusively engaged in assembling component parts produced by other plants. Another group of plants may purchase rough castings or mill shapes and carry out the entire fabricating of the metal until it emerges as a finished product. In other instances, the casting of the metal will be performed by the establishment itself.

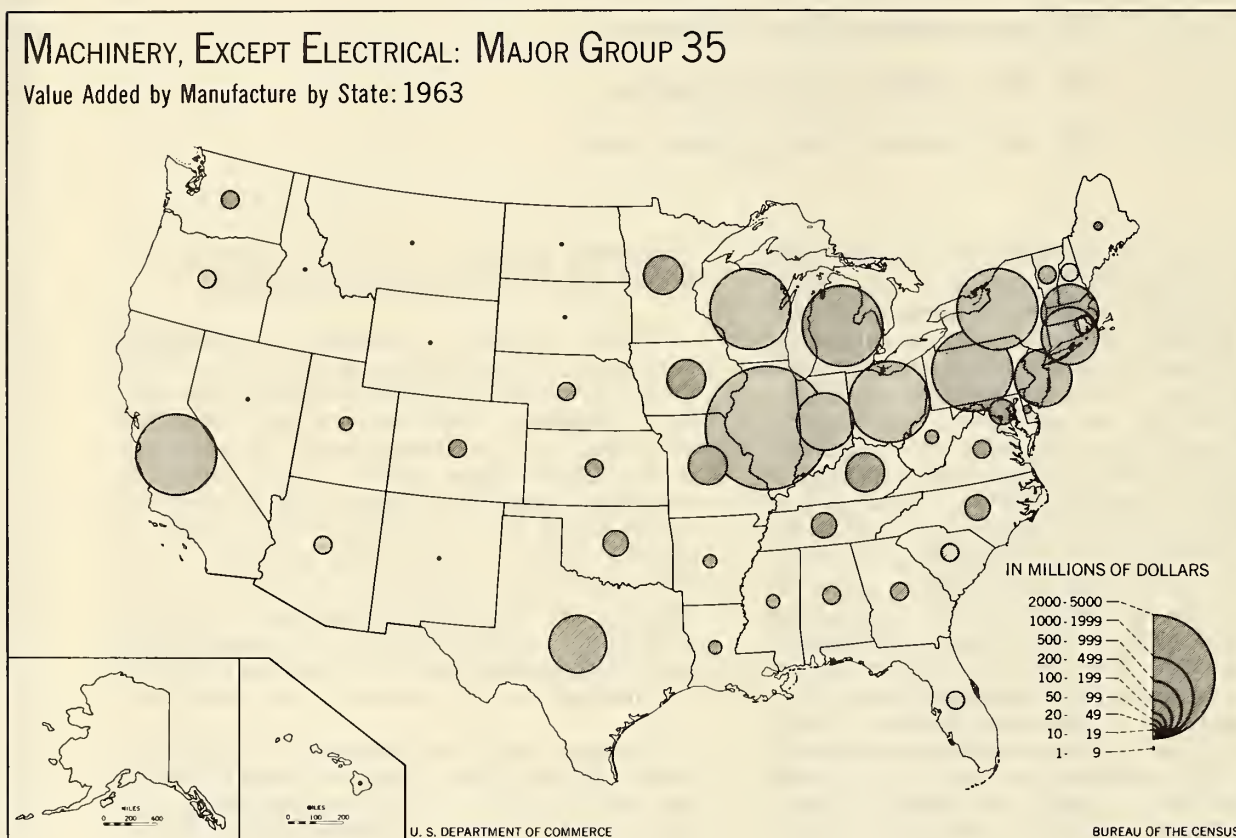




TABLE 1. General Statistics: 1963 and Earlier Years

| Year and item                                   | Establishments |                                    | All employees <sup>1</sup> |                   | Production workers |                   |                 | Value added by manufacture, adjusted <sup>2</sup> | Cost of materials <sup>3</sup> | Value of shipments <sup>3</sup> | Capital expenditures, new <sup>4</sup> |
|---|----------------|------------------------------------|----------------------------|-------------------|--------------------|-------------------|-----------------|---|--------------------------------|---------------------------------|--|
|   | Total (number) | With 20 employees or more (number) | Total (number)             | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |   |                                |                                 |  |
| <b>ALL MANUFACTURING ESTABLISHMENTS, TOTAL:</b> |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 . . . . .                                  | 34 097         | 8 642                              | 1 520 574                  | 10 146 582        | 1 045 075          | 2 151 057         | 6 209 341       | 17 310 599  | 13 254 179                     | 30 363 095                      | 783 076                                |
| 1958 . . . . .                                  | 30 154         | 7 513                              | 1 385 781                  | 7 577 634         | 956 156            | 1 855 745         | 4 654 138       | 12 414 069  | (NA)                           | 27 797 650                      | 669 564                                |
| 1954 . . . . .                                  | (NA)           | (NA)                               | 1 573 851                  | 7 389 954         | 1 170 629          | 2 368 274         | 4 977 213       | 12 333 350  | (NA)                           | (NA)                            | 713 556                                |
| <b>ADMINISTRATIVE AND AUXILIARY UNITS:</b>      |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 . . . . .                                  | 394            | 216                                | 61 197                     | 575 598           | (X)                | (X)               | (X)             | (X)   | (X)                            | (X)                             | (X)                                    |
| 1958 . . . . .                                  | 286            | 150                                | 35 524                     | 263 373           | (X)                | (X)               | (X)             | (X)   | (X)                            | (X)                             | (X)                                    |
| 1954 . . . . .                                  | (NA)           | (NA)                               | 33 105                     | 203 721           | (X)                | (X)               | (X)             | (X)   | (X)                            | (X)                             | (X)                                    |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 . . . . .                                  | 33 703         | 8 426                              | 1 459 377                  | 9 570 984         | 1 045 075          | 2 151 057         | 6 209 341       | 17 310 599  | 13 254 179                     | 30 363 095                      | 783 076                                |
| 1958 . . . . .                                  | 29 868         | 7 363                              | 1 350 257                  | 7 314 261         | 956 156            | 1 855 745         | 4 654 138       | 12 414 069  | (NA)                           | 22 797 650                      | 669 564                                |
| 1954 . . . . .                                  | 25 600         | 7 521                              | 1 540 746                  | 7 186 233         | 1 170 629          | 2 368 274         | 4 977 213       | 12 333 350  | (NA)                           | (NA)                            | 713 556                                |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1962 . . . . .                                  | (NA)           | (NA)                               | 1 451 278                  | 9 201 791         | 1 035 298          | 2 100 562         | 5 825 265       | 16 105 983  | 12 440 343                     | 28 294 263                      | 717 871                                |
| 1961 . . . . .                                  | (NA)           | (NA)                               | 1 382 411                  | 8 405 136         | 984 247            | 1 960 603         | 5 247 547       | 14 240 131  | 11 326 989                     | 25 688 703                      | 657 982                                |
| 1960 . . . . .                                  | (NA)           | (NA)                               | 1 426 382                  | 8 481 815         | 1 014 031          | 2 045 328         | 5 397 625       | 14 410 254  | (NA)                           | (NA)                            | 700 580                                |
| 1959 . . . . .                                  | (NA)           | (NA)                               | 1 414 200                  | 8 202 627         | 1 022 390          | 2 061 834         | 5 309 556       | 14 582 348  | (NA)                           | (NA)                            | 606 947                                |
| 1957 . . . . .                                  | (NA)           | (NA)                               | 1 706 530                  | 9 045 579         | 1 265 102          | 2 571 228         | 6 058 073       | 15 971 932  | (NA)                           | (NA)                            | 991 203                                |
| 1956 . . . . .                                  | (NA)           | (NA)                               | 1 716 802                  | 8 897 214         | 1 308 154          | 2 716 843         | 6 155 787       | 16 176 102  | (NA)                           | (NA)                            | 887 580                                |
| 1955 . . . . .                                  | (NA)           | (NA)                               | 1 603 977                  | 7 811 930         | 1 222 441          | 2 512 534         | 5 437 889       | 13 752 931  | (NA)                           | (NA)                            | 653 094                                |
| 1953 . . . . .                                  | (NA)           | (NA)                               | 1 691 235                  | 7 875 812         | 1 307 312          | 2 743 740         | 5 685 694       | 13 380 729  | (NA)                           | (NA)                            | 754 739                                |
| 1952 . . . . .                                  | (NA)           | (NA)                               | 1 650 772                  | 7 379 879         | 1 283 664          | 2 732 879         | 5 351 952       | 12 807 480  | (NA)                           | (NA)                            | (NA)                                   |
| 1951 . . . . .                                  | 18 734         | (NA)                               | 1 603 987                  | 6 729 242         | 1 260 244          | 2 693 220         | 4 914 128       | 11 218 656  | (NA)                           | (NA)                            | 631 373                                |
| 1950 . . . . .                                  | 17 909         | (NA)                               | 1 367 882                  | 5 063 088         | 1 064 266          | 2 182 848         | 3 609 065       | 8 764 652   | (NA)                           | (NA)                            | 337 212                                |
| 1949 . . . . .                                  | (NA)           | (NA)                               | 1 295 091                  | 4 559 083         | 1 004 938          | 2 012 901         | 3 175 423       | 7 688 711   | (NA)                           | (NA)                            | 350 554                                |
| 1947 . . . . .                                  | 17 910         | (NA)                               | 1 552 135                  | 4 830 125         | 1 248 921          | 2 591 220         | 3 610 392       | 7 833 970   | (NA)                           | (NA)                            | 517 589                                |
| 1939 . . . . .                                  | 8 860          | (NA)                               | (NA)                       | (NA)              | 536 082            | (NA)              | 769 569         | 2 036 965   | (NA)                           | (NA)                            | (NA)                                   |
| 1937 . . . . .                                  | 7 327          | (NA)                               | (NA)                       | (NA)              | 653 461            | (NA)              | 969 679         | 2 365 788   | (NA)                           | (NA)                            | (NA)                                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.  
<sup>1</sup>The figures for 1939 through 1963 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for 1937 is not known.  
<sup>2</sup>For 1954 to 1958 represents adjusted value added. For 1953 and earlier years represents unadjusted value added. See text for more detailed explanation.  
<sup>3</sup>The total value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry classification. For a more complete explanation, see Introduction.  
<sup>4</sup>The figures for 1958 to 1963 include expenditures for plants under construction and not yet in operation.  
<sup>5</sup>Data for number of employees at manufacturers' central administrative offices and auxiliary units are shown in this table for 1954, 1958, and 1963 and for 1949 to 1953 in annual survey of manufactures volumes. Data for such employees are not available for 1955 to 1957 and for the years prior to 1949.  
<sup>6</sup>These figures represent estimates derived from a representative sample of manufac-

turing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.  
<sup>7</sup>The figures for 1939 to 1963 are not entirely comparable with those for 1937 because the 1937 figures (a) include data for establishments primarily engaged in the manufacture of thermostats and gauges, heat treating of steel, machine knives, and tackle blocks, and (b) exclude data for establishments primarily engaged in the manufacture of vacuum cleaners, turbo-generators and water-wheel generator sets, hair clippers for animal use, brooders, nonferrous bearings, certain industrial furnaces and ovens, time-stamps and time-recording machines, dictating machines, certain valves and fittings (except plumbers') and caulking guns. Value added by manufacture for 1939 on a basis strictly comparable with 1937 was \$1,989.6 million.  
<sup>8</sup>The figures prior to 1937 are not sufficiently comparable to those for later years to be shown in this table principally because they include data for establishments primarily engaged in the manufacture of aircraft engines and in machine shop repairs.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Code | Industry group and geographic area    | 1963           |                                    |                |                   |                    |                   |                 |  |                                     | 1958                   |  |
|------|---------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |                                       | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |                                       | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 35   | MACHINERY, EXCEPT ELECTRICAL, TOTAL.  | 33 703         | 8 426                              | 1 459 377      | 9 570 984         | 1 045 075          | 2 151 057         | 6 209 341       | 17 310 599                                     | 783 076                             | 1 350 257              | 12 414 069                                     |
|      | NORTHEAST . . . . .                   | 9 680          | 2 351                              | 452 516        | 2 965 443         | 316 745            | 651 559           | 1 862 974       | 5 088 199                                      | 243 140                             | 458 893                | 3 946 449                                      |
|      | NEW ENGLAND . . . . .                 | 3 017          | 747                                | 151 581        | 956 372           | 109 911            | 226 909           | 624 193         | 1 646 609                                      | 72 549                              | 150 126                | 1 226 859                                      |
|      | MAINE . . . . .                       | 74             | 18                                 | 1 815          | 9 107             | 1 343              | 2 746             | 5 959           | 12 900   | 477                                 | 2 862                  | 13 531   |
|      | NEW HAMPSHIRE . . . . .               | 120            | 31                                 | 8 002          | 46 712            | 5 791              | 12 754            | 29 405          | 78 269   | 3 927                               | 7 147                  | 59 727   |
|      | VERMONT . . . . .                     | 64             | 22                                 | 6 398          | 39 925            | 4 507              | 9 141             | 24 248          | 68 140   | 2 821                               | 6 134                  | 41 155   |
|      | MASSACHUSETTS . . . . .               | 1 388          | 384                                | 67 673         | 430 873           | 47 469             | 97 886            | 272 875         | 714 596  | 31 713                              | 66 266                 | 558 375  |
|      | RHODE ISLAND . . . . .                | 253            | 44                                 | 9 106          | 53 755            | 6 338              | 12 640            | 32 975          | 88 643   | 3 561                               | 8 249                  | 60 989   |
|      | CONNECTICUT . . . . .                 | 1 118          | 248                                | 58 587         | 376 000           | 44 463             | 91 742            | 258 731         | 684 061  | 30 050                              | 59 468                 | 493 082  |
|      | MIDDLE ATLANTIC . . . . .             | 6 663          | 1 604                              | 300 935        | 2 009 071         | 206 834            | 424 650           | 1 238 781       | 3 441 590                                      | 170 591                             | 308 767                | 2 719 590                                      |
|      | NEW YORK . . . . .                    | 2 861          | 635                                | 131 599        | 898 016           | 88 125             | 180 828           | 533 438         | 1 494 226                                      | 74 896                              | 139 103                | 1 180 700                                      |
|      | NEW JERSEY . . . . .                  | 1 846          | 399                                | 56 729         | 378 203           | 40 297             | 84 424            | 247 135         | 689 700  | 28 151                              | 57 517                 | 519 371  |
|      | PENNSYLVANIA . . . . .                | 1 956          | 570                                | 112 607        | 732 852           | 78 412             | 159 398           | 458 208         | 1 257 664                                      | 67 544                              | 112 147                | 1 019 519                                      |
|      | NORTH CENTRAL . . . . .               | 13 184         | 3 898                              | 730 574        | 4 908 691         | 532 831            | 1 099 589         | 3 296 071       | 9 090 081                                      | 397 662                             | 667 966                | 6 396 439                                      |
|      | EAST NORTH CENTRAL . . . . .          | 10 931         | 3 238                              | 617 919        | 4 211 171         | 452 981            | 937 623           | 2 853 294       | 7 694 893                                      | 327 495                             | 575 522                | 5 553 451                                      |
|      | OHIO . . . . .                        | 2 767          | 829                                | 165 200        | 1 108 828         | 120 111            | 247 557           | 744 709         | 1 991 426                                      | 83 231                              | 157 461                | 1 410 508                                      |
|      | INDIANA . . . . .                     | 1 012          | 278                                | 54 501         | 349 123           | 40 282             | 82 173            | 235 880         | 678 261  | 33 988                              | 45 954                 | 439 517  |
|      | ILLINOIS . . . . .                    | 2 730          | 837                                | 178 573        | 1 200 568         | 129 026            | 265 805           | 798 826         | 2 215 971                                      | 103 119                             | 164 447                | 1 723 164                                      |
|      | MICHIGAN . . . . .                    | 3 272          | 946                                | 134 532        | 988 791           | 102 565            | 217 593           | 703 664         | 1 804 594                                      | 66 378                              | 126 201                | 1 213 942                                      |
|      | WISCONSIN . . . . .                   | 1 149          | 348                                | 85 113         | 563 861           | 60 997             | 124 495           | 370 215         | 1 004 641                                      | 40 779                              | 81 459                 | 766 320  |
|      | WEST NORTH CENTRAL . . . . .          | 2 253          | 660                                | 112 655        | 697 520           | 79 850             | 161 966           | 442 777         | 1 395 188                                      | 70 167                              | 92 444                 | 842 988  |
|      | MINNESOTA . . . . .                   | 656            | 223                                | 37 532         | 238 727           | 24 875             | 51 095            | 136 604         | 482 493  | 31 416                              | 27 888                 | 252 576  |
|      | IOWA . . . . .                        | 415            | 136                                | 35 496         | 229 484           | 26 801             | 53 105            | 159 493         | 476 926  | 21 421                              | 31 274                 | 301 412  |
|      | MISSOURI . . . . .                    | 637            | 166                                | 26 449         | 158 342           | 18 475             | 37 360            | 100 762         | 275 562  | 11 939                              | 20 775                 | 185 897  |
|      | NORTH DAKOTA . . . . .                | 41             | 4                                  | 560            | 2 688             | 439                | 911               | 1 853           | 4 528  | 294                                 | (0)                    | (0)  |
|      | SOUTH DAKOTA . . . . .                | 32             | 8                                  | 785            | 4 278             | 629                | 1 338             | 3 006           | 8 724  | 246                                 | (0)                    | (0)  |
|      | NEBRASKA . . . . .                    | 157            | 36                                 | 3 354          | 16 880            | 2 550              | 5 280             | 11 778          | 49 979   | 1 415                               | 3 252                  | 27 588   |
|      | KANSAS . . . . .                      | 316            | 87                                 | 8 486          | 47 151            | 6 087              | 12 889            | 29 304          | 97 032   | 3 441                               | 8 412                  | 67 823   |
|      | SOUTH . . . . .                       | 4 804          | 1 157                              | 154 610        | 865 252           | 114 419            | 235 126           | 560 289         | 1 760 162                                      | 78 765                              | 123 534                | 1 100 544                                      |
|      | SOUTH ATLANTIC . . . . .              | 1 947          | 480                                | 59 126         | 317 933           | 44 133             | 90 966            | 205 427         | 623 349  | 28 711                              | 45 249                 | 363 317  |
|      | DELAWARE . . . . .                    | 47             | 10                                 | 1 317          | 10 919            | 842                | 1 720             | 5 262           | 11 655   | 1 128                               | 2 143                  | 12 201   |
|      | MARYLAND . . . . .                    | 219            | 60                                 | 11 545         | 72 551            | 7 996              | 16 517            | 43 861          | 142 105  | 6 147                               | 10 600                 | 105 275  |
|      | DISTRICT OF COLUMBIA . . . . .        | 16             | 3                                  | 221            | 1 323             | 181                | 376               | 985             | 2 193  | 141                                 | 117                    | 1 175  |
|      | VIRGINIA . . . . .                    | 182            | 49                                 | 5 764          | 28 965            | 4 314              | 8 862             | 19 424          | 58 896   | 4 009                               | 3 777                  | 28 649   |
|      | WEST VIRGINIA . . . . .               | 139            | 31                                 | 3 919          | 21 728            | 3 019              | 5 812             | 15 549          | 36 974   | 1 712                               | 3 751                  | 28 852   |
|      | NORTH CAROLINA . . . . .              | 412            | 118                                | 12 070         | 57 575            | 9 280              | 19 384            | 37 174          | 117 206  | 3 956                               | 9 121                  | 68 529   |
|      | SOUTH CAROLINA . . . . .              | 145            | 48                                 | 8 586          | 43 250            | 6 740              | 14 407            | 30 798          | 74 135   | 4 741                               | 3 770                  | 23 918   |
|      | GEORGIA . . . . .                     | 303            | 79                                 | 8 914          | 45 696            | 6 761              | 13 648            | 28 943          | 86 139   | 3 737                               | 7 972                  | 66 971   |
|      | FLORIDA . . . . .                     | 484            | 82                                 | 6 790          | 35 926            | 5 000              | 10 240            | 23 431          | 94 046   | 3 140                               | 3 998                  | 27 747   |
|      | EAST SOUTH CENTRAL . . . . .          | 784            | 196                                | 35 597         | 207 816           | 27 215             | 54 796            | 140 806         | 435 906  | 23 458                              | 27 173                 | 244 282  |
|      | KENTUCKY . . . . .                    | 205            | 60                                 | 16 156         | 107 014           | 12 193             | 24 004            | 71 131          | 231 352  | 12 278                              | 12 680                 | 132 629  |
|      | TENNESSEE . . . . .                   | 271            | 66                                 | 10 045         | 55 158            | 7 581              | 15 303            | 37 245          | 108 487  | 6 415                               | 8 013                  | 64 987   |
|      | ALABAMA . . . . .                     | 212            | 42                                 | 5 163          | 26 711            | 4 037              | 8 261             | 18 429          | 51 685   | 2 345                               | 4 387                  | 28 885   |
|      | MISSISSIPPI . . . . .                 | 96             | 28                                 | 4 233          | 18 933            | 3 404              | 7 228             | 14 001          | 44 382   | 2 420                               | 2 093                  | 17 781   |
|      | WEST SOUTH CENTRAL . . . . .          | 2 073          | 481                                | 59 887         | 339 503           | 43 071             | 89 364            | 214 056         | 700 907  | 26 596                              | 51 112                 | 492 945  |
|      | ARKANSAS . . . . .                    | 134            | 36                                 | 3 050          | 13 478            | 2 444              | 4 961             | 9 624           | 32 757   | 1 378                               | 1 279                  | 11 172   |
|      | LOUISIANA . . . . .                   | 200            | 45                                 | 3 856          | 20 957            | 2 917              | 6 224             | 14 700          | 37 544   | 1 794                               | 3 082                  | 25 228   |
|      | OKLAHOMA . . . . .                    | 387            | 89                                 | 11 032         | 61 180            | 8 095              | 16 364            | 39 618          | 120 244  | 5 570                               | 9 334                  | 77 190   |
|      | TEXAS . . . . .                       | 1 352          | 311                                | 41 949         | 243 888           | 29 615             | 61 815            | 150 114         | 510 362  | 17 854                              | 37 417                 | 379 355  |
|      | WEST . . . . .                        | 6 032          | 1 019                              | 121 882        | 832 251           | 81 341             | 165 278           | 490 313         | 1 398 365                                      | 64 175                              | 99 864                 | 970 637  |
|      | MOUNTAIN . . . . .                    | 671            | 105                                | 15 564         | 96 118            | 10 116             | 20 258            | 54 611          | 164 962  | 7 248                               | 11 639                 | 109 906  |
|      | MONTANA . . . . .                     | 34             | -                                  | 106            | 546               | 83                 | 167               | 448             | 944  | 83                                  | 108                    | 543  |
|      | IDAHO . . . . .                       | 67             | 8                                  | 556            | 3 112             | 443                | 921               | 2 350           | 5 050  | 218                                 | 845                    | 8 399  |
|      | WYOMING . . . . .                     | 23             | -                                  | 74             | 332               | 59                 | 120               | 269             | 809  | 56                                  | 127                    | 1 336  |
|      | COLORADO . . . . .                    | 222            | 43                                 | 5 172          | 31 818            | 3 844              | 7 797             | 22 279          | 65 722   | 2 386                               | 4 678                  | 50 543   |
|      | NEW MEXICO . . . . .                  | 76             | 10                                 | 635            | 3 746             | 483                | 1 053             | 2 609           | 6 274  | 260                                 | 563                    | 4 823  |
|      | ARIZONA . . . . .                     | 152            | 26                                 | 5 771          | 37 775            | 3 055              | 5 763             | 14 404          | 51 324   | 3 598                               | 2 998                  | 18 913   |
|      | UTAH . . . . .                        | 81             | 16                                 | 3 150          | 18 218            | 2 072              | 4 293             | 11 835          | 33 689   | 596                                 | 2 258                  | 25 341   |
|      | NEVADA . . . . .                      | 16             | 2                                  | 100            | 571               | 77                 | 144               | 417             | 1 150  | 51                                  | 62                     | 8  |
|      | PACIFIC . . . . .                     | 5 361          | 914                                | 106 318        | 736 133           | 71 225             | 145 020           | 435 702         | 1 233 403                                      | 56 927                              | 88 225                 | 860 731  |
|      | WASHINGTON . . . . .                  | 352            | 66                                 | 7 011          | 47 049            | 5 284              | 10 331            | 33 231          | 73 632   | 3 012                               | 5 265                  | 52 829   |
|      | OREGON . . . . .                      | 311            | 58                                 | 5 575          | 36 601            | 3 987              | 7 861             | 23 340          | 69 701   | 2 105                               | 4 062                  | 38 390   |
|      | CALIFORNIA . . . . .                  | 4 664          | 786                                | 93 308         | 650 086           | 61 602             | 126 115           | 377 251         | 1 086 421                                      | 51 669                              | 78 665                 | 767 748  |
|      | ALASKA . . . . .                      | 8              | -                                  | 24             | 169               | 20                 | 41                | 150             | 328  | 18                                  | (0)                    | (0)  |
|      | HAWAII . . . . .                      | 26             | 4                                  | 400            | 2 228             | 332                | 672               | 1 730           | 3 321  | 123                                 | (0)                    | (0)  |
| 351  | ENGINES AND TURBINES, TOTAL . . . . . | 165            | 102                                | 86 604         | 609 319           | 61 648             | 123 929           | 401 743         | 1 113 503                                      | 54 145                              | 97 351                 | 1 089 086                                      |
|      | NORTHEAST . . . . .                   | 39             | 25                                 | 33 707         | 252 170           | 23 177             | 46 141            | 161 293         | 427 288  | 21 518                              | 41 798                 | 527 042  |
|      | NEW ENGLAND . . . . .                 | 14             | 10                                 | 9 858          | 71 270            | 6 695              | 13 126            | 45 427          | 119 489  | 6 202                               | 9 378                  | 112 383  |
|      | MIDDLE ATLANTIC . . . . .             | 25             | 15                                 | 23 849         | 180 900           | 16 482             | 33 015            | 115 866         | 307 799  | 15 316                              | 32 420                 | 414 659  |
|      | NEW JERSEY . . . . .                  | 8              | 3                                  | 220            | 992               | 196                | 389               | 817             | 1 003  | 116                                 | (0)                    | (0)  |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area               | 1963           |                                    |                |                   |                    |                   |                 |  | 1958                                |                        |  |
|------|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 351  | ENGINES AND TURBINES—CONTINUED                   | 84             | 62                                 | 49 250         | 329 677           | 36 156             | 72 811            | 225 315         | 638 035  | 31 126                              | 50 993                 | 506 329  |
|      | NORTH CENTRAL . . . . .                          | 67             | 52                                 | 46 798         | 314 645           | 34 509             | 69 614            | 216 122         | 618 051  | 30 392                              | 47 827                 | 479 618  |
|      | ILLINOIS . . . . .                               | 9              | 8                                  | 8 551          | 59 739            | 5 760              | 11 040            | 37 572          | 97 348   | (0)                                 | (0)                    | (0)  |
|      | MICHIGAN . . . . .                               | 22             | 16                                 | 12 747         | 90 964            | 9 451              | 19 537            | 63 938          | 182 971  | (0)                                 | 13 088                 | 131 314  |
|      | WISCONSIN . . . . .                              | 22             | 20                                 | 17 224         | 107 934           | 13 205             | 26 444            | 77 124          | 200 678  | 6 570                               | 18 218                 | 183 373  |
|      | WEST NORTH CENTRAL . . . . .                     | 17             | 10                                 | 2 452          | 15 032            | 1 647              | 3 197             | 9 193           | 19 984   | 734                                 | 3 166                  | 26 711   |
|      | SOUTH . . . . .                                  | 16             | 5                                  | 617            | 3 929             | 495                | 1 226             | 2 717           | 11 917   | 238                                 | 214                    | 1 536  |
| 352  | FARM MACHINERY AND EQUIPMENT, TOTAL <sup>1</sup> | 1 568          | 558                                | 112 614        | 689 122           | 84 650             | 168 911           | 476 827         | 1 328 381                                      | 64 431                              | 108 586                | 1 087 836                                      |
| 353  | CONSTRUCTION & LIKE EQUIPMENT, TOTAL             | 2 259          | 987                                | 210 959        | 1 381 298         | 146 753            | 299 530           | 873 169         | 2 732 269                                      | 93 175                              | 199 711                | 2 054 841                                      |
|      | NORTHEAST . . . . .                              | 392            | 177                                | 31 110         | 205 684           | 19 852             | 40 994            | 120 883         | 429 498  | 11 425                              | 30 615                 | 342 091  |
|      | NEW ENGLAND . . . . .                            | 69             | 28                                 | 3 485          | 20 459            | 2 500              | 5 163             | 13 227          | 37 320   | 1 468                               | 3 588                  | 31 001   |
|      | CONNECTICUT . . . . .                            | 15             | 5                                  | 294            | 1 733             | 219                | 444               | 1 089           | 2 348  | 124                                 | 320                    | 2 674  |
|      | MIDDLE ATLANTIC . . . . .                        | 323            | 149                                | 27 625         | 185 225           | 17 352             | 35 831            | 107 656         | 392 178  | 9 957                               | 27 027                 | 311 090  |
|      | NEW YORK . . . . .                               | 110            | 51                                 | 7 476          | 49 132            | 4 853              | 9 994             | 29 603          | 83 693   | 2 248                               | 4 168                  | 45 240   |
|      | NEW JERSEY . . . . .                             | 73             | 25                                 | 6 305          | 45 477            | 3 945              | 8 300             | 26 442          | 135 596  | 2 157                               | 7 485                  | 103 625  |
|      | PENNSYLVANIA . . . . .                           | 140            | 73                                 | 13 844         | 90 616            | 8 554              | 17 537            | 51 611          | 172 889  | 5 552                               | 15 374                 | 162 225  |
|      | NORTH CENTRAL . . . . .                          | 843            | 414                                | 123 235        | 822 372           | 87 689             | 177 817           | 535 654         | 1 580 079                                      | 59 059                              | 115 420                | 1 171 276                                      |
|      | EAST NORTH CENTRAL . . . . .                     | 643            | 325                                | 108 089        | 728 092           | 77 281             | 156 169           | 478 434         | 1 394 799                                      | 50 214                              | 101 602                | 1 049 825                                      |
|      | OHIO . . . . .                                   | 194            | 107                                | 23 415         | 153 346           | 16 021             | 32 306            | 95 011          | 277 315  | 7 918                               | 24 300                 | 206 230  |
|      | INDIANA . . . . .                                | 51             | 25                                 | 4 457          | 26 428            | 3 234              | 6 264             | 17 825          | 55 329   | 1 121                               | 5 047                  | 43 682   |
|      | ILLINOIS . . . . .                               | 174            | 81                                 | 52 590         | 358 010           | 39 229             | 79 426            | 248 732         | 687 286  | 31 409                              | 45 196                 | 550 215  |
|      | MICHIGAN . . . . .                               | 135            | 63                                 | 12 002         | 83 331            | 7 898              | 15 586            | 48 976          | 169 763  | 4 348                               | 11 683                 | 114 369  |
|      | WISCONSIN . . . . .                              | 89             | 49                                 | 15 625         | 106 977           | 10 890             | 22 587            | 67 890          | 205 106  | 5 418                               | 15 376                 | 135 329  |
|      | WEST NORTH CENTRAL . . . . .                     | 200            | 89                                 | 15 146         | 94 280            | 10 408             | 21 648            | 57 220          | 185 280  | 8 845                               | 13 818                 | 121 451  |
|      | MINNESOTA . . . . .                              | 61             | 27                                 | 5 364          | 32 760            | 3 617              | 7 557             | 20 297          | 58 634   | 3 208                               | 4 523                  | 37 196   |
|      | IOWA . . . . .                                   | 48             | 24                                 | 5 746          | 35 883            | 4 705              | 8 338             | 22 289          | 84 409   | 2 830                               | 5 823                  | 55 811   |
|      | MISSOURI . . . . .                               | 45             | 19                                 | 2 054          | 13 315            | 1 370              | 2 733             | 7 308           | 23 041   | 2 269                               | 1 371                  | 12 611   |
|      | KANSAS . . . . .                                 | 30             | 12                                 | 1 584          | 10 067            | 1 100              | 2 329             | 5 663           | 14 882   | 452                                 | 1 749                  | 12 850   |
|      | SOUTH . . . . .                                  | 575            | 243                                | 37 783         | 225 787           | 26 270             | 54 614            | 136 915         | 473 994  | 15 674                              | 36 015                 | 362 596  |
|      | SOUTH ATLANTIC . . . . .                         | 123            | 40                                 | 4 603          | 27 301            | 3 146              | 6 360             | 15 060          | 59 122   | 2 717                               | 4 262                  | 39 966   |
|      | MARYLAND . . . . .                               | 10             | 3                                  | 632            | 5 027             | 251                | 547               | 1 300           | 10 033   | (0)                                 | 485                    | 4 390  |
|      | VIRGINIA . . . . .                               | 21             | 7                                  | 461            | 2 545             | 360                | 785               | 1 647           | 6 790  | 332                                 | 343                    | 3 168  |
|      | GEORGIA . . . . .                                | 16             | 8                                  | 1 342          | 8 070             | 1 009              | 1 970             | 5 005           | 19 071   | 486                                 | 1 556                  | 17 099   |
|      | EAST SOUTH CENTRAL . . . . .                     | 68             | 33                                 | 4 638          | 25 451            | 3 315              | 7 114             | 16 112          | 52 668   | 1 875                               | 4 501                  | 29 885   |
|      | KENTUCKY . . . . .                               | 24             | 10                                 | 1 306          | 7 706             | 905                | 1 854             | 4 767           | 13 998   | 254                                 | 919                    | 7 330  |
|      | TENNESSEE . . . . .                              | 17             | 10                                 | 1 396          | 7 700             | 953                | 2 032             | 4 329           | 15 066   | 513                                 | 1 496                  | 10 632   |
|      | ALABAMA . . . . .                                | 17             | 6                                  | 760            | 4 106             | 584                | 1 294             | 2 803           | 9 103  | 480                                 | 1 338                  | 6 147  |
|      | MISSISSIPPI . . . . .                            | 10             | 7                                  | 1 176          | 5 939             | 873                | 1 934             | 4 213           | 14 501   | 628                                 | 748                    | 5 776  |
|      | WEST SOUTH CENTRAL . . . . .                     | 384            | 170                                | 28 542         | 173 035           | 19 809             | 41 140            | 105 743         | 362 204  | 11 082                              | 27 252                 | 292 745  |
|      | OKLAHOMA . . . . .                               | 96             | 36                                 | 5 780          | 33 509            | 4 226              | 8 612             | 22 067          | 67 696   | 1 489                               | 5 332                  | 46 428   |
|      | TEXAS . . . . .                                  | 254            | 120                                | 21 175         | 130 684           | 14 329             | 29 930            | 77 474          | 277 465  | 8 646                               | 20 706                 | 235 660  |
|      | WEST . . . . .                                   | 448            | 152                                | 18 706         | 126 493           | 12 858             | 25 919            | 79 177          | 251 880  | 7 021                               | 17 661                 | 178 878  |
|      | MOUNTAIN . . . . .                               | 69             | 20                                 | 3 567          | 22 947            | 2 392              | 4 894             | 14 377          | 43 877   | 1 181                               | 4 185                  | 49 354   |
|      | COLORADO . . . . .                               | 35             | 14                                 | 2 093          | 13 906            | 1 523              | 3 107             | 8 924           | 32 559   | 1 036                               | 2 432                  | 26 705   |
|      | UTAH . . . . .                                   | 10             | 3                                  | 1 311          | 7 893             | 775                | 1 582             | 4 787           | 9 363  | 104                                 | 1 576                  | 20 079   |
|      | PACIFIC . . . . .                                | 379            | 132                                | 15 139         | 103 546           | 10 466             | 21 025            | 64 800          | 208 003  | 5 840                               | 13 476                 | 129 524  |
|      | WASHINGTON . . . . .                             | 37             | 15                                 | 2 288          | 16 114            | 1 768              | 3 464             | 11 813          | 25 214   | 1 157                               | 1 285                  | 12 305   |
|      | CALIFORNIA . . . . .                             | 304            | 103                                | 10 990         | 74 861            | 7 524              | 15 245            | 46 190          | 161 490  | 4 056                               | 10 946                 | 107 828  |
| 354  | METALWORKING MACHINERY, TOTAL . . . . .          | 8 536          | 2 063                              | 259 002        | 1 841 671         | 195 609            | 419 563           | 1 292 580       | 5 037 659                                      | 136 713                             | 233 523                | 2 058 049                                      |
|      | NORTHEAST . . . . .                              | 2 787          | 582                                | 84 574         | 561 660           | 63 876             | 133 204           | 386 614         | 925 947  | 43 769                              | 81 509                 | 656 849  |
|      | NEW ENGLAND . . . . .                            | 1 035          | 227                                | 40 380         | 267 024           | 29 631             | 61 917            | 175 636         | 426 022  | 19 303                              | 38 889                 | 301 819  |
|      | MAINE . . . . .                                  | 10             | 2                                  | 171            | 776               | 157                | 330               | 624             | 1 341  | 81                                  | 155                    | 1 188  |
|      | NEW HAMPSHIRE . . . . .                          | 25             | 5                                  | 716            | 4 217             | 506                | 1 124             | 2 526           | 8 376  | 446                                 | 537                    | 4 221  |
|      | VERMONT . . . . .                                | 15             | 9                                  | 4 427          | 29 753            | 3 041              | 6 161             | 17 176          | 47 596   | 2 654                               | 4 206                  | 26 478   |
|      | MASSACHUSETTS . . . . .                          | 395            | 92                                 | 14 991         | 95 575            | 11 040             | 23 026            | 63 654          | 150 301  | 6 222                               | 14 997                 | 121 220  |
|      | RHODE ISLAND . . . . .                           | 85             | 15                                 | 4 271          | 26 416            | 3 095              | 6 009             | 16 859          | 40 755   | 1 433                               | 4 038                  | 28 254   |
|      | CONNECTICUT . . . . .                            | 505            | 104                                | 15 804         | 110 287           | 11 792             | 25 267            | 74 797          | 177 653  | 8 467                               | 14 956                 | 120 458  |
|      | MIDDLE ATLANTIC . . . . .                        | 1 752          | 355                                | 44 194         | 294 636           | 34 245             | 71 287            | 210 978         | 499 925  | 24 466                              | 42 620                 | 355 030  |
|      | NEW YORK . . . . .                               | 787            | 140                                | 17 566         | 118 979           | 13 418             | 28 134            | 84 316          | 212 670  | 8 903                               | 16 564                 | 136 555  |
|      | NEW JERSEY . . . . .                             | 507            | 96                                 | 8 129          | 55 209            | 6 415              | 13 831            | 39 826          | 83 701   | 4 357                               | 8 182                  | 66 387   |
|      | PENNSYLVANIA . . . . .                           | 458            | 119                                | 18 499         | 120 448           | 14 412             | 29 322            | 86 836          | 203 554  | 11 206                              | 17 874                 | 152 088  |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area          | 1963           |                                    |                |                   |                    |                   |                 |  | 1958                                |                        |  |
|------|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 354  | METALWORKING MACHINERY--CONTINUED           |                |                                    |                |                   |                    |                   |                 |  |                                     |                        |  |
|      | NORTH CENTRAL . . . . .                     | 4 421          | 1 256                              | 151 443        | 1 133 576         | 113 743            | 249 079           | 799 684         | 1 847 382                                      | 81 050                              | 133 595                | 1 228 933                                      |
|      | EAST NORTH CENTRAL . . . . .                | 4 083          | 1 176                              | 144 204        | 1 088 565         | 108 232            | 237 546           | 768 981         | 1 772 122                                      | 76 766                              | 127 382                | 1 173 892                                      |
|      | OHIO . . . . .                              | 945            | 299                                | 45 583         | 329 966           | 32 649             | 70 253            | 220 748         | 553 381  | 25 727                              | 42 748                 | 376 082  |
|      | INDIANA . . . . .                           | 370            | 87                                 | 8 023          | 57 206            | 6 435              | 14 228            | 43 283          | 87 712   | 3 748                               | 7 228                  | 62 986   |
|      | ILLINOIS . . . . .                          | 866            | 216                                | 30 443         | 217 357           | 22 637             | 49 476            | 149 888         | 362 595  | 13 285                              | 26 998                 | 238 267  |
|      | MICHIGAN . . . . .                          | 1 623          | 505                                | 49 673         | 407 808           | 39 186             | 88 469            | 305 660         | 661 570  | 27 747                              | 42 599                 | 425 458  |
|      | WISCONSIN . . . . .                         | 279            | 69                                 | 10 482         | 76 228            | 7 325              | 15 120            | 49 402          | 106 864  | 6 259                               | 7 809                  | 71 099   |
|      | WEST NORTH CENTRAL . . . . .                | 338            | 80                                 | 7 239          | 45 011            | 5 511              | 11 533            | 30 703          | 75 260   | 4 284                               | 6 213                  | 55 041   |
|      | IOWA . . . . .                              | 50             | 13                                 | 1 658          | 10 800            | 1 159              | 2 424             | 6 593           | 18 012   | 1 147                               | 1 254                  | 11 022   |
|      | MISSOURI . . . . .                          | 149            | 33                                 | 3 098          | 19 520            | 2 407              | 5 003             | 13 428          | 33 684   | 2 022                               | 2 197                  | 21 072   |
|      | NEBRASKA . . . . .                          | 11             | 2                                  | 115            | 545               | 92                 | 203               | 452             | 839  | 53                                  | (D)                    | (D)  |
|      | SOUTH . . . . .                             | 452            | 90                                 | 11 282         | 62 856            | 8 893              | 18 187            | 45 231          | 123 964  | 5 921                               | 8 140                  | 73 880   |
|      | VIRGINIA . . . . .                          | 12             | 1                                  | 106            | 732               | 88                 | 189               | 544             | 1 370  | 160                                 | (D)                    | (D)  |
|      | NORTH CAROLINA . . . . .                    | 40             | 4                                  | 553            | 2 898             | 448                | 913               | 2 058           | 5 048  | 281                                 | (D)                    | (D)  |
|      | GEORGIA . . . . .                           | 31             | 7                                  | 449            | 2 804             | 385                | 798               | 2 179           | 4 628  | (D)                                 | 404                    | 3 874  |
|      | FLORIDA . . . . .                           | 80             | 16                                 | 904            | 5 267             | 734                | 1 592             | 4 062           | 8 391  | 626                                 | 531                    | 4 255  |
|      | KENTUCKY . . . . .                          | 34             | 10                                 | 757            | 4 440             | 631                | 1 388             | 3 535           | 7 327  | 520                                 | 555                    | 5 516  |
|      | TENNESSEE . . . . .                         | 41             | 12                                 | 803            | 4 223             | 669                | 1 469             | 3 307           | 6 529  | 381                                 | (D)                    | (D)  |
|      | ALABAMA . . . . .                           | 20             | 4                                  | 338            | 2 020             | 259                | 531               | 1 463           | 2 609  | 197                                 | 169                    | 1 267  |
|      | OKLAHOMA . . . . .                          | 12             | 2                                  | 133            | 727               | 110                | 251               | 524             | 1 266  | 82                                  | 157                    | 1 355  |
|      | TEXAS . . . . .                             | 84             | 15                                 | 1 512          | 8 872             | 1 155              | 2 425             | 6 155           | 17 651   | 743                                 | (D)                    | (D)  |
|      | WEST . . . . .                              | 875            | 135                                | 11 702         | 83 942            | 9 096              | 19 091            | 61 412          | 142 702  | 5 974                               | 10 279                 | 98 387   |
|      | COLORADO . . . . .                          | 14             | 3                                  | 129            | 790               | 107                | 207               | 618             | 962  | 59                                  | 112                    | 775  |
|      | ARIZONA . . . . .                           | 27             | 3                                  | 240            | 1 471             | 197                | 391               | 1 148           | 2 313  | 198                                 | 366                    | 3 495  |
|      | WASHINGTON . . . . .                        | 19             | 1                                  | 418            | 3 130             | 319                | 652               | 2 357           | 5 498  | 147                                 | 343                    | 3 361  |
|      | OREGON . . . . .                            | 22             | 2                                  | 151            | 808               | 123                | 225               | 622             | 1 049  | 62                                  | 132                    | 1 206  |
|      | CALIFORNIA . . . . .                        | 776            | 122                                | 10 567         | 76 559            | 8 193              | 17 299            | 55 749          | 130 326  | 5 393                               | 9 285                  | 89 251   |
| 355  | SPECIAL INDUSTRY MACHINERY, TOTAL . . . . . | 3 290          | 1 202                              | 171 528        | 1 094 823         | 120 027            | 249 517           | 679 122         | 1 917 184                                      | 71 414                              | 162 262                | 1 339 530                                      |
|      | NORTHEAST . . . . .                         | 1 279          | 440                                | 73 982         | 480 705           | 51 077             | 106 584           | 296 227         | 794 232  | 28 592                              | 77 810                 | 596 292  |
|      | NEW ENGLAND . . . . .                       | 400            | 147                                | 31 713         | 199 127           | 21 529             | 45 242            | 119 244         | 324 418  | 13 570                              | 33 528                 | 241 792  |
|      | MAINE . . . . .                             | 17             | 6                                  | 566            | 2 815             | 441                | 918               | 2 008           | 4 161  | 86                                  | (D)                    | (D)  |
|      | NEW HAMPSHIRE . . . . .                     | 21             | 10                                 | 3 411          | 20 805            | 2 428              | 5 627             | 13 177          | 32 057   | 2 060                               | 3 906                  | 32 084   |
|      | VERMONT . . . . .                           | 15             | 5                                  | 360            | 1 486             | 282                | 563               | 1 185           | 2 284  | 29                                  | (D)                    | (D)  |
|      | MASSACHUSETTS . . . . .                     | 237            | 94                                 | 20 233         | 127 362           | 13 574             | 28 145            | 75 322          | 200 407  | 8 120                               | 20 879                 | 142 700  |
|      | RHODE ISLAND . . . . .                      | 43             | 14                                 | 2 936          | 17 122            | 1 904              | 4 069             | 9 859           | 30 538   | 1 377                               | 2 222                  | 17 902   |
|      | CONNECTICUT . . . . .                       | 67             | 18                                 | 4 207          | 29 537            | 2 900              | 5 920             | 17 693          | 54 971   | 1 898                               | 4 196                  | 39 662   |
|      | MIDDLE ATLANTIC . . . . .                   | 879            | 293                                | 42 269         | 281 578           | 29 548             | 61 342            | 176 983         | 469 814  | 15 022                              | 44 282                 | 354 500  |
|      | NEW YORK . . . . .                          | 387            | 103                                | 15 142         | 103 414           | 10 529             | 21 579            | 66 025          | 187 217  | 3 877                               | 17 870                 | 150 416  |
|      | NEW JERSEY . . . . .                        | 267            | 96                                 | 11 337         | 78 036            | 7 785              | 16 549            | 47 959          | 129 274  | 4 219                               | 10 336                 | 94 900   |
|      | PENNSYLVANIA . . . . .                      | 225            | 94                                 | 15 790         | 100 128           | 11 234             | 23 214            | 62 999          | 153 323  | 6 926                               | 16 076                 | 109 184  |
|      | NORTH CENTRAL . . . . .                     | 986            | 406                                | 56 276         | 379 203           | 39 226             | 81 482            | 237 176         | 693 940  | 26 944                              | 51 115                 | 470 017  |
|      | EAST NORTH CENTRAL . . . . .                | 806            | 344                                | 49 900         | 340 298           | 39 964             | 72 709            | 214 673         | 624 530  | 22 768                              | 45 869                 | 424 538  |
|      | OHIO . . . . .                              | 228            | 101                                | 16 256         | 109 140           | 11 196             | 23 422            | 68 340          | 199 238  | 5 788                               | 14 250                 | 128 817  |
|      | INDIANA . . . . .                           | 61             | 22                                 | 2 942          | 18 428            | 2 121              | 4 306             | 11 879          | 35 214   | 1 906                               | 2 856                  | 24 766   |
|      | ILLINOIS . . . . .                          | 266            | 108                                | 14 477         | 100 691           | 9 812              | 20 552            | 62 314          | 174 156  | 6 297                               | 14 257                 | 130 422  |
|      | MICHIGAN . . . . .                          | 135            | 61                                 | 6 978          | 49 595            | 4 775              | 10 136            | 28 284          | 109 641  | 3 473                               | 6 311                  | 72 072   |
|      | WISCONSIN . . . . .                         | 116            | 52                                 | 9 247          | 62 444            | 7 060              | 14 293            | 43 856          | 106 281  | 5 304                               | 8 195                  | 68 461   |
|      | WEST NORTH CENTRAL . . . . .                | 180            | 62                                 | 6 376          | 38 905            | 4 262              | 8 773             | 22 503          | 69 410   | 4 176                               | 5 246                  | 45 479   |
|      | MINNESOTA . . . . .                         | 51             | 19                                 | 1 892          | 11 866            | 1 383              | 2 833             | 7 930           | 20 224   | 937                                 | 1 452                  | 12 785   |
|      | IOWA . . . . .                              | 37             | 16                                 | 1 573          | 8 961             | 1 158              | 2 311             | 5 717           | 14 512   | 461                                 | 1 305                  | 12 777   |
|      | MISSOURI . . . . .                          | 60             | 17                                 | 1 968          | 12 499            | 1 092              | 2 220             | 5 817           | 22 267   | 2 389                               | 1 820                  | 12 798   |
|      | KANSAS . . . . .                            | 20             | 10                                 | 877            | 5 298             | 580                | 1 309             | 2 840           | 11 702   | 336                                 | 648                    | 6 963  |
|      | SOUTH . . . . .                             | 582            | 245                                | 29 140         | 156 608           | 21 110             | 44 122            | 95 617          | 291 983  | 11 896                              | 23 389                 | 177 859  |
|      | SOUTH ATLANTIC . . . . .                    | 371            | 171                                | 20 815         | 110 620           | 15 195             | 32 026            | 67 312          | 198 794  | 8 416                               | 16 149                 | 116 108  |
|      | MARYLAND . . . . .                          | 33             | 17                                 | 2 991          | 19 926            | 2 016              | 4 342             | 12 560          | 34 126   | 1 145                               | 2 645                  | 24 730   |
|      | VIRGINIA . . . . .                          | 19             | 9                                  | 746            | 4 176             | 497                | 1 006             | 2 390           | 6 192  | 1 211                               | 840                    | 5 084  |
|      | NORTH CAROLINA . . . . .                    | 145            | 67                                 | 7 000          | 33 643            | 5 231              | 11 113            | 20 854          | 72 976   | 2 298                               | 5 013                  | 37 779   |
|      | SOUTH CAROLINA . . . . .                    | 53             | 26                                 | 4 889          | 22 369            | 3 850              | 8 088             | 15 049          | 38 789   | 1 561                               | 2 817                  | 17 769   |
|      | GEORGIA . . . . .                           | 69             | 33                                 | 3 129          | 15 479            | 2 396              | 4 946             | 9 710           | 26 628   | 1 123                               | 2 750                  | 20 811   |
|      | FLORIDA . . . . .                           | 38             | 13                                 | 1 227          | 6 874             | 728                | 1 551             | 3 485           | 12 166   | 499                                 | (D)                    | (D)  |
|      | EAST SOUTH CENTRAL . . . . .                | 80             | 32                                 | 3 563          | 18 798            | 2 671              | 5 326             | 12 585          | 41 268   | 1 070                               | 3 046                  | 24 514   |
|      | ALABAMA . . . . .                           | 17             | 8                                  | 1 127          | 5 839             | 869                | 1 729             | 3 977           | 11 857   | 175                                 | 1 018                  | 7 358  |
|      | WEST SOUTH CENTRAL . . . . .                | 131            | 42                                 | 4 762          | 27 190            | 3 244              | 6 770             | 15 720          | 51 921   | 2 410                               | 4 194                  | 37 237   |
|      | ARKANSAS . . . . .                          | 9              | 4                                  | 185            | 827               | 163                | 336               | 662             | 1 232  | 58                                  | (D)                    | (D)  |
|      | LOUISIANA . . . . .                         | 13             | 7                                  | 594            | 2 995             | 474                | 997               | 2 120           | 6 539  | 327                                 | 394                    | 3 622  |
|      | OKLAHOMA . . . . .                          | 23             | 6                                  | 466            | 2 581             | 329                | 648               | 1 620           | 5 048  | 152                                 | 603                    | 3 799  |
|      | TEXAS . . . . .                             | 86             | 25                                 | 3 517          | 20 787            | 2 278              | 4 789             | 11 318          | 39 102   | 1 873                               | 3 149                  | 29 169   |
|      | WEST . . . . .                              | 443            | 111                                | 12 128         | 78 307            | 8 613              | 17 329            | 50 102          | 139 251  | 3 977                               | 9 948                  | 95 362   |
|      | MOUNTAIN . . . . .                          | 28             | 5                                  | 619            | 3 957             | 350                | 689               | 2 967           | 5 913  | 185                                 | 333                    | 2 796  |
|      | PACIFIC . . . . .                           | 415            | 106                                | 11 509         | 74 350            | 8 263              | 16 640            | 47 135          | 133 338  | 3 792                               | 9 615                  | 92 566   |
|      | OREGON . . . . .                            | 51             | 16                                 | 1 587          | 10 867            | 1 129              | 2 242             | 6 516           | 25 084   | 581                                 | 1 180                  | 13 159   |
|      | CALIFORNIA . . . . .                        | 310            | 72                                 | 8 182          | 51 772            | 5 847              | 11 875            | 32 673          | 91 104   | 2 899                               | 7 328                  | 67 502   |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area   | 1963           |                                    |                |                   |                    |                   |                 | 1958   |                                     |                        |  |
|------|--------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |                                      | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |                                      | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 356  | GENERAL INDUSTRIAL MACHINERY, TOTAL. | 3 760          | 1 205                              | 233 143        | 1 542 032         | 161 869            | 332 054           | 962 422         | 2 812 672                                      | 124 540                             | 211 382                | 1 935 184                                      |
|      | NORTHEAST . . . . .                  | 1 128          | 386                                | 94 467         | 609 323           | 66 294             | 135 478           | 387 143         | 1 079 402                                      | 47 483                              | 90 764                 | 774 115  |
|      | NEW ENGLAND . . . . .                | 311            | 116                                | 33 079         | 204 530           | 24 563             | 50 096            | 138 561         | 383 838  | 16 918                              | 32 825                 | 279 674  |
|      | NEW HAMPSHIRE . . . . .              | 14             | 7                                  | 2 025          | 11 273            | 1 518              | 3 175             | 7 074           | 17 823   | 502                                 | (0)                    | (0)  |
|      | MASSACHUSETTS . . . . .              | 166            | 58                                 | 9 261          | 56 751            | 6 512              | 13 299            | 37 583          | 97 191   | 3 319                               | 9 055                  | 79 604   |
|      | CONNECTICUT . . . . .                | 104            | 42                                 | 20 834         | 131 192           | 15 882             | 32 401            | 90 907          | 259 483  | 12 820                              | 21 345                 | 179 258  |
|      | MIDDLE ATLANTIC . . . . .            | 817            | 270                                | 61 388         | 404 793           | 41 731             | 85 382            | 248 582         | 695 564  | 30 565                              | 57 939                 | 494 441  |
|      | NEW YORK . . . . .                   | 316            | 98                                 | 24 566         | 159 313           | 16 112             | 33 171            | 93 172          | 265 326  | 12 755                              | 22 934                 | 192 158  |
|      | NEW JERSEY . . . . .                 | 215            | 66                                 | 14 909         | 102 131           | 10 794             | 22 185            | 69 473          | 178 595  | 7 626                               | 14 278                 | 122 260  |
|      | PENNSYLVANIA . . . . .               | 286            | 106                                | 21 913         | 143 349           | 14 825             | 30 026            | 85 937          | 251 643  | 10 184                              | 20 727                 | 180 023  |
|      | NORTH CENTRAL . . . . .              | 1 643          | 560                                | 104 108        | 697 064           | 74 510             | 153 085           | 454 864         | 1 323 208                                      | 55 245                              | 94 474                 | 888 251  |
|      | EAST NORTH CENTRAL . . . . .         | 1 421          | 484                                | 95 237         | 643 561           | 68 271             | 140 426           | 420 792         | 1 204 819                                      | 51 970                              | 88 131                 | 828 812  |
|      | OHIO . . . . .                       | 369            | 123                                | 31 214         | 204 886           | 21 976             | 44 708            | 131 231         | 375 388  | 15 222                              | 30 627                 | 269 269  |
|      | INDIANA . . . . .                    | 132            | 52                                 | 16 503         | 108 196           | 11 891             | 24 043            | 71 396          | 203 658  | 11 567                              | 12 399                 | 115 173  |
|      | ILLINOIS . . . . .                   | 367            | 136                                | 20 311         | 134 712           | 14 155             | 29 497            | 83 948          | 271 115  | 8 538                               | 19 140                 | 202 301  |
|      | MICHIGAN . . . . .                   | 370            | 110                                | 16 185         | 117 336           | 12 517             | 26 143            | 84 797          | 209 268  | 9 413                               | 16 157                 | 139 657  |
|      | WISCONSIN . . . . .                  | 183            | 63                                 | 11 024         | 78 431            | 7 732              | 16 035            | 49 420          | 145 390  | 7 230                               | 9 808                  | 102 412  |
|      | WEST NORTH CENTRAL . . . . .         | 222            | 76                                 | 8 871          | 53 503            | 6 239              | 12 659            | 34 072          | 118 389  | 3 275                               | 6 343                  | 59 439   |
|      | MINNESOTA . . . . .                  | 72             | 29                                 | 2 512          | 15 909            | 1 737              | 3 402             | 9 527           | 28 960   | 611                                 | 1 868                  | 16 436   |
|      | IOWA . . . . .                       | 32             | 11                                 | 1 744          | 9 628             | 1 218              | 2 598             | 6 127           | 20 651   | 893                                 | (0)                    | (0)  |
|      | MISSOURI . . . . .                   | 71             | 20                                 | 2 268          | 14 379            | 1 693              | 3 346             | 9 831           | 26 567   | 543                                 | 1 618                  | 16 738   |
|      | KANSAS . . . . .                     | 33             | 9                                  | 1 121          | 6 828             | 682                | 1 447             | 3 860           | 14 672   | 484                                 | 897                    | 9 565  |
|      | SOUTH . . . . .                      | 406            | 115                                | 13 949         | 83 329            | 10 187             | 21 170            | 54 131          | 174 049  | 11 677                              | 11 587                 | 104 895  |
|      | SOUTH ATLANTIC . . . . .             | 146            | 36                                 | 4 068          | 26 158            | 2 991              | 6 268             | 18 198          | 47 384   | 4 230                               | 4 202                  | 33 884   |
|      | MARYLAND . . . . .                   | 20             | 3                                  | 1 059          | 7 006             | 608                | 1 249             | 3 339           | 9 709  | 524                                 | 1 722                  | 13 480   |
|      | VIRGINIA . . . . .                   | 15             | 7                                  | 636            | 3 230             | 548                | 1 224             | 2 653           | 8 033  | 686                                 | 215                    | 1 278  |
|      | NORTH CAROLINA . . . . .             | 21             | 6                                  | 376            | 1 851             | 299                | 625               | 1 190           | 3 994  | 155                                 | 680                    | 6 402  |
|      | SOUTH CAROLINA . . . . .             | 10             | 5                                  | 703            | 7 552             | 611                | 1 324             | 6 956           | 11 940   | 2 161                               | (0)                    | (0)  |
|      | GEORGIA . . . . .                    | 14             | 4                                  | 634            | 3 131             | 431                | 812               | 1 767           | 6 998  | 163                                 | 551                    | 5 803  |
|      | FLORIDA . . . . .                    | 51             | 9                                  | 534            | 2 763             | 389                | 835               | 1 770           | 5 616  | 434                                 | 667                    | 3 838  |
|      | EAST SOUTH CENTRAL . . . . .         | 77             | 21                                 | 3 651          | 21 806            | 2 875              | 5 953             | 15 257          | 48 823   | 3 787                               | 2 255                  | 26 505   |
|      | KENTUCKY . . . . .                   | 20             | 6                                  | 1 705          | 11 337            | 1 443              | 2 963             | 8 674           | 30 858   | 2 326                               | 1 248                  | 19 937   |
|      | TENNESSEE . . . . .                  | 26             | 8                                  | 1 227          | 6 441             | 886                | 1 864             | 3 855           | 11 002   | 969                                 | 555                    | 2 896  |
|      | ALABAMA . . . . .                    | 25             | 6                                  | 567            | 3 299             | 458                | 946               | 2 382           | 6 006  | 412                                 | (0)                    | (0)  |
|      | MISSISSIPPI . . . . .                | 6              | 1                                  | 152            | 729               | 88                 | 180               | 346             | 957  | 80                                  | (0)                    | (0)  |
|      | WEST SOUTH CENTRAL . . . . .         | 183            | 58                                 | 6 230          | 35 365            | 4 321              | 8 949             | 20 676          | 77 842   | 3 660                               | 5 130                  | 44 506   |
|      | ARKANSAS . . . . .                   | 10             | 4                                  | 335            | 1 543             | 242                | 460               | 875             | 3 599  | 37                                  | 237                    | 2 822  |
|      | LOUISIANA . . . . .                  | 10             | 3                                  | 168            | 894               | 106                | 209               | 542             | 1 559  | 40                                  | 237                    | 1 815  |
|      | OKLAHOMA . . . . .                   | 44             | 19                                 | 2 237          | 12 795            | 1 504              | 3 023             | 7 043           | 26 108   | 2 262                               | 1 628                  | 13 433   |
|      | TEXAS . . . . .                      | 119            | 32                                 | 3 490          | 20 133            | 2 469              | 5 257             | 12 216          | 46 576   | 1 321                               | 3 028                  | 26 436   |
|      | WEST . . . . .                       | 583            | 144                                | 20 721         | 152 774           | 11 003             | 22 601            | 66 175          | 245 129  | 10 246                              | 14 557                 | 167 923  |
|      | MOUNTAIN . . . . .                   | 46             | 10                                 | 1 175          | 7 464             | 764                | 1 689             | 4 754           | 18 743   | 511                                 | 1 005                  | 12 152   |
|      | COLORADO . . . . .                   | 25             | 6                                  | 541            | 3 674             | 369                | 841               | 2 383           | 9 182  | 344                                 | 435                    | 5 960  |
|      | PACIFIC . . . . .                    | 537            | 134                                | 19 546         | 145 310           | 10 239             | 20 912            | 61 421          | 226 386  | 9 735                               | 13 552                 | 155 771  |
|      | WASHINGTON . . . . .                 | 30             | 5                                  | 389            | 2 611             | 276                | 541               | 1 564           | 4 345  | 103                                 | 603                    | 6 108  |
|      | CALIFORNIA . . . . .                 | 480            | 124                                | 18 908         | 140 995           | 9 766              | 19 955            | 58 570          | 219 214  | 9 593                               | 12 689                 | 147 134  |
| 357  | OFFICE MACHINES, NEC, TOTAL.         | 515            | 265                                | 137 138        | 945 221           | 88 266             | 177 271           | 523 704         | 1 633 690                                      | 119 610                             | 121 615                | 970 529  |
|      | NORTHEAST . . . . .                  | 206            | 101                                | 60 572         | 413 149           | 38 532             | 78 611            | 221 495         | 606 966  | 51 096                              | 65 208                 | 441 324  |
|      | NEW ENGLAND . . . . .                | 58             | 34                                 | 14 765         | 85 728            | 11 194             | 22 645            | 58 627          | 175 927  | 6 452                               | 15 610                 | 125 120  |
|      | MASSACHUSETTS . . . . .              | 31             | 19                                 | 3 652          | 22 779            | 2 510              | 5 651             | 12 789          | 50 382   | 2 983                               | 2 323                  | 17 925   |
|      | CONNECTICUT . . . . .                | 17             | 11                                 | 9 746          | 55 473            | 7 666              | 14 893            | 40 606          | 112 108  | 3 362                               | 12 183                 | 98 650   |
|      | MIDDLE ATLANTIC . . . . .            | 148            | 67                                 | 45 807         | 327 421           | 27 338             | 55 966            | 162 868         | 431 039  | 44 644                              | 49 598                 | 316 204  |
|      | NEW YORK . . . . .                   | 80             | 38                                 | 36 466         | 267 234           | 21 319             | 43 464            | 128 317         | 324 940  | 31 161                              | 42 457                 | 264 334  |
|      | NEW JERSEY . . . . .                 | 34             | 17                                 | 4 615          | 29 211            | 2 906              | 6 288             | 17 873          | 48 561   | 4 040                               | 3 830                  | 30 540   |
|      | PENNSYLVANIA . . . . .               | 34             | 12                                 | 4 726          | 30 976            | 3 113              | 6 214             | 16 678          | 57 538   | 9 443                               | 3 311                  | 21 330   |
|      | NORTH CENTRAL . . . . .              | 140            | 76                                 | 50 507         | 345 638           | 35 730             | 70 739            | 224 219         | 699 545  | 43 917                              | 41 439                 | 403 072  |
|      | EAST NORTH CENTRAL . . . . .         | 107            | 59                                 | 37 724         | 257 105           | 28 734             | 56 253            | 184 700         | 490 489  | 23 999                              | (0)                    | (0)  |
|      | ILLINOIS . . . . .                   | 53             | 34                                 | 7 837          | 46 170            | 4 937              | 9 785             | 26 233          | 106 126  | 4 880                               | 6 770                  | 73 300   |
|      | WEST NORTH CENTRAL . . . . .         | 33             | 17                                 | 12 783         | 88 533            | 6 996              | 14 486            | 39 519          | 209 056  | 19 918                              | (0)                    | (0)  |
|      | SOUTH . . . . .                      | 56             | 33                                 | 8 386          | 55 348            | 5 448              | 10 959            | 28 969          | 150 413  | 8 072                               | 4 213                  | 49 786   |
|      | NORTH CAROLINA . . . . .             | 4              | 3                                  | 461            | 2 159             | 300                | 614               | 1 203           | 3 707  | 325                                 | (0)                    | (0)  |
|      | WEST . . . . .                       | 113            | 55                                 | 17 673         | 131 086           | 8 556              | 16 962            | 49 021          | 176 766  | 17 096                              | 10 755                 | 76 347   |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area     | 1963           |                                    |                |                   |                    |                   |                 |  | 1958                                |                        |  |
|------|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 358  | SERVICE INDUSTRY MACHINES, TOTAL . . . | 1 520          | 642                                | 112 569        | 673 869           | 77 808             | 155 962           | 406 627         | 1 368 914                                      | 47 319                              | 100 059                | 918 151  |
|      | NORTHEAST . . . . .                    | 433            | 189                                | 33 938         | 208 939           | 22 479             | 44 768            | 121 388         | 428 115  | 17 240                              | 32 890                 | 299 905  |
|      | NEW ENGLAND . . . . .                  | 76             | 40                                 | 6 233          | 37 699            | 4 221              | 8 459             | 22 105          | 70 306   | 2 666                               | 6 656                  | 63 974   |
|      | MASSACHUSETTS . . . . .                | 41             | 24                                 | 4 204          | 25 767            | 2 980              | 5 988             | 16 171          | 48 322   | 1 626                               | 4 775                  | 50 198   |
|      | RHODE ISLAND . . . . .                 | 9              | 2                                  | 200            | 1 102             | 86                 | 166               | 381             | 1 662  | 168                                 | (D)                    | (D)  |
|      | CONNECTICUT . . . . .                  | 21             | 9                                  | 1 180          | 6 841             | 806                | 1 625             | 4 025           | 11 438   | 798                                 | 1 196                  | 8 707  |
|      | MIDDLE ATLANTIC . . . . .              | 357            | 149                                | 27 705         | 171 240           | 18 258             | 36 309            | 99 283          | 357 809  | 14 574                              | 26 234                 | 235 931  |
|      | NEW YORK . . . . .                     | 166            | 65                                 | 11 602         | 74 909            | 7 666              | 15 429            | 44 474          | 169 344  | 5 133                               | 13 087                 | 139 329  |
|      | NEW JERSEY . . . . .                   | 82             | 40                                 | 5 381          | 33 263            | 3 555              | 7 080             | 18 980          | 57 433   | 2 338                               | 5 720                  | 41 068   |
|      | PENNSYLVANIA . . . . .                 | 109            | 44                                 | 10 722         | 63 068            | 7 037              | 13 800            | 35 829          | 131 032  | 7 103                               | 7 427                  | 55 534   |
|      | NORTH CENTRAL . . . . .                | 536            | 260                                | 53 480         | 327 113           | 36 848             | 74 047            | 197 433         | 653 459  | 20 354                              | 48 454                 | 451 454  |
|      | EAST NORTH CENTRAL . . . . .           | 409            | 194                                | 39 136         | 241 999           | 27 209             | 54 675            | 148 532         | 460 774  | 15 752                              | 35 038                 | 339 947  |
|      | OHIO . . . . .                         | 82             | 45                                 | 10 021         | 61 306            | 7 278              | 14 758            | 40 062          | 120 260  | 3 806                               | 7 968                  | 66 088   |
|      | INDIANA . . . . .                      | 43             | 18                                 | 5 394          | 30 807            | 3 977              | 7 636             | 20 294          | 52 154   | 2 287                               | 4 390                  | 44 251   |
|      | ILLINOIS . . . . .                     | 170            | 84                                 | 9 925          | 61 370            | 6 444              | 13 535            | 34 404          | 114 811  | 4 286                               | 8 144                  | 82 684   |
|      | MICHIGAN . . . . .                     | 66             | 30                                 | 8 402          | 55 455            | 6 226              | 12 252            | 36 302          | 109 151  | 3 213                               | 9 461                  | 93 804   |
|      | WISCONSIN . . . . .                    | 48             | 17                                 | 5 394          | 33 061            | 3 284              | 6 494             | 17 470          | 64 398   | 2 160                               | 5 075                  | 53 120   |
|      | WEST NORTH CENTRAL . . . . .           | 127            | 66                                 | 14 344         | 85 114            | 9 639              | 19 372            | 48 901          | 192 685  | 4 602                               | 13 416                 | 111 507  |
|      | MINNESOTA . . . . .                    | 49             | 23                                 | 4 913          | 30 892            | 3 406              | 7 166             | 17 841          | 68 137   | 2 187                               | 4 392                  | 40 407   |
|      | IOWA . . . . .                         | 13             | 7                                  | 1 051          | 6 514             | 819                | 1 763             | 4 460           | 31 978   | 499                                 | 618                    | 5 196  |
|      | MISSOURI . . . . .                     | 44             | 28                                 | 7 449          | 42 972            | 4 733              | 9 195             | 23 708          | 76 227   | 1 636                               | 6 758                  | 58 549   |
|      | KANSAS . . . . .                       | 13             | 7                                  | 858            | 4 346             | 628                | 1 137             | 2 647           | 15 283   | 234                                 | 1 447                  | 5 850  |
|      | SOUTH . . . . .                        | 285            | 115                                | 17 228         | 89 467            | 12 976             | 26 308            | 57 315          | 204 741  | 7 470                               | 11 385                 | 102 336  |
|      | SOUTH ATLANTIC . . . . .               | 108            | 37                                 | 5 172          | 28 194            | 3 684              | 7 510             | 16 980          | 58 770   | 1 961                               | 3 773                  | 32 644   |
|      | MARYLAND . . . . .                     | 14             | 8                                  | 1 343          | 8 134             | 865                | 1 722             | 4 073           | 18 187   | 354                                 | 1 151                  | 13 893   |
|      | NORTH CAROLINA . . . . .               | 16             | 7                                  | 1 056          | 5 553             | 802                | 1 653             | 3 978           | 12 234   | 154                                 | 447                    | 3 369  |
|      | GEORGIA . . . . .                      | 16             | 6                                  | 883            | 4 914             | 634                | 1 334             | 2 799           | 7 666  | 545                                 | 678                    | 5 052  |
|      | FLORIDA . . . . .                      | 45             | 8                                  | 487            | 2 521             | 340                | 692               | 1 491           | 5 015  | 216                                 | 344                    | 2 341  |
|      | EAST SOUTH CENTRAL . . . . .           | 40             | 19                                 | 4 656          | 25 215            | 3 639              | 7 396             | 17 245          | 66 154   | 2 521                               | 2 823                  | 27 734   |
|      | KENTUCKY . . . . .                     | 8              | 6                                  | 2 082          | 13 344            | 1 653              | 3 345             | 9 232           | 38 653   | 550                                 | 1 784                  | 18 120   |
|      | TENNESSEE . . . . .                    | 19             | 7                                  | 1 347          | 6 055             | 988                | 1 956             | 3 777           | 17 278   | 1 220                               | 700                    | 7 399  |
|      | WEST SOUTH CENTRAL . . . . .           | 137            | 59                                 | 7 400          | 36 058            | 5 653              | 11 402            | 23 090          | 79 817   | 2 988                               | 4 789                  | 41 958   |
|      | ARKANSAS . . . . .                     | 10             | 7                                  | 786            | 3 325             | 642                | 1 313             | 2 398           | 6 938  | 160                                 | 122                    | 682  |
|      | LOUISIANA . . . . .                    | 13             | 3                                  | 252            | 1 298             | 179                | 403               | 815             | 3 029  | 83                                  | 142                    | 1 239  |
|      | OKLAHOMA . . . . .                     | 24             | 8                                  | 852            | 3 799             | 679                | 1 345             | 2 586           | 6 914  | 596                                 | 207                    | 1 703  |
|      | TEXAS . . . . .                        | 90             | 41                                 | 5 510          | 27 636            | 4 153              | 8 341             | 17 291          | 62 936   | 2 149                               | 4 318                  | 38 334   |
|      | WEST . . . . .                         | 266            | 79                                 | 8 195          | 49 380            | 5 753              | 11 316            | 31 350          | 88 215   | 2 257                               | 7 330                  | 64 456   |
|      | MOUNTAIN . . . . .                     | 37             | 9                                  | 2 043          | 11 286            | 1 446              | 2 712             | 7 539           | 24 528   | 608                                 | 1 481                  | 10 905   |
|      | ARIZONA . . . . .                      | 10             | 4                                  | 1 300          | 7 415             | 971                | 1 730             | 5 256           | 14 157   | 469                                 | 1 097                  | 7 577  |
|      | PACIFIC . . . . .                      | 229            | 70                                 | 6 152          | 38 094            | 4 307              | 8 604             | 23 811          | 63 687   | 1 649                               | 5 849                  | 53 551   |
|      | OREGON . . . . .                       | 15             | 3                                  | 202            | 1 391             | 140                | 277               | 960             | 2 212  | 44                                  | (D)                    | (D)  |
|      | CALIFORNIA . . . . .                   | 201            | 61                                 | 5 578          | 34 345            | 3 939              | 7 901             | 21 513          | 58 434   | 1 499                               | 5 521                  | 50 485   |
| 359  | MISCELLANEOUS MACHINERY, TOTAL . . .   | 12 090         | 1 402                              | 135 820        | 793 629           | 108 445            | 224 320           | 593 147         | 1 366 327                                      | 71 729                              | 115 659                | 959 939  |

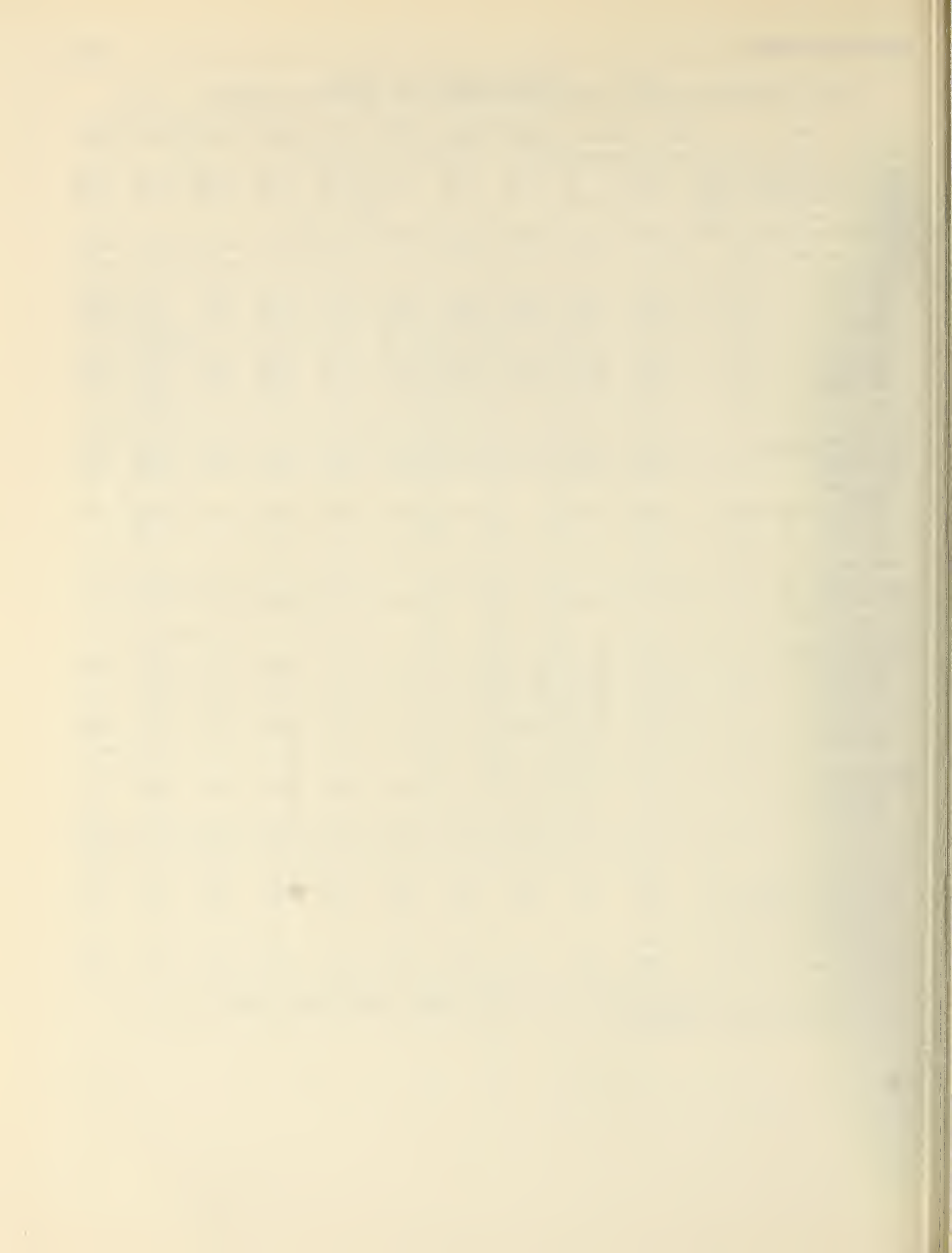
Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.  
<sup>1</sup>This industry group consists of a single 4-digit industry. Detailed data by State are included in the 4-digit industry tables.



TABLE 3. Detailed Statistics: 1963

| Item   | Machinery, except electrical (SIC 35) | Engines and turbines (SIC 351) | Farm machinery and equipment (SIC 352) | Construction and like equipment (SIC 353) | Metal-working machinery (SIC 354) | Special industry machinery (SIC 355) | General industrial machinery (SIC 356) | Office machines, n.e.c. (SIC 357) | Service industry machines (SIC 358) | Miscellaneous machinery (SIC 359) |
|--|---------------------------------------|--------------------------------|--|---|-----------------------------------|--------------------------------------|--|-----------------------------------|-------------------------------------|-----------------------------------|
| ESTABLISHMENTS, TOTAL . . . NUMBER . . .                                 | 33 703                                | 165                            | 1 568                                  | 2 259                                     | 8 536                             | 3 290                                | 3 760                                  | 515                               | 1 520                               | 12 090                            |
| WITH 1 TO 19 EMPLOYEES . . . DO . . .                                    | 25 277                                | 63                             | 1 010                                  | 1 272                                     | 6 473                             | 2 088                                | 2 555                                  | 250                               | 878                                 | 10 688                            |
| WITH 20 TO 99 EMPLOYEES . . . DO . . .                                   | 6 137                                 | 32                             | 407                                    | 620                                       | 1 657                             | 848                                  | 766                                    | 130                               | 410                                 | 1 267                             |
| WITH 100 EMPLOYEES OR MORE . . . DO . . .                                | 2 289                                 | 70                             | 151                                    | 367                                       | 406                               | 354                                  | 439                                    | 135                               | 232                                 | 135                               |
| PROPRIETORS AND WORKING PARTNERS . . . DO . . .                          | 17 956                                | 28                             | 706                                    | 694                                       | 4 456                             | 1 111                                | 1 690                                  | 114                               | 443                                 | 8 714                             |
| ALL EMPLOYEES (AVERAGE FOR THE YEAR) . . . DO . . .                      | 1 459 377                             | 86 604                         | 112 614                                | 210 959                                   | 259 002                           | 171 528                              | 233 143                                | 137 138                           | 112 569                             | 135 820                           |
| PAYROLL (ALL EMPLOYEES), TOTAL FOR YEAR . . . \$1,000 . . .              | 9 570 984                             | 609 319                        | 689 122                                | 1 381 298                                 | 1 841 671                         | 1 094 823                            | 1 542 032                              | 945 221                           | 673 869                             | 793 629                           |
| PRODUCTION WORKERS:  |                                       |                                |  |   |                                   |                                      |  |                                   |                                     |                                   |
| AVERAGE FOR THE YEAR . . . NUMBER . . .                                  | 1 045 075                             | 61 648                         | 84 650                                 | 146 753                                   | 195 609                           | 120 027                              | 161 869                                | 88 266                            | 77 808                              | 108 445                           |
| MARCH . . . DO . . .   | 1 042 144                             | 61 959                         | 88 592                                 | 142 281                                   | 195 060                           | 119 709                              | 161 158                                | 88 027                            | 77 950                              | 107 408                           |
| MAY . . . DO . . .   | 1 047 143                             | 60 761                         | 86 961                                 | 145 760                                   | 195 847                           | 119 189                              | 162 728                                | 86 721                            | 80 733                              | 108 443                           |
| AUGUST . . . DO . . .  | 1 043 738                             | 62 044                         | 84 720                                 | 149 072                                   | 193 988                           | 119 601                              | 161 418                                | 87 601                            | 76 220                              | 109 074                           |
| NOVEMBER . . . DO . . .  | 1 051 273                             | 61 827                         | 82 327                                 | 149 807                                   | 197 821                           | 120 610                              | 162 259                                | 90 715                            | 76 366                              | 109 450                           |
| MAN-HOURS . . . \$1,000 . . .  | 2 151 057                             | 123 929                        | 168 911                                | 299 530                                   | 419 563                           | 249 517                              | 332 054                                | 177 271                           | 155 962                             | 224 320                           |
| JANUARY-MARCH . . . DO . . .   | 539 111                               | 31 750                         | 44 683                                 | 72 599                                    | 105 273                           | 62 758                               | 82 882                                 | 45 344                            | 38 640                              | 55 182                            |
| APRIL-JUNE . . . DO . . .  | 549 253                               | 31 114                         | 44 277                                 | 75 483                                    | 106 949                           | 64 039                               | 84 842                                 | 44 868                            | 41 414                              | 56 267                            |
| JULY-SEPTEMBER . . . DO . . .  | 514 305                               | 29 377                         | 38 476                                 | 73 947                                    | 100 335                           | 59 760                               | 79 846                                 | 40 278                            | 36 994                              | 55 292                            |
| OCTOBER-DECEMBER . . . DO . . .  | 548 960                               | 31 688                         | 41 475                                 | 78 028                                    | 107 006                           | 62 960                               | 84 489                                 | 46 814                            | 38 921                              | 57 579                            |
| WAGES . . . \$1,000 . . .  | 6 209 341                             | 401 743                        | 476 827                                | 873 169                                   | 1 292 580                         | 679 122                              | 962 422                                | 523 704                           | 406 627                             | 593 147                           |
| COST OF MATERIALS, ETC., TOTAL <sup>1</sup> . . . DO . . .               | 13 254 179                            | 988 490                        | 1 536 761                              | 2 543 510                                 | 1 483 120                         | 1 408 733                            | 1 953 215                              | 1 168 473                         | 1 498 054                           | 673 823                           |
| MATERIALS, PARTS, CONTAINERS, AND SUPPLIES CONSUMED . . . DO . . .       | 11 536 433                            | 913 216                        | 1 426 108                              | 2 243 396                                 | 1 227 774                         | 1 153 687                            | 1 678 079                              | 1 030 522                         | 1 334 990                           | 528 661                           |
| COST OF REALES . . . DO . . .  | 1 002 705                             | 42 571                         | 72 001                                 | 207 162                                   | 98 566                            | 176 043                              | 156 517                                | 92 176                            | 113 768                             | 43 901                            |
| FUELS CONSUMED . . . DO . . .  | 104 719                               | 10 888                         | 14 380                                 | 14 861                                    | 15 939                            | 10 973                               | 17 897                                 | 5 258                             | 7 315                               | 7 208                             |
| ELECTRIC ENERGY:   |                                       |                                |  |   |                                   |                                      |  |                                   |                                     |                                   |
| PURCHASED:   |                                       |                                |  |   |                                   |                                      |  |                                   |                                     |                                   |
| QUANTITY . . . MILLION KW.-HRS. . .                                      | 11 059                                | 836                            | 735                                    | 2 041                                     | 1 813                             | 1 009                                | 2 046                                  | 804                               | 894                                 | 881                               |
| COST . . . \$1,000 . . .   | 153 527                               | 9 712                          | 10 387                                 | 25 523                                    | 28 540                            | 15 867                               | 26 985                                 | 10 123                            | 11 344                              | 15 046                            |
| GENERATED LESS SOLD . . . MILLION KW.-HRS. . .                           | 12 185                                | 210                            | 550                                    | 4 250                                     | 1 140                             | 1 455                                | 2 087                                  | 283                               | 2 207                               | 3                                 |
| CONTRACT WORK . . . \$1,000 . . .  | 456 736                               | 12 103                         | 13 885                                 | 52 515                                    | 112 296                           | 52 123                               | 73 776                                 | 30 394                            | 30 637                              | 79 007                            |
| VALUE OF SHIPMENTS (INCLUDING REALES), TOTAL <sup>1</sup> . . . DO . . . | 30 363 095                            | 2 089 990                      | 2 842 243                              | 5 260 407                                 | 4 474 696                         | 3 303 290                            | 4 732 825                              | 2 782 800                         | 2 840 545                           | 2 036 299                         |
| VALUE OF REALES . . . DO . . .   | 1 330 744                             | 58 030                         | 89 619                                 | 271 953                                   | 126 283                           | 228 760                              | 209 840                                | 139 535                           | 149 616                             | 57 109                            |
| VALUE ADDED BY MANUFACTURE, ADJUSTED . . . DO . . .                      | 17 310 599                            | 1 113 503                      | 1 328 381                              | 2 732 269                                 | 3 037 659                         | 1 917 184                            | 2 812 672                              | 1 633 690                         | 1 368 914                           | 1 366 327                         |
| MANUFACTURERS' INVENTORIES:  |                                       |                                |  |   |                                   |                                      |  |                                   |                                     |                                   |
| BEGINNING OF YEAR, TOTAL . . . DO . . .                                  | 6 554 398                             | 445 141                        | 633 879                                | 1 212 801                                 | 893 280                           | 792 560                              | 957 291                                | 808 695                           | 579 777                             | 230 974                           |
| FINISHED PRODUCTS . . . DO . . .   | 2 017 342                             | 81 264                         | 253 194                                | 406 853                                   | 243 134                           | 254 530                              | 328 593                                | 172 257                           | 204 875                             | 72 642                            |
| WORK-IN-PROCESS . . . DO . . .   | 2 868 816                             | 280 680                        | 197 930                                | 409 303                                   | 463 440                           | 331 067                              | 376 306                                | 537 962                           | 180 223                             | 91 905                            |
| MATERIALS, SUPPLIES, FUEL, ETC. . . DO . . .                             | 1 668 251                             | 83 197                         | 182 755                                | 396 646                                   | 186 706                           | 206 963                              | 252 407                                | 98 476                            | 194 679                             | 66 427                            |
| END OF YEAR, TOTAL . . . DO . . .  | 6 803 006                             | 455 427                        | 669 266                                | 1 245 960                                 | 952 791                           | 817 691                              | 986 121                                | 832 582                           | 609 711                             | 233 457                           |
| FINISHED PRODUCTS . . . DO . . .   | 2 061 684                             | 76 260                         | 267 168                                | 404 218                                   | 255 806                           | 261 592                              | 333 088                                | 176 103                           | 213 234                             | 74 205                            |
| WORK-IN-PROCESS . . . DO . . .   | 3 027 133                             | 297 687                        | 206 855                                | 427 521                                   | 496 768                           | 346 631                              | 404 917                                | 553 749                           | 198 812                             | 94 193                            |
| MATERIALS, SUPPLIES, FUEL, ETC. . . DO . . .                             | 1 714 191                             | 81 480                         | 195 243                                | 414 221                                   | 200 218                           | 209 467                              | 248 108                                | 102 730                           | 197 665                             | 65 059                            |
| EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . DO . . .               | 868 168                               | 57 321                         | 68 379                                 | 100 122                                   | 158 863                           | 79 089                               | 136 918                                | 128 720                           | 51 370                              | 87 386                            |
| NEW, TOTAL . . . DO . . .  | 783 076                               | 54 145                         | 64 431                                 | 93 175                                    | 136 713                           | 71 414                               | 124 540                                | 119 610                           | 47 319                              | 71 729                            |
| NEW STRUCTURES AND ADDITIONS TO PLANT . . . DO . . .                     | 170 968                               | 7 939                          | 17 006                                 | 19 318                                    | 26 411                            | 17 778                               | 26 177                                 | 21 555                            | 14 189                              | 20 595                            |
| NEW MACHINERY AND EQUIPMENT . . . DO . . .                               | 612 118                               | 46 206                         | 47 425                                 | 73 866                                    | 110 302                           | 53 636                               | 98 363                                 | 98 055                            | 33 131                              | 51 134                            |
| USED PLANT AND EQUIPMENT . . . DO . . .                                  | 85 110                                | 3 176                          | 3 948                                  | 6 947                                     | 22 167                            | 7 675                                | 12 378                                 | 9 110                             | 4 051                               | 15 658                            |
| SELECTED OPERATING RATIOS:   |                                       |                                |  |   |                                   |                                      |  |                                   |                                     |                                   |
| PAYROLL/TOTAL EMPLOYMENT . . .   | 6 558                                 | 7 036                          | 6 119                                  | 6 548                                     | 7 111                             | 6 383                                | 6 614                                  | 6 892                             | 5 986                               | 5 843                             |
| PRODUCTION WORKERS/TOTAL EMPLOYMENT . . .                                | .72                                   | .71                            | .75                                    | .70                                       | .76                               | .70                                  | .69                                    | .64                               | .69                                 | .80                               |
| MAN-HOURS/PRODUCTION WORKERS . . .                                       | 2 058                                 | 2 010                          | 1 995                                  | 2 041                                     | 2 145                             | 2 079                                | 2 051                                  | 2 008                             | 2 004                               | 2 069                             |
| PRODUCTION WORKER WAGES/MAN-HOURS . . .                                  | 2.89                                  | 3.24                           | 3.82                                   | 2.92                                      | 3.08                              | 2.72                                 | 2.90                                   | 2.95                              | 2.61                                | 2.64                              |
| COST OF MATERIALS AND PAYROLLS/TOTAL VALUE OF SHIPMENTS . . .            | .75                                   | .76                            | .79                                    | .75                                       | .74                               | .76                                  | .74                                    | .76                               | .76                                 | .72                               |
| COST OF MATERIALS/TOTAL VALUE OF SHIPMENTS . . .                         | .44                                   | .47                            | .55                                    | .48                                       | .33                               | .43                                  | .41                                    | .42                               | .53                                 | .33                               |
| ADJUSTED VALUE ADDED/TOTAL EMPLOYMENT . . .                              | 11 862                                | 12 857                         | 11 796                                 | 12 952                                    | 11 728                            | 11 177                               | 12 064                                 | 11 913                            | 12 161                              | 10 059                            |
| SALARIES AND WAGES/ADJUSTED VALUE ADDED . . .                            | .55                                   | .55                            | .52                                    | .51                                       | .61                               | .57                                  | .55                                    | .58                               | .49                                 | .58                               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.  
<sup>1</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.





## ENGINES AND TURBINES AND FARM MACHINERY AND EQUIPMENT

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3511—Steam Engines; Steam, Gas, and Hydraulic Turbines; and Steam, Gas, and Hydraulic Turbine Generator Set Units
- 3519—Internal Combustion Engines, Not Elsewhere Classified
- 3522—Farm Machinery and Equipment

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3511—STEAM ENGINES; STEAM, GAS, AND HYDRAULIC TURBINES; AND STEAM, GAS AND HYDRAULIC TURBINE GENERATOR SET UNITS

This industry comprises establishments primarily engaged in manufacturing steam engines; steam turbines; hydraulic turbines; gas turbines, except aircraft; and complete steam, gas, and hydraulic turbine generator set units. Establishments primarily engaged in building or rebuilding locomotives are classified in industry 3741; and those manufacturing nonautomotive generators which are not part of a turbine generator set in industry 3621. For a detailed list of products of industry 3511, refer to table 6A, product codes 3511112 to 3511273.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Steam Engines and Turbines Industry totaled \$616 million. This amount included shipments of steam engines and turbines (primary products) valued at \$485 million, shipments of other products (secondary products) valued at \$88 million, and miscellaneous receipts (mainly products bought and resold) at \$43 million.

This industry's shipments of steam engines and turbines represented 85 percent of its total product shipments. The industry specialization ratio in 1958 was 78 percent. Secondary products shipped by this industry in 1963 include heat exchangers and steam condensers, over \$10 million, and speed changers, industrial high speed drives and gears, over \$5 million.

Shipments of steam engines and turbines by this industry represented 82 percent of all shipments of these products (\$589 million) by all industries. In 1958 the coverage ratio was 94 percent. Other industries shipping steam engines and turbines include industry 3722, Aircraft Engines and Parts, \$43 million; and industry 3561, Pumps and Compressors, over \$10 million.

A few of the establishments engaged in manufacturing steam engines and turbines also installed the steam engines and turbines they produced. For 1963, establishments in industry 3511 reported receipts for installation totaling \$3 million. The employment statistics for this industry include only employees attached to the manufacturing establishments and exclude local labor hired in the field for installation and erection work.

The production index for the primary products of the industry increased to 157 in 1963 from the 1958 level of 146. The unit value index for 1963 was 78 compared to 108 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3519—INTERNAL COMBUSTION ENGINES, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing diesel, semi-diesel, or other internal combustion engines, n.e.c., for stationary, marine, traction, and other uses. Establishments primarily engaged in manufacturing aircraft engines, including rocket engines, are classified in industry 3722; automotive engines except diesel in industry 3714; and engine generator sets in industry 3621. For a list of products of industry 3519, refer to table 6A, product codes 3519100 to 3519715.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Internal Combustion Engines Industry totaled \$1,474 million. This amount included shipments of internal combustion engines, n.e.c. (primary products) valued at \$1,210 million, shipments of other products (secondary products) valued at \$197 million, and miscellaneous receipts (mainly products bought and resold) at \$66 million.

This industry's shipments of internal combustion engines represented 86 percent of its total products shipments. The industry specialization ratio in 1958 was 90 percent. Secondary products shipped by this industry in 1963 include parts and accessories for passenger cars, trucks, and busses shipped to motor vehicle manufacturers (\$40 million), and prime mover generator sets, except steam or hydraulic turbines (\$38 million).

Inasmuch as industry 3519 includes all establishments primarily engaged in manufacturing internal combustion engines (except automotive and aircraft), significantly different types of establishments are included. The most important difference concerns the type of engines produced. One distinct group comprises plants primarily manufacturing gasoline engines and another comprises those primarily manufacturing diesel engines. Within the first group another significant difference concerns the size of gasoline engines produced. Establishments producing small gasoline engines for power lawn mowers, garden tractors, small engine generators, pumps, etc., are included as well as plants principally producing large gasoline engines for industrial uses, large generator sets, tractors, farm equipment, etc. Establishments producing outboard motors are also included. For diesel engines, likewise, a difference exists as to size of engine produced. Certain plants produce only large diesel engines for locomotives, diesel-electric sets, etc.

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent to this specialization is indicated in table 8. Approximately 48 percent of the total industry shipments are represented by plants specializing in diesel and semidiesel engines; and 18 percent in parts and attachments for internal combustion engines (except aircraft and automotive engines and gas turbines).



The coverage ratio for an individual product class may vary significantly from that for the 4-digit industry for the following product class of industry 3519, e.g., gas engines (except gas turbines), 47 percent.

Shipments of internal combustion engines by this industry represented 86 percent of all shipments of these products (\$1,414 million) by all industries. In 1958 the coverage ratio was 82 percent. Other industries shipping internal combustion engines include industry 3522, Farm Machinery and Equipment, over \$22 million; and industry 3717, Motor Vehicles and Parts, \$19 million.

Internal combustion engines are produced captively in significant quantities by establishments classified in other industries, which incorporate the engines into other products (tractors, lawn mowers, etc.) made in the same establishment. The product statistics shown in tables 6A-1 through 6A-6 include data for engines produced and incorporated into the establishments own end products as well as data for engines transferred to plants of the same company. Data on engines sold to other companies also are shown separately. These data were compiled from supplemental reports filed by manufacturers of end products incorporating engines of their own manufacture.

Product data similar to that shown in tables 6A-1 through 6A-6 have been collected and compiled annually since 1950 by the Bureau of the Census and published in Current Industrial Reports Series M35L, Internal Combustion Engines.

The production index for the primary products of the industry increased to 150 in 1963 from the 1958 level of 108. The unit value index for 1963 was 102 compared to 114 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3522—FARM MACHINERY AND EQUIPMENT

This industry comprises establishments primarily engaged in manufacturing farm machinery, including equipment and wheel tractors, for use in the preparation and maintenance of the soil; planting and harvesting of the crop; preparing, on the farm, crops for market; or for use in performing other farm operations and processes. This industry includes wheel tractors except contractors' off-highway type which are classified in industry 3531. Establishments primarily engaged in manufacturing industrial trucks, tractors, and trailers used for handling materials in industrial plants, depots, and docks are classified in industry 3537; and farm handtools in group 342. For a detailed list of products of industry 3522, refer to table 6A, product codes 3522281 to 3522898.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Farm Machinery and Equipment Industry totaled \$2,842 million. This amount included shipments of farm machinery and equipment (primary products) valued at \$2,412 million, shipments of other products (secondary products) valued at \$308 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$122 million.

This industry's shipments of farm machinery and equipment represented 89 percent of its total product shipments. The industry specialization ratio in 1958 was 90 percent. Secondary products shipped by this industry in 1963 include scrapers, graders, rollers, and off-highway trucks, trailers, and wagons, excluding parts (\$26 million), and other transportation equipment (\$25 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the

different product classes. The extent to this specialization is indicated in table 8. Approximately 32 percent of the total industry shipments are represented by plants specializing in wheel tractors and parts and attachments (except garden and contractors' off-highway); and 20 percent in harvesting machinery.

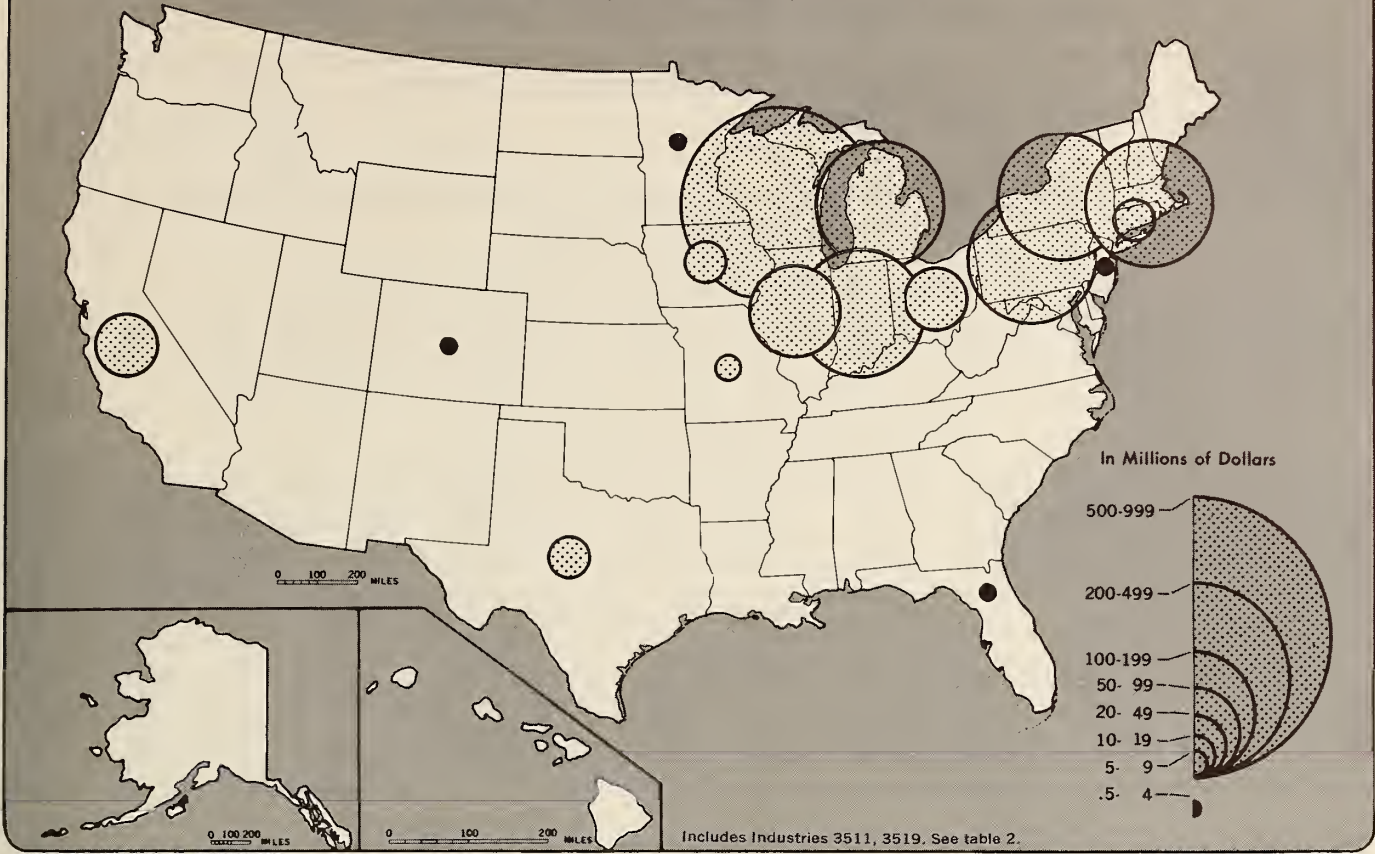
Shipments of farm machinery and equipment by this industry represented 95 percent of all shipments of these products (\$2,542 million) by all industries. In 1958 the coverage ratio was 94 percent. Other industries shipping farm machinery and equipment include industry 3717, Motor Vehicles and Parts, \$25 million; and industry 3531, Construction Machinery, over \$13 million.

Industry 3522 includes establishments producing a wide range of farm machinery and equipment including not only wheel tractors and equipment for raising and harvesting crops but also such other equipment as dairy equipment (milking machines, cream separators, etc.), poultry equipment (incubators, brooders, etc.), barn and barnyard equipment (barn cleaners, stock tanks, etc.), and machines for preparing crops for market (corn shellers, feed grinders, etc.).

Inasmuch as industry 3522 covers such a wide range of products, the operations of the plants classified in this industry differ in some respects. Those plants engaged in manufacturing wheel tractors and self-propelled equipment such as combines, corn pickers, hay balers, etc., and to a lesser extent those manufacturing equipment for mounting on tractors or to be drawn by tractors, include large assembly operations in addition to the processes and operations involved in manufacturing the component parts. Also included within this industry are plants whose operations are largely limited to metal fabricating such as those primarily engaged in producing cattle stalls, animal stock tanks, poultry brooders, etc.



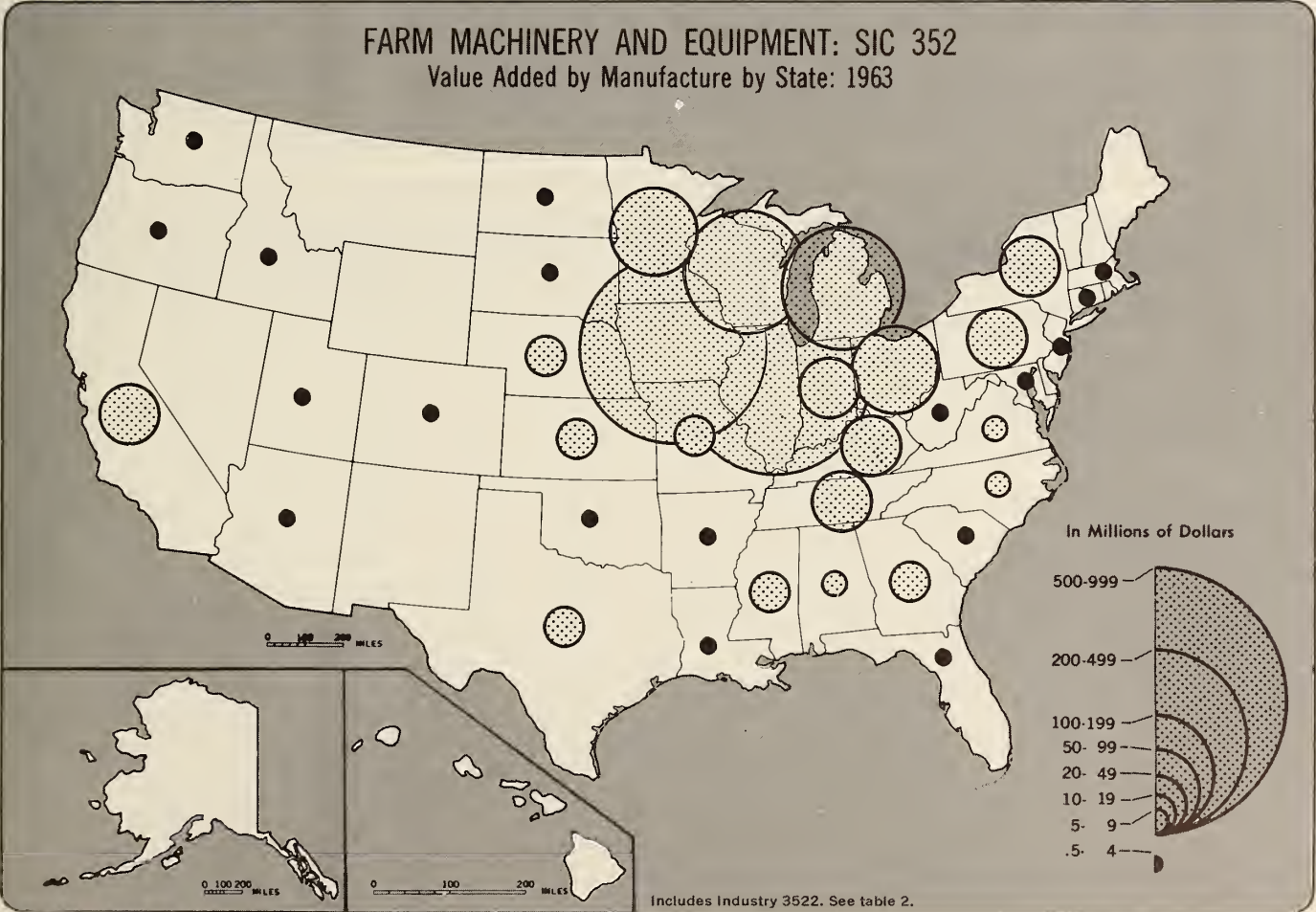
**ENGINES AND TURBINES: SIC 351**  
 Value Added by Manufacture by State: 1963



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

**FARM MACHINERY AND EQUIPMENT: SIC 352**  
 Value Added by Manufacture by State: 1963



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS





TABLE 1. General Statistics: 1963 and Earlier Years

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3511.—STEAM ENGINES AND TURBINES   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 17                         | 22                | 21   | 30,917            | 237,519              | 19,894             | 38,933               | 141,738            | 379,875  | 242,730                           | 616,416                            | 19,394  | 85  | 82                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 33,133            | 245,573              | 21,108             | 41,287               | 145,233            | 408,389  | 252,662                           | 657,723                            | 16,700  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 33,847            | 238,478              | 21,082             | 41,082               | 138,022            | 419,960  | 251,128                           | 695,956                            | 18,977  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 36,616            | 244,930              | 23,437             | 44,712               | 142,794            | 505,514  | 260,675                           | 758,280                            | 16,531  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 40,320            | 260,024              | 25,480             | 50,025               | 155,127            | 497,613  | 287,462                           | 813,957                            | 18,666  | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                     | 21                         | 28                | 25   | 45,347            | 274,589              | 29,319             | 57,791               | 172,091            | 568,643  | 361,126                           | 961,769                            | 20,492  | 78  | 94                                       |
| INDUSTRY 3519.—INTERNAL COMBUSTION ENGINES  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 120                        | 143               | 81   | 55,687            | 371,800              | 41,754             | 84,996               | 260,005            | 733,628  | 745,760                           | 1,473,574                          | 34,751  | 86  | 85                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 53,112            | 335,514              | 41,150             | 78,493               | 231,211            | 623,294  | 708,434                           | 1,316,936                          | 30,152  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 46,139            | 280,928              | 34,226             | 65,291               | 184,102            | 501,018  | 561,751                           | 1,079,955                          | 31,993  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 50,003            | 297,477              | 37,211             | 71,157               | 199,009            | 520,411  | 612,159                           | 1,158,550                          | 24,729  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 55,878            | 336,590              | 42,668             | 84,412               | 228,952            | 656,068  | 682,947                           | 1,296,850                          | 35,609  | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                     | 97                         | 113               | 76   | 52,004            | 286,816              | 42,607             | 72,564               | 190,997            | 520,443  | 552,327                           | 1,085,808                          | 50,628  | 90  | 82                                       |
| INDUSTRY 3522.—FARM MACHINERY AND EQUIPMENT |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 1,481                      | 1,568             | 558  | 112,614           | 689,122              | 84,650             | 168,911              | 476,827            | 1,328,381  | 1,536,761                         | 2,842,243                          | 64,431  | 89  | 95                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 106,222           | 618,178              | 77,139             | 151,709              | 413,012            | 1,205,892  | 1,335,014                         | 2,481,979                          | 42,999  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 102,538           | 579,271              | 76,371             | 150,710              | 382,040            | 1,057,083  | 1,251,580                         | 2,339,537                          | 45,946  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 99,115            | 540,245              | 71,110             | 141,666              | 355,533            | 941,021  | 1,162,115                         | 2,162,640                          | 55,636  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 113,153           | 617,791              | 84,803             | 167,685              | 423,986            | 1,172,210  | 1,450,737                         | 2,559,491                          | 42,824  | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                     | 1,389                      | 1,469             | 509  | 108,586           | 550,998              | 79,922             | 153,962              | 373,240            | 1,087,836  | 1,318,416                         | 2,421,873                          | 54,655  | 90  | 94                                       |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: **All employees:** For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** For 1947 and prior years figures represent an average of 12 monthly figures. **Value added:** Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. **Cost of materials:** Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. **Value of shipments:** Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>2</sup>A revision in the definition of this industry was made in the 1957 Standard Industrial Classification so that data for the industry are not available for earlier years.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                | 1963              |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  | 1958                      |   |
|---|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|---|--------------------------------|---------------------------------|--|---------------------------|---|
|   | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted<br>(\$1,000) | Cost of materials<br>(\$1,000) | Value of shipments<br>(\$1,000) | Capital expenditures, new<br>(\$1,000) | All employees<br>(number) | Value added by manufacture, adjusted<br>(\$1,000) |
|   | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                |                                 |  |                           |   |
| GROUP 351.—ENGINES AND TURBINES             |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                  | 165               | 102                                   | 86,604            | 609,319              | 61,648             | 123,929              | 401,743            | 1,113,503   | 988,490                        | 2,089,990                       | 54,145                                 | 97,351                    | 1,089,086   |
| New England.....                            | 14                | 10                                    | 9,858             | 71,270               | 6,695              | 13,126               | 45,427             | 119,489   | 60,584                         | 176,599                         | 6,202                                  | 9,378                     | 112,383   |
| Middle Atlantic.....                        | 25                | 15                                    | 23,849            | 180,900              | 16,482             | 33,015               | 115,866            | 307,799   | 213,382                        | 515,824                         | 15,317                                 | 32,420                    | 414,659   |
| New Jersey.....                             | 8                 | 3                                     | 220               | 992                  | 196                | 389                  | 817                | 1,003   | 2,920                          | 3,883                           | 116                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| East North Central..                        | 67                | 52                                    | 46,798            | 314,627              | 34,509             | 69,614               | 216,122            | 618,051   | 656,606                        | 1,271,262                       | 30,392                                 | 47,827                    | 479,618   |
| Illinois.....                               | 9                 | 8                                     | 8,551             | 59,721               | 5,760              | 11,040               | 37,572             | 97,348  | 114,743                        | 208,094                         | (D)                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Michigan.....                               | 22                | 16                                    | 12,747            | 90,964               | 9,451              | 19,537               | 63,938             | 182,971   | 239,828                        | 431,471                         | (D)                                    | 13,088                    | 131,314   |
| Wisconsin.....                              | 22                | 20                                    | 17,224            | 107,934              | 13,205             | 26,444               | 77,124             | 200,678   | 194,244                        | 391,725                         | 6,570                                  | 18,218                    | 183,373   |
| West North Central..                        | 17                | 10                                    | 2,452             | 15,032               | 1,647              | 3,197                | 9,193              | 19,984  | 17,520                         | 40,112                          | 734                                    | 3,166                     | 26,711  |
| South.....                                  | 16                | 5                                     | 617               | 3,929                | 495                | 1,226                | 2,717              | 11,917  | 14,870                         | 24,632                          | 238                                    | 214                       | 1,536   |
| West.....                                   | 26                | 10                                    | 3,030             | 23,561               | 1,820              | 3,751                | 12,418             | 36,263  | 25,528                         | 61,561                          | 1,262                                  | 4,346                     | 54,179  |
| INDUSTRY 3511.—STEAM ENGINES AND TURBINES   |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                  | 22                | 21                                    | 30,917            | 237,519              | 19,894             | 38,933               | 141,738            | 379,875   | 242,730                        | 616,416                         | 19,394                                 | 45,347                    | 568,643   |
| Connecticut.....                            | 3                 | 3                                     | 381               | 2,384                | 262                | 559                  | 1,441              | 4,928   | 2,534                          | 7,651                           | 92                                     | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| All other states....                        | 19                | 18                                    | 30,536            | 235,135              | 19,632             | 38,374               | 140,297            | 374,947   | 240,196                        | 608,765                         | 19,302                                 | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| INDUSTRY 3519.—INTERNAL COMBUSTION ENGINES  |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                  | 143               | 81                                    | 55,687            | 371,800              | 41,754             | 84,996               | 260,005            | 733,628   | 745,760                        | 1,473,574                       | 34,751                                 | 52,004                    | 520,443   |
| New Jersey.....                             | 8                 | 3                                     | 220               | 992                  | 196                | 389                  | 817                | 1,003   | 2,920                          | 3,883                           | 116                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Illinois.....                               | 9                 | 8                                     | 8,551             | 59,721               | 5,760              | 11,040               | 37,572             | 97,348  | 114,743                        | 208,094                         | (D)                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Michigan.....                               | 22                | 16                                    | 12,747            | 90,964               | 9,451              | 19,537               | 63,938             | 182,971   | 239,828                        | 431,471                         | (D)                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| California.....                             | 19                | 6                                     | 727               | 5,814                | 456                | 948                  | 3,138              | 13,036  | 11,208                         | 23,269                          | 465                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| All other states....                        | 85                | 48                                    | 33,442            | 214,309              | 25,891             | 53,082               | 154,540            | 439,270   | 377,061                        | 806,857                         | 21,416                                 | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| INDUSTRY 3522.—FARM MACHINERY AND EQUIPMENT |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                  | 1,568             | 558                                   | 112,614           | 689,122              | 84,650             | 168,911              | 476,827            | 1,328,381   | 1,536,761                      | 2,842,243                       | 64,431                                 | 108,586                   | 1,087,836   |
| New England.....                            | 28                | 2                                     | 190               | 1,053                | 144                | 300                  | 715                | 2,042   | 1,882                          | 3,914                           | 50                                     | 287                       | 2,638   |
| Middle Atlantic.....                        | 83                | 33                                    | 5,090             | 31,765               | 3,174              | 6,801                | 16,951             | 70,229  | 59,132                         | 130,080                         | 4,358                                  | 6,780                     | 72,355  |
| New Jersey.....                             | 12                | 4                                     | 198               | 1,078                | 154                | 335                  | 786                | 1,800   | 2,051                          | 3,769                           | 50                                     | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| East North Central..                        | 407               | 196                                   | 52,899            | 335,780              | 39,483             | 79,193               | 232,795            | 645,883   | 790,526                        | 1,416,215                       | 31,441                                 | 55,944                    | 584,379   |
| Ohio.....                                   | 73                | 33                                    | 6,400             | 36,238               | 5,140              | 10,363               | 27,285             | 64,312  | 101,295                        | 163,192                         | 2,025                                  | 5,273                     | 45,043  |
| Indiana.....                                | 65                | 36                                    | 5,222             | 28,717               | 3,783              | 7,264                | 18,201             | 49,001  | 69,065                         | 116,032                         | 1,303                                  | 4,850                     | 44,014  |
| Illinois.....                               | 110               | 62                                    | 23,567            | 156,967              | 17,972             | 35,366               | 111,895            | 287,674   | 325,843                        | 607,160                         | 20,754                                 | 26,730                    | 285,018   |
| Michigan.....                               | 67                | 26                                    | 5,230             | 34,918               | 3,975              | 8,560                | 24,445             | 104,088   | 140,292                        | 238,058                         | 1,773                                  | 4,786                     | 78,642  |
| Wisconsin.....                              | 92                | 39                                    | 12,480            | 78,940               | 8,613              | 17,640               | 50,969             | 140,808   | 154,031                        | 291,773                         | 5,586                                  | 14,305                    | 131,662   |
| West North Central..                        | 414               | 159                                   | 33,252            | 205,624              | 25,421             | 49,980               | 147,048            | 404,450   | 433,200                        | 837,154                         | 19,418                                 | 29,186                    | 293,825   |
| Minnesota.....                              | 85                | 39                                    | 5,476             | 29,446               | 4,207              | 8,142                | 20,720             | 61,794  | 71,741                         | 134,071                         | 2,160                                  | 4,404                     | 45,082  |
| Iowa.....                                   | 119               | 55                                    | 21,605            | 146,413              | 16,812             | 32,499               | 106,272            | 286,500   | 281,334                        | 559,662                         | 14,590                                 | 18,888                    | 190,287   |
| Missouri.....                               | 42                | 11                                    | 2,080             | 10,797               | 1,421              | 3,048                | 8,061              | 15,160  | 35,389                         | 57,303                          | 1,003                                  | 1,922                     | 21,630  |
| North Dakota.....                           | 14                | 3                                     | 350               | 1,587                | 278                | 579                  | 1,067              | 2,614   | 4,026                          | 7,132                           | 159                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| South Dakota.....                           | 12                | 3                                     | 192               | 866                  | 135                | 264                  | 535                | 2,212   | 2,045                          | 4,308                           | 82                                     | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Nebraska.....                               | 58                | 20                                    | 1,582             | 7,182                | 1,191              | 2,433                | 4,654              | 17,308  | 18,480                         | 36,295                          | 439                                    | 1,661                     | 14,445  |
| Kansas.....                                 | 84                | 28                                    | 1,967             | 9,333                | 1,377              | 3,015                | 5,739              | 18,862  | 20,185                         | 38,383                          | 985                                    | 1,953                     | 19,215  |
| South Atlantic.....                         | 121               | 42                                    | 4,456             | 19,297               | 3,493              | 6,942                | 12,089             | 38,282  | 49,050                         | 85,996                          | 1,793                                  | 3,180                     | 22,341  |
| Virginia.....                               | 12                | 7                                     | 527               | 2,209                | 460                | 990                  | 1,681              | 5,403   | 3,519                          | 8,067                           | 297                                    | 282                       | 1,985   |
| North Carolina....                          | 26                | 11                                    | 1,299             | 5,287                | 1,109              | 2,219                | 3,230              | 8,669   | 11,506                         | 20,504                          | 297                                    | 849                       | 5,043   |
| Georgia.....                                | 30                | 13                                    | 1,653             | 7,322                | 1,210              | 2,348                | 4,265              | 14,119  | 21,523                         | 35,643                          | 658                                    | 1,304                     | 8,809   |
| Florida.....                                | 41                | 6                                     | 426               | 1,955                | 300                | 589                  | 1,177              | 4,189   | 5,880                          | 9,999                           | 200                                    | 260                       | 2,113   |
| East South Central..                        | 66                | 29                                    | 9,222             | 55,263               | 7,361              | 14,146               | 40,508             | 92,346  | 118,842                        | 211,720                         | 4,221                                  | 6,876                     | 62,006  |
| Tennessee.....                              | 19                | 6                                     | 2,738             | 18,988               | 2,000              | 3,873                | 12,881             | 36,244  | 25,591                         | 63,554                          | (D)                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Alabama.....                                | 19                | 9                                     | 898               | 3,881                | 718                | 1,393                | 3,993              | 9,003   | 11,488                         | 20,125                          | 432                                    | 587                       | 4,009   |
| West South Central..                        | 122               | 38                                    | 2,596             | 11,784               | 1,834              | 3,906                | 7,462              | 22,881  | 28,447                         | 50,277                          | 962                                    | 2,087                     | 13,733  |
| Arkansas.....                               | 15                | 7                                     | 284               | 1,224                | 231                | 476                  | 862                | 2,580   | 2,609                          | 5,129                           | (D)                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Louisiana.....                              | 11                | 4                                     | 515               | 2,407                | 315                | 799                  | 1,557              | 3,986   | 7,731                          | 11,131                          | 203                                    | 305                       | 2,123   |
| Oklahoma.....                               | 16                | 6                                     | 369               | 1,899                | 290                | 576                  | 1,247              | 3,383   | 3,612                          | 7,001                           | 280                                    | 263                       | 1,644   |
| Texas.....                                  | 80                | 21                                    | 1,428             | 6,254                | 978                | 2,055                | 3,796              | 12,932  | 14,495                         | 26,834                          | (D)                                    | 1,473                     | 9,712   |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                          | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3522.—FARM MACHINERY AND EQUIPMENT—Continued |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Mountain.....   | 84             | 12                                 | 1,116          | 6,037             | 901                | 1,873             | 4,324           | 10,347                               | 11,821            | 22,441             | 625                       | 763              | 6,406                                |
| Idaho.....  | 31             | 3                                  | 303            | 1,579             | 250                | 534               | 1,233           | 2,428                                | 3,445             | 6,025              | 87                        | 237              | 1,686                                |
| Colorado.....   | 27             | 5                                  | 425            | 2,401             | 327                | 673               | 1,525           | 4,838                                | 3,621             | 8,501              | 168                       | 320              | 3,374                                |
| Arizona.....  | 11             | 2                                  | 203            | 1,201             | 164                | 334               | 865             | 1,784                                | 3,446             | 5,272              | 287                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Utah.....   | 4              | 2                                  | 139            | 621               | 124                | 260               | 519             | 951                                  | 758               | 1,668              | 39                        | 112              | 624                                  |
| Pacific.....  | 243            | 47                                 | 3,793          | 22,519            | 2,839              | 5,770             | 14,935          | 41,921                               | 43,861            | 84,446             | 1,563                     | 3,483            | 30,153                               |
| Washington.....                                       | 29             | 6                                  | 341            | 1,886             | 269                | 542               | 1,331           | 3,374                                | 3,929             | 7,174              | 131                       | 322              | 2,430                                |
| California.....                                       | 194            | 34                                 | 3,122          | 18,670            | 2,303              | 4,660             | 12,165          | 34,979                               | 36,635            | 70,166             | 1,367                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State. SIC 351-, Engines and Turbines, total: New England—New Hampshire, 1 (1-19); Massachusetts, 6 (8,198); Rhode Island, 1 (1-19); Connecticut, 6 (1,000-2,499); Middle Atlantic—New York, 10 (7,551); Pennsylvania, 8 (16,078); East North Central—Ohio, 8 (2,282); Indiana, 6 (5,994); West North Central—Minnesota, 6 (693); Iowa, 5 (1,000-2,499); Missouri, 6 (250-499); South Atlantic—North Carolina, 1 (1-19); Georgia, 2 (1-19); Florida, 6 (20-99); East South Central—Tennessee, 1 (1-19); West South Central—Louisiana, 1 (20-99); Oklahoma, 1 (1-19); Texas, 4 (465); Mountain—Colorado, 1 (100-249); Pacific—Washington, 3 (20-99); Oregon, 1 (20-99); California, 21 (2,500-4,999).

SIC 3511, Steam Engines and Turbines: New England—Massachusetts, 4 (5,000-9,999); Middle Atlantic—New York, 3 (6,246); Pennsylvania, 6 (10,000 and over); East North Central—Ohio, 1 (20-99); Wisconsin, 1 (1,000-2,499); West North Central—Iowa, 1 (100-249); South Atlantic—Florida, 1 (20-99); Pacific—California, 2 (1,000-2,499);

SIC 3519, Internal Combustion Engines: New England—New Hampshire, 1 (1-19); Massachusetts, 2 (1,000-2,499); Rhode Island, 1 (1-19); Connecticut, 3 (1,000-2,499); Middle Atlantic—New York, 6 (1,305); Pennsylvania, 2 (1,000-2,499); East North Central—Ohio, 7 (1,000-2,499); Indiana, 6 (5,994); Wisconsin, 21 (10,000 and over); West North Central—Minnesota, 6 (693); Iowa, 4 (1,000-2,499); Missouri, 6 (250-499); South Atlantic—North Carolina, 1 (1-19); Georgia, 2 (1-19); Florida, 5 (20-99); East South Central—Tennessee, 1 (1-19); West South Central—Louisiana, 1 (20-99); Oklahoma, 1 (1-19); Texas, 4 (465); Mountain—Colorado, 1 (100-249); Pacific—Washington, 3 (20-99); Oregon, 1 (20-99).

SIC 3522, Farm Machinery and Equipment: New England—Maine, 8 (20-99); New Hampshire, 1 (1-19); Vermont, 4 (20-99); Massachusetts, 7 (20-99); Rhode Island, 1 (1-19); Connecticut, 7 (20-99); Middle Atlantic—New York, 36 (1,940); Pennsylvania, 35 (2,952); South Atlantic—Delaware, 2 (20-99); Maryland, 2 (20-99); West Virginia, 1 (250-499); South Carolina, 7 (100); East South Central—Kentucky, 11 (4,090); Mountain—Montana, 8 (20-99); New Mexico, 3 (1-19); Pacific—Oregon, 19 (250-499); Hawaii, 1 (20-99);

<sup>2</sup>This State or region was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.

TABLE 3. Detailed Statistics: 1963

| Item   | Steam engines and turbines (SIC 3511) | Internal combustion engines (SIC 3519) | Farm machinery and equipment (SIC 3522) |
|--|---------------------------------------|--|---|
| Primary product specialization ratio <sup>1</sup> .....      | .85                                   | .86                                    | .89                                     |
| Coverage ratio <sup>2</sup> .....                            | .82                                   | .85                                    | .95                                     |
| Establishments, total.....number..                           | 22                                    | 143                                    | 1,568                                   |
| With 1 to 19 employees.....do..                              | 1                                     | 62                                     | 1,010                                   |
| With 20 to 99 employees.....do..                             | 5                                     | 27                                     | 407                                     |
| With 100 employees or more.....do..                          | 16                                    | 54                                     | 151                                     |
| Proprietors and working partners.....number..                | 0                                     | 28                                     | 706                                     |
| All employees (average for the year).....do..                | 30,917                                | 55,687                                 | 112,614                                 |
| Payroll (all employees), total for year.....\$1,000..        | 237,519                               | 371,800                                | 689,122                                 |
| Production workers:  |                                       |  |   |
| Average for the year.....number..                            | 19,894                                | 41,754                                 | 84,650                                  |
| March.....do..   | 19,729                                | 42,230                                 | 88,592                                  |
| May.....do..   | 19,826                                | 40,935                                 | 86,961                                  |
| August.....do..  | 20,055                                | 41,989                                 | 84,720                                  |
| November.....do..  | 19,965                                | 41,862                                 | 82,327                                  |
| Man-hours.....1,000..  | 38,933                                | 84,996                                 | 168,911                                 |
| January-March.....do..                                       | 9,834                                 | 21,916                                 | 44,683                                  |
| April-June.....do..  | 9,572                                 | 21,542                                 | 44,277                                  |
| July-September.....do..                                      | 9,362                                 | 20,015                                 | 38,476                                  |
| October-December.....do..                                    | 10,165                                | 21,523                                 | 41,475                                  |
| Wages.....\$1,000..  | 141,738                               | 260,005                                | 476,827                                 |
| Cost of materials, etc., total.....do..                      | 242,730                               | 745,760                                | 1,536,761                               |
| Materials, parts, containers, and supplies consumed.....do.. | 219,101                               | 694,115                                | 1,426,108                               |
| Cost of resales.....do..                                     | 6,957                                 | 35,614                                 | 72,001                                  |
| Fuels consumed.....do..                                      | 6,006                                 | 4,882                                  | 14,380                                  |
| Electric energy:   |                                       |  |   |
| Purchased:   |                                       |  |   |
| Quantity.....million kw.-hrs..                               | 309                                   | 527                                    | 735                                     |
| Cost.....\$1,000..   | 3,278                                 | 6,434                                  | 10,387                                  |
| Generated less sold.....million kw.-hrs..                    | 140                                   | 70                                     | 550                                     |
| Contract work.....\$1,000..                                  | 7,388                                 | 4,715                                  | 13,885                                  |
| Value of shipments (including resales), total.....do..       | 616,416                               | 1,473,574                              | 2,842,243                               |
| Value of resales.....do..                                    | 7,825                                 | 50,205                                 | 89,619                                  |
| Value added by manufacture, adjusted.....do..                | 379,875                               | 733,628                                | 1,328,381                               |
| Manufacturers' inventories:                                  |                                       |  |   |
| Beginning of year, total.....do..                            | 172,965                               | 272,176                                | 633,879                                 |
| Finished products.....do..                                   | 10,125                                | 71,139                                 | 253,194                                 |
| Work-in-process.....do..                                     | 130,529                               | 150,151                                | 197,930                                 |
| Materials, supplies, fuel, etc.....do..                      | 32,311                                | 50,886                                 | 182,755                                 |
| End of year, total.....do..                                  | 176,156                               | 279,271                                | 669,266                                 |
| Finished products.....do..                                   | 9,702                                 | 66,558                                 | 267,168                                 |
| Work-in-process.....do..                                     | 137,141                               | 160,546                                | 206,855                                 |
| Materials, supplies, fuel, etc.....do..                      | 29,313                                | 52,167                                 | 195,243                                 |
| Expenditures for plant and equipment, total.....do..         | 19,731                                | 37,590                                 | 68,379                                  |
| New, total.....do..  | 19,394                                | 34,751                                 | 64,431                                  |
| New structures and additions to plant.....do..               | 1,671                                 | 6,268                                  | 17,006                                  |
| New machinery and equipment.....do..                         | 17,723                                | 28,483                                 | 47,425                                  |
| Used plant and equipment.....do..                            | 337                                   | 2,839                                  | 3,948                                   |
| Selected operating ratios:                                   |                                       |  |   |
| Payroll/Total employment.....                                | 7,683                                 | 6,677                                  | 6,119                                   |
| Production workers/Total employment.....                     | .64                                   | .75                                    | .75                                     |
| Man-hours/Production workers.....                            | 1,957                                 | 2,036                                  | 1,995                                   |
| Production worker wages/Man-hours.....                       | 3.64                                  | 3.06                                   | 3.82                                    |
| Cost of materials and payrolls/Total value of shipments..... | .78                                   | .76                                    | .79                                     |
| Cost of materials/Total value of shipments.....              | .39                                   | .51                                    | .55                                     |
| Adjusted value added/Total employment.....                   | 12,287                                | 13,174                                 | 11,796                                  |
| Salaries and wages/Adjusted value added.....                 | .63                                   | .51                                    | .52                                     |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item   | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3511.--STEAM ENGINES AND TURBINES   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                  | 22                    | -                                  | -                | 1                  | -                  | 5                  | 4                    | 1                    | 2                    | 5                        | 4                        |
| All employees:                               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                             | 30,917                | -                                  | -                | 408                | -                  | (D)                | 2,148                | (D)                  | (D)                  | 28,361                   | (D)                      |
| Payroll.....\$1,000..                        | 237,519               | -                                  | -                | 2,420              | -                  | (D)                | 13,298               | (D)                  | (D)                  | 221,801                  | (D)                      |
| Value added, adjusted.....do....             | 379,875               | -                                  | -                | 3,439              | -                  | (D)                | 23,004               | (D)                  | (D)                  | 353,432                  | (D)                      |
| Value of shipments.....do....                | 616,416               | -                                  | -                | 6,202              | -                  | (D)                | 41,743               | (D)                  | (D)                  | 568,471                  | (D)                      |
| Capital expenditures, new...do....           | 19,394                | -                                  | -                | 50                 | -                  | (D)                | 891                  | (D)                  | (D)                  | 18,453                   | (D)                      |
| INDUSTRY 3519.--INTERNAL COMBUSTION ENGINES  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                  | 143                   | 35                                 | 11               | 16                 | 18                 | 9                  | 17                   | 10                   | 7                    | 15                       | 5                        |
| All employees:                               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                             | 55,687                | 62                                 | 78               | 238                | 555                | 641                | 2,743                | 4,144                | 5,405                | 21,868                   | 19,953                   |
| Payroll.....\$1,000..                        | 371,800               | 465                                | 326              | 1,257              | 3,392              | 3,420              | 18,014               | 26,121               | 32,212               | 147,545                  | 139,048                  |
| Value added, adjusted.....do....             | 733,628               | 822                                | 637              | 1,863              | 5,273              | 8,916              | 30,536               | 61,058               | 54,519               | 273,002                  | 297,002                  |
| Value of shipments.....do....                | 1,473,574             | 1,411                              | 1,171            | 3,644              | 10,619             | 21,488             | 69,000               | 140,107              | 126,875              | 518,417                  | 580,842                  |
| Capital expenditures, new...do....           | 34,751                | 25                                 | 37               | 80                 | 235                | 313                | 1,163                | 2,166                | 3,043                | 13,210                   | 14,479                   |
| INDUSTRY 3522.--FARM MACHINERY AND EQUIPMENT |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                  | 1,568                 | 526                                | 237              | 247                | 264                | 143                | 80                   | 30                   | 21                   | 12                       | 8                        |
| All employees:                               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                             | 112,614               | 833                                | 1,606            | 3,415              | 8,007              | 10,050             | 12,829               | 10,283               | 15,987               | 19,509                   | 30,095                   |
| Payroll.....\$1,000..                        | 689,122               | 4,068                              | 7,220            | 15,966             | 40,222             | 50,445             | 67,024               | 60,266               | 102,133              | 132,006                  | 209,772                  |
| Value added, adjusted.....do....             | 1,328,381             | 6,017                              | 13,754           | 30,197             | 84,467             | 107,077            | 142,100              | 112,768              | 229,639              | 232,051                  | 370,311                  |
| Value of shipments.....do....                | 2,842,243             | 20,808                             | 30,248           | 64,392             | 175,525            | 222,654            | 310,993              | 271,393              | 473,475              | 499,359                  | 773,396                  |
| Capital expenditures, new...do....           | 64,431                | 4,310                              | 739              | 1,424              | 3,661              | 4,011              | 5,537                | 4,216                | 7,045                | 7,287                    | 26,201                   |

- Represents zero.  
 (D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.  
<sup>1</sup>Includes capital expenditures of approximately \$2-\$5 million for plants under construction but not in operation.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|---|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |   | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |   | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |   | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3511      | Steam engines and turbines.....1963..   | 616,416            | 485,475          | 87,703             | 43,238                 | 85                                   | 589,101                            | 485,475               | 103,626                  | 82                            |
|           | 1958..                                  | 961,769            | 705,567          | 198,039            | 58,163                 | 78                                   | 753,988                            | 705,567               | 48,421                   | 94                            |
| 3519      | Internal combustion engines.....1963..  | 1,473,574          | 1,210,332        | 196,901            | 66,341                 | 86                                   | 1,423,926                          | 1,210,332             | 213,594                  | 85                            |
|           | 1958..                                  | 1,085,808          | 937,775          | 99,924             | 48,109                 | 90                                   | 1,132,041                          | 937,775               | 194,266                  | 82                            |
| 3522      | Farm machinery and equipment.....1963.. | 2,842,243          | 2,412,390        | 307,867            | 121,986                | 89                                   | 2,542,109                          | 2,412,390             | 129,719                  | 95                            |
|           | 1958..                                  | 2,421,873          | 2,046,306        | 220,467            | 155,100                | 90                                   | 2,172,558                          | 2,046,306             | 126,252                  | 94                            |

Note: See Introduction for an explanation of terms used.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars except for ranges (shown in parentheses) which are expressed in millions of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous

receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                            | Class of products and miscellaneous receipts  | All industries | Steam engines and turbines (SIC 3511)  | Other industries |
|---|---|----------------|--|------------------|
| <b>STEAM ENGINES AND TURBINES INDUSTRY</b>  |   |                |  |                  |
|   | Total shipments and receipts of the industry.....   | (X)            | 616,416                                | (X)              |
|   | Primary products, total.....  | 589,101        | 485,475                                | 103,626          |
| 35111                                       | Steam, gas, and hydraulic generator set units and parts.....  | (D)            | (D)                                    | (D)              |
| 35112                                       | Steam, gas, and hydraulic turbines and parts; steam engines and parts.....                                | (D)            | (D)                                    | (D)              |
|   | Secondary products, total.....  | (X)            | 87,703                                 | (X)              |
| 34431                                       | Heat exchangers and steam condensers.....   | (X)            | (10-20)                                | (X)              |
| 34941                                       | Metal valves for piping systems (except plumbing and heating valves).....                                 | (X)            | (2-5)                                  | (X)              |
| 35197                                       | Parts and accessories for internal combustion engines.....  | (X)            | (over 2)                               | (X)              |
| 35614                                       | Air and gas compressors, except refrigeration compressors.....  | (X)            | (over 2)                               | (X)              |
| 35662                                       | Speed changers, industrial high speed drives and gears.....   | (X)            | (5-10)                                 | (X)              |
| 36212                                       | Integral horsepower motors and generators, except land transportation.....                                | (X)            | (over 2)                               | (X)              |
| 36215                                       | Motor generator sets and other rotating equipment.....  | (X)            | (over 2)                               | (X)              |
| 36216                                       | Parts and supplies for motors, generators, and motor generator sets, except land transportation.....      | (X)            | (2-5)                                  | (X)              |
| 37224                                       | Aircraft engine parts and accessories.....  | (X)            | (over 2)                               | (X)              |
| 37291                                       | Other aircraft parts and auxiliary equipment.....   | (X)            | (over 2)                               | (X)              |
|   | Miscellaneous receipts, total.....  | (X)            | 43,238                                 | (X)              |
|   | Contract and commission work.....   | (X)            | 4,909                                  | (X)              |
|   | Sales of products bought and resold.....  | (X)            | 7,825                                  | (X)              |
|   | Iron and steel production scrap.....  | (X)            | 724                                    | (X)              |
|   | Receipts for installation.....  | (X)            | 2,676                                  | (X)              |
|   | Receipts for research and development work.....   | (X)            | 949                                    | (X)              |
|   | Receipts for repair work.....   | (X)            | 16,215                                 | (X)              |
|   | Other miscellaneous receipts.....   | (X)            | 9,940                                  | (X)              |
|   | Listing of other industries with over \$2 million shipment:   |                |  |                  |
| 3511-                                       | 1999 Ordnance and accessories, n.e.c.....   | (X)            | (X)                                    | (over 2)         |
|   | 3561 Pumps and compressors.....   | (X)            | (X)                                    | (10-20)          |
|   | 3621 Motors and generators.....   | (X)            | (X)                                    | (over 2)         |
|   | 3722 Aircraft engines and parts.....  | (X)            | (X)                                    | 42,755           |
|   | 3729 Aircraft equipment, n.e.c.....   | (X)            | (X)                                    | (5-10)           |
|   | 3731 Ship building and repairing.....   | (X)            | (X)                                    | (2-5)            |
|   |   | All industries | Internal combustion engines (SIC 3519) | Other industries |
| <b>INTERNAL COMBUSTION ENGINES INDUSTRY</b> |   |                |  |                  |
|   | Total shipments and receipts of the industry.....   | (X)            | 1,473,574                              | (X)              |
|   | Primary products, total.....  | 1,423,926      | 1,210,332                              | 213,594          |
| 35191                                       | Gasoline engines, except outboard, aircraft, and automotive engines.....                                  | 270,108        | 238,464                                | 31,644           |
| 35192                                       | Diesel and semidiesel engines.....  | 464,428        | 409,292                                | 55,136           |
| 35193                                       | Gas engines (except gas turbines).....  | 22,088         | 10,331                                 | 11,757           |
| 35195                                       | Outboard motors.....  | 183,767        | 157,248                                | 26,519           |
| 35196                                       | Other internal combustion engines (including converted engines and tank engines).....                     | 480,602        | 392,351                                | 88,251           |
| 35197                                       | Parts and accessories for internal combustion engines.....  | 2,933          | 2,646                                  | 287              |
| 35190                                       | Internal combustion engines, n.s.k.....   |                |  |                  |
|   | Secondary products, total.....  | (X)            | 196,901                                | (X)              |
| 33214                                       | All other gray iron castings.....   | (X)            | 2,149                                  | (X)              |
| 36214                                       | Prime mover generator sets, except steam or hydraulic turbine.....  | (X)            | 38,023                                 | (X)              |
| 37175                                       | Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufacturers..... | (X)            | 39,885                                 | (X)              |
|   | Other secondary products.....   | (X)            | 116,844                                | (X)              |
| 19990                                       | Ordnance and accessories, n.e.c.....  | (X)            | (over 2)                               | (X)              |
| 34431                                       | Heat exchangers and steam condensers.....   | (X)            | (2-5)                                  | (X)              |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963—Continued

| Prod. class code  | Class of products and miscellaneous receipts  | All industries | Internal combustion engines (SIC 3519)  | Other industries |
|---|---|----------------|---|------------------|
| INTERNAL COMBUSTION ENGINES INDUSTRY—Continued  |   |                |   |                  |
| Secondary products—continued  |   |                |   |                  |
| Other secondary products—continued  |   |                |   |                  |
| 34510   | Screw machine products.....   | (X)            | (over 2)                                | (X)              |
| 35313   | Parts and attachments for tracklaying and contractors' off-highway wheel tractors.....                          | (X)            | (2-5)                                   | (X)              |
| 35370   | Industrial trucks and tractors.....   | (X)            | (over 2)                                | (X)              |
| 35614   | Air and gas compressors, except refrigeration compressors.....  | (X)            | (10-20)                                 | (X)              |
| 35616   | Parts and attachments for pumps, air and gas compressors, and pumping equipment.....                            | (X)            | (over 2)                                | (X)              |
| 37176   | Parts and accessories for passenger cars, trucks, and busses, shipped to other motor vehicle manufacturers..... | (X)            | (5-10)                                  | (X)              |
| 37177   | Rebuilt automotive parts, excluding carburetors.....  | (X)            | (10-20)                                 | (X)              |
| 37222   | Aircraft engines for other than U.S. military customers.....  | (X)            | (over 2)                                | (X)              |
| 37224   | Aircraft engine parts and accessories.....  | (X)            | (5-10)                                  | (X)              |
| 37413   | Parts for locomotives, for sale separately, and rebuilt locomotives.....  | (X)            | (over 2)                                | (X)              |
|   | Miscellaneous receipts, total.....  | (X)            | 66,341                                  | (X)              |
|   | Contract and commission work.....   | (X)            | 5,338                                   | (X)              |
|   | Sales of products bought and resold.....  | (X)            | 50,205                                  | (X)              |
|   | Scrap and salable refuse.....   | (X)            | 2,635                                   | (X)              |
|   | Research and development.....   | (X)            | 2,969                                   | (X)              |
|   | Other.....  | (X)            | 5,194                                   | (X)              |
| Listing of other industries with over \$2 million shipments of the primary product classes: |   |                |   |                  |
| 35191   | 3522 Farm machinery and equipment.....  | (X)            | (X)                                     | 17,939           |
|   | 3621 Motors and generators.....   | (X)            | (X)                                     | (2-5)            |
|   | 3717 Motor vehicles and parts.....  | (X)            | (X)                                     | 8,763            |
| 35192   | 3522 Farm machinery and equipment.....  | (X)            | (X)                                     | (2-5)            |
|   | 3531 Construction machinery.....  | (X)            | (X)                                     | (over 2)         |
|   | 3741 Locomotives and parts.....   | (X)            | (X)                                     | (over 2)         |
| 35193   | 3561 Pumps and compressors.....   | (X)            | (X)                                     | 7,177            |
| 35195   | 3553 Woodworking machinery.....   | (X)            | (X)                                     | (5-10)           |
| 35196   | 3621 Motors and generators.....   | (X)            | (X)                                     | (over 2)         |
|   | 3722 Aircraft engines and parts.....  | (X)            | (X)                                     | (over 2)         |
| 35197   | 3321 Gray iron foundries.....   | (X)            | (X)                                     | (over 2)         |
|   | 3511 Steam engines and turbines.....  | (X)            | (X)                                     | (over 2)         |
|   | 3522 Farm machinery and equipment.....  | (X)            | (X)                                     | (2-5)            |
|   | 3531 Construction machinery.....  | (X)            | (X)                                     | (over 2)         |
|   | 3532 Mining machinery and equipment.....  | (X)            | (X)                                     | (over 2)         |
|   | 3553 Woodworking machinery.....   | (X)            | (X)                                     | (2-5)            |
|   | 3561 Pumps and compressors.....   | (X)            | (X)                                     | 2,420            |
|   | 3679 Electronic components, n.e.c.....  | (X)            | (X)                                     | (over 2)         |
|   | 3717 Motor vehicles and parts.....  | (X)            | (X)                                     | 10,289           |
|   | 3722 Aircraft engines and parts.....  | (X)            | (X)                                     | 10,885           |
|   | 3741 Locomotives and parts.....   | (X)            | (X)                                     | (over 2)         |
|   |   | All industries | Farm machinery and equipment (SIC 3522) | Other industries |
| FARM MACHINERY AND EQUIPMENT INDUSTRY   |   |                |   |                  |
|   | Total shipments and receipts of the industry.....   | (X)            | 2,842,243                               | (X)              |
|   | Primary products.....   | 2,542,109      | 2,412,390                               | 129,719          |
| 35222   | Wheel tractors and parts and attachments (except garden and contractors off-highway).....                       | 808,396        | 766,523                                 | 41,873           |
| 35223   | Planting, seeding, and fertilizing machinery and parts.....   | 115,720        | 112,125                                 | 3,595            |
| 35224   | Plows, listers, harrows, rollers, pulverizers, and stalk cutters, and parts.....                                | 192,837        | 188,868                                 | 3,969            |
| 35225   | Harvesting machinery, and parts.....  | 395,299        | 390,247                                 | 5,052            |
| 35226   | Haying machinery and parts.....   | 133,804        | 132,836                                 | 968              |
| 35227   | Lawn mowers and parts.....  | 268,661        | 245,108                                 | 23,553           |
| 35228   | All other farm machinery and equipment.....   | 555,934        | 505,868                                 | 50,066           |
| 35220   | Farm machinery and equipment, n.s.k.....  | 71,458         | 70,815                                  | 643              |
|   | Secondary products.....   | (X)            | 307,867                                 | (X)              |
| 33214   | All other gray iron castings.....   | (X)            | 20,892                                  | (X)              |
| 35191   | Gasoline engines, except outboard, aircraft, and automotive engines.....  | (X)            | 17,939                                  | (X)              |
| 35311   | Contractors' off-highway wheel tractors, except parts and attachments.....                                      | (X)            | 4,622                                   | (X)              |
| 35313   | Parts and attachments for tracklaying and contractors' off-highway wheel tractors.....                          | (X)            | 11,129                                  | (X)              |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code  | Class of products and miscellaneous receipts  | All industries | Farm machinery and equipment (SIC 3522) | Other industries |
|---|---|----------------|---|------------------|
| FARM MACHINERY AND EQUIPMENT INDUSTRY—Continued   |   |                |   |                  |
| Secondary products—Continued  |   |                |   |                  |
| 35317   | Integral tractor-shovel loaders (wheel and tracklaying types) including parts.....  | (X)            | 18,648                                  | (X)              |
| 35318   | Scrapers, graders, rollers, and off-highway trucks, trailers, and wagons, excluding parts.....  | (X)            | 26,130                                  | (X)              |
| 35319   | Other construction machinery and equipment, including construction machinery parts, n.e.c.....  | (X)            | 10,862                                  | (X)              |
| 35513   | Other industrial food products machinery, including parts and attachments for all types of industrial food products.....                                      | (X)            | 3,358                                   | (X)              |
| 37176   | Parts and accessories for passenger cars, trucks, and busses, shipped to other than motor vehicle manufacturers.....  | (X)            | 4,139                                   | (X)              |
| 37992   | Other transportation equipment.....   | (X)            | 24,946                                  | (X)              |
|   | Other secondary products.....   | (X)            | 165,202                                 | (X)              |
| 25141   | Metal household dining and breakfast furniture.....   | (X)            | (over 2)                                | (X)              |
| 33911   | Drop upset and press, steel forgings (closed die).....  | (X)            | (5-10)                                  | (X)              |
| 34611   | Vitreous enameled products.....   | (X)            | (over 2)                                | (X)              |
| 34612   | Job stampings, except automotive.....   | (X)            | (5-10)                                  | (X)              |
| 34613   | Job stampings, automotive.....  | (X)            | (5-10)                                  | (X)              |
| 34990   | Fabricated metal products, n.e.c.....   | (X)            | (2-5)                                   | (X)              |
| 35192   | Diesel and semidiesel engines.....  | (X)            | (2-5)                                   | (X)              |
| 35197   | Parts and accessories for internal combustion engines.....  | (X)            | (2-5)                                   | (X)              |
| 35312   | Tracklaying-type tractors, except parts and attachments.....  | (X)            | (10-20)                                 | (X)              |
| 35370   | Industrial trucks and tractors.....   | (X)            | (2-5)                                   | (X)              |
| 35441   | Special dies and tools, die sets, jigs and fixtures.....  | (X)            | (2-5)                                   | (X)              |
| 35484   | Automotive maintenance equipment.....   | (X)            | (5-10)                                  | (X)              |
| 35511   | Dairy and milk products plant machinery and equipment, including dairy bottling machines.....   | (X)            | (2-5)                                   | (X)              |
| 35531   | Woodworking machinery (except machinery designed primarily for home workshops, garages, and service shops), including parts, attachments and accessories..... | (X)            | (2-5)                                   | (X)              |
| 35611   | Industrial pumps, except hydraulic fluid power.....   | (X)            | (2-5)                                   | (X)              |
| 35690   | General industrial machinery, n.e.c.....  | (X)            | (2-5)                                   | (X)              |
| 36311   | Electric household ranges and ovens and surface cooking unit equipment and parts (except small appliances).....   | (X)            | (over 2)                                | (X)              |
| 37150   | Truck trailers.....   | (X)            | (2-5)                                   | (X)              |
| 37175   | Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufacturers.....   | (X)            | (10-20)                                 | (X)              |
| 39430   | Baby carriages and children's vehicles, except bicycles.....  | (X)            | (2-5)                                   | (X)              |
|   | Miscellaneous receipts.....   | (X)            | 121,986                                 | (X)              |
|   | Contract and commission work.....   | (X)            | 11,703                                  | (X)              |
|   | Sales of products bought and resold.....  | (X)            | 89,619                                  | (X)              |
|   | Scrap and salable refuse and miscellaneous repair work.....   | (X)            | 9,956                                   | (X)              |
|   | Other.....  | (X)            | 10,708                                  | (X)              |
| Listing of other industries with over \$2 million shipments of the primary product classes: |   |                |   |                  |
| 35222   | 3321 Gray iron foundries.....   | (X)            | (X)                                     | (over 2)         |
|   | 3531 Construction machinery.....  | (X)            | (X)                                     | (10-20)          |
|   | 3717 Motor vehicles and parts.....  | (X)            | (X)                                     | 17,729           |
| 35225   | 3949 Sporting and athletic goods.....   | (X)            | (X)                                     | (over 2)         |
| 35227   | 3494 Valves and pipe fittings.....  | (X)            | (X)                                     | (over 2)         |
|   | 3634 Electric housewares and fans.....  | (X)            | (X)                                     | (over 2)         |
|   | 3751 Motorcycles, bicycles, and parts.....  | (X)            | (X)                                     | (over 2)         |
| 35228   | 3531 Construction machinery.....  | (X)            | (X)                                     | 2,861            |
|   | 3561 Pumps and compressors.....   | (X)            | (X)                                     | (2-5)            |
|   | 3717 Motor vehicles and parts.....  | (X)            | (X)                                     | 7,227            |
|   | 3732 Boat building and repairing.....   | (X)            | (X)                                     | (over 2)         |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.



TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code     | Product  | Total shipments including interplant transfers |  |                 |                                 |                 |                      |     |
|------------------|--|--|--|-----------------|---------------------------------|-----------------|----------------------|-----|
|                  |  | 1963   |  |                 | 1958                            |                 |                      |     |
|                  |  | Number of units                                | Total  | Value (\$1,000) | Number of units                 | Total           | Value (\$1,000)      |     |
|                  |  |  | Generating capacity (1,000 kw)                 |                 | Generating capacity (1,000 kw)  |                 |                      |     |
| 3511- --         | STEAM ENGINES AND TURBINES, TOTAL.....   | (X)  | (X)  | 589,101         | (X)                             | (X)             | 753,988              |     |
| 35111 --         | Steam, gas, and hydraulic turbine generator set units and parts.....           | (X)  | (X)  | } 589,101       | (X)                             | (X)             | 489,477              |     |
| 35112 --         | Steam, gas, and hydraulic turbines.....  | (X)  | (X)  |                 | (X)                             | (X)             | 264,511              |     |
|                  | Steam turbine generator sets:  |  |  |                 |                                 |                 |                      |     |
| 35111 12         | Under 2,000 kw.....  | } 372  | } 17,533                                       | } 289,009       | 229                             | 149             | 22,470               |     |
| 35111 15         | 2,000-9,999 kw.....  |  |  |                 | 124                             | 1,647           | 59,986               |     |
| 35111 17         | 10,000-49,999 kw.....  |  |  |                 | } 119                           | } 18,604        | } 369,376            |     |
| 35111 21         | 50,000-99,999 kw.....  |  |  |                 |                                 |                 |                      |     |
| 35111 24         | 100,000-199,999 kw.....  |  |  |                 |                                 |                 |                      |     |
| 35111 35         | 200,000 kw and over.....   |  |  |                 |                                 |                 |                      |     |
| 35111 41         | Water turbine (hydraulic) generator sets.....                                  | (X)  | (X)  | } 146,743       | (X)                             | (X)             | } 37,645             |     |
| 35111 45         | Gas turbine generator sets.....  | (X)  | (X)  |                 | (X)                             | (X)             |                      |     |
| 35111 51         | Parts for generator set units (steam, water, gas, etc.).....                   | (X)  | (X)  |                 | (X)                             | (X)             |                      |     |
| 35112 61         | Hydraulic turbines.....  | (X)  | (X)  | } 1,782         | } 3,782                         | } 39,594        |                      |     |
| 35112 71         | Parts and accessories for hydraulic turbines.....                              | (X)  | (X)  |                 |                                 |                 | (X)                  | (X) |
| 35112 72         | Parts and accessories for steam engines and steam turbines.....                | (X)  | (X)  |                 |                                 |                 | (X)                  | (X) |
|                  |  |  | Horsepower capacity (1,000 hp.)                |                 | Horsepower capacity (1,000 hp.) |                 |                      |     |
| 35112 21         | Mechanical drive steam turbines:   |  |  |                 |                                 |                 |                      |     |
|                  | Marine, including Navy.....  | 241  | 210  | 4,980           | 412                             | 260             | 20,104               |     |
|                  | Number shipped by horsepower capacity (rated or normal):                       |  |  |                 |                                 |                 |                      |     |
| 35112 22         | Under 50 hp.....   | 34   | (X)  | (X)             | } 329                           | (X)             | (X)                  |     |
| 35112 23         | 50-499 hp.....   | 147  | (X)  | (X)             |                                 | (X)             | (X)                  |     |
| 35112 24, 25, 26 | 500 hp. and over.....  | 60   | (X)  | (X)             |                                 | 83              | (X)                  | (X) |
| 35112 29         | Other mechanical drive steam turbines.....                                     | 2,071  | 894  | 15,315          | 2,471                           | 674             | 19,533               |     |
|                  | Number shipped by horsepower capacity (rated or normal):                       |  |  |                 |                                 |                 |                      |     |
| 35112 32         | Under 50 hp.....   | 840  | (X)  | (X)             | 1,391                           | (X)             | (X)                  |     |
| 35112 33         | 50-499 hp.....   | 865  | (X)  | (X)             | 803                             | (X)             | (X)                  |     |
| 35112 34         | 500-999 hp.....  | 194  | (X)  | (X)             | 128                             | (X)             | (X)                  |     |
| 35112 35         | 1,000-9,999 hp.....  | 162  | (X)  | (X)             | } 149                           | (X)             | (X)                  |     |
| 35112 36         | 10,000 hp. and over.....   | 10   | (X)  | (X)             |                                 | (X)             | (X)                  |     |
|                  | Steam turbine-gear units:  |  |  |                 |                                 |                 |                      |     |
| 35112 41         | Marine, including Navy.....  | 2,102  | 1,431  | 3,417,997       | 2,456                           | 1,600           | 3,702,250            |     |
| 35112 51         | Other steam turbine-gear units.....  | 304  | 87   | 3,291,3         | 376                             | 93              | 3,398,3              |     |
|                  | Number shipped by horsepower capacity (rated or normal):                       |  |  |                 |                                 |                 |                      |     |
| 35112 52         | Under 50 hp.....   | 55   | (X)  | (X)             | 103                             | (X)             | (X)                  |     |
| 35112 53         | 50-499 hp.....   | 209  | (X)  | (X)             | 207                             | (X)             | (X)                  |     |
| 35112 54         | 500-999 hp.....  | 30   | (X)  | (X)             | 48                              | (X)             | (X)                  |     |
| 35112 55         | 1,000-9,999 hp.....  | 10   | (X)  | (X)             | 18                              | (X)             | (X)                  |     |
| 35112 74         | Gas turbines (except aircraft).....  | 1,333  | (X)  | 61,624          | (X)                             | (X)             | } 60,707             |     |
| 35112 73         | Parts and accessories for gas turbines (except aircraft).....                  | (X)  | (X)  | 10,739          | (X)                             | (X)             |                      |     |
|                  |  |  | Total shipments including interplant transfers |                 |                                 |                 |                      |     |
|                  |  |  | 1963   |                 | 1958                            |                 |                      |     |
|                  |  |  | Quantity (number of engines)                   | Value (\$1,000) | Quantity (number of engines)    | Value (\$1,000) |                      |     |
| 3519- --         | INTERNAL COMBUSTION ENGINES, TOTAL.....  | (X)  |  | 1,423,926       | (X)                             |                 | 1,132,041            |     |
|                  | Gasoline engines, except outboard, aircraft, automobile, truck, bus, and tank: |  |  |                 |                                 |                 |                      |     |
| 35191 00         | As reported in the census of manufactures <sup>4</sup> .....                   | (X)  |  | 270,108         | (X)                             |                 | 230,239              |     |
|                  | As reported on Census Annual Form MA-35L <sup>4</sup> .....                    | 6,284,999                                      |  | 267,430         | 5,206,921                       |                 | 230,069              |     |
| 35192 --         | Diesel and semidiesel engines.....   | (X)  |  | 464,428         | (X)                             |                 | 314,480              |     |
|                  | Diesel and semidiesel engines (except automotive):                             |  |  |                 |                                 |                 |                      |     |
| 35192 10         | As reported in the census of manufactures <sup>4</sup> .....                   | (X)  |  | 298,946         | (X)                             |                 | 221,575              |     |
|                  | As reported on Census Annual Form MA-35L <sup>4</sup> .....                    | 108,522  |  | 289,171         | <sup>5</sup> 76,857             |                 | <sup>5</sup> 236,025 |     |
| 35192 50         | Diesel and semidiesel engines (automotive).....                                | 63,149   |  | 165,482         | 31,491                          |                 | 92,905               |     |
|                  | Gas engines (except gas turbines):   |  |  |                 |                                 |                 |                      |     |
| 35193 10         | As reported in the census of manufactures <sup>4</sup> .....                   | (X)  |  | 22,088          | (X)                             |                 | 17,718               |     |
|                  | As reported on Census Annual Form MA-35L <sup>4</sup> .....                    | 6,253  |  | 22,318          | 5,517                           |                 | 19,308               |     |

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Total shipments including interplant transfers |  |                              |                            |                 |
|--------------|--|--|--|------------------------------|----------------------------|-----------------|
|              |  | 1963   |  | 1958                         |                            |                 |
|              |  | Quantity (number of engines)                   | Value (\$1,000)                                | Quantity (number of engines) | Value (\$1,000)            |                 |
| 3519- --     | INTERNAL COMBUSTION ENGINES—Continued  |  |  |                              |                            |                 |
| 35195 --     | Outboard motors.....   |  |  | (X)                          | 157,879                    |                 |
| 35196 --     | Other internal combustion engines, including dual-fuel engines, tank engines, and all other converted engines, including jet propulsion engines, except aircraft (converted from purchased engines or from engines received from another plant of the same company)..... | (X)  | 6183,767                                       | (X)                          | 231,025                    |                 |
| 35197 15     | Parts and accessories for internal combustion engines (except aircraft, and automotive engines and gas turbines).....  | (X)  | 480,603  | (X)                          | 379,358                    |                 |
| 35190 00     | Internal combustion engines, n.s.k.....  | (X)  | 2,933  | (X)                          | 1,342                      |                 |
|              |  | 1963   |  | 1958                         |                            |                 |
|              |  | Total production (number of units)             | Total shipments including interplant transfers |                              |                            |                 |
|              |  |  | Quantity (number of units)                     | Value (\$1,000)              | Quantity (number of units) | Value (\$1,000) |
| 3522- --     | FARM MACHINERY, TOTAL.....   | (X)  | (X)  | 2,542,109                    | (X)                        | 2,172,893       |
| 35222 --     | Wheel tractors and parts and attachments.....  | (X)  | (X)  | 808,396                      | (X)                        | 687,271         |
|              | As reported in the census of manufactures <sup>4</sup> .....   | (X)  | (X)  | 743,241                      | (X)                        | 627,328         |
|              | As reported on Census Form MA-35T <sup>4</sup> .....   | (X)  | (X)  | 770,676                      | (X)                        | 657,721         |
| 35222 81     | Parts sold to other plants producing wheel tractors (except contractors' off-highway type, garden tractors and motor tillers).....   | (X)  | (X)  | 65,155                       | (X)                        | 59,943          |
| 35223 --     | Planting, seeding, and fertilizing machinery and parts:  |  |  |                              |                            |                 |
|              | As reported in the census of manufactures <sup>4</sup> .....   | (X)  | (X)  | 115,720                      | (X)                        | 95,984          |
|              | As reported on Census Annual Form MA-35A <sup>4</sup> .....  | (X)  | (X)  | 111,912                      | (X)                        | 101,197         |
| 35224 --     | Plows, listers, harrows, rollers, pulverizers, stalk cutters and parts, total.....   | (X)  | (X)  | 192,837                      | (X)                        | 160,576         |
|              | Harrows, rollers, pulverizers, stalk cutters, and similar equipment:   |  |  |                              |                            |                 |
|              | As reported in the census of manufactures <sup>4</sup> .....   | (X)  | (X)  | 115,959                      | (X)                        | 83,029          |
|              | As reported on Census Annual Form MA-35A <sup>4</sup> .....  | (X)  | (X)  | 114,791                      | (X)                        | 92,054          |
|              | Plows and listers:   |  |  |                              |                            |                 |
|              | As reported in the census of manufactures <sup>4</sup> .....   | (X)  | (X)  | 76,878                       | (X)                        | 77,547          |
|              | As reported on Census Annual Form MA-35A <sup>4</sup> .....  | (X)  | (X)  | 76,840                       | (X)                        | 73,908          |
| 35225 --     | Harvesting machinery:  |  |  |                              |                            |                 |
|              | As reported in the census of manufactures <sup>4</sup> .....   | (X)  | (X)  | 395,299                      | (X)                        | 321,434         |
|              | As reported on Census Annual Form MA-35A <sup>4</sup> .....  | (X)  | (X)  | 386,007                      | (X)                        | 311,916         |
| 35226 --     | Haying machinery:  |  |  |                              |                            |                 |
|              | As reported in the census of manufactures <sup>4</sup> .....   | (X)  | (X)  | 133,804                      | (X)                        | 182,536         |
|              | As reported on Census Annual Form MA-35A <sup>4</sup> .....  | (X)  | (X)  | 131,769                      | (X)                        | 175,860         |
| 35228 --     | All other farm machinery and equipment (except lawn mowers and parts).....   | (X)  | (X)  | 555,934                      | (X)                        | 450,571         |
|              | Products included in the census of manufactures and on Form MA-35A:  |  |  |                              |                            |                 |
|              | As reported in the census of manufactures <sup>4</sup> .....   | (X)  | (X)  | 405,944                      | (X)                        | 335,416         |
|              | As reported on Census Annual Form MA-35A <sup>4</sup> .....  | (X)  | (X)  | 404,072                      | (X)                        | 322,194         |
|              | Windmill heads and towers:   |  |  |                              |                            |                 |
|              | As reported in the census of manufactures <sup>4</sup> .....   | (X)  | (X)  | 2,172                        | (X)                        | 2,563           |
|              | As reported on Census Monthly Form M-35G <sup>4</sup> .....  | (X)  | 10,106   | 2,028                        | 10,054                     | 1,473           |
| 35228 62     | Windmill heads.....  | (X)  | 7,562  | 1,597                        | 6,983                      | 987             |
| 35228 63     | Windmill towers.....   | (X)  | 2,544  | 431                          | 3,071                      | 485             |
| 35228 87     | Hedge trimmers and shears, power:  |  |  |                              |                            |                 |
|              | Quantity reported.....   | (X)  | 113,399  | 1,958                        | 125,325                    | 2,478           |
|              | Quantity not reported.....   | (X)  | (X)  | 718                          | (X)                        | 335             |
| 35228 98     | Other farm machines, equipment and parts including parts sold to other plants producing farm equipment.....  | (X)  | (X)  | 132,164                      | (X)                        | 80,944          |
| 35228 00     | All other farm machines and equipment, including parts and attachments, n.s.k.....   | (X)  | (X)  | 12,977                       | (X)                        | 28,835          |

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | 1963                                  |  |                    | 1958                          |                    |
|--------------|--|---------------------------------------|--|--------------------|-------------------------------|--------------------|
|              |  | Total production<br>(number of units) | Total shipments including interplant transfers |                    |                               |                    |
|              |  |                                       | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 3522- --     | FARM MACHINERY—Continued   |                                       |  |                    |                               |                    |
| 35227 --     | Lawn mowers, and parts.....  | (X)                                   | (X)  | 268,661            | (X)                           | 239,815            |
| 35227 11     | Hand (reel-type).....  | 458,887                               | 497,183  | 7,374              | 391,412                       | 5,341              |
|              | Power:   |                                       |  |                    |                               |                    |
|              | Reel-type:   |                                       |  |                    |                               |                    |
| 35227 23     | Nonriding.....   | 387,658                               | 412,302  | 24,557             | 305,657                       | 20,978             |
| 35227 25     | Integral riding.....   | 7,258                                 | 6,640  | 3,156              | 18,569                        | 4,138              |
|              | Rotary type:   |                                       |  |                    |                               |                    |
| 35227 41     | Hand traction.....   | 2,465,581                             | 2,396,426                                      | 98,606             | 2,250,288                     | 99,776             |
|              | Power traction:  |                                       |  |                    |                               |                    |
| 35227 53     | Nonriding.....   | 585,297                               | 571,240  | 32,255             | 1,114,755                     | 54,669             |
| 35227 55     | Integral riding.....   | 259,492                               | 262,232  | 40,364             | 142,739                       | 23,505             |
| 35227 71     | Parts for lawn mowers.....   | (X)                                   | (X)  | 21,940             | (X)                           | 15,681             |
| 35227 98     | Other (including gang-cutting units, sickle-bar mowers shipped as complete units, lawn edgers, special cutting units, snow blowers and snow throwers)..... | (X)                                   | (X)  | 35,765             | (X)                           | 9,800              |
| 35227 00     | Lawn mowers and parts, n.s.k.....  | (X)                                   | (X)  | 4,644              | (X)                           | 5,927              |
| 35220 00     | Farm machinery and equipment, n.s.k.....   | (X)                                   | (X)  | 71,458             | (X)                           | 34,706             |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

<sup>1</sup>Of this total, 27 had a rated capacity of 24,999 hp. or under and 51 had a capacity of 25,000 hp. or over.

<sup>2</sup>For 1958, the 456 units shipped had a rated horsepower capacity as follows: 20-199 hp., 96; 200-499 hp., 59; 500-999 hp., 218; and 1,000 hp. and over, 83. Comparable data for 1963 are not available.

<sup>3</sup>Includes the value of gears.

<sup>4</sup>For these products, figures were also collected in the Bureau of the Census commodity survey program. In lieu of asking for detailed statistics on these products in the census of manufactures, respondents were asked to report only value of shipments for specified groups of products for which separate figures had previously been collected in the commodity survey. In most cases, the value figures reported in the census of manufactures for each group of products agreed closely with the corresponding figures reported in the commodity survey. However, there were minor differences between the census figures and the commodity survey figures. These variations were due primarily to the following reasons:

- a. Better coverage in census of manufactures program. Coverage in the annual surveys will be supplemented by adding respondents not currently in the survey but making the specified product according to their census of manufactures report.
- b. Use of different reporting periods (calendar year vs. fiscal year).
- c. Use of estimates in reporting figures on the commodity survey, whereas census of manufactures figures generally represent more exact shipment figures.

See tables 6A-1 to 6A-7 for more detailed product data.

<sup>5</sup>Dual-fuel engines shipped in 1958 were included with diesel and semidiesel (except automotive).

<sup>6</sup>Includes dual-fuel engines.

TABLE 6A-2. Gasoline Engines, by Horsepower Rating and Piston Displacement: 1963 and 1958

| Size group                                     | Total number of engines <sup>1</sup> | Total shipments and interplant transfers |                              | Shipments to other companies |                              | Interplant transfers |                              | Number produced and incorporated into products of the same establishment <sup>2</sup> |        |
|--|--------------------------------------|--|------------------------------|------------------------------|------------------------------|----------------------|------------------------------|---|--------|
|  |                                      | Number                                   | Value f.o.b. plant (\$1,000) | Number                       | Value f.o.b. plant (\$1,000) | Number               | Value f.o.b. plant (\$1,000) |   |        |
| 1963   |                                      |  |                              |                              |                              |                      |                              |   |        |
| HORSEPOWER RATING, TOTAL.....                  | 6,861,638                            | 6,284,999                                | 267,430                      | 6,077,809                    | 235,207                      | 207,190              | 32,223                       | 576,639   |        |
| Under 3.....                                   | 3,023,571                            | 3,003,302                                | 60,355                       | 5,973,552                    | 177,469                      | 140,537              | 4,258                        | 20,269  |        |
| 3.0-4.9.....                                   | 2,895,182                            | 2,495,853                                | 60,262                       |                              |                              |                      |                              |   |        |
| 5.0-5.9.....                                   | 198,157                              | 156,951                                  | 9,193                        |                              |                              |                      |                              |   |        |
| 6.0-6.9.....                                   | 423,612                              | 157,206                                  | 8,735                        |                              |                              |                      |                              |   |        |
| 7.0-7.9.....                                   |                                      | 107,363                                  | 9,161                        |                              |                              |                      |                              |   |        |
| 8.0-10.9.....                                  |                                      | 115,632                                  | 11,724                       |                              |                              |                      |                              |   |        |
| 11-20.....                                     | 34,613                               | 27,868                                   | 6,367                        |                              |                              |                      |                              |   |        |
| 21-25.....                                     | 69,026                               | 20,587                                   | 7,029                        |                              |                              |                      |                              |   |        |
| 26-30.....                                     |                                      | 14,759                                   | 5,045                        |                              |                              |                      |                              |   |        |
| 31-35.....                                     |                                      | 14,568                                   | 3,856                        |                              |                              |                      |                              |   |        |
| 36-40.....                                     | 53,668                               | 35,613                                   | 10,202                       |                              |                              |                      |                              |   |        |
| 41-50.....                                     |                                      | 35,180                                   | 24,877                       |                              |                              |                      |                              |   |        |
| 51-60.....                                     |                                      | 13,456                                   | 4,823                        |                              |                              |                      |                              |   |        |
| 61-70.....                                     | 54,006                               | 27,377                                   | 10,171                       |                              |                              |                      |                              |   |        |
| 71-80.....                                     | 20,537                               | 19,201                                   | 9,116                        |                              |                              |                      |                              |   |        |
| 81-90.....                                     |                                      | 2,338                                    | 1,119                        |                              |                              |                      |                              |   |        |
| 91-100.....                                    |                                      | 22,723                                   | 15,411                       |                              |                              |                      |                              |   |        |
| 101-150.....                                   | 54,086                               | 13,664                                   | 9,914                        |                              |                              |                      |                              |   |        |
| 151-200.....                                   |                                      | 11,661                                   | 15,906                       |                              |                              |                      |                              |   |        |
| 201 and over.....                              |                                      |  |                              |                              |                              |                      |                              |   |        |
| PISTON DISPLACEMENT (cubic inches), TOTAL..... | 6,861,638                            | 6,284,999                                | 267,430                      | 6,077,809                    | 235,207                      | 207,190              | 32,223                       | 576,639   |        |
| Under 6.....                                   | 5,898,169                            | 338,234                                  | 10,340                       | 5,951,898                    | 170,752                      | 143,145              | 4,018                        | 468,946   |        |
| 6.0-10.9.....                                  |                                      | 5,090,989                                | 109,716                      |                              |                              |                      |                              |   |        |
| 11-15.....                                     |                                      | 321,485                                  | 13,023                       |                              |                              |                      |                              |   |        |
| 16-30.....                                     |                                      | 259,879                                  | 20,191                       |                              |                              |                      |                              |   |        |
| 31-50.....                                     |                                      | 66,830                                   | 28,612                       |                              |                              |                      |                              |   |        |
| 51-75.....                                     |                                      | 44,766                                   | 25,732                       |                              |                              |                      |                              |   |        |
| 76-125.....                                    |                                      | 49,963                                   | 30,112                       |                              |                              |                      |                              |   |        |
| 126-150.....                                   |                                      | 89,974                                   | 27,988                       |                              |                              |                      |                              |   | 8,017  |
| 151-175.....                                   |                                      |  | 43,592                       |                              |                              |                      |                              |   | 12,866 |
| 176-200.....                                   |                                      |  | 8,506                        |                              |                              |                      |                              |   | 2,814  |
| 201-225.....                                   |                                      | 36,296                                   | 23,026                       |                              |                              |                      |                              |   | 10,471 |
| 226-250.....                                   |                                      |  | 28,726                       |                              |                              |                      |                              |   | 6,516  |
| 251-300.....                                   |                                      |  | 28,495                       |                              |                              |                      |                              |   | 12,532 |
| 301-350.....                                   |                                      | 65,410                                   | 12,198                       |                              |                              |                      |                              |   | 15,525 |
| 351-500.....                                   |                                      |  | 14,033                       |                              |                              |                      |                              |   | 8,068  |
| 501 and over.....                              | 3,392                                |  | 8,451                        |                              |                              |                      |                              |   |        |
| PISTON DISPLACEMENT (cubic inches), TOTAL..... | 5,755,879                            | 5,206,921                                | 230,069                      | 5,124,994                    | 205,461                      | 81,927               | 24,608                       | 548,958   |        |
| Under 3.....                                   | 3,679,168                            | 3,475,358                                | 74,199                       | 4,818,669                    | 114,071                      | 21,258               | 595                          | 203,810   |        |
| 3.0-3.9.....                                   | 1,178,132                            | 1,125,534                                | 27,753                       |                              |                              |                      |                              |   |        |
| 4.0-6.9.....                                   | 378,391                              | 239,035                                  | 12,714                       |                              |                              |                      |                              |   |        |
| 7.0-10.9.....                                  | 126,746                              | 117,019                                  | 10,185                       |                              |                              |                      |                              |   |        |
| 11-15.....                                     | 43,201                               | 27,350                                   | 5,841                        |                              |                              |                      |                              |   |        |
| 16-30.....                                     | 58,803                               | 33,878                                   | 10,511                       |                              |                              |                      |                              |   |        |
| 31-45.....                                     | 93,483                               | 54,701                                   | 15,793                       |                              |                              |                      |                              |   |        |
| 46-60.....                                     | 97,599                               | 39,437                                   | 11,294                       |                              |                              |                      |                              |   |        |
| 61-70.....                                     | 22,983                               | 20,028                                   | 9,184                        |                              |                              |                      |                              |   |        |
| 71-80.....                                     | 77,345                               | 16,807                                   | 8,031                        |                              |                              |                      |                              |   |        |
| 81-90.....                                     |                                      | 3,935                                    | 1,927                        |                              |                              |                      |                              |   |        |
| 91-100.....                                    |                                      | 17,414                                   | 6,457                        |                              |                              |                      |                              |   |        |
| 101-150.....                                   | 28                                   | 20,960                                   | 13,235                       |                              |                              |                      |                              |   |        |
| 151-200.....                                   |                                      | 11,851                                   | 15,520                       |                              |                              |                      |                              |   |        |
| 201-300.....                                   |                                      | 3,586                                    | 6,809                        |                              |                              |                      |                              |   |        |
| 301 and over.....                              |                                      | 28                                       | 616                          |                              |                              |                      |                              |   |        |
| PISTON DISPLACEMENT (cubic inches), TOTAL..... | 5,755,879                            | 5,206,921                                | 230,069                      | 5,124,994                    | 205,461                      | 81,927               | 24,608                       | 548,958   |        |
| Under 11.....                                  | 5,081,500                            | 4,703,846                                | 106,127                      | 4,684,515                    | 105,595                      | 19,331               | 532                          | 377,654   |        |
| 11-30.....                                     | 269,076                              | 237,928                                  | 16,060                       |                              |                              |                      |                              |   |        |
| 31-50.....                                     | 123,976                              | 15,209                                   | 2,586                        |                              |                              |                      |                              |   |        |
| 51-75.....                                     |                                      | 31,477                                   | 6,755                        |                              |                              |                      |                              |   |        |
| 76-100.....                                    |                                      | 5,391                                    | 1,662                        |                              |                              |                      |                              |   |        |
| 101-125.....                                   |                                      | 27,661                                   | 8,333                        |                              |                              |                      |                              |   |        |

See footnotes at end of table.



**TABLE 6A-2. Gasoline Engines, by Horsepower Rating and Piston Displacement: 1963 and 1958—Continued**

| Size group   | Total number of engines <sup>1</sup> | Total shipments and interplant transfers |                              | Shipments to other companies |                              | Interplant transfers |                              | Number produced and incorporated into products of the same establishment <sup>2</sup> |
|--|--------------------------------------|--|------------------------------|------------------------------|------------------------------|----------------------|------------------------------|---|
|  |                                      | Number                                   | Value f.o.b. plant (\$1,000) | Number                       | Value f.o.b. plant (\$1,000) | Number               | Value f.o.b. plant (\$1,000) |   |
| 1958—Continued                                       |                                      |  |                              |                              |                              |                      |                              |   |
| PISTON DISPLACEMENT (cubic inches), TOTAL--Continued |                                      |  |                              |                              |                              |                      |                              |   |
| 126-150.....   | 76,661                               | 50,443                                   | 14,258                       | 31,251                       | 8,136                        | 19,192               | 6,122                        | 26,218  |
| 151-225.....   | 141,851                              | 57,389                                   | 18,281                       | 95,411                       | 51,283                       | 37,364               | 16,497                       | 47,071  |
| 226-250.....   |                                      | 37,391                                   | 17,490                       |                              |                              |                      |                              |   |
| 251-300.....   | 62,776                               | 19,045                                   | 8,720                        | 2,152                        | 5,833                        | -                    | -                            | -   |
| 301-350.....   |                                      | 10,347                                   | 8,067                        |                              |                              |                      |                              |   |
| 351-500.....   |                                      | 7,368                                    | 13,536                       |                              |                              |                      |                              |   |
| 501-600.....   | 39                                   | 1,235                                    | 1,686                        | 39                           | 675                          | -                    | -                            | -   |
| 601-2,000.....                                       |                                      | 2,152                                    | 5,833                        |                              |                              |                      |                              |   |
| 2,001 and over.....                                  |                                      | 39                                       | 675                          |                              |                              |                      |                              |   |

Note: Includes gas-gasoline engines; excludes outboard, automotive, and aircraft engines.

Source: Current Industrial Reports Series M35L, Internal Combustion Engines.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>Represents total number of engines shipped and produced and incorporated into products of the same company.

<sup>2</sup>Represents engines produced and incorporated (in the same plant) into products such as construction machinery; farm machinery; tractors; engine-generator sets; and other products.

**TABLE 6A-3. Diesel Engines (Except Automotive), by Horsepower Rating and Piston Displacement: 1963 and 1958**

| Size group                                     | Total number of engines <sup>1</sup> | Total shipments and interplant transfers |                              | Shipments to other companies |                              | Interplant transfers |                              | Number produced and incorporated into products of the same establishment <sup>2</sup> |
|--|--------------------------------------|--|------------------------------|------------------------------|------------------------------|----------------------|------------------------------|---|
|  |                                      | Number                                   | Value f.o.b. plant (\$1,000) | Number                       | Value f.o.b. plant (\$1,000) | Number               | Value f.o.b. plant (\$1,000) |   |
| 1963   |                                      |  |                              |                              |                              |                      |                              |   |
| HORSEPOWER RATING, TOTAL.....                  |                                      |  |                              |                              |                              |                      |                              |   |
| Under 11.....                                  | <sup>3</sup> 179,344                 | <sup>3</sup> 108,550                     | <sup>3</sup> 292,271         | 52,656                       | 172,674                      | 55,894               | 119,597                      | <sup>3</sup> 70,794   |
| 11-20.....                                     | 8,797                                | 585                                      | 1,546                        | 585                          | 1,546                        | -                    | -                            | 3,526   |
| 21-30.....                                     |                                      |  |                              |                              |                              |                      |                              |   |
| 31-40.....                                     | 14,115                               | 4,686                                    | 1,972                        | 3,100                        | 2,853                        | 8,882                | 4,543                        | 6,819   |
| 41-50.....                                     |                                      |  |                              |                              |                              |                      |                              |   |
| 51-70.....                                     |                                      |  |                              |                              |                              |                      |                              |   |
| 71-100.....                                    | 42,087                               | 25,793                                   | 23,137                       | 8,536                        | 7,822                        | 17,257               | 15,315                       | 16,294  |
| 101-150.....                                   |                                      |  |                              |                              |                              |                      |                              |   |
| 151-200.....                                   | 87,602                               | 23,965                                   | 47,366                       | 10,382                       | 14,093                       | 7,965                | 11,837                       | 38,254  |
| 201-300.....                                   |                                      |  |                              |                              |                              |                      |                              |   |
| 301-400.....                                   | 15,562                               | 7,036                                    | 21,124                       | 5,379                        | 16,455                       | 1,657                | 4,669                        | 2,792   |
| 401-500.....                                   |                                      |  |                              |                              |                              |                      |                              |   |
| 501-600.....                                   | 8,945                                | 12,770                                   | 51,539                       | 9,014                        | 35,978                       | 3,756                | 15,561                       | 1,972   |
| 601-700.....                                   |                                      |  |                              |                              |                              |                      |                              |   |
| 701-900.....                                   | 305                                  | 4,194                                    | 30,090                       | 2,506                        | 20,455                       | 1,688                | 9,635                        | 63  |
| 901-1,000.....                                 |                                      |  |                              |                              |                              |                      |                              |   |
| 1,001-1,500.....                               | 975                                  | 1,692                                    | 14,796                       | 2,764                        | 52,073                       | 1,114                | 32,070                       | 293   |
| 1,501 and over.....                            |                                      |  |                              |                              |                              |                      |                              |   |
| PISTON DISPLACEMENT (cubic inches), TOTAL..... | <sup>3</sup> 179,344                 | <sup>3</sup> 108,550                     | <sup>3</sup> 292,271         | 52,656                       | 172,674                      | 55,894               | 119,597                      | <sup>3</sup> 70,794   |
| Under 101.....                                 | 12,326                               | 520                                      | 1,418                        | 520                          | 1,418                        | -                    | -                            | 4,413   |
| 101-150.....                                   |                                      |  |                              |                              |                              |                      |                              |   |
| 151-200.....                                   | 37,459                               | 7,393                                    | 6,029                        | 10,053                       | 10,643                       | 10,596               | 5,044                        | 14,751  |
| 201-250.....                                   |                                      |  |                              |                              |                              |                      |                              |   |

See footnotes at end of table.

TABLE 6A-3. Diesel Engines (Except Automotive), by Horsepower Rating and Piston Displacement: 1963 and 1958—Continued

| Size group  | Total number of engines <sup>1</sup> | Total shipments and interplant transfers |                              | Shipments to other companies |                              | Interplant transfers |                              | Number produced and incorporated into products of the same establishment <sup>2</sup> |        |         |        |        |        |        |       |        |       |        |       |
|---|--------------------------------------|--|------------------------------|------------------------------|------------------------------|----------------------|------------------------------|---|--------|---------|--------|--------|--------|--------|-------|--------|-------|--------|-------|
|   |                                      | Number                                   | Value f.o.b. plant (\$1,000) | Number                       | Value f.o.b. plant (\$1,000) | Number               | Value f.o.b. plant (\$1,000) |   |        |         |        |        |        |        |       |        |       |        |       |
| 1963—Continued                                      |                                      |  |                              |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| PISTON DISPLACEMENT (cubic inches), TOTAL—Continued |                                      |  |                              |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 251-300.....  | 129,559                              | 27,306                                   | 33,268                       | 9,929                        | 15,522                       | 17,377               | 17,746                       | 51,630  |        |         |        |        |        |        |       |        |       |        |       |
| 301-500.....  |                                      | 25,509                                   | 52,613                       | 11,613                       | 27,801                       | 13,896               | 24,812                       |   |        |         |        |        |        |        |       |        |       |        |       |
| 501-600.....  |                                      | 10,467                                   | 35,885                       | 4,443                        | 18,603                       | 6,024                | 17,282                       |   |        |         |        |        |        |        |       |        |       |        |       |
| 601-800.....  |                                      | 4,433                                    | 17,337                       | 6,943                        | 32,766                       | 4,102                | 20,644                       |   |        |         |        |        |        |        |       |        |       |        |       |
| 801-1,000.....                                      |                                      | 6,612                                    | 36,073                       |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 1,001-1,500.....                                    |                                      | 1,854                                    | 16,831                       | 2,626                        | 55,777                       | 976                  | 30,849                       |   |        |         |        |        |        |        |       |        |       |        |       |
| 1,501-2,000.....                                    |                                      | 659                                      | 7,693                        |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 2,001-3,000.....                                    |                                      | 251                                      | 5,030                        |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 3,001-5,000.....                                    |                                      | 250                                      | 13,659                       | 373                          | 34,151                       |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 5,001-10,000.....                                   |                                      | 215                                      | 9,262                        |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 10,001-25,000.....                                  |                                      |  |                              |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 25,001 and over.....                                |                                      |  |                              |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 1958  |                                      |  |                              |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| HORSEPOWER RATING, TOTAL.....                       |                                      |  |                              |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
|   | 131,736                              | 376,857                                  | 3236,025                     | 44,291                       | 165,892                      | 32,566               | 70,133                       | 54,879  |        |         |        |        |        |        |       |        |       |        |       |
| Under 20.....                                       | 19,914                               | 2,311                                    | 2,245                        | 12,690                       | 12,882                       | 17,904               | 15,905                       | 13,975  |        |         |        |        |        |        |       |        |       |        |       |
| 21-30.....  |                                      | 72                                       | 109                          |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 31-40.....  |                                      | 2,485                                    | 1,797                        |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 41-50.....  |                                      | 1,071                                    | 1,395                        |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 51-70.....  |                                      | 47,907                                   | 24,655                       |                              |                              |                      |                              |   | 23,241 | 11,845  | 17,253 | 5,666  | 12,438 | 23,252 |       |        |       |        |       |
| 71-100.....   |                                      | 27,117                                   | 17,511                       |                              |                              |                      |                              |   | 29,691 |         |        |        |        |        |       |        |       |        |       |
| 101-150.....  |                                      | 36,798                                   | 10,850                       |                              |                              |                      |                              |   | 27,363 | 12,318  | 37,406 | 6,090  | 18,396 | 9,606  |       |        |       |        |       |
| 151-200.....  |                                      |  | 7,558                        |                              |                              |                      |                              |   | 28,439 |         |        |        |        |        |       |        |       |        |       |
| 201-300.....  |                                      |  | 7,499                        |                              |                              |                      |                              |   | 34,579 |         |        |        |        |        |       |        |       |        |       |
| 301-400.....  |                                      |  | 746                          |                              |                              |                      |                              |   | 5,692  |         |        |        |        |        | 7,438 | 98,351 | 2,906 | 23,394 | 8,046 |
| 401-500.....  |                                      |  | 882                          |                              |                              |                      |                              |   | 25,479 |         |        |        |        |        |       |        |       |        |       |
| 501-600.....  | 246                                  |  | 4,130                        | 9,602                        | 91,165                       | 5,388                | 24,601                       | 7,388   |        |         |        |        |        |        |       |        |       |        |       |
| 601-700.....  | 173                                  |  | 7,976                        |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 701,800.....  | 178                                  |  | 6,793                        |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 801-900.....  | 65                                   |  | 1,657                        |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 901-1,000.....                                      | 7                                    |  | 550                          |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 1,001-1,500.....                                    | 243                                  |  | 10,439                       |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 1,501 and over.....                                 | 305                                  | 24,450                                   |                              |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| PISTON DISPLACEMENT (cubic inches), TOTAL.....      |                                      |  |                              |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
|   | 131,736                              | 376,857                                  | 2236,025                     |                              |                              |                      |                              |   | 44,291 | 165,892 | 32,566 | 70,133 | 54,879 |        |       |        |       |        |       |
| Under 101.....                                      | 61,020                               | 2,261                                    | 2,151                        |                              |                              |                      |                              |   | 2,261  | 2,151   | -      | -      |        |        |       |        |       |        |       |
| 101-150.....  |                                      | 4,221                                    | 5,165                        |                              |                              |                      |                              |   | 21,800 | 28,452  | 17,369 | 15,713 | 19,590 |        |       |        |       |        |       |
| 151-200.....  |                                      | 3,070                                    | 2,523                        |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 201-250.....  |                                      | 10,212                                   | 10,142                       |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 251-300.....  |                                      | 21,666                                   | 26,335                       |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 301-400.....  |                                      | 26,296                                   | 7,216                        | 12,069                       | 4,820                        | 4,098                | 7,249                        | 19,080  |        |         |        |        |        |        |       |        |       |        |       |
| 401-500.....  |                                      | 21,951                                   | 7,358                        | 21,877                       | 7,419                        | 26,246               | 5,711                        | 22,570  |        |         |        |        |        | 8,821  |       |        |       |        |       |
| 501-600.....  |                                      | 22,469                                   | 5,772                        | 26,939                       | 9,602                        | 91,165               | 5,388                        | 24,601  |        |         |        |        |        | 7,388  |       |        |       |        |       |
| 601-800.....  |                                      |  | 6,902                        | 24,305                       |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 801-1,000.....                                      |                                      |  | 5,135                        | 21,809                       |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 1,001-1,500.....                                    |                                      |  | 1,785                        | 18,948                       |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 1,501-2,000.....                                    | 318                                  |  | 13,057                       |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 2,001-3,000.....                                    | 376                                  |  | 7,822                        |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 3,001-5,000.....                                    | 211                                  |  | 13,460                       |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 5,001-10,000.....                                   | 263                                  |  | 16,365                       |                              |                              |                      |                              |   |        |         |        |        |        |        |       |        |       |        |       |
| 10,001-15,000.....                                  | 45                                   |  | 7,013                        | 45                           |                              |                      |                              |   | 7,013  | -       | -      |        |        |        |       |        |       |        |       |
| 15,001-25,000.....                                  | 24                                   |  | 1,978                        | 24                           |                              |                      |                              |   | 1,978  | -       | -      |        |        |        |       |        |       |        |       |
| 25,000 and over.....                                | 22                                   |  | 4,067                        | 22                           |                              |                      |                              |   | 4,067  | -       | -      |        |        |        |       |        |       |        |       |

Source: Current Industrial Reports Series M35L, Internal Combustion Engines.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>Represents total number of engines shipped and produced and incorporated into products of the same company.

<sup>2</sup>See footnote 2, table 6A-1.

<sup>3</sup>Includes for 1963, 71 dual-fuel engines of which 28 valued at \$3.1 million were shipped. In 1958 a total of 61 dual-fuel engines valued at \$10.0 million were shipped.



**TABLE 6A-4. Gas Engines (Except Automotive), by Horsepower Rating and Piston Displacement: 1963 and 1958**

| Size group                                     | Total number of engines <sup>1</sup> | Shipments and interplant transfers <sup>2</sup> |                              | Number of engines produced and incorporated into products at the same establishment <sup>3</sup> |
|--|--------------------------------------|---|------------------------------|--|
|  |                                      | Number  | Value f.o.b. plant (\$1,000) |  |
| 1963   |                                      |   |                              |  |
| HORSEPOWER RATING, TOTAL.....                  | 14,492                               | 6,253   | 22,318                       | 8,239  |
| Under 21.....                                  | 1,115                                | 1,685   | 2,405                        | 221  |
| 21-50.....                                     | 791                                  |   |                              |  |
| 51-100.....                                    | 10,923                               | 2,389   | 2,349                        | 7,694  |
| 101-150.....                                   |                                      |   |                              |  |
| 151-500.....                                   |                                      |   |                              |  |
| 501 and over.....                              | 1,215                                | 1,082   | 6,214                        | 133  |
|  | 448                                  | 257   | 10,007                       | 191  |
| PISTON DISPLACEMENT (cubic inches), TOTAL..... | 14,492                               | 6,253   | 22,318                       | 8,239  |
| Under 251.....                                 | 13,150                               | 1,901   | 1,657                        | 7,920  |
| 251-500.....                                   |                                      |   |                              |  |
| 501-1,000.....                                 |                                      |   |                              |  |
| 1,001-2,000.....                               | 1,342                                | 1,005   | 2,438                        | 319  |
| 2,001 and over.....                            |                                      |   |                              |  |
|  |                                      | 329   | 1,879                        |  |
|  |                                      | 694   | 14,074                       |  |
| 1958   |                                      |   |                              |  |
| HORSEPOWER RATING, TOTAL.....                  | 14,929                               | 5,517   | 31,458                       | 9,412  |
| Under 51.....                                  | 4,663                                | 2,209   | 2,276                        | 2,454  |
| 51-150.....                                    | 10,266                               | 2,099   | 2,881                        | 6,958  |
| 151-200.....                                   |                                      |   |                              |  |
| 201-500.....                                   |                                      |   |                              |  |
| 501 and over.....                              |                                      | 534   | 1,108                        |  |
|  |                                      | 386   | 6,891                        |  |
|  |                                      | 289   | 18,302                       |  |
| PISTON DISPLACEMENT (cubic inches), TOTAL..... | 14,929                               | 5,517   | 31,458                       | 9,412  |
| Under 251.....                                 | 4,317                                | 1,811   | 1,210                        | 2,506  |
| 251-500.....                                   | 10,612                               | 2,002   | 2,168                        | 6,906  |
| 501-2,000.....                                 |                                      |   |                              |  |
| 2,001 and over.....                            |                                      |   |                              |  |
|  |                                      | 1,083   | 3,333                        |  |
|  |                                      | 621   | 24,747                       |  |

Source: Current Industrial Reports Series M35L, Internal Combustion Engines.

<sup>1</sup>Represents total number of engines shipped and produced and incorporated into products of the same company.

<sup>2</sup>Shipments to other companies and interplant transfers are combined to avoid disclosing figures for individual companies.

<sup>3</sup>See footnote 2, table 6A-1.

TABLE 6A-5. Internal Combustion Engines (Except Outboard, Automotive, and Aircraft), by Engine Operating Data and by Type of Engine: 1963 and 1958

| Engine operating data   | Number of engines by type <sup>1</sup> |            |           |             |            |         |
|-------------------------|--|------------|-----------|-------------|------------|---------|
|                         | 1963                                   |            |           | 1958        |            |         |
|                         | Gasoline                               | Diesel     | Gas       | Gasoline    | Diesel     | Gas     |
| TOTAL.....              | 6,861,638                              | 179,344    | 14,492    | 5,755,879   | 131,736    | 14,929  |
| Revolutions per minute: |  |            |           |             |            |         |
| 750 and under.....      | } 26,106                               | { 214      | { 2,471   | } 233,960   | { 517      | } 2,159 |
| 751-1,500.....          |  |            |           |             |            |         |
| 1,501-2,999.....        | 463,320                                | } 3167,508 | { 6,419   | } 483,786   | { 395,144  | { 4,562 |
| 3,000-3,999.....        | 5,921,818                              |            |           |             |            |         |
| 4,000 and over.....     | 470,394                                | -          | -         | 343,673     | -          | -       |
| Method of cooling:      |  |            |           |             |            |         |
| Air.....                | 6,595,440                              | } 4179,344 | { -       | } 5,415,619 | { 4131,736 | { -     |
| Liquid.....             | 266,198                                |            |           |             |            |         |
| Number of cycles:       |  |            |           |             |            |         |
| 2.....                  | 835,655                                | } 5179,344 | { 614,492 | } 954,972   | { 5131,736 | { 1,212 |
| 4.....                  | 6,025,983                              |            |           |             |            |         |

Source: Current Industrial Reports Series M35L, Internal Combustion Engines.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>Represents total number of engines shipped and produced and incorporated into products of the same company, including interplant transfers.

<sup>2</sup>Over 95 percent of these engines operated at between 751-1,500 r.p.m.

<sup>3</sup>Over 95 percent of these engines operated at between 1,501 and 2,999 r.p.m.

<sup>4</sup>Over 95 percent of these engines were liquid cooled.

<sup>5</sup>Over 80 percent of these engines were 4-cycle engines.

<sup>6</sup>Over 90 percent of these engines were 4-cycle engines.

TABLE 6A-6. Internal Combustion Engines (Except Outboard, Automotive, and Aircraft), by Number of Cylinders and by Type of Engine: 1963 and 1958

| Number of cylinders per engine | Number of engines <sup>1</sup> |           |
|--------------------------------|--------------------------------|-----------|
|                                | 1963                           | 1958      |
| Gasoline, total.....           | 6,861,638                      | 5,755,879 |
| 1.....                         | 6,519,127                      | 5,351,209 |
| 2 and 3.....                   | 45,895                         | 74,593    |
| 4.....                         | 186,388                        | 217,502   |
| 6.....                         | 75,564                         | 101,649   |
| 8 and 12.....                  | 34,664                         | 10,926    |
| Diesel, total.....             | 179,344                        | 131,736   |
| 1.....                         | 780                            | } 24,486  |
| 2 and 3.....                   | 11,029                         |           |
| 4.....                         | 68,857                         | 48,504    |
| 5, 6, and 7.....               | 90,126                         | 55,038    |
| 8 and 9.....                   | 4,265                          | 791       |
| 10 and over.....               | 4,287                          | 2,917     |
| Gas, total.....                | 14,492                         | 14,929    |
| 1.....                         | 2,406                          | } 5,716   |
| 2 and 3.....                   | 271                            |           |
| 4.....                         | 3,042                          | 6,101     |
| 5, 6, and 7.....               | 8,244                          | 2,076     |
| 8.....                         | 215                            | 686       |
| 10.....                        | 75                             | 121       |
| 12 and over.....               | 239                            | 229       |

Source: Current Industrial Reports Series M35L, Internal Combustion Engines.

<sup>1</sup>Represents total number of engines shipped and produced and incorporated into products of the same company, including interplant transfers.



**TABLE 6A-7. Internal Combustion Engines (Except Outboard, Automotive, and Aircraft), by Type of Engine and Service Designed for: 1963**

| Type of engine and service designed for  | Total number of engines <sup>1</sup> | Shipments to other companies |  | Number shipped as interplant transfers or produced and incorporated into products at the same establishment <sup>3</sup> |
|--|--------------------------------------|------------------------------|--|--|
|  |                                      | Number                       | Value f.o.b. plant <sup>2</sup><br>(\$1,000) |  |
| TOTAL.....   | 7,055,474                            | 6,136,718                    | 430,199                                      | 918,756  |
| Gasoline, total.....   | 6,861,638                            | 6,077,809                    | 235,207                                      | 783,829  |
| Marine, except outboard.....   | 28,005                               | 13,509                       | 11,378                                       | 14,496   |
| Construction (loaders; tractors, primarily tracklaying; graders; scrapers, etc.) logging, mining and oil field.....                            | 51,136                               | 35,934                       | 5,755  | 15,202   |
| Generator sets <sup>4</sup> .....  | 43,542                               | 18,981                       | 4,375  | 24,561   |
| Lawn mowers, tillers, snow blowers, edge trimmers, and garden tractors less than 9 hp.....   | 5,084,262                            | 4,843,955                    | 106,397                                      | 613,570  |
| Chain saws.....  | 373,263                              |                              |  |  |
| Farm machinery (agricultural tractors, primarily wheel; combines; etc.).....   | 5,430,362                            | 336,454                      | 26,234                                       | 93,908   |
| Tractors not specified by end use.....   |                                      |                              |  |  |
| General industrial (cotton gins, sawmills, pumps and compressors, etc.) and other types including government, research, and not specified..... |                                      |                              |  |  |
| Diesel, total.....   | 6,851,068                            | 828,976                      | 81,068                                       | 22,092   |
| Marine, except outboard.....   | 179,344                              | 52,656                       | 172,674                                      | 126,688  |
| Construction (loaders; tractors, primarily tracklaying; graders; scrapers, etc.) logging, mining and oil field.....                            | 36,861                               | 3,906                        | 28,210                                       | 31,927   |
| Generator sets.....  | 8,519                                | 1,028                        | 2,375  |  |
| Railroad, motive power type.....   | 1,419                                | 5,508                        | 20,354                                       | 3,011  |
| Farm machinery (agricultural tractors, primarily wheel; combines; etc.).....   | 82,028                               | 42,214                       | 121,735                                      | 91,750   |
| Tractors not specified by end use.....   |                                      |                              |  |  |
| General industrial (cotton gins, sawmills, pumps and compressors, etc.) and other types including government, research and not specified.....  |                                      |                              |  |  |
| Gas, total.....  | 14,492                               | 76,253                       | 722,318                                      | 78,239   |
| Construction (loaders; tractors, primarily tracklaying; graders; scraper, etc.) logging, mining and oil field.....                             | 5,142                                | 3,589                        | 9,254  | 257  |
| General sets.....  |                                      |                              |  |  |
| Farm machinery (agricultural tractors, primarily wheel; combines; etc.).....   |                                      |                              |  |  |
| General industrial (cotton gins, sawmills, pumps and compressors, etc.).....   | 8,788                                | 1,368                        | 9,039  | 7,982  |
| General industrial (cotton gins, sawmills, pumps and compressors, etc.).....   | 562                                  |                              |  |  |

Source: Current Industrial Reports Series M35L, Internal Combustion Engines.

<sup>1</sup>Represents total number of engines shipped or produced and incorporated into products at the same establishment.

<sup>2</sup>These values are limited to engines shipped to other companies and therefore differ from values shown in table 1 which also include the values for engines shipped as interplant transfers.

<sup>3</sup>Includes number of engines transferred to other plants of the same company and the number of engines produced and incorporated (in the same plant) into products such as construction machinery, farm machinery, tractors, engine generator sets, and other products.

<sup>4</sup>It is likely that these figures are understated since shipments of gasoline-driven generator sets totaled 53,296 in 1963 and 51,383 in 1962. (See Current Industrial Reports Series M36H, Motors and Generators.) Some gasoline engines for eventual use in generator sets have apparently been reported as utilities, marine, government, or research.

<sup>5</sup>Over 95 percent of these engines produced were reported for use on farm machinery (agricultural tractors, combines, etc.).

<sup>6</sup>Over 90 percent of these engines were reported for general industrial use.

<sup>7</sup>Data for a few engines shipped as interplant transfers have been included with shipments to other companies to avoid disclosing figures for individual companies.

TABLE 6A-8. Farm Machines and Equipment: 1963 and 1958

| 1963<br>Census<br>product<br>code | Type of farm equipment   | 1963                           |                    |                          |                    |          |                    |            |                    |
|-----------------------------------|--|--------------------------------|--------------------|--------------------------|--------------------|----------|--------------------|------------|--------------------|
|                                   |  | Number<br>of<br>com-<br>panies | Number<br>produced | Manufacturers' shipments |                    |          |                    |            |                    |
|                                   |  |                                |                    | Total                    |                    | Domestic |                    | For export |                    |
|                                   |  |                                |                    | Number                   | Value<br>(\$1,000) | Number   | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) |
| 35222 --                          | WHEEL TRACTORS AND PARTS AND ATTACHMENTS, TOTAL  | (NA)                           | (X)                | (X)                      | 770,676            | (X)      | 665,234            | (X)        | 105,442            |
| (35222 10)                        | Wheel-type (except garden), total <sup>1</sup> .....                                     | (NA)                           | 203,449            | 204,970                  | 603,579            | 177,239  | 517,876            | 27,731     | 85,703             |
| 35222 03,04                       | 9-34 belt hp.....  | (NA)                           | 26,884             | 27,189                   | 49,008             | 23,178   | 41,269             | 4,011      | 7,739              |
| 35222 05                          | 35-39 belt hp.....   | (NA)                           | 23,985             | 23,385                   | 47,640             | 35,400   | 75,309             | 3,727      | 7,634              |
| 35222 06                          | 40-44 belt hp.....   | (NA)                           | 15,705             | 15,742                   | 35,303             |          |                    |            |                    |
| 35222 07                          | 45-49 belt hp.....   | (NA)                           | 30,128             | 30,733                   | 76,638             | 25,736   | 63,994             | 4,997      | 12,644             |
| 35222 08                          | 50-54 belt hp.....   | (NA)                           | 12,039             | 12,160                   | 33,997             | 11,432   | 32,035             | 728        | 1,962              |
| 35222 09                          | 55-59 belt hp.....   | (NA)                           | 12,191             | 12,393                   | 41,706             | 37,700   | 124,635            | 6,722      | 23,434             |
| 35222 11                          | 60-69 belt hp.....   | (NA)                           | 31,122             | 32,029                   | 106,363            |          |                    |            |                    |
| 35222 12,13                       | 70-89 belt hp.....   | (NA)                           | 31,887             | 32,117                   | 122,786            | 43,793   | 180,634            | 7,546      | 32,290             |
| 35222 14                          | 90 belt hp. and over.....  | (NA)                           | 19,508             | 19,222                   | 90,138             |          |                    |            |                    |
| (35222 20)                        | Attachments and parts, total <sup>2</sup> .....  | (NA)                           | (X)                | (X)                      | 167,097            | (X)      | 147,358            | (X)        | 19,739             |
| 35222 21                          | Attachments <sup>2</sup> .....   | (NA)                           | (X)                | (X)                      | 42,399             | (X)      | 36,694             | (X)        | 5,705              |
| 35222 23                          | Parts <sup>2</sup> .....   | (NA)                           | (X)                | (X)                      | 124,698            | (X)      | 110,664            | (X)        | 14,034             |
| (35223 00)                        | PLANTING, SEEDING, AND FERTILIZING MACHINERY,<br>TOTAL.....                              | 151                            | (X)                | (X)                      | 111,912            | (X)      | 104,389            | (X)        | 7,523              |
|                                   | Corn planters:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Drawn:   |                                |                    |                          |                    |          |                    |            |                    |
| 35223 11                          | 2-row.....   | 10                             | 22,109             | 23,914                   | 8,851              | 23,288   | 8,620              | 626        | 231                |
| 35223 13                          | 4-row.....   |                                |                    |                          |                    |          |                    |            |                    |
| 35223 15                          | 6-row and larger.....  |                                |                    |                          |                    |          |                    |            |                    |
| 35223 16                          | Mounted.....   | 4                              | 6,051              | 5,925                    | 589                | 5,925    | 589                | (D)        | (D)                |
|                                   | Corn and cotton planters (mounted):  |                                |                    |                          |                    |          |                    |            |                    |
| 35223 25                          | 1-row and 2-row.....   | 13                             | 12,140             | 13,136                   | 1,476              | 11,938   | 1,345              | 1,198      | 131                |
| 35223 26                          | 4-row.....   | 7                              | 3,186              | 3,426                    | 1,515              | 3,277    | 1,468              | 149        | 47                 |
| 35223 27                          | 6-row and larger.....  |                                |                    |                          |                    |          |                    |            |                    |
| 35223 33                          | Lister planting attachment units.....  | 4                              | 2,536              | 2,624                    | 256                | 2,624    | 256                | (D)        | (D)                |
| 35223 35                          | Potato planters, drawn or mounted.....   | (X)                            | (D)                | (D)                      | (D)                | (D)      | (D)                | (D)        | (D)                |
| 35223 41                          | Transplanters, drawn or mounted.....   | 10                             | 13,926             | 13,467                   | 2,337              | 12,856   | 2,204              | 611        | 133                |
|                                   | Grain drills, including legume planters:   |                                |                    |                          |                    |          |                    |            |                    |
| 35223 43                          | Fertilizer.....  | 10                             | 5,126              | 5,610                    | 2,971              | 5,222    | 2,775              | 388        | 196                |
|                                   | Plain:   |                                |                    |                          |                    |          |                    |            |                    |
| 35223 45                          | Press.....   | (X)                            | (D)                | (D)                      | (D)                | (D)      | (D)                | (D)        | (D)                |
| 35223 46                          | Other.....   |                                |                    |                          |                    |          |                    |            |                    |
| 35223 47                          | Fertilizer attachments for plain drills.....   | (X)                            | (D)                | (D)                      | (D)                | (D)      | (D)                | (D)        | (D)                |
| 35223 49                          | Broadcast seeders (end-gate, mounted and drawn)....                                      | 9                              | 20,395             | 20,158                   | 897                | 20,158   | 897                | (D)        | (D)                |
|                                   | Fertilizer distributors, drawn or mounted:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Dry:   |                                |                    |                          |                    |          |                    |            |                    |
| 35223 50                          | Gravity distribution.....  | 33                             | 30,292             | 29,943                   | 5,387              | 28,715   | 5,114              | 1,228      | 273                |
| 35223 51                          | Centrifugal distribution.....  | 15                             | 7,138              | 6,720                    | 3,842              | 6,578    | 3,814              | 142        | 28                 |
| 35223 52                          | Liquid.....  | 8                              | 4,926              | 4,790                    | 3,425              | 4,790    | 3,425              | (D)        | (D)                |
| 35223 54                          | Anhydrous ammonia.....   | (X)                            | (D)                | (D)                      | (D)                | (D)      | (D)                | (D)        | (D)                |
|                                   | Manure spreaders (ASAE rating):  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Power take-off (single beater):  |                                |                    |                          |                    |          |                    |            |                    |
| 35223 57                          | 115 bushels and under.....   | 10                             | 7,175              | 6,727                    | 2,999              | 6,727    | 2,999              | (D)        | (D)                |
| 35223 58                          | Over 115 bushels.....  | 13                             | 17,762             | 17,152                   | 8,905              | 15,118   | 7,847              | 2,034      | 1,058              |
|                                   | Power take-off (multiple beater):  |                                |                    |                          |                    |          |                    |            |                    |
| 35223 61                          | 115 bushels and under.....   | 5                              | (D)                | 908                      | 484                | 908      | 484                | (D)        | (D)                |
| 35223 62                          | Over 115 bushels.....  | 10                             | 11,084             | 9,594                    | 5,721              | 8,637    | 5,108              | 957        | 613                |
| 35223 63                          | Ground drive.....  | 7                              | 8,181              | 7,640                    | 2,813              | 6,628    | 2,445              | 1,012      | 368                |
|                                   | Loaders (farm type), manure and general utility<br>(except beet and sugar cane loaders): |                                |                    |                          |                    |          |                    |            |                    |
| 35223 71                          | Front mounted.....   | 27                             | 41,241             | 39,288                   | 15,230             | 34,761   | 13,850             | 4,527      | 1,380              |
| 35223 73                          | Rear mounted.....  |                                |                    |                          |                    |          |                    |            |                    |
| 35223 75                          | Row crop unit planters for attaching to tool bars..                                      | 6                              | 30,903             | 25,183                   | 2,541              | 23,149   | 2,328              | 2,034      | 213                |
| 35223 81                          | Other planting, seeding, and fertilizing machinery.                                      | 37                             | (X)                | (X)                      | 3,822              | (X)      | 3,740              | (X)        | 82                 |
| 35223 83                          | Attachments.....   | 26                             | (X)                | (X)                      | 12,594             | (X)      | 11,944             | (X)        | 650                |
| 35223 85                          | Parts.....   | 44                             | (X)                | (X)                      | 14,298             | (X)      | 13,618             | (X)        | 680                |

See footnotes at end of table.



TABLE 6A-8. Farm Machines and Equipment: 1963 and 1958—Continued

| 1958<br>Census<br>product<br>code | Type of farm equipment   | 1958                           |                    |                          |                    |          |                    |            |                    |
|-----------------------------------|--|--------------------------------|--------------------|--------------------------|--------------------|----------|--------------------|------------|--------------------|
|                                   |  | Number<br>of<br>com-<br>panies | Number<br>produced | Manufacturers' shipments |                    |          |                    |            |                    |
|                                   |  |                                |                    | Total                    |                    | Domestic |                    | For export |                    |
|                                   |  |                                |                    | Number                   | Value<br>(\$1,000) | Number   | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) |
|                                   | WHEEL TRACTORS AND PARTS AND ATTACHMENTS, TOTAL                                    | (NA)                           | (X)                | (X)                      | 657,721            | (X)      | 596,371            | (X)        | 61,350             |
| (35222 10)                        | Wheel-type (except garden), total <sup>1</sup> .....                               | (NA)                           | 241,269            | 239,161                  | 494,131            | 215,961  | 443,048            | 23,200     | 51,083             |
|                                   | 9-34 belt hp.....  | (NA)                           | 50,894             | 47,675                   | 70,521             | 43,652   | 64,295             | 4,023      | 6,226              |
|                                   | 35-39 belt hp.....   | (NA)                           | 44,075             | 45,377                   | 80,391             | 41,270   | 74,381             | 4,107      | 6,010              |
|                                   | 40-49 belt hp.....   | (NA)                           | 54,502             | 50,822                   | 103,201            | 46,913   | 95,124             | 3,909      | 8,077              |
|                                   | 50-54 belt hp.....   | (NA)                           | 69,221             | 41,382                   | 85,442             | 37,455   | 77,186             | 3,927      | 8,256              |
|                                   | 55-59 belt hp.....   | (NA)                           |                    |                          |                    |          |                    |            |                    |
|                                   | 60 belt hp. and over.....  | (NA)                           | 22,587             | 22,907                   | 65,411             | 17,856   | 49,235             | 5,051      | 16,176             |
| (35222 20)                        | Attachments and parts, total.....  | (NA)                           | (X)                | (X)                      | 163,590            | (X)      | 153,323            | (X)        | 10,267             |
|                                   | Attachments.....   | (NA)                           | (X)                | (X)                      | 53,814             | (X)      | 50,039             | (X)        | 3,775              |
|                                   | Parts.....   | (NA)                           | (X)                | (X)                      | 109,776            | (X)      | 103,284            | (X)        | 6,492              |
| (35223 00)                        | PLANTING, SEEDING, AND FERTILIZING MACHINERY,<br>TOTAL.....                        | (X)                            | (X)                | (X)                      | 101,197            | (X)      | 96,560             | (X)        | 4,637              |
|                                   | Corn planters:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Drawn:   |                                |                    |                          |                    |          |                    |            |                    |
| 35223 11                          | 1-row and 2-row.....   | 8                              | 15,649             | 16,647                   | 1,227              | 16,501   | 1,201              | 146        | 26                 |
| 35223 13                          | 3-row and larger.....  | 7                              | 31,512             | 29,531                   | 10,786             | 29,324   | 10,709             | 207        | 77                 |
|                                   | Mounted:   |                                |                    |                          |                    |          |                    |            |                    |
| 35223 16                          | 1-row and 2-row.....   | 9                              | 11,803             | 14,623                   | 1,467              | 13,869   | 1,397              | 754        | 70                 |
| 35223 18                          | 3-row and larger.....  | 5                              | 592                | 719                      | 217                | 719      | 217                | (D)        | (D)                |
|                                   | Corn and cotton planters:  |                                |                    |                          |                    |          |                    |            |                    |
| 35223 21                          | Drawn.....   | 9                              | 3,093              | 3,127                    | 269                | 3,127    | 269                | (D)        | (D)                |
|                                   | Mounted:   |                                |                    |                          |                    |          |                    |            |                    |
| 35223 25                          | 1-row and 2-row.....   | 11                             | 19,399             | 18,254                   | 1,544              | 17,365   | 1,479              | 889        | 65                 |
| 35223 27                          | 3-row and larger.....  | 7                              | 2,474              | 2,693                    | 862                | 2,378    | 773                | 315        | 89                 |
| 35223 33                          | Lister planting attachment units.....  | 4                              | (D)                | 2,406                    | 306                | 2,406    | 306                | (D)        | (D)                |
| 35223 35                          | Potato planters, drawn or mounted.....   | 3                              | 1,030              | 950                      | 534                | 950      | 534                | (D)        | (D)                |
| 35223 41                          | Transplanters, drawn or mounted.....   | 15                             | 7,477              | 7,598                    | 1,463              | 7,598    | 1,463              | (D)        | (D)                |
|                                   | Grain drills, including legume planters:   |                                |                    |                          |                    |          |                    |            |                    |
| 35223 43                          | Fertilizer.....  | 10                             | 13,675             | 12,826                   | 6,026              | 11,360   | 5,183              | 1,466      | 843                |
| 35223 45                          | Plain.....   | 10                             | 10,817             | 10,310                   | 3,733              | 9,871    | 3,546              | 439        | 187                |
|                                   | Broadcast seeders:   |                                |                    |                          |                    |          |                    |            |                    |
| 35223 47                          | Hand-type.....   | 15                             | (NA)               | (NA)                     | 983                | (NA)     | 983                | (D)        | (D)                |
| 35223 49                          | End-gate, mounted, and drawn.....  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Fertilizer distributors, drawn or mounted:   |                                |                    |                          |                    |          |                    |            |                    |
| 35223 50                          | Dry.....   | 40                             | 34,484             | 28,357                   | 3,804              | 26,606   | 3,581              | 1,751      | 223                |
| 35223 52                          | Liquid.....  | 9                              | 1,077              | 1,024                    | 438                | 1,024    | 438                | (D)        | (D)                |
| 35223 54                          | Anhydrous ammonia.....   | 8                              | 2,260              | 2,239                    | 1,196              | 2,239    | 1,196              | (D)        | (D)                |
| 35223 55                          | Lime spreaders.....  | 8                              | 3,026              | 3,654                    | 794                | 3,654    | 792                | (D)        | (D)                |
|                                   | Manure spreaders:  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | 2-wheel:   |                                |                    |                          |                    |          |                    |            |                    |
| 35223 61                          | Power drive.....   | 16                             | 23,864             | 24,344                   | 10,611             | 23,622   | 10,324             | 722        | 287                |
| 35223 63                          | Ground drive.....  | 9                              | 32,781             | 35,156                   | 12,434             | 32,017   | 11,338             | 3,139      | 1,096              |
| 35223 65                          | 4-wheel.....   | 4                              | (D)                | 646                      | 207                | 646      | 207                | (D)        | (D)                |
|                                   | Loaders, manure and general utility (except hay,<br>beet, and sugar cane loaders): |                                |                    |                          |                    |          |                    |            |                    |
| 35223 71                          | Front mounted.....   | 32                             | 38,187             | 38,205                   | 10,803             | 35,619   | 10,050             | 2,586      | 753                |
| 35223 73                          | Rear mounted.....  | 6                              | 2,447              | 2,717                    | 922                | 2,717    | 922                | (D)        | (D)                |
| 35223 81                          | Other planting, seeding, and fertilizing machinery.                                | 40                             | (X)                | (X)                      | 4,901              | (X)      | 4,750              | (X)        | 151                |
| 35223 83                          | Attachments.....   | 31                             | (X)                | (X)                      | 10,133             | (X)      | 9,758              | (X)        | 375                |
| 35223 85                          | Parts.....   | 57                             | (X)                | (X)                      | 15,539             | (X)      | 15,144             | (X)        | 395                |

See footnotes at end of table.

TABLE 6A-8. Farm Machines and Equipment: 1963 and 1958—Continued

| 1963<br>Census<br>product<br>code | Type of farm equipment   | 1963                           |                    |                          |                    |          |                    |            |                    |
|-----------------------------------|--|--------------------------------|--------------------|--------------------------|--------------------|----------|--------------------|------------|--------------------|
|                                   |  | Number<br>of<br>com-<br>panies | Number<br>produced | Manufacturers' shipments |                    |          |                    |            |                    |
|                                   |  |                                |                    | Total                    |                    | Domestic |                    | For export |                    |
|                                   |  |                                |                    | Number                   | Value<br>(\$1,000) | Number   | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) |
| (35224 10)                        | HARROWS, ROLLERS, PULVERIZERS, STALK CUTTERS,<br>AND SIMILAR EQUIPMENT, TOTAL..... | 175                            | (X)                | (X)                      | 114,791            | (X)      | 108,861            | (X)        | 5,930              |
|                                   | Harrows:   |                                |                    |                          |                    |          |                    |            |                    |
| 35224 01                          | Spike-tooth harrow sections.....   | 25                             | 115,475            | 113,140                  | 3,380              | 113,140  | 3,380              | (D)        | (D)                |
| 35224 02                          | Spring-tooth harrow sections.....  | 20                             | 70,500             | 62,523                   | 2,878              | 59,826   | 2,758              | 2,697      | 120                |
| 35224 03                          | Tine-tooth harrow sections.....  | 10                             | 16,188             | 15,699                   | 524                | 14,613   | 486                | 1,086      | 38                 |
|                                   | Disc harrows:  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Single (2-gang):   |                                |                    |                          |                    |          |                    |            |                    |
| 35224 04                          | Drawn.....   | 14                             | 7,811              | 7,833                    | 1,215              | 7,719    | 1,188              | 114        | 27                 |
| 35224 05                          | Mounted.....   | 9                              | 2,710              | 2,614                    | 873                | 2,526    | 861                | 88         | 12                 |
|                                   | Tandem (4-gang):   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Drawn:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Wheel type:  |                                |                    |                          |                    |          |                    |            |                    |
| 35224 06                          | Under 15 ft. width of cut.....   | 24                             | 53,735             | 53,148                   | 28,052             | 51,097   | 27,043             | 2,051      | 1,009              |
| 35224 07                          | 15 ft. width of cut and over.....  | 9                              | 4,876              | 4,920                    | 4,237              | 4,729    | 4,103              | 191        | 134                |
| 35224 08                          | Other.....   | 11                             | 8,548              | 9,084                    | 2,307              | 8,292    | 2,054              | 792        | 253                |
| 35224 09                          | Mounted.....   | 20                             | 11,410             | 11,508                   | 2,480              | 11,137   | 2,395              | 371        | 85                 |
|                                   | Offset:  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Drawn:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Wheel type:  |                                |                    |                          |                    |          |                    |            |                    |
| 35224 10                          | Other.....   | 18                             | 5,315              | 5,307                    | 4,253              | 4,598    | 3,873              | 709        | 380                |
| 35224 11                          | Mounted.....   | 11                             | 3,331              | 3,529                    | 5,474              | 2,601    | 4,177              | 928        | 1,297              |
| 35224 12                          | Brush and bogs.....  | 6                              | 482                | 499                      | 140                | 499      | 140                | (D)        | (D)                |
| 35224 13                          | Other harrows.....   | 10                             | 3,221              | 3,524                    | 583                | 3,524    | 583                | (D)        | (D)                |
| 35224 14                          | Soil pulverizers, packers, and land rollers.....                                   | 31                             | 11,631             | 11,520                   | 4,119              | 11,285   | 4,017              | 235        | 102                |
|                                   | Stalk shredders and cutters or rotary mowers<br>(power take-off):                  |                                |                    |                          |                    |          |                    |            |                    |
| 35224 17                          | Flail-type (without spout).....  | 14                             | 7,255              | 7,277                    | 3,122              | 7,277    | 3,122              | (D)        | (D)                |
|                                   | Horizontal-blade type:   |                                |                    |                          |                    |          |                    |            |                    |
| 35224 18                          | 66 inches cutting width and under.....   | 36                             | 54,132             | 52,824                   | 14,539             | 50,629   | 14,049             | 2,195      | 490                |
| 35224 19                          | Over 66 inches up to 100 inches cutting width..                                    | 17                             | 11,286             | 11,355                   | 4,463              | 11,043   | 4,302              | 312        | 161                |
| 35224 20                          | Over 100 inches cutting width.....   | 11                             | 1,742              | 1,718                    | 1,727              | 1,718    | 1,727              | (D)        | (D)                |
|                                   | Blade terracers or scrapers (farm size):   |                                |                    |                          |                    |          |                    |            |                    |
| 35224 22                          | Wheel type.....  | 11                             | 2,531              | 2,610                    | 1,800              | 2,610    | 1,800              | (D)        | (D)                |
| 35224 23                          | Other.....   | 26                             | 47,701             | 46,777                   | 3,733              | 45,407   | 3,607              | 1,370      | 126                |
| 35224 24                          | Land levelers.....   | 24                             | 7,553              | 7,500                    | 3,066              | 6,632    | 2,481              | 868        | 585                |
| 35224 25                          | Wheel-type folding drawbars for harrow and rotary<br>hoe sections.....             | 11                             | 15,691             | 15,759                   | 2,042              | 15,759   | 2,042              | (D)        | (D)                |
| 35224 26                          | Other rollers, pulverizers, and similar equipm..                                   | 21                             | 4,204              | 4,201                    | 2,716              | 3,960    | 2,537              | 241        | 179                |
| 35224 27                          | Attachments.....   | 24                             | (X)                | (X)                      | 3,098              | (X)      | 2,832              | (X)        | 266                |
| 35224 28                          | Parts.....   | 67                             | (X)                | (X)                      | 13,228             | (X)      | 12,697             | (X)        | 531                |
| (35224 20)                        | PLOWS AND LISTERS, TOTAL.....  | 93                             | (X)                | (X)                      | 76,840             | (X)      | 70,852             | (X)        | 5,988              |
|                                   | Moldboard plows:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Tractor-drawn 1-way:   |                                |                    |                          |                    |          |                    |            |                    |
| 35224 31                          | 1-bottom and 2-bottom.....   | 8                              | 2,704              | 2,773                    | 143                | 2,773    | 143                | (D)        | (D)                |
| 35224 32                          | 3-bottom.....  | 6                              | 5,259              | 4,855                    | 1,935              | 4,680    | 1,858              | 175        | 77                 |
| 35224 33                          | 4-bottom.....  | 5                              | 6,410              | 6,672                    | 3,494              | 6,283    | 3,295              | 389        | 199                |
| 35224 34                          | 5-bottom.....  | 6                              | 2,150              | 2,541                    | 1,772              | 2,225    | 1,575              | 316        | 197                |
| 35224 35                          | 6-bottom and larger.....   | 6                              | 441                | 674                      | 513                | 563      | 453                | 111        | 60                 |
|                                   | Tractor-drawn 2-way:   |                                |                    |                          |                    |          |                    |            |                    |
| 35224 36                          | 1-furrow and 2-furrow.....   | 5                              | 130                | 145                      | 356                | 145      | 356                | (D)        | (D)                |
| 35224 37                          | 3-furrow and larger.....   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Mounted, 1-way:  |                                |                    |                          |                    |          |                    |            |                    |
| 35224 38                          | 1-bottom and 2-bottom.....   | 7                              | 16,118             | 16,055                   | 2,130              | 15,610   | 2,064              | 445        | 66                 |
|                                   | 3-bottom:  |                                |                    |                          |                    |          |                    |            |                    |
| 35224 39                          | Mounted.....   | 6                              | 18,652             | 19,947                   | 4,788              | 18,604   | 4,482              | 1,343      | 306                |
| 35224 41                          | Semimounted.....   |                                |                    |                          |                    |          |                    |            |                    |

See footnotes at end of table.



TABLE 6A-8. Farm Machines and Equipment: 1963 and 1958—Continued

| 1958<br>Census<br>product<br>code | Type of farm equipment  | 1958                           |                    |                          |                    |          |                    |            |                    |
|-----------------------------------|---|--------------------------------|--------------------|--------------------------|--------------------|----------|--------------------|------------|--------------------|
|                                   |   | Number<br>of<br>com-<br>panies | Number<br>produced | Manufacturers' shipments |                    |          |                    |            |                    |
|                                   |   |                                |                    | Total                    |                    | Domestic |                    | For export |                    |
|                                   |   |                                |                    | Number                   | Value<br>(\$1,000) | Number   | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) |
| (35224 10)                        | HARROWS, ROLLERS, PULVERIZERS, AND STALK CUTTERS, TOTAL <sup>3</sup> .....        | (X)                            | (X)                | (X)                      | 92,054             | (X)      | 85,074             | (X)        | 6,980              |
|                                   | Harrows:  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Spike-tooth harrow sections.....  | 34                             | 136,521            | 140,410                  | 3,616              | 137,647  | 3,548              | 2,763      | 68                 |
|                                   | Spring-tooth harrow sections.....   | 22                             | 74,211             | 75,111                   | 2,828              | 72,882   | 2,753              | 2,229      | 75                 |
|                                   | Disc harrows:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Single (2 gang):  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Drawn.....  | 17                             | 2,476              | 3,148                    | 680                | 2,731    | 501                | 417        | 179                |
|                                   | Mounted.....  | 13                             | 3,559              | 3,733                    | 618                | 3,539    | 579                | 194        | 39                 |
|                                   | Tandem (4 gang):  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Drawn:  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Wheel type.....   | 24                             | 57,018             | 56,897                   | 24,542             | 55,132   | 23,533             | 1,765      | 1,009              |
|                                   | Other.....  | 19                             | 10,669             | 10,718                   | 2,832              | 9,400    | 2,404              | 1,318      | 428                |
|                                   | Mounted.....  | 21                             | 21,938             | 21,465                   | 4,004              | 20,650   | 3,816              | 815        | 188                |
|                                   | Offset:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Drawn:  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Wheel type.....   | 16                             | 5,823              | 5,789                    | 3,169              | 5,204    | 2,847              | 585        | 322                |
|                                   | Other type.....   | 16                             | 6,920              | 7,001                    | 4,973              | 4,501    | 3,266              | 2,500      | 1,707              |
|                                   | Mounted.....  | 17                             | 3,186              | 3,485                    | 851                | 2,130    | 472                | 1,355      | 379                |
|                                   | Brush and bog.....  | 9                              | 1,055              | 1,212                    | 229                | 1,184    | 224                | 28         | 5                  |
|                                   | Other harrows.....  | 13                             | 3,473              | 3,550                    | 591                | 3,550    | 591                | (D)        | (D)                |
|                                   | Soil pulverizers, packers, and land rollers.....                                  | 35                             | 13,123             | 12,516                   | 2,637              | 12,351   | 2,557              | 165        | 80                 |
|                                   | Stalk cutters (ground driven).....  | 12                             | 874                | 951                      | 285                | 951      | 285                | (D)        | (D)                |
|                                   | Stalk shredders, and stalk cutters, or rotary mowers (power take-off driven)..... | 39                             | 53,957             | 52,259                   | 16,145             | 50,649   | 15,568             | 1,610      | 577                |
|                                   | Blade terracers or scrapers (farm size):  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Wheel type.....   | 16                             | 3,698              | 3,703                    | 2,155              | 3,576    | 1,990              | 127        | 165                |
|                                   | Other.....  | 19                             | 33,775             | 33,684                   | 2,892              | 32,656   | 2,778              | 1,028      | 114                |
|                                   | Land levelers.....  | 22                             | 5,616              | 5,456                    | 2,502              | 4,839    | 2,188              | 617        | 314                |
|                                   | Other rollers, pulverizers, and similar equipment..                               | 22                             | 4,372              | 4,479                    | 949                | 4,233    | 782                | 246        | 167                |
|                                   | Attachments.....  | 41                             | (X)                | (X)                      | 4,737              | (X)      | 4,471              | (X)        | 266                |
|                                   | Parts.....  | 77                             | (X)                | (X)                      | 10,819             | (X)      | 9,921              | (X)        | 898                |
| (35224 20)                        | PLOWS AND LISTERS, TOTAL <sup>3</sup> .....                                       | (X)                            | (X)                | (X)                      | 73,908             | (X)      | 68,607             | (X)        | 5,301              |
|                                   | Moldboard plows:  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Horse drawn.....  | 9                              | 16,633             | 17,008                   | 235                | 1,505    | 27                 | 15,503     | 208                |
|                                   | Tractor drawn, 1-way:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | 1-bottom.....   | 6                              | 2,047              | 2,163                    | 55                 | 2,163    | 55                 | -          | -                  |
|                                   | 2-bottom.....   | 8                              | 5,557              | 4,894                    | 1,044              | 4,746    | 1,002              | 148        | 42                 |
|                                   | 3-bottom.....   | 6                              | 20,559             | 20,396                   | 6,301              | 19,605   | 6,077              | 791        | 224                |
|                                   | 4-bottom.....   | 4                              | 14,556             | 14,521                   | 6,262              | 14,142   | 6,093              | 379        | 169                |
|                                   | 5-bottom and larger.....  | 4                              | 3,567              | 3,449                    | 2,136              | 3,309    | 2,058              | 140        | 78                 |
|                                   | Tractor drawn, 2-way:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | 2-bottom, 1 furrow.....   | -                              | -                  | -                        | -                  | -        | -                  | -          | -                  |
|                                   | 4-bottom, 2 furrow.....   | 6                              | 1,412              | 1,290                    | 539                | 1,290    | 539                | (D)        | (D)                |
|                                   | Mounted, 1-way:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | 1-bottom.....   | 6                              | 2,957              | 3,047                    | 182                | 3,047    | 182                | (D)        | (D)                |
|                                   | 2-bottom.....   | 6                              | 19,896             | 22,051                   | 2,840              | 20,987   | 2,686              | 1,064      | 154                |
|                                   | 3-bottom.....   | 6                              | 26,048             | 31,338                   | 6,861              | 30,708   | 6,755              | 630        | 106                |

See footnotes at end of table.

TABLE 6A-8. Farm Machines and Equipment: 1963 and 1958—Continued

| 1963<br>Census<br>product<br>code | Type of farm equipment  | 1963                           |                    |                          |                    |          |                    |            |                    |
|-----------------------------------|---|--------------------------------|--------------------|--------------------------|--------------------|----------|--------------------|------------|--------------------|
|                                   |   | Number<br>of<br>com-<br>panies | Number<br>produced | Manufacturers' shipments |                    |          |                    |            |                    |
|                                   |   |                                |                    | Total                    |                    | Domestic |                    | For export |                    |
|                                   |   |                                |                    | Number                   | Value<br>(\$1,000) | Number   | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) |
| (35224 20)                        | PLOWS AND LISTERS—Continued   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Moldboard plows—Continued   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Mounted, 1-way—Continued  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | 4-bottom:   |                                |                    |                          |                    |          |                    |            |                    |
| 35224 42                          | Mounted.....  | 3                              | 4,318              | 4,137                    | 1,645              | 4,137    | 1,645              | (D)        | (D)                |
| 35224 43                          | Semimounted.....  | 4                              | 11,485             | 11,624                   | 5,859              | 11,624   | 5,859              | (D)        | (D)                |
|                                   | 5-bottom and larger:  |                                |                    |                          |                    |          |                    |            |                    |
| 35224 44                          | Mounted.....  | 5                              | 10,587             | 10,615                   | 6,689              | 10,396   | 6,567              | 219        | 122                |
| 35224 45                          | Semimounted.....  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Mounted, 2-way:   |                                |                    |                          |                    |          |                    |            |                    |
| 35224 46                          | 1-furrow.....   | 10                             | 733                | 825                      | 287                | 825      | 287                | (D)        | (D)                |
| 35224 47                          | 2-furrow.....   |                                |                    |                          |                    |          |                    |            |                    |
| 35224 48                          | 3-furrow.....   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Disc plows, 1-way:  |                                |                    |                          |                    |          |                    |            |                    |
| 35224 49                          | Drawn.....  | 11                             | 657                | 777                      | 540                | 417      | 256                | 360        | 284                |
| 35224 50                          | Mounted.....  | 7                              | 1,242              | 1,188                    | 405                | 743      | 246                | 445        | 159                |
|                                   | Disc plows, reversible, 2-way:  |                                |                    |                          |                    |          |                    |            |                    |
| 35224 51                          | Drawn.....  | 7                              | 659                | 689                      | 770                | 601      | 721                | 88         | 49                 |
| 35224 52                          | Mounted.....  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | One-way disc plows or tiller:   |                                |                    |                          |                    |          |                    |            |                    |
| 35224 53                          | Width of cut under 10 feet.....   | 11                             | 1,757              | 1,688                    | 593                | 1,217    | 436                | 471        | 157                |
| 35224 54                          | Width of cut 10 feet and over.....  | 6                              | 2,311              | 2,476                    | 1,611              | 2,476    | 1,611              | (D)        | (D)                |
| 35224 55                          | Subsoilers (deep tillage).....  | 12                             | 3,270              | 3,436                    | 259                | 3,436    | 259                | (D)        | (D)                |
| 35224 56                          | Terracing and ditching plows.....   | 14                             | 2,600              | 2,766                    | 504                | 2,555    | 462                | 211        | 42                 |
| 35224 57                          | Chisel plows or tillers (chisel or sweep type).....   | 15                             | 11,674             | 10,886                   | 5,084              | 7,848    | 3,550              | 3,038      | 1,534              |
| 35224 58                          | Other plows, except snow plows.....   | 11                             | 11,776             | 11,959                   | 1,207              | 11,959   | 1,207              | (D)        | (D)                |
|                                   | Listers (middlebusters, middlebrakers, and<br>bedders), with or without planting attachments:   |                                |                    |                          |                    |          |                    |            |                    |
| 35224 59                          | Drawn.....  | 10                             | 13,040             | 12,635                   | 2,252              | 12,635   | 2,252              | (D)        | (D)                |
| 35224 60                          | Mounted.....  |                                |                    |                          |                    |          |                    |            |                    |
| 35224 61                          | Attachments, except planting attachments for<br>listers (coulters, jointers, root cutters, sub-<br>soilers, fertilizer distributors, etc.)..... | 24                             | (X)                | (X)                      | 8,271              | (X)      | 7,729              | (X)        | 542                |
| 35224 62                          | Plowshares (quantity in thousands of pounds).....   | 21                             | 29,497             | 30,432                   | 10,278             | 29,098   | 9,849              | 1,334      | 429                |
| 35224 63                          | Parts for plows and listers, except plowshares.....   | 35                             | (X)                | (X)                      | 12,881             | (X)      | 11,468             | (X)        | 1,413              |
| (35225 00)                        | HARVESTING MACHINERY, TOTAL.....  | 128                            | (X)                | (X)                      | 386,007            | (X)      | 344,012            | (X)        | 41,995             |
|                                   | Combines (harvester-threshers):   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Pull type:  |                                |                    |                          |                    |          |                    |            |                    |
| 35225 11                          | 6 feet and under.....   | -                              | -                  | -                        | -                  | -        | -                  | -          | -                  |
| 35225 13                          | Over 6 feet and under 9 feet.....   | 7                              | 4,798              | 4,727                    | 10,857             | 2,910    | 6,123              | 1,817      | 4,734              |
| 35225 15                          | 9 feet and under 12 feet.....   |                                |                    |                          |                    |          |                    |            |                    |
| 35225 17                          | 12 feet and over.....   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Self-propelled: (basic units without heads)   |                                |                    |                          |                    |          |                    |            |                    |
| 35225 18                          | Under 14 feet header size.....  | 7                              | 15,096             | 14,547                   | 51,013             | 12,304   | 43,335             | 2,243      | 7,678              |
| 35225 19                          | 14 feet and under 16 feet header size.....  | 6                              | 5,652              | 5,328                    | 25,063             | 4,944    | 21,129             | 884        | 3,934              |
| 35225 20                          | 16 feet and under 20 feet header size.....  | 5                              | 6,415              | 6,540                    | 35,880             | 4,833    | 27,268             | 1,707      | 8,612              |
| 35225 21                          | 20 feet and over header size.....   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Grain heads:  |                                |                    |                          |                    |          |                    |            |                    |
| 35225 22                          | Under 14 feet header size.....  | 4                              | 20,617             | 19,622                   | 10,998             | 16,660   | 9,157              | 2,962      | 1,841              |
| 35225 23                          | 14 feet and under 16 feet header size.....  | 4                              | 4,037              | 3,950                    | 2,781              | 2,942    | 2,063              | 1,008      | 718                |
| 35225 24                          | 16 feet under 20 feet header size.....  | 4                              | 2,656              | 2,641                    | 2,169              | 1,920    | 1,548              | 721        | 621                |
| 35225 25                          | 20 feet and over header size.....   | 3                              | 225                | 305                      | 272                | 305      | 272                | (D)        | (D)                |
|                                   | Corn heads:   |                                |                    |                          |                    |          |                    |            |                    |
| 35225 26                          | 2-row.....  | 6                              | 11,834             | 11,926                   | 13,127             | 11,594   | 12,764             | 332        | 363                |
| 35225 27                          | 4-row.....  | 3                              | 920                | 1,018                    | 2,472              | 990      | 2,405              | 28         | 67                 |
|                                   | Windrowers or swathers:   |                                |                    |                          |                    |          |                    |            |                    |
| 35225 33                          | Drawn.....  | 7                              | 5,917              | 6,000                    | 13,191             | 5,345    | 11,796             | 655        | 1,395              |
| 35225 35                          | Self-propelled.....   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Corn pickers:   |                                |                    |                          |                    |          |                    |            |                    |
| 35225 41                          | 1-row (drawn or mounted).....   | 5                              | 3,814              | 4,603                    | 3,508              | 4,126    | 3,049              | 477        | 459                |

See footnotes at end of table.



TABLE 6A-8. Farm Machines and Equipment: 1963 and 1958—Continued

| 1958<br>Census<br>product<br>code | Type of farm equipment  | 1958                           |                    |                          |                    |          |                    |            |                    |
|-----------------------------------|---|--------------------------------|--------------------|--------------------------|--------------------|----------|--------------------|------------|--------------------|
|                                   |   | Number<br>of<br>com-<br>panies | Number<br>produced | Manufacturers' shipments |                    |          |                    |            |                    |
|                                   |   |                                |                    | Total                    |                    | Domestic |                    | For export |                    |
|                                   |   |                                |                    | Number                   | Value<br>(\$1,000) | Number   | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) |
| (35224 20)                        | PLOWS AND LISTERS—Continued   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Moldboard plows—Continued   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Mounted, 1-way—Continued  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | 4-bottom and larger.....  | 5                              | 8,709              | 11,087                   | 3,628              | 10,837   | 3,553              | 250        | 75                 |
|                                   | Mounted, 2-way.....   | 10                             | 3,930              | 4,252                    | 1,415              | 4,159    | 1,391              | 93         | 24                 |
|                                   | Disc plows, drawn:  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | 1-, 2-, and 3-disc.....   | 11                             | 2,876              | 3,133                    | 577                | 2,447    | 373                | 686        | 204                |
|                                   | 4-disc and larger.....  | 9                              | 2,325              | 2,544                    | 1,749              | 662      | 650                | 1,882      | 1,099              |
|                                   | Disc plows, mounted:  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | 1- and 2-disc.....  | 8                              | 1,204              | 1,658                    | 290                | 1,443    | 245                | 215        | 45                 |
|                                   | 3-disc and larger.....  | 10                             | 3,398              | 2,975                    | 1,014              | 1,947    | 670                | 1,028      | 344                |
|                                   | One-way disc plows or tillers:                                      |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Width of cut under 5 feet.....                                      | 8                              | 827                | 1,014                    | 277                | 897      | 256                | 117        | 21                 |
|                                   | Width of cut 5 feet and larger.....                                 | 10                             | 4,496              | 4,754                    | 2,785              | 4,754    | 2,785              | (D)        | (D)                |
|                                   | Subsoilers (deep tillage).....                                      | 18                             | 7,750              | 7,902                    | 1,925              | 5,965    | 1,258              | 1,937      | 667                |
|                                   | Terracing and ditching plows.....                                   | 16                             | 4,071              | 3,943                    | 634                | 3,713    | 589                | 230        | 45                 |
|                                   | Rotary-tiller plows, field type.....                                | 19                             | 3,366              | 3,477                    | 1,037              | 3,464    | 1,014              | 13         | 23                 |
|                                   | Other plows.....  | 15                             | 15,140             | 12,969                   | 2,367              | 12,234   | 2,277              | 735        | 90                 |
|                                   | Listers, with or without planting attachments.....                  | 29                             | (X)                | (X)                      | 7,123              | (X)      | 6,839              | (X)        | 284                |
|                                   | Attachments for plows and listers, except planting attachments..... | 23                             | 35,950             | 38,128                   | 9,923              | 36,717   | 9,453              | 1,411      | 470                |
|                                   | Flow shares (quantity in thousands of pounds).....                  | 50                             | (X)                | (X)                      | 12,709             | (X)      | 11,780             | (X)        | 929                |
|                                   | Parts for plows and listers, except plow shares....                 |                                |                    |                          |                    |          |                    |            |                    |
| (35225 00)                        | HARVESTING MACHINERY, TOTAL <sup>2</sup> .....                      | (X)                            | (X)                | (X)                      | 311,916            | (X)      | 294,948            | (X)        | 16,968             |
|                                   | Combines (harvester-threshers):                                     |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Pull type:  |                                |                    |                          |                    |          |                    |            |                    |
| 35225 11                          | 6 feet and under.....   | 5                              | 6,574              | 6,745                    | 7,485              | 6,745    | 7,485              | (D)        | (D)                |
| 35225 13                          | Over 6 feet and under 9 feet.....                                   | 7                              | 14,464             | 14,048                   | 19,009             | 13,154   | 17,837             | 894        | 1,172              |
| 35225 15                          | 9 feet and under 12 feet.....                                       | 6                              | 1,132              | 1,271                    | 3,234              | 1,011    | 2,673              | 260        | 561                |
| 35225 17                          | 12 feet and over.....   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Self-propelled:   |                                |                    |                          |                    |          |                    |            |                    |
| 35225 22                          | Under 12 feet.....  | 5                              | 6,958              | 7,030                    | 24,029             | 6,713    | 22,956             | 317        | 1,073              |
| 35225 26                          | 12 feet and under 15 feet.....                                      | 7                              | 18,009             | 17,963                   | 79,141             | 16,424   | 72,264             | 1,539      | 6,877              |
| 35225 27                          | 15 feet and over.....   |                                |                    |                          |                    |          |                    |            |                    |
| 35225 28                          | Corn picking units (attachments for combines)....                   | 6                              | 5,974              | 6,094                    | 5,611              | 5,991    | 5,514              | 103        | 97                 |
|                                   | Windrowers and swathers:  |                                |                    |                          |                    |          |                    |            |                    |
| 35225 33                          | Pull type.....  | 7                              | 555                | 1,031                    | 514                | 1,031    | 514                | (D)        | (D)                |
| 35225 35                          | Self-propelled.....   | 6                              | (D)                | 2,880                    | 4,795              | 2,880    | 4,795              | (D)        | (D)                |
|                                   | Corn pickers:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Drawn:  |                                |                    |                          |                    |          |                    |            |                    |
| 35225 41                          | 1-row.....  | 6                              | 4,872              | 5,342                    | 4,321              | 4,809    | 3,946              | 533        | 375                |

See footnotes at end of table.

TABLE 6A-8. Farm Machines and Equipment: 1963 and 1958—Continued

| 1963<br>Census<br>product<br>code | Type of farm equipment   | 1963                           |                    |                          |                    |          |                    |            |                    |        |
|-----------------------------------|--|--------------------------------|--------------------|--------------------------|--------------------|----------|--------------------|------------|--------------------|--------|
|                                   |  | Number<br>of<br>com-<br>panies | Number<br>produced | Manufacturers' shipments |                    |          |                    |            |                    |        |
|                                   |  |                                |                    | Total                    |                    | Domestic |                    | For export |                    |        |
|                                   |  |                                |                    | Number                   | Value<br>(\$1,000) | Number   | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) |        |
| (35225 00)                        | HARVESTING MACHINERY—Continued   |                                |                    |                          |                    |          |                    |            |                    |        |
|                                   | Corn pickers—Continued   |                                |                    |                          |                    |          |                    |            |                    |        |
|                                   | 2-row:   |                                |                    |                          |                    |          |                    |            |                    |        |
| 35225 45                          | Drawn.....   | }                              | 8                  | 16,637                   | 16,652             | 28,499   | 16,161             | 27,712     | 491                | 787    |
| 35225 47                          | Mounted.....   |                                |                    |                          |                    |          |                    |            |                    |        |
| 35225 48                          | Picker-shellers (drawn, mounted, or self-propelled).   | (X)                            | (D)                | (D)                      | (D)                | (D)      | (D)                | (D)        | (D)                | (D)    |
| 35225 46                          | Field shelling attachments for corn pickers,<br>including conversion packages.....                                 | 4                              | 2,103              | 2,069                    | 1,207              | 2,069    | 1,207              | (D)        | (D)                | (D)    |
| 35225 51                          | Potato diggers.....  | (X)                            | (D)                | (D)                      | (D)                | (D)      | (D)                | (D)        | (D)                | (D)    |
| 35225 53                          | Potato harvesters.....   | 16                             | 674                | 539                      | 2,918              | 539      | 2,918              | (D)        | (D)                | (D)    |
|                                   | Beet harvesters:   |                                |                    |                          |                    |          |                    |            |                    |        |
| 35225 52                          | 1-row.....   | 5                              | 508                | 523                      | 1,019              | 423      | 833                | 100        | 186                |        |
| 35225 54                          | 2-row.....   | 8                              | 946                | 982                      | 3,177              | 947      | 3,064              | 35         | 113                |        |
| 35225 56                          | 3-row.....   | 7                              | 324                | 328                      | 1,197              | 328      | 1,197              | (D)        | (D)                |        |
| 35225 57                          | Peanut diggers, shakers, and windrowers.....   | 6                              | 2,129              | 2,170                    | 956                | 2,170    | 956                | (D)        | (D)                |        |
| 35225 59                          | Peanut combines.....   | 5                              | 2,043              | 1,970                    | 5,908              | 1,919    | 5,826              | 51         | 82                 |        |
|                                   | Field forage harvesters:   |                                |                    |                          |                    |          |                    |            |                    |        |
| 35225 60                          | Self-propelled type.....   | 3                              | 601                | 558                      | 2,607              | 558      | 2,607              | (D)        | (D)                |        |
|                                   | Shear bar type (rigid knives and shear bar<br>combination):  |                                |                    |                          |                    |          |                    |            |                    |        |
|                                   | Basic machines:  |                                |                    |                          |                    |          |                    |            |                    |        |
| 35225 62                          | Engine drive.....  | 5                              | 179                | 187                      | 493                | 187      | 493                | (D)        | (D)                |        |
| 35225 64                          | Power take-off.....  | 11                             | 13,353             | 13,970                   | 15,539             | 12,831   | 14,307             | 1,139      | 1,232              |        |
|                                   | Attachments for shear bar type forage<br>harvesters:   |                                |                    |                          |                    |          |                    |            |                    |        |
| 35225 66                          | Pick-up hay unit.....  | 11                             | 6,085              | 6,802                    | 2,309              | 6,322    | 2,173              | 480        | 136                |        |
| 35225 67                          | Cutter bar hay unit.....   | 8                              | 2,073              | 2,063                    | 890                | 1,526    | 659                | 537        | 231                |        |
|                                   | Row crop units:  |                                |                    |                          |                    |          |                    |            |                    |        |
| 35225 68                          | 1-row.....   | 10                             | 11,876             | 10,984                   | 4,099              | 10,257   | 3,820              | 727        | 279                |        |
| 35225 69                          | 2-row.....   | 8                              | 3,572              | 3,731                    | 2,300              | 3,620    | 2,236              | 111        | 64                 |        |
| 35225 70                          | Flail type (horizontal knives or vertical free-<br>swinging knives or hammers), including discharge<br>spouts..... | 12                             | 6,488              | 6,474                    | 5,598              | 5,732    | 4,961              | 742        | 637                |        |
|                                   | Cotton pickers:  |                                |                    |                          |                    |          |                    |            |                    |        |
| 35225 71                          | 1-row.....   | }                              | 4                  | 5,012                    | 4,752              | 40,009   | 4,693              | 39,439     | 59                 | 570    |
| 35225 73                          | 2-row.....   |                                |                    |                          |                    |          |                    |            |                    |        |
| 35225 75                          | Cotton strippers.....  | 16                             | 4,380              | 3,737                    | 4,535              | 3,737    | 4,535              | (D)        | (D)                |        |
| 35225 81                          | Other harvesting machinery.....  | 36                             | (X)                | (X)                      | 10,577             | (X)      | 9,672              | (X)        | (X)                | 905    |
| 35225 83                          | Attachments.....   | 43                             | (X)                | (X)                      | 29,013             | (X)      | 25,773             | (X)        | (X)                | 3,240  |
| 35225 85                          | Parts.....   | 53                             | (X)                | (X)                      | 50,648             | (X)      | 47,587             | (X)        | (X)                | 3,061  |
| (35226 00)                        | HAYING MACHINERY, TOTAL.....   | 62                             | (X)                | (X)                      | 131,769            | (X)      | 114,558            | (X)        | (X)                | 17,211 |
|                                   | Mowers, cutter-bar type:   |                                |                    |                          |                    |          |                    |            |                    |        |
| 35226 11                          | Drawn.....   | 8                              | 14,716             | 13,920                   | 4,515              | 10,003   | 3,294              | 3,917      | 1,221              |        |
| 35226 12                          | Semimounted.....   | 6                              | 11,475             | 11,542                   | 3,425              | 11,161   | 3,338              | 381        | 87                 |        |
|                                   | Mounted:   |                                |                    |                          |                    |          |                    |            |                    |        |
| 35226 14                          | Rear.....  | 8                              | 29,865             | 29,653                   | 7,066              | 26,817   | 6,326              | 2,836      | 740                |        |
| 35226 16                          | Side.....  | 8                              | 6,332              | 7,374                    | 2,053              | 7,142    | 1,990              | 232        | 63                 |        |
|                                   | Rakes:   |                                |                    |                          |                    |          |                    |            |                    |        |
| 35226 26                          | Side delivery (including combination side rakes<br>and tedders), cylinder type:<br>Ground driven.....              | 8                              | 26,064             | 26,129                   | 10,095             | 21,826   | 8,381              | 4,303      | 1,714              |        |
|                                   | Power take-off:  |                                |                    |                          |                    |          |                    |            |                    |        |
| 35226 28                          | Mounted.....   | }                              | 6                  | 4,063                    | 4,276              | 1,217    | 3,796              | 1,071      | 480                | 146    |
| 35226 29                          | Semimounted.....   |                                |                    |                          |                    |          |                    |            |                    |        |
| 35226 30                          | Side delivery (finger wheel type).....   | 3                              | 7,537              | 7,537                    | 1,940              | 7,537    | 1,940              | (D)        | (D)                |        |
| 35226 41                          | Hay stacking attachment for loaders.....   | 6                              | 4,964              | 4,685                    | 1,366              | 4,685    | 1,366              | (D)        | (D)                |        |

See footnotes at end of table.



TABLE 6A-8. Farm Machines and Equipment: 1963 and 1958—Continued

| 1958<br>Census<br>product<br>code | Type of farm equipment   | 1958                           |                    |                          |                    |          |                    |            |                    |
|-----------------------------------|--|--------------------------------|--------------------|--------------------------|--------------------|----------|--------------------|------------|--------------------|
|                                   |  | Number<br>of<br>com-<br>panies | Number<br>produced | Manufacturers' shipments |                    |          |                    |            |                    |
|                                   |  |                                |                    | Total                    |                    | Domestic |                    | For export |                    |
|                                   |  |                                |                    | Number                   | Value<br>(\$1,000) | Number   | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) |
| (35225 00)                        | HARVESTING MACHINERY—Continued   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Corn pickers—Continued   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Drawn—Continued  |                                |                    |                          |                    |          |                    |            |                    |
| 35225 43                          | 2-row.....   | 5                              | 5,240              | 4,926                    | 6,262              | 4,926    | 6,262              | (D)        | (D)                |
|                                   | Mounted or semimounted:  |                                |                    |                          |                    |          |                    |            |                    |
| 35225 45                          | 1-row.....   | 10                             | 24,600             | 25,443                   | 32,653             | 25,335   | 32,486             | 108        | 167                |
| 35225 47                          | 2-row.....   |                                |                    |                          |                    |          |                    |            |                    |
| 35225 48                          | Picker-shellers (drawn, mounted, or self-propelled).....   | 4                              | 4,767              | 4,621                    | 2,017              | 4,621    | 2,017              | (D)        | (D)                |
| 35225 49                          | Self-propelled.....  | -                              | -                  | -                        | -                  | -        | -                  | -          | -                  |
| 35225 51                          | Potato diggers.....  | 13                             | 1,176              | 1,237                    | 762                | 1,025    | 661                | 212        | 101                |
| 35225 53                          | Potato harvesters.....   | 11                             | 568                | 581                      | 2,304              | 581      | 2,304              | -          | -                  |
| 35225 55                          | Beet harvesters.....   | 9                              | 2,277              | 2,277                    | 3,563              | 2,066    | 3,199              | 211        | 364                |
| 35225 57                          | Peanut diggers, shakers, and windrowers.....   | 10                             | 1,493              | 1,431                    | 469                | 1,431    | 469                | (D)        | -                  |
| 35225 59                          | Peanut combines.....   | 7                              | 1,933              | 1,769                    | 4,316              | 1,769    | 4,316              | (D)        | (D)                |
|                                   | Field forage harvesters:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Shear bar type (rigid knives or vertical combination):   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Basic machines:  |                                |                    |                          |                    |          |                    |            |                    |
| 35225 62                          | Engine drive.....  | 10                             | 1,830              | 1,698                    | 2,034              | 1,632    | 1,955              | 66         | 79                 |
| 35225 64                          | Power take-off.....  | 12                             | 9,327              | 11,539                   | 10,943             | 11,079   | 10,549             | 460        | 394                |
|                                   | Attachments for shear bar type forage harvesters:  |                                |                    |                          |                    |          |                    |            |                    |
| 35225 66                          | Pick-up hay unit.....  | 11                             | 3,762              | 3,636                    | 812                | 3,446    | 775                | 190        | 37                 |
| 35225 68                          | Cutter bar hay unit.....   | 14                             | 4,670              | 5,569                    | 2,026              | 5,331    | 1,943              | 238        | 83                 |
| 35225 69                          | Row crop unit.....   | 11                             | 9,864              | 9,478                    | 3,207              | 9,244    | 3,136              | 234        | 71                 |
| 35225 70                          | Flail type (horizontal knives or vertical free-swinging knives or hammers) including discharge spouts..... | 5                              | 11,503             | 10,570                   | 7,163              | 10,570   | 7,163              | (D)        | (D)                |
| 35225 75                          | Cotton strippers.....  | 4                              | 2,149              | 2,339                    | 2,115              | 2,339    | 2,115              | -          | -                  |
| 35225 71                          | Cotton pickers.....  | 4                              | 1,107              | 1,139                    | 8,781              | 1,096    | 8,653              | 43         | 128                |
| 35225 81                          | Other harvesting machinery.....  | 39                             | 3,819              | 4,323                    | 6,790              | 4,099    | 6,181              | 224        | 609                |
| 35225 83                          | Attachments.....   | 56                             |                    |                          |                    |          |                    |            |                    |
| 35225 46                          | Field shelling attachments for corn pickers, including conversion packages.....                            | 2                              | (X)                | (X)                      | 24,217             | (X)      | 22,057             | (X)        | 2,160              |
| 35225 85                          | Parts.....   | 64                             | (X)                | (X)                      | 43,343             | (X)      | 40,723             | (X)        | 2,620              |
| (35226 00)                        | HAYING MACHINERY, TOTAL <sup>3</sup> .....   | (X)                            | (X)                | (X)                      | 175,860            | (X)      | 165,740            | (X)        | 10,120             |
|                                   | Mowers, cutter-bar type:   |                                |                    |                          |                    |          |                    |            |                    |
| 35226 11                          | Drawn.....   | 5                              | 12,543             | 13,133                   | 3,457              | 13,133   | 3,457              | (D)        | (D)                |
| 35226 12                          | Semimounted.....   | 7                              | 34,245             | 34,789                   | 8,623              | 33,027   | 8,192              | 1,762      | 431                |
| 35226 14                          | Mounted.....   | 12                             | 40,046             | 41,500                   | 6,954              | 38,625   | 6,481              | 2,875      | 473                |
|                                   | Rakes:   |                                |                    |                          |                    |          |                    |            |                    |
| 35226 21                          | Sulky (dump).....  | 8                              | 4,405              | 2,569                    | 367                | 2,569    | 367                | (D)        | (D)                |
| 35226 24                          | Side delivery (revolving wheel-type).....  | 14                             | 39,855             | 39,487                   | 12,471             | 32,835   | 10,808             | 6,652      | 1,663              |
|                                   | Side delivery (including combination side rakes and tedders) cylinder-type:                                |                                |                    |                          |                    |          |                    |            |                    |
| 35226 26                          | Drawn.....   | 5                              | 17,141             | 16,486                   | 4,951              | 16,486   | 4,951              | (D)        | (D)                |
| 35226 27                          | Mounted and semimounted.....   |                                |                    |                          |                    |          |                    |            |                    |
| 35226 41                          | Hay stackers.....  | 11                             | 2,724              | 3,030                    | 1,938              | 3,030    | 1,938              | (D)        | (D)                |

See footnotes at end of table.

TABLE 6A-8. Farm Machines and Equipment: 1963 and 1958—Continued

| 1963<br>Census<br>product<br>code | Type of farm equipment  | 1963                           |                    |                          |                    |          |                    |            |                    |
|-----------------------------------|---|--------------------------------|--------------------|--------------------------|--------------------|----------|--------------------|------------|--------------------|
|                                   |   | Number<br>of<br>com-<br>panies | Number<br>produced | Manufacturers' shipments |                    |          |                    |            |                    |
|                                   |   |                                |                    | Total                    |                    | Domestic |                    | For export |                    |
|                                   |   |                                |                    | Number                   | Value<br>(\$1,000) | Number   | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) |
| (35226 00)                        | HAYING MACHINERY—Continued  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Pick-up hay balers:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Wire:   |                                |                    |                          |                    |          |                    |            |                    |
| 35226 51                          | Engine driven.....  | 8                              | 1,325              | 1,595                    | 4,179              | 1,515    | 3,993              | 80         | 186                |
| 35226 53                          | Tractor power take-off.....   | 8                              | 3,060              | 3,182                    | 5,090              | 2,971    | 4,787              | 211        | 303                |
|                                   | Twine:  |                                |                    |                          |                    |          |                    |            |                    |
| 35226 55                          | Engine driven.....  | 7                              | 1,941              | 2,087                    | 3,940              | 1,917    | 3,487              | 170        | 353                |
| 35226 57                          | Tractor power take-off.....   | 8                              | 39,931             | 40,246                   | 49,266             | 33,811   | 41,066             | 6,435      | 8,200              |
|                                   | Hay conditioners:   |                                |                    |                          |                    |          |                    |            |                    |
| 35226 61                          | Crimpers (one or both rollers corrugated).....                                | 12                             | 8,102              | 8,588                    | 4,066              | 8,303    | 3,910              | 285        | 156                |
| 35226 62                          | Crushers (smooth rollers).....  | 10                             | 8,241              | 8,584                    | 4,862              | 7,670    | 4,360              | 914        | 502                |
| 35226 63                          | Hay crusher or hay conditioner attachments.....                               | 3                              | 1,602              | 1,451                    | 809                | 1,451    | 809                | (D)        | (D)                |
| 35226 64                          | Bale throwing attachments for hay balers.....                                 | 5                              | 8,087              | 7,779                    | 2,596              | 7,779    | 2,596              | (D)        | (D)                |
| 35226 65                          | Hay bale loaders (field type).....  | 12                             | 2,614              | 2,518                    | 476                | 2,518    | 476                | (D)        | (D)                |
| 35226 81                          | Other haying machinery.....   | 15                             | (X)                | (X)                      | 2,256              | (X)      | 2,256              | (D)        | (D)                |
| 35226 83                          | Other attachments.....  | 14                             | (X)                | (X)                      | 4,096              | (X)      | 3,623              | (X)        | 473                |
| 35226 85                          | Parts.....  | 26                             | (X)                | (X)                      | 18,537             | (X)      | 17,509             | (X)        | 1,028              |
| (35228 10)                        | FARM DAIRY MACHINES AND EQUIPMENT, TOTAL <sup>4</sup> .....                   | 30                             | (X)                | (X)                      | 17,333             | (X)      | 15,853             | (X)        | 1,480              |
|                                   | Mechanical installations:   |                                |                    |                          |                    |          |                    |            |                    |
| 35228 03                          | Pumping outfits - stationary and portable.....                                | 11                             | 24,000             | 25,316                   | 3,002              | 25,316   | 3,002              | (D)        | (D)                |
|                                   | Pail-type milking machines:   |                                |                    |                          |                    |          |                    |            |                    |
| 35228 05                          | Suspended units.....  | 9                              | 15,824             | 16,332                   | 1,229              | 16,332   | 1,229              | (D)        | (D)                |
| 35228 06                          | Floor type (single unit).....   | 11                             | 17,436             | 17,123                   | 1,329              | 15,674   | 1,176              | 1,449      | 153                |
| 35228 07                          | Floor type (double unit).....   |                                |                    |                          |                    |          |                    |            |                    |
| 35228 08                          | Pipeline milker units (individual clusters).....                              | (X)                            | (S)                | (S)                      | (S)                | (S)      | (S)                | (S)        | (S)                |
|                                   | Cream separators, hand or power operated:                                     |                                |                    |                          |                    |          |                    |            |                    |
| 35228 09                          | Capacity 500 pounds or less per hour, including bench type <sup>2</sup> ..... | (X)                            | (D)                | (D)                      | (D)                | (D)      | (D)                | (D)        | (D)                |
| 35228 11                          | Capacity 501-800 pounds per hour.....   | -                              | -                  | -                        | -                  | -        | -                  | -          | -                  |
| 35228 12                          | Capacity 801-1,500 pounds per hour.....                                       | -                              | -                  | -                        | -                  | -        | -                  | -          | -                  |
| 35228 13                          | Farm milk coolers, not mechanically refrigerated.....                         | 11                             | (X)                | (X)                      | 2,987              | (X)      | 2,987              | (X)        | (D)                |
| 35228 14                          | Butter churns (farm size).....  |                                |                    |                          |                    |          |                    |            |                    |
| 35228 15                          | Other farm dairy machines and equipment.....                                  |                                |                    |                          |                    |          |                    |            |                    |
| 35228 16                          | Attachments <sup>5</sup> .....  |                                |                    |                          |                    |          |                    |            |                    |
| 35228 17                          | Parts <sup>5</sup> .....  | 15                             | (X)                | (X)                      | 8,776              | (X)      | 8,202              | (X)        | 574                |
| (35228 91)                        | SPRAYERS AND DUSTERS, TOTAL.....  | 99                             | (X)                | (X)                      | 49,251             | (X)      | 42,868             | (X)        | 6,383              |
|                                   | Power sprayers (except aircraft sprayers and dusters):                        |                                |                    |                          |                    |          |                    |            |                    |
| 35228 18                          | Self-propelled.....   | 7                              | 2,295              | 2,002                    | 4,161              | 1,954    | 4,059              | 48         | 102                |
|                                   | Not self-propelled:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Air-carried type:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Blower attachments:   |                                |                    |                          |                    |          |                    |            |                    |
| 35228 19                          | For orchard use.....  | 6                              | 192                | 222                      | 319                | 222      | 319                | (D)        | (D)                |
| 35228 21                          | For other use.....  |                                |                    |                          |                    |          |                    |            |                    |
| 35228 22                          | Complete units:   | 10                             | 1,263              | 1,265                    | 4,420              | 1,195    | 4,281              | 70         | 139                |
| 35228 23                          | For orchard use.....  | 11                             | 2,722              | 2,551                    | 947                | 2,551    | 947                | (D)        | (D)                |
| 35228 24                          | For other uses.....   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Other than air-carried type:  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Complete units:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Plunger-type pump sprayers:   |                                |                    |                          |                    |          |                    |            |                    |
| 35228 25                          | Under 8 g.p.m. discharge  | 14                             | 3,735              | 3,681                    | 1,650              | 3,196    | 1,428              | 485        | 222                |
|                                   | Engine driven.....  |                                |                    |                          |                    |          |                    |            |                    |
| 35228 26                          | Tractor power take-off driven:  | 22                             | 13,561             | 13,554                   | 901                | 12,917   | 837                | 637        | 64                 |
|                                   | Pump mounted directly on tractor  |                                |                    |                          |                    |          |                    |            |                    |
| 35228 27                          | power take-off shaft.....   |                                |                    |                          |                    |          |                    |            |                    |

See footnotes at end of table.



TABLE 6A-8. Farm Machines and Equipment: 1963 and 1958—Continued

| 1958<br>Census<br>product<br>code | Type of farm equipment  | 1958                           |                    |                          |                    |          |                    |            |                    |
|-----------------------------------|---|--------------------------------|--------------------|--------------------------|--------------------|----------|--------------------|------------|--------------------|
|                                   |   | Number<br>of<br>com-<br>panies | Number<br>produced | Manufacturers' shipments |                    |          |                    |            |                    |
|                                   |   |                                |                    | Total                    |                    | Domestic |                    | For export |                    |
|                                   |   |                                |                    | Number                   | Value<br>(\$1,000) | Number   | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) |
| (35226 00)                        | HAYING MACHINERY—Continued                                      |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Pick-up hay balers:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Wire:   |                                |                    |                          |                    |          |                    |            |                    |
| 35226 51                          | Engine driven.....  | 8                              | 4,719              | 3,921                    | 8,562              | 3,651    | 8,163              | 270        | 399                |
| 35226 53                          | Tractor power take-off.....                                     | 6                              | 4,222              | 3,857                    | 5,458              | 3,688    | 5,215              | 169        | 243                |
|                                   | Twine:  |                                |                    |                          |                    |          |                    |            |                    |
| 35226 55                          | Engine driven.....  | 9                              | 9,937              | 9,121                    | 15,385             | 9,121    | 15,385             | (D)        | (D)                |
| 35226 57                          | Tractor power take-off.....                                     | 9                              | 51,798             | 52,229                   | 60,190             | 47,482   | 54,988             | 4,747      | 5,202              |
| 35226 65                          | Hay bale loaders (field type).....                              | 20                             | 4,220              | 4,301                    | 1,108              | 4,301    | 1,108              | (D)        | (D)                |
| 35226 62                          | Hay crushers and field hay conditioners.....                    | 11                             | 32,476             | 31,698                   | 15,571             | 31,147   | 15,291             | 551        | 280                |
| 35226 81                          | Other haying machinery.....                                     | 14                             | (X)                | (X)                      | 956                | (X)      | 880                | (X)        | 76                 |
| 35226 83                          | Attachments.....  | 17                             | (X)                | (X)                      | 5,586              | (X)      | 5,210              | (X)        | 376                |
| 35226 85                          | Parts.....  | 34                             | (X)                | (X)                      | 24,283             | (X)      | 23,306             | (X)        | 977                |
| (35228 10)                        | FARM DAIRY MACHINES AND EQUIPMENT, TOTAL <sup>2</sup> .....     | (X)                            | (X)                | (X)                      | 20,211             | (X)      | 11,752             | (X)        | 2,001              |
|                                   | Mechanical installations:                                       |                                |                    |                          |                    |          |                    |            |                    |
| 35228 11                          | Pumping outfits, stationary.....                                | 9                              | 32,752             | 32,607                   | 3,163              | 28,458   | 2,742              | 4,149      | 421                |
| 35228 15                          | Pumping outfits, portable.....                                  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Pail-type milking machines:                                     |                                |                    |                          |                    |          |                    |            |                    |
| 35228 21                          | Suspended units.....  | 8                              | 58,071             | 57,809                   | 4,304              | 48,700   | 3,619              | 9,109      | 685                |
| 35228 25                          | Floor type (single unit).....                                   | 11                             | 16,769             | 16,505                   | 1,219              | 14,236   | 1,024              | 2,269      | 195                |
| 35228 27                          | Floor type (double unit).....                                   | 7                              | 1,124              | 1,133                    | 152                | 1,133    | 152                | (D)        | (D)                |
| 35228 31                          | Pipeline milker units (individual clusters).....                | 10                             | 17,052             | 16,773                   | 3,681              | 16,164   | 3,579              | 609        | 102                |
| 35228 51                          | Farm milk coolers, not mechanically refrigerated.               | 4                              | 662                | 662                      | 47                 | 662      | 47                 | (D)        | (D)                |
|                                   | Cream separators, hand or power operated:                       |                                |                    |                          |                    |          |                    |            |                    |
| 35228 41                          | Capacity 500 pounds or less per hour, including bench type..... | 4                              | (D)                | 1,326                    | 139                | 1,326    | 139                | (D)        | (D)                |
| 35228 45                          | Capacity 501-800 pounds per hour.....                           |                                |                    |                          |                    |          |                    |            |                    |
| 35228 47                          | Capacity 801-1,500 pounds per hour.....                         |                                |                    |                          |                    |          |                    |            |                    |
| 35228 61                          | Butter churns, farm size.....                                   | 21                             | 57,847             | 57,775                   | 450                | 57,775   | 450                | (D)        | (D)                |
| 35228 71                          | Other farm dairy machines and equipment.....                    |                                |                    |                          |                    |          |                    |            |                    |
| 35228 81                          | Attachments.....  |                                |                    |                          |                    |          |                    |            |                    |
| 35228 85                          | Parts.....  |                                |                    |                          |                    |          |                    |            |                    |
| (35228 91)                        | SPRAYERS AND DUSTERS, TOTAL <sup>3</sup> .....                  | (X)                            | (X)                | (X)                      | 41,038             | (X)      | 38,511             | (X)        | 2,527              |
|                                   | Power sprayers:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Plunger-type pump, except self-propelled:                       |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Under 4 gallons per minute:                                     |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Skid mounted.....   | 9                              | 1,214              | 1,283                    | 337                | 1,086    | 306                | 197        | 31                 |
|                                   | Wheel mounted.....  | 16                             | 8,045              | 8,357                    | 1,245              | 7,743    | 1,132              | 614        | 113                |
|                                   | 4 g.p.m. and under 8 g.p.m.:                                    |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Field and row crop:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Direct PTO tractor mounted.....                                 | 13                             | 3,374              | 3,441                    | 531                | 3,337    | 513                | 104        | 18                 |
|                                   | Except tractor mounted.....                                     | 12                             | 5,217              | 5,245                    | 2,863              | 5,007    | 2,620              | 238        | 243                |
|                                   | Other types.....  | 9                              | 1,120              | 1,175                    | 524                | 1,096    | 484                | 79         | 40                 |

See footnotes at end of table.

TABLE 6A-8. Farm Machines and Equipment: 1963 and 1958—Continued

| 1963<br>Census<br>product<br>code                               | Type of farm equipment                                       | 1963                           |                    |                          |                    |           |                    |            |                    |
|---|--|--------------------------------|--------------------|--------------------------|--------------------|-----------|--------------------|------------|--------------------|
|   |  | Number<br>of<br>com-<br>panies | Number<br>produced | Manufacturers' shipments |                    |           |                    |            |                    |
|   |  |                                |                    | Total                    |                    | Domestic  |                    | For export |                    |
|   |  |                                |                    | Number                   | Value<br>(\$1,000) | Number    | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) |
| SPRAYERS AND DUSTERS—Continued                                  |  |                                |                    |                          |                    |           |                    |            |                    |
| Power sprayers (except aircraft sprayers and dusters)—Continued |  |                                |                    |                          |                    |           |                    |            |                    |
| Not self-propelled—Continued                                    |  |                                |                    |                          |                    |           |                    |            |                    |
| Other than air-carried type—Continued                           |  |                                |                    |                          |                    |           |                    |            |                    |
| Complete units—Continued  |  |                                |                    |                          |                    |           |                    |            |                    |
| Plunger-type pump sprayers—Continued                            |  |                                |                    |                          |                    |           |                    |            |                    |
| 8 g.p.m. discharge and over:                                    |  |                                |                    |                          |                    |           |                    |            |                    |
| 35228 28  | Engine driven.....   | 11                             | 3,292              | 3,349                    | 3,595              | 3,349     | 3,595              | (D)        | (D)                |
| Tractor power take-off driven:                                  |  |                                |                    |                          |                    |           |                    |            |                    |
| 35228 29  | Pump mounted directly on tractor power take-off shaft.....   | 10                             | 5,056              | 4,914                    | 616                | 4,914     | 616                | (D)        | (D)                |
| 35228 31  | Pump mounted other than on tractor power take-off shaft..... | 9                              | 755                | 768                      | 846                | 702       | 776                | 66         | 70                 |
| Other than plunger-type pump sprayers (rollers, gear, etc.):    |  |                                |                    |                          |                    |           |                    |            |                    |
| 35228 32  | Engine driven.....   | 12                             | 1,083              | 1,199                    | 548                | 1,199     | 548                | (D)        | (D)                |
| Tractor power take-off driven:                                  |  |                                |                    |                          |                    |           |                    |            |                    |
| 35228 33  | Pump mounted directly on tractor power take-off shaft.....   | 23                             | 26,678             | 26,215                   | 4,222              | 25,882    | 4,174              | 333        | 48                 |
| 35228 34  | Pump mounted other than on tractor power take-off shaft..... |                                |                    |                          |                    |           |                    |            |                    |
| Wheeled-mounted, hand pulled type:                              |  |                                |                    |                          |                    |           |                    |            |                    |
| 35228 37  | Tank of 16 gallons capacity and under.....                   | 8                              | 5,327              | 5,329                    | 544                | 4,900     | 486                | 429        | 58                 |
| 35228 38  | Tank of over 16 gallons capacity.....                        | 11                             | 1,641              | 1,920                    | 347                | 1,823     | 326                | 97         | 21                 |
| Hand sprayers, agricultural (except flame):                     |  |                                |                    |                          |                    |           |                    |            |                    |
| 35228 39  | Under 1 gallon.....  | 7                              | 5,400,750          | 5,550,373                | 2,198              | 5,145,510 | 2,031              | 404,863    | 167                |
| 1 gallon and over:  |  |                                |                    |                          |                    |           |                    |            |                    |
| 35228 41  | Compressed air or gas.....                                   | 9                              | 1,188,545          | 1,104,843                | 6,478              | 1,020,524 | 5,860              | 84,319     | 618                |
| 35228 42  | Knapsack (liquid pump).....                                  | 6                              | 43,224             | 46,337                   | 694                | 40,391    | 574                | 5,946      | 120                |
| 35228 43  | Wheel barrow.....  | 5                              | 1,827              | 1,671                    | 53                 | 1,671     | 53                 | (D)        | (D)                |
| 35228 44  | Hose-end sprayers.....                                       | 9                              | 772,322            | 807,799                  | 1,674              | 807,799   | 1,674              | (D)        | (D)                |
| 35228 45  | Flame sprayers, hand.....                                    | 8                              | 18,569             | 20,595                   | 353                | 18,768    | 316                | 1,827      | 37                 |
| Spray pumps:  |  |                                |                    |                          |                    |           |                    |            |                    |
| 35228 46  | Power driven, plunger-type.....                              | 9                              | 5,100              | 5,201                    | 786                | 5,201     | 786                | (D)        | (D)                |
| 35228 47  | Power driven, except plunger-type.....                       | 8                              | 21,462             | 23,995                   | 739                | 23,995    | 739                | (D)        | (D)                |
| 35228 48  | Hand driven (bucket, barrel, slide, etc.).....               | 9                              | 92,772             | 84,813                   | 370                | 84,813    | 370                | (D)        | (D)                |
| Dusters:  |  |                                |                    |                          |                    |           |                    |            |                    |
| Power:  |  |                                |                    |                          |                    |           |                    |            |                    |
| 35228 49  | Engine driven.....   | 4                              | 179                | 179                      | 31                 | 179       | 31                 | (D)        | (D)                |
| 35228 51  | Tractor power take-off.....                                  | 14                             | 2,757              | 2,750                    | 485                | 2,571     | 460                | 179        | 25                 |
| 35228 52  | Traction, all types.....                                     | 4                              | 692                | 651                      | 105                | 651       | 105                | (D)        | (D)                |
| Hand types:   |  |                                |                    |                          |                    |           |                    |            |                    |
| 35228 53  | Crank or knapsack type.....                                  | 7                              | 9,318              | 12,786                   | 189                | 11,616    | 162                | 1,170      | 27                 |
| 35228 54  | Plunger type.....  | 7                              | 306,893            | 293,761                  | 377                | 281,554   | 362                | 12,207     | 15                 |
| 35228 55  | Attachments.....   | 19                             | (X)                | (X)                      | 2,697              | (X)       | 2,470              | (X)        | 227                |
| 35228 56  | Parts.....   | 44                             | (X)                | (X)                      | 8,906              | (X)       | 6,880              | (X)        | 2,026              |
| (35228 51)<br>(35228 71)  | FARM ELEVATORS AND BLOWERS, TOTAL.....                       | 87                             | (X)                | (X)                      | 27,994             | (X)       | 26,298             | (X)        | 1,695              |
| Farm elevators, portable:                                       |  |                                |                    |                          |                    |           |                    |            |                    |
| Single chain:   |  |                                |                    |                          |                    |           |                    |            |                    |
| 35228 61  | Bale type only.....  | 18                             | 18,755             | 17,892                   | 1,434              | 15,873    | 1,307              | 2,019      | 127                |
| 35228 62  | All other.....   | 16                             | 5,065              | 4,480                    | 796                | 4,405     | 779                | 75         | 17                 |
| Double chain:   |  |                                |                    |                          |                    |           |                    |            |                    |
| 35228 63  | Under 16 feet length.....                                    | 27                             | 18,756             | 19,120                   | 8,278              | 17,955    | 8,012              | 1,165      | 266                |
| 35228 64  | 16 feet length and over.....                                 |                                |                    |                          |                    |           |                    |            |                    |
| Auger type:   |  |                                |                    |                          |                    |           |                    |            |                    |
| 35228 65  | 4 in. and smaller diameter.....                              | 13                             | 33,801             | 34,936                   | 1,056              | 29,574    | 928                | 5,362      | 128                |
| Over 4 in. diameter:  |  |                                |                    |                          |                    |           |                    |            |                    |
| 35228 66  | With truck.....  | 10                             | 46,751             | 45,974                   | 5,443              | 45,974    | 5,443              | (D)        | (D)                |
| 35228 67  | Without truck.....   | 15                             | 24,923             | 23,882                   | 2,876              | 23,882    | 2,876              | (D)        | (D)                |

See footnotes at end of table.



TABLE 6A-8. Farm Machines and Equipment: 1963 and 1958—Continued

| 1958<br>Census<br>product<br>code | Type of farm equipment                               | 1958                           |                    |                          |                    |           |                    |            |                    |
|-----------------------------------|--|--------------------------------|--------------------|--------------------------|--------------------|-----------|--------------------|------------|--------------------|
|                                   |  | Number<br>of<br>com-<br>panies | Number<br>produced | Manufacturers' shipments |                    |           |                    |            |                    |
|                                   |  |                                |                    | Total                    |                    | Domestic  |                    | For export |                    |
|                                   |  |                                |                    | Number                   | Value<br>(\$1,000) | Number    | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) |
|                                   | SPRAYERS AND DUSTERS—Continued                       |                                |                    |                          |                    |           |                    |            |                    |
|                                   | Power sprayers—Continued                             |                                |                    |                          |                    |           |                    |            |                    |
|                                   | Plunger-type pump, except self-propelled—Con.        |                                |                    |                          |                    |           |                    |            |                    |
|                                   | 8 g.p.m. and over:                                   |                                |                    |                          |                    |           |                    |            |                    |
|                                   | Field and row crop:                                  |                                |                    |                          |                    |           |                    |            |                    |
|                                   | Direct PTO tractor mounted.....                      | 10                             | 2,757              | 2,694                    | 656                | 2,604     | 608                | 90         | 48                 |
|                                   | Except tractor mounted.....                          | 12                             | 1,630              | 1,585                    | 856                | 1,547     | 833                | 38         | 23                 |
|                                   | Other types.....                                     | 9                              | 5,022              | 4,704                    | 1,700              | 4,299     | 1,580              | 405        | 120                |
|                                   | Other than plunger-type pump, except self-propelled: |                                |                    |                          |                    |           |                    |            |                    |
|                                   | Field and row crop-direct PTO tractor mounted..      | 27                             | 48,815             | 42,900                   | 4,115              | 42,398    | 4,053              | 502        | 62                 |
|                                   | Air blast type:                                      |                                |                    |                          |                    |           |                    |            |                    |
|                                   | Field and row crop:                                  |                                |                    |                          |                    |           |                    |            |                    |
|                                   | 36 hp. and under.....                                | 5                              | (D)                | 280                      | 645                | 280       | 645                | (D)        | (D)                |
|                                   | Over 36 hp.....                                      |                                |                    |                          |                    |           |                    |            |                    |
|                                   | Orchard and general purpose:                         |                                |                    |                          |                    |           |                    |            |                    |
|                                   | 36 hp. and under.....                                | 6                              | 235                | 218                      | 252                | 218       | 252                | (D)        | (D)                |
|                                   | Over 36 hp.....                                      | 5                              | 894                | 893                      | 3,219              | 893       | 3,219              | (D)        | (D)                |
|                                   | Air blast blower adapter.....                        | 13                             | 1,664              | 1,697                    | 891                | 1,697     | 891                | (D)        | (D)                |
|                                   | Other types.....                                     |                                |                    |                          |                    |           |                    |            |                    |
|                                   | Self-propelled sprayers.....                         | 9                              | 2,205              | 2,144                    | 2,550              | 2,144     | 2,550              | (D)        | (D)                |
|                                   | Hand sprayers, agricultural (except flame):          |                                |                    |                          |                    |           |                    |            |                    |
|                                   | Under 1 gallon.....                                  | 14                             | 4,454,109          | 4,711,495                | 2,592              | 4,277,657 | 2,409              | 433,828    | 183                |
|                                   | 1 gallon and over:                                   |                                |                    |                          |                    |           |                    |            |                    |
|                                   | Compressed air or gas.....                           | 12                             | 904,846            | 927,873                  | 5,649              | 839,679   | 4,983              | 88,194     | 666                |
|                                   | Knapsack (liquid pump).....                          | 8                              | 41,733             | 42,964                   | 630                | 34,891    | 461                | 8,073      | 169                |
|                                   | Wheelbarrow.....                                     | 8                              | 6,798              | 6,495                    | 191                | 5,713     | 169                | 782        | 22                 |
|                                   | Hose-end sprayers.....                               | (X)                            | (D)                | (D)                      | (D)                | (D)       | (D)                | (D)        | (D)                |
|                                   | Flame sprayers, hand.....                            | 9                              | 36,466             | 37,269                   | 288                | 34,823    | 242                | 2,446      | 46                 |
|                                   | Spray pumps:   |                                |                    |                          |                    |           |                    |            |                    |
|                                   | Power driven, plunger type.....                      | 12                             | 23,868             | 23,856                   | 1,327              | 23,856    | 1,327              | (D)        | (D)                |
|                                   | Power driven, except plunger type.....               |                                |                    |                          |                    |           |                    |            |                    |
|                                   | Hand driven.....                                     |                                |                    |                          |                    |           |                    |            |                    |
|                                   | Dusters:   |                                |                    |                          |                    |           |                    |            |                    |
|                                   | Power:   |                                |                    |                          |                    |           |                    |            |                    |
|                                   | Engine-driven.....                                   | 7                              | 330                | 357                      | 157                | 357       | 157                | (D)        | (D)                |
|                                   | Tractor power take-off.....                          | 15                             | 5,535              | 5,307                    | 665                | 5,307     | 665                | (D)        | (D)                |
|                                   | Traction, all types.....                             | 11                             | 1,683              | 1,566                    | 195                | 1,566     | 195                | (D)        | (D)                |
|                                   | Hand type:   |                                |                    |                          |                    |           |                    |            |                    |
|                                   | Crank or knapsack.....                               | 9                              | 14,918             | 17,016                   | 293                | 14,192    | 223                | 2,824      | 70                 |
|                                   | Plunger type.....                                    | 9                              | 317,931            | 358,243                  | 397                | 336,010   | 371                | 22,233     | 26                 |
|                                   | Attachments.....                                     | 20                             | (X)                | (X)                      | 1,349              | (X)       | 1,236              | (X)        | 113                |
|                                   | Parts.....   | 51                             | (X)                | (X)                      | 6,472              | (X)       | 5,960              | (X)        | 512                |
| (35228 51)<br>(35228 71)          | FARM ELEVATORS AND BLOWERS, TOTAL <sup>3</sup> ..... | (X)                            | (X)                | (X)                      | 38,980             | (X)       | 37,952             | (X)        | 1,028              |
|                                   | Farm elevators, portable:                            |                                |                    |                          |                    |           |                    |            |                    |
|                                   | Single chain.....                                    | 17                             | 24,210             | 24,051                   | 2,312              | 24,051    | 2,312              | (D)        | (D)                |
|                                   | Double chain.....                                    | 37                             | 48,816             | 48,191                   | 15,798             | 45,950    | 15,246             | 2,241      | 552                |
|                                   | Auger type.....                                      | 24                             | 140,987            | 142,085                  | 10,252             | 136,114   | 10,052             | 5,971      | 200                |

See footnotes at end of table.

TABLE 6A-8. Farm Machines and Equipment: 1963 and 1958—Continued

| 1963<br>Census<br>product<br>code | Type of farm equipment   | 1963   |                    |                          |                    |          |                    |            |                    |       |
|-----------------------------------|--|--|--------------------|--------------------------|--------------------|----------|--------------------|------------|--------------------|-------|
|                                   |  | Number<br>of<br>com-<br>panies   | Number<br>produced | Manufacturers' shipments |                    |          |                    |            |                    |       |
|                                   |  |  |                    | Total                    |                    | Domestic |                    | For export |                    |       |
|                                   |  |  |                    | Number                   | Value<br>(\$1,000) | Number   | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) |       |
| (35228 51)<br>(35228 71)          | } FARM ELEVATORS AND BLOWERS—Continued                           |  |                    |                          |                    |          |                    |            |                    |       |
| 35228 68                          |  | Farm elevators, stationary.....  | 11                 | 539                      | 550                | 495      | 523                | 476        | 27                 | 19    |
| 35228 69                          |  | Forage blowers, including combination grain and<br>forage blowers..... | 14                 | 7,530                    | 8,370              | 4,089    | 7,879              | 3,859      | 491                | 230   |
| 35228 71                          |  | Other farm elevators.....  | } 10               | (NA)                     | (NA)               | 1,012    | (NA)               | 1,012      | (D)                | (D)   |
| 35228 72                          |  | Other farm blowers.....  |                    |                          |                    |          |                    |            |                    |       |
| 35228 73                          |  | Attachments for farm elevators.....                                    | 11                 | (X)                      | (X)                | 859      | (X)                | 842        | (X)                | 17    |
| 35228 74                          |  | Attachments for farm blowers.....                                      | 8                  | (X)                      | (X)                | 373      | (X)                | 358        | (X)                | 15    |
| 35228 75                          |  | Parts for farm elevators.....  | 19                 | (X)                      | (X)                | 901      | (X)                | 885        | (X)                | 16    |
| 35228 76                          |  | Parts for grain and forage blowers.....                                | 8                  | (X)                      | (X)                | 382      | (X)                | 382        | (X)                | (D)   |
| (35228 81)<br>(35228 85)          |  | } GARDEN TRACTORS, MOTOR TILLERS, ATTACHMENTS,<br>AND PARTS .....      | (X)                | (X)                      | (X)                | 91,093   | (X)                | 87,575     | (X)                | 3,518 |
|                                   | Garden tractors (including motor tillers), total ..              |  | (X)                | 353,409                  | 344,774            | 54,275   | 324,436            | 51,732     | 20,339             | 2,543 |
|                                   | Garden tractors (except motor tillers), total <sup>6</sup> ..    |  | (X)                | 105,369                  | 103,203            | 34,394   | 98,038             | 33,039     | 5,165              | 1,355 |
|                                   | Riding type, total.....  |  | (X)                | 76,999                   | 75,844             | 29,710   | 75,844             | 29,177     | (D)                | (D)   |
|                                   | Under 5.5 engine hp.....   |  | } 9                | 27,015                   | 26,611             | 9,016    | 26,611             | 9,016      | (D)                | (D)   |
| 35228 82                          | 5.5 to 6.9 engine hp.....  |  |                    |                          |                    |          |                    |            |                    |       |
| 35228 83                          | 7.0 engine hp. and over.....                                     |  |                    | 10                       | 49,984             | 49,233   | 20,694             | 47,960     | 20,161             | 1,273 |
|                                   | Walking type, total .....  |  | (X)                | 28,370                   | 27,359             | 4,684    | 27,359             | 4,684      | (D)                | (D)   |
| 35228 84                          | Under 5.5 engine hp. ....  |  | } (X)              | 28,370                   | 27,359             | 4,684    | 27,359             | 4,684      | (D)                | (D)   |
| 35228 85                          | 5.5 to 6.9 engine hp. ....                                       |  |                    |                          |                    |          |                    |            |                    |       |
| 35228 86                          | 7.0 engine hp. and over .....                                    |  |                    |                          |                    |          |                    |            |                    |       |
|                                   | Motor tillers, total.....  | (X)  | 248,040            | 241,571                  | 19,881             | 226,397  | 18,693             | 15,174     | 1,188              |       |
| 35228 87                          | 2 engine hp. and under.....                                      | } 21   | 248,040            | 241,571                  | 19,881             | 226,397  | 18,693             | 15,174     | 1,188              |       |
| 35228 88                          | Over 2 engine hp. and under 6 engine hp.....                     |  |                    |                          |                    |          |                    |            |                    |       |
| 35228 89                          | 6 engine hp. and over.....                                       |  |                    |                          |                    |          |                    |            |                    |       |
| 35228 91, 92                      | Attachments for garden type <sup>2</sup> .....                   | 23   | (X)                | (X)                      | 15,758             | (X)      | 14,783             | (X)        | 975                |       |
| 35228 93                          | Parts for garden type (replacement and repair) <sup>2</sup> ..   | (NA)   | (X)                | (X)                      | (X)                | (X)      | 21,060             | (X)        | (X)                |       |
| (35228 15)                        | CULTIVATORS AND WEEDERS, TOTAL.....                              | 104  | (X)                | (X)                      | 60,195             | (X)      | 55,883             | (X)        | 4,312              |       |
| 35229 01                          | Corn and cotton type cultivators:<br>Drawn <sup>7</sup> .....    | (X)  | (D)                | (D)                      | (D)                | (D)      | (D)                | (D)        | (D)                |       |
| 35229 02                          | Mounted:<br>1-row.....   | 7  | 6,850              | 6,408                    | 636                | 6,408    | 636                | (D)        | (D)                |       |
| 35229 03                          | 2-row:<br>Front mounted.....                                     | 6  | 6,028              | 6,722                    | 581                | 6,579    | 552                | 143        | 29                 |       |
| 35229 04                          | Rear mounted.....  | 11   | 3,564              | 4,738                    | 985                | 4,314    | 891                | 424        | 94                 |       |
| 35229 05                          | 4-row:<br>Front mounted.....                                     | 6  | 12,957             | 13,562                   | 5,788              | 13,562   | 5,788              | (D)        | (D)                |       |
| 35229 06                          | Rear mounted.....  | 12   | 23,185             | 22,761                   | 10,181             | 22,546   | 10,081             | 215        | 100                |       |
| 35229 08                          | 6-row and larger:<br>Front mounted.....                          | } 8  | 1,967              | 1,466                    | 984                | 1,466    | 984                | (D)        | (D)                |       |
| 35229 09                          | Rear mounted .....   |  |                    |                          |                    |          |                    |            |                    |       |
| 35229 10                          | Beet, bean, and vegetable cultivators, drawn or<br>mounted.....  | 6  | 1,587              | 1,724                    | 334                | 1,724    | 334                | (D)        | (D)                |       |
| 35229 11                          | Rotary hoe cultivator sections, drawn or mounted...              | 33   | 63,134             | 65,904                   | 7,053              | 65,213   | 6,975              | 691        | 78                 |       |
| 35229 13                          | Field cultivators:<br>Drawn.....                                 | 7  | 12,207             | 12,265                   | 3,130              | 12,265   | 3,130              | (D)        | (D)                |       |
| 35229 14                          | Mounted.....   | 5  | 2,387              | 2,226                    | 829                | 2,226    | 829                | (D)        | (D)                |       |
| 35229 15                          | Tool bars and tool bar carriers (basic unit only):<br>Drawn..... | } 16   | 23,630             | 25,158                   | 5,894              | 25,158   | 5,894              | (D)        | (D)                |       |
| 35229 16                          | Mounted.....   |  |                    |                          |                    |          |                    |            |                    |       |
| 35229 17                          | Rod weeders (drawn or mounted).....                              | 7  | 10,869             | 9,472                    | 1,424              | 9,472    | 1,424              | (D)        | (D)                |       |
| 35229 18                          | Other cultivators and weeders <sup>7</sup> .....                 | 21   | (X)                | (X)                      | 2,897              | (X)      | 2,833              | (X)        | 64                 |       |
| 35229 19                          | Attachments.....   | 32   | (X)                | (X)                      | 6,823              | (X)      | 6,312              | (X)        | 511                |       |
| 35229 20                          | Parts.....   | 36   | (X)                | (X)                      | 12,597             | (X)      | 11,989             | (X)        | 608                |       |

See footnotes at end of table.



TABLE 6A-8. Farm Machines and Equipment: 1963 and 1958—Continued

| 1958<br>Census<br>product<br>code | Type of farm equipment  | 1958                           |                    |                          |                    |          |                    |            |                    |
|-----------------------------------|---|--------------------------------|--------------------|--------------------------|--------------------|----------|--------------------|------------|--------------------|
|                                   |   | Number<br>of<br>com-<br>panies | Number<br>produced | Manufacturers' shipments |                    |          |                    |            |                    |
|                                   |   |                                |                    | Total                    |                    | Domestic |                    | For export |                    |
|                                   |   |                                |                    | Number                   | Value<br>(\$1,000) | Number   | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) |
| (35228 51)<br>(35228 71)          | FARM ELEVATORS AND BLOWERS—Continued  |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Farm elevators, stationary:   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Bucket size 12" and smaller.....  | 7                              | 547                | 547                      | 225                | 547      | 225                | (D)        | (D)                |
|                                   | Bucket size 13" and wider.....  | 5                              | 725                | 720                      | 647                | 720      | 647                | -          | -                  |
|                                   | Grain blowers (farm size).....  | 7                              | 454                | 651                      | 134                | 651      | 134                | (D)        | (D)                |
|                                   | Forage blowers, including combination grain and<br>forage blowers.....              | 14                             | 8,206              | 7,976                    | 3,684              | 7,649    | 3,553              | 327        | 131                |
|                                   | Other farm elevators.....   | 22                             | 1,424              | 1,575                    | 584                | 1,565    | 575                | 10         | 9                  |
|                                   | Other farm blowers.....   |                                |                    |                          |                    |          |                    |            |                    |
|                                   | Attachments for farm elevators.....   | 20                             | (X)                | (X)                      | 1,897              | (X)      | 1,855              | (X)        | 42                 |
|                                   | Attachments for farm blowers.....   | 6                              | (X)                | (X)                      | 421                | (X)      | 385                | (X)        | 36                 |
|                                   | Parts for farm elevators.....   | 31                             | (X)                | (X)                      | 2,506              | (X)      | 2,461              | (X)        | 45                 |
|                                   | Parts for grain and forage blowers.....   | 11                             | (X)                | (X)                      | 520                | (X)      | 507                | (X)        | 13                 |
| (35228 81)                        | GARDEN TRACTORS, MOTOR TILLERS, ATTACHMENTS,<br>AND PARTS, TOTAL <sup>2</sup> ..... | (X)                            | (X)                | (X)                      | 39,266             | (X)      | 37,633             | (X)        | 1,633              |
|                                   | Garden tractors (including motor tillers), total...                                 | (X)                            | 224,266            | 227,073                  | 26,492             | 215,386  | 25,314             | 11,687     | 1,178              |
|                                   | Garden tractors (except motor tillers), total....                                   | (X)                            | 50,918             | 52,583                   | 10,830             | 50,915   | 10,522             | 1,668      | 308                |
|                                   | Riding-type, total.....   | (X)                            | 13,661             | 12,643                   | 3,724              | 12,643   | 3,724              | (D)        | (D)                |
|                                   | Under 6 engine hp.....  | 13                             | 6,395              | 6,426                    | 1,504              | 6,426    | 1,504              | (D)        | (D)                |
|                                   | 6 and under 8 engine hp.....  | 6                              | 5,377              | 4,304                    | 1,588              | 4,304    | 1,588              | (D)        | (D)                |
|                                   | 8 engine hp. and over.....  | 9                              | 1,889              | 1,913                    | 632                | 1,913    | 632                | (D)        | (D)                |
|                                   | Walking-type, total.....  | (X)                            | 37,257             | 39,940                   | 7,106              | 38,272   | 6,798              | 1,668      | 308                |
|                                   | 2 engine hp. and under.....   | 5                              | 2,807              | 2,664                    | 249                | 2,664    | 249                | (D)        | (D)                |
|                                   | Over 2 engine hp. but not over 6 engine hp...                                       | 14                             | 27,632             | 30,768                   | 5,484              | 29,100   | 5,176              | 1,668      | 308                |
|                                   | Over 6 engine hp.....   | 6                              | 6,818              | 6,508                    | 1,373              | 6,508    | 1,373              | (D)        | (D)                |
|                                   | Motor tillers, total.....   | (X)                            | 173,348            | 174,490                  | 15,662             | 164,471  | 14,792             | 10,019     | 870                |
|                                   | 2 engine hp. and under.....   | 8                              | 21,904             | 22,444                   | 1,964              | 22,444   | 1,964              | (D)        | (D)                |
|                                   | Over 2 engine hp.....   | 23                             | 151,444            | 152,046                  | 13,698             | 142,027  | 12,828             | 10,019     | 870                |
| (35228 85)                        | Attachments and parts, total.....   | (X)                            | (X)                | (X)                      | 12,774             | (X)      | 12,319             | (X)        | 455                |
|                                   | Attachments for garden type, total.....   | (X)                            | (X)                | (X)                      | 9,162              | (X)      | 8,809              | (X)        | 353                |
|                                   | Except riding attachments for walking type....                                      | 31                             | (X)                | (X)                      | 8,978              | (X)      | 8,625              | (X)        | 353                |
|                                   | Riding attachments for walking type.....  | 11                             | (X)                | (X)                      | 184                | (X)      | 184                | (D)        | (D)                |
|                                   | Parts for garden type (replacement and repair)..                                    | 21                             | (X)                | (X)                      | 3,612              | (X)      | 3,510              | (X)        | 102                |
| (35228 15)                        | CULTIVATORS AND WEEDERS, TOTAL <sup>3</sup> .....                                   | (X)                            | (X)                | (X)                      | 48,552             | (X)      | 46,624             | (X)        | 1,928              |
|                                   | Corn and cotton type cultivators:   |                                |                    |                          |                    |          |                    |            |                    |
| 35229 01                          | Horse-drawn.....  | 8                              | 5,441              | 6,000                    | 74                 | 3,176    | 30                 | 2,824      | 44                 |
| 35229 02                          | Tractor-drawn.....  | 6                              | 1,951              | 1,626                    | 289                | 1,626    | 289                | (D)        | (D)                |
|                                   | Mounted:  |                                |                    |                          |                    |          |                    |            |                    |
| 35229 03                          | 1-row.....  | 12                             | 7,966              | 8,081                    | 572                | 8,081    | 572                | (D)        | (D)                |
| 35229 04                          | 2-row.....  | 17                             | 21,417             | 26,224                   | 3,689              | 25,323   | 3,537              | 901        | 152                |
| 35229 94                          | 4-row.....  | 13                             | 35,373             | 32,938                   | 12,420             | 32,370   | 12,223             | 568        | 197                |
| 35229 95                          | 6-row and larger.....   |                                |                    |                          |                    |          |                    |            |                    |
| 35229 06                          | Beet, bean, and vegetable cultivators, drawn or<br>mounted.....                     | 11                             | 2,584              | 2,593                    | 296                | 2,593    | 296                | (D)        | (D)                |
| 35229 07                          | Rotary hoe cultivator sections, drawn or mounted...                                 | 32                             | 83,284             | 76,268                   | 5,735              | 75,758   | 5,699              | 510        | 36                 |
| 35229 08                          | Stubble mulchers or tillers, chisel or sweep type..                                 | 6                              | 1,150              | 1,132                    | 329                | 1,132    | 329                | (D)        | (D)                |
| 35229 09                          | Field cultivators and field tillers, drawn or<br>mounted.....                       | 14                             | 8,349              | 8,649                    | 2,052              | 7,914    | 1,909              | 735        | 143                |
|                                   | Tool bar carriers:  |                                |                    |                          |                    |          |                    |            |                    |
| 35229 10                          | Drawn.....  | 7                              | 6,509              | 6,373                    | 2,273              | 6,373    | 2,273              | (D)        | (D)                |
| 35229 89                          | Mounted.....  | 11                             | 13,191             | 11,597                   | 871                | 10,415   | 768                | 1,182      | 103                |
|                                   | Weeders, drawn or mounted:  |                                |                    |                          |                    |          |                    |            |                    |
| 35229 12                          | Rod.....  | 6                              | 5,184              | 3,731                    | 694                | 3,731    | 694                | (D)        | (D)                |
| 35229 13                          | Toothed.....  |                                |                    |                          |                    |          |                    | (D)        | -                  |
| 35229 14                          | Other cultivators and weeders.....  | 30                             | (X)                | (X)                      | 2,714              | (X)      | 2,623              | (X)        | 91                 |
| 35229 15                          | Attachments.....  | 34                             | (X)                | (X)                      | 8,117              | (X)      | 7,544              | (X)        | 573                |
| 35229 16                          | Parts.....  | 39                             | (X)                | (X)                      | 8,427              | (X)      | 7,838              | (X)        | 589                |

See footnotes at end of table.

TABLE 6A-8. Farm Machines and Equipment: 1963 and 1958—Continued

| 1963<br>Census<br>product<br>code | Type of farm equipment  | 1963                           |                    |                          |                    |            |                    |            |                    |
|-----------------------------------|---|--------------------------------|--------------------|--------------------------|--------------------|------------|--------------------|------------|--------------------|
|                                   |   | Number<br>of<br>com-<br>panies | Number<br>produced | Manufacturers' shipments |                    |            |                    |            |                    |
|                                   |   |                                |                    | Total                    |                    | Domestic   |                    | For export |                    |
|                                   |   |                                |                    | Number                   | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) |
| (35228 21)                        | MACHINES FOR PREPARING CROPS FOR MARKET OR FOR USE, TOTAL .....             | 143                            | (X)                | (X)                      | 48,789             | (X)        | 46,186             | (X)        | 2,603              |
| 35229 21                          | Peanut pickers and threshers (stationary machines) ..                       | -                              | -                  | -                        | -                  | -          | -                  | -          | -                  |
| 35229 22                          | Corn shellers, power:   |                                |                    |                          |                    |            |                    |            |                    |
| 35229 23                          | Capacity 500 bushels per hour and under.....                                | 9                              | 1,428              | 1,645                    | 1,559              | 1,645      | 1,559              | (D)        | (D)                |
|                                   | Capacity over 500 bushels per hour.....                                     |                                |                    |                          |                    |            |                    |            |                    |
| 35229 24                          | Feed grinders and crushers, power:  |                                |                    |                          |                    |            |                    |            |                    |
| 35229 25                          | Hammer mills, with hammers only.....  | 26                             | 7,201              | 7,395                    | 2,454              | 6,129      | 2,214              | 1,266      | 240                |
| 35229 26                          | Burr mills, with grinding plates only.....                                  | 11                             | 5,837              | 5,437                    | 1,609              | 4,675      | 1,533              | 762        | 76                 |
| 35229 27                          | Combination roughage mills.....   | 12                             | 2,473              | 2,543                    | 1,379              | 2,319      | 1,272              | 224        | 107                |
|                                   | Roller mills.....   |                                |                    |                          |                    |            |                    |            |                    |
| 35229 28                          | Feed mixers (farm size):  |                                |                    |                          |                    |            |                    |            |                    |
| 35229 29                          | Stationary.....   | 8                              | 547                | 604                      | 302                | 604        | 302                | (D)        | (D)                |
|                                   | Portable.....   | 6                              | 3,757              | 3,854                    | 2,066              | 3,854      | 2,066              | (D)        | (D)                |
| 35229 30                          | Combination grinder-mixers:   |                                |                    |                          |                    |            |                    |            |                    |
| 35229 31                          | Stationary.....   | 7                              | 851                | 857                      | 394                | 857        | 394                | (D)        | (D)                |
|                                   | Portable.....   | 18                             | 12,033             | 11,328                   | 15,159             | 10,727     | 14,484             | 601        | 675                |
| 35229 32                          | Tobacco curers.....   | 8                              | 16,943             | 16,869                   | 3,358              | 16,869     | 3,358              | (D)        | (D)                |
|                                   | Driers, grain, hay, and seed:   |                                |                    |                          |                    |            |                    |            |                    |
|                                   | Heated air crop driers:   |                                |                    |                          |                    |            |                    |            |                    |
|                                   | Batch type:   |                                |                    |                          |                    |            |                    |            |                    |
| 35229 33                          | Power take-off operated.....  | 7                              | 308                | 433                      | 1,275              | 433        | 1,275              | (D)        | (D)                |
| 35229 34                          | Electric motor operated.....  | 9                              | 3,836              | 3,861                    | 2,061              | 3,861      | 2,061              | (D)        | (D)                |
| 35229 35                          | Continuous flow type.....   | 6                              | 453                | 467                      | 3,114              | 467        | 3,114              | (D)        | (D)                |
| 35229 36                          | Crop drying fans (over 15,000 c.f.m. at approximately one inch pressure):   |                                |                    |                          |                    |            |                    |            |                    |
| 35229 37                          | 24 inches and under diameter.....   | 13                             | 3,042              | 3,375                    | 1,534              | 3,375      | 1,534              | (D)        | (D)                |
| 35229 38                          | Over 24 inches diameter.....  |                                |                    |                          |                    |            |                    |            |                    |
| 35229 39                          | Other machines for preparing crops for market or for use.....               | 73                             | (X)                | (X)                      | 6,241              | (X)        | 5,562              | (X)        | 679                |
| 35229 40                          | Attachments.....  | 15                             | (X)                | (X)                      | 2,199              | (X)        | 2,057              | (X)        | 142                |
|                                   | Parts.....  | 39                             | (X)                | (X)                      | 4,085              | (X)        | 3,905              | (X)        | 180                |
| (35228 31)                        | FARM POULTRY EQUIPMENT, TOTAL.....  | 98                             | (X)                | (X)                      | 42,832             | (X)        | 39,234             | (X)        | 3,598              |
| 35229 43                          | Incubators (quantity in total egg capacity):                                |                                |                    |                          |                    |            |                    |            |                    |
| 35229 44                          | Chicken egg (2,000 egg capacity and over).....                              | 8                              | 27,082,092         | 24,666,045               | 3,751              | 14,424,207 | 2,576              | 10,241,838 | 1,175              |
| 35229 45                          | Turkey egg (2,000 egg capacity and over).....                               | 10                             | 2,076,657          | 1,795,023                | 423                | 1,647,930  | 389                | 147,093    | 34                 |
|                                   | All other incubators (under 2,000 egg capacity).....                        |                                |                    |                          |                    |            |                    |            |                    |
| 35229 46                          | Brooders, floor:  |                                |                    |                          |                    |            |                    |            |                    |
| 35229 47                          | Electric.....   | 15                             | 37,511             | 38,537                   | 173                | 37,647     | 161                | 890        | 12                 |
| 35229 48                          | Oil.....  | 7                              | 3,534              | 3,543                    | 103                | 2,597      | 82                 | 946        | 21                 |
| 35229 49                          | Gas.....  | 13                             | 107,348            | 108,896                  | 2,545              | 101,711    | 2,336              | 7,185      | 209                |
|                                   | Coal and wood.....  | 5                              | 4,892              | 4,892                    | 204                | 4,892      | 204                | (D)        | (D)                |
| 35229 51                          | Brooders, battery (starting and growing) (quantity in number of decks)..... | 9                              | 5,543              | 5,926                    | 145                | 5,486      | 129                | 440        | 16                 |
| 35229 52                          | Nests (hole and colony-type) (total linear footage):                        |                                |                    |                          |                    |            |                    |            |                    |
| 35229 53                          | Hand-gathered.....  | 26                             | 2,412,825          | 2,424,354                | 3,007              | 2,367,432  | 2,924              | 56,922     | 83                 |
|                                   | Mechanical-gathered.....  | 5                              | 171,234            | 172,519                  | 1,096              | 172,519    | 1,096              | (D)        | (D)                |
| 35229 54                          | Laying cages (total square feet of floor area).....                         | 16                             | 3,242,098          | 3,238,483                | 2,981              | 3,238,483  | 2,981              | (D)        | (D)                |
| 35229 55                          | Poultry feeders (except chick feeders):                                     |                                |                    |                          |                    |            |                    |            |                    |
| 35229 56                          | Trough (except automatic) (total linear footage) ..                         | 22                             | 526,394            | 546,964                  | 288                | 546,964    | 288                | (D)        | (D)                |
| 35229 57                          | Hanging.....  | 18                             | 651,126            | 659,538                  | 1,131              | 618,926    | 1,074              | 40,612     | 57                 |
|                                   | Automatic (total linear footage of conveyor).....                           | 19                             | 6,521,774          | 6,579,575                | 9,874              | 5,999,449  | 9,209              | 580,126    | 665                |
| 35229 58                          | Chick feeders.....  | 18                             | 398,489            | 412,975                  | 329                | 389,304    | 315                | 23,671     | 14                 |
| 35229 59                          | Poultry waterers:   |                                |                    |                          |                    |            |                    |            |                    |
| 35229 61                          | Trough (total linear footage).....  | 27                             | 2,640,448          | 2,631,765                | 2,952              | 2,543,858  | 2,823              | 87,907     | 129                |
| 35229 62                          | Automatic fountains.....  | 25                             | 455,126            | 486,961                  | 575                | 419,258    | 506                | 67,703     | 69                 |
|                                   | All other waterers.....   | 20                             | 1,813,824          | 1,876,075                | 944                | 1,596,325  | 869                | 279,750    | 75                 |

See footnotes at end of table.



TABLE 6A-8. Farm Machines and Equipment: 1963 and 1958—Continued

| 1958<br>Census<br>product<br>code | Type of farm equipment  | 1958                           |                    |                          |                    |            |                    |            |                    |
|-----------------------------------|---|--------------------------------|--------------------|--------------------------|--------------------|------------|--------------------|------------|--------------------|
|                                   |   | Number<br>of<br>com-<br>panies | Number<br>produced | Manufacturers' shipments |                    |            |                    |            |                    |
|                                   |   |                                |                    | Total                    |                    | Domestic   |                    | For export |                    |
|                                   |   |                                |                    | Number                   | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) |
| (35228 21)                        | MACHINES FOR PREPARING CROPS FOR MARKET OR FOR USE, TOTAL <sup>3</sup> .....    | (X)                            | (X)                | (X)                      | 44,166             | (X)        | 41,636             | (X)        | 2,530              |
| 35229 17                          | Stationary threshers (except peanut).....                                       | 9                              | 368                | 430                      | 760                | 430        | 760                | (D)        | (D)                |
| 35229 18                          | Peanut pickers and threshers.....   |                                |                    |                          |                    |            |                    |            |                    |
|                                   | Corn shellers, power:   |                                |                    |                          |                    |            |                    |            |                    |
| 35229 19                          | Capacity less than 150 bushels per hour.....                                    | 4                              | 423                | 547                      | 65                 | 547        | 65                 | (D)        | (D)                |
| 35229 20                          | Capacity 150 to 500 bushels per hour.....                                       | 4                              | 2,415              | 2,333                    | 900                | 2,333      | 900                | (D)        | (D)                |
| 35229 21                          | Capacity over 500 bushels per hour.....   | 5                              | 919                | 1,075                    | 1,534              | 1,075      | 1,534              | (D)        | (D)                |
| 35229 22                          | Ensilage cutters (silo fillers).....  | 4                              | (D)                | 455                      | 173                | 48         | 21                 | 407        | 152                |
|                                   | Feed grinders and crushers, power (farm size):                                  |                                |                    |                          |                    |            |                    |            |                    |
| 35229 24                          | Hammer mills, with hammers only.....  | 25                             | 9,238              | 9,571                    | 1,970              | 6,826      | 1,550              | 2,745      | 420                |
| 35229 25                          | Burr mills, with grinding plates only.....                                      | 10                             | 5,965              | 5,983                    | 1,851              | 5,983      | 1,851              | (D)        | (D)                |
| 35229 26                          | Combination roughage mills.....   | 9                              | 5,269              | 6,002                    | 2,039              | 6,002      | 2,039              | (D)        | (D)                |
| 35229 27                          | Feed mixers (farm size).....  | 18                             | 9,662              | 9,308                    | 2,673              | 9,308      | 2,673              | (D)        | (D)                |
| 35229 28                          | Grain and corn graders and cleaners (farm size)....                             | 10                             | 2,343              | 2,393                    | 388                | 2,393      | 388                | (D)        | (D)                |
| 35229 31                          | Tobacco curers.....   | 11                             | 3,812              | 5,491                    | 646                | 5,295      | 614                | 196        | 32                 |
|                                   | Driers, grain, hay, and seed:   |                                |                    |                          |                    |            |                    |            |                    |
| 35229 34                          | Heated air crop driers.....   | 22                             | 8,802              | 7,477                    | 11,696             | 7,385      | 11,497             | 92         | 199                |
| 35229 90                          | Crop drying fans (over 15,000 CFM at approxi-<br>mately one inch pressure)..... | 7                              | 5,572              | 5,155                    | 709                | 5,155      | 709                | -          | -                  |
| 35229 36                          | Other machines for preparing crops for market or<br>for use.....                | 70                             | (X)                | (X)                      | 9,713              | (X)        | 8,432              | (X)        | 1,281              |
| 35229 37                          | Attachments.....  | 29                             | (X)                | (X)                      | 5,357              | (X)        | 5,161              | (X)        | 196                |
| 35229 38                          | Parts.....  | 50                             | (X)                | (X)                      | 3,692              | (X)        | 3,442              | (X)        | 250                |
| (35228 31)                        | FARM POULTRY EQUIPMENT, TOTAL <sup>3</sup> .....                                | (X)                            | (X)                | (X)                      | 41,302             | (X)        | 38,610             | (X)        | 2,692              |
|                                   | Incubators (quantity in total egg capacity):                                    |                                |                    |                          |                    |            |                    |            |                    |
| 35229 39                          | 1,000 egg capacity and smaller.....   | 8                              | 1,506,747          | 1,506,779                | 276                | 1,406,673  | 262                | 100,106    | 14                 |
| 35229 40                          | 1,001-19,999 egg capacity.....  | 8                              | 7,897,127          | 7,666,790                | 1,277              | 6,458,926  | 1,050              | 1,207,864  | 227                |
| 35229 41                          | 20,000 egg capacity and larger.....   | 5                              | 39,539,984         | 37,600,416               | 5,034              | 30,432,856 | 3,917              | 7,167,560  | 1,117              |
|                                   | Brooders, floor:  |                                |                    |                          |                    |            |                    |            |                    |
| 35229 42                          | Electric.....   | 16                             | 94,482             | 100,275                  | 459                | 96,606     | 432                | 3,669      | 27                 |
| 35229 43                          | Oil.....  | 8                              | 24,302             | 25,510                   | 864                | 22,501     | 778                | 3,009      | 86                 |
| 35229 44                          | Gas.....  | 13                             | 111,463            | 115,570                  | 3,620              | 109,454    | 3,432              | 6,116      | 188                |
| 35229 45                          | Coal and wood.....  | 4                              | 12,622             | 12,433                   | 437                | 12,433     | 437                | (D)        | (D)                |
| 35229 46                          | Brooders, battery (quantity in number of decks)....                             | 13                             | 15,210             | 12,397                   | 282                | 10,214     | 223                | 2,183      | 59                 |
| 35229 47                          | Growing batteries (quantity in number of decks)....                             | 11                             | 3,709              | 4,341                    | 51                 | 4,341      | 51                 | (D)        | (D)                |
| 35229 48                          | Nests, hens', trap and laying (quantity in number<br>of openings).....          | 33                             | 1,783,430          | 1,803,323                | 2,662              | 1,790,396  | 2,609              | 12,927     | 53                 |
| 35229 96                          | Laying cages.....   | 18                             | 500,140            | 480,212                  | 566                | 480,212    | 566                | (D)        | (D)                |
|                                   | Poultry feeders:  |                                |                    |                          |                    |            |                    |            |                    |
| 35229 29                          | Trough type.....  | 38                             | 1,847,923          | 1,890,136                | 2,945              | 1,820,256  | 2,876              | 69,880     | 69                 |
| 35229 30                          | Hanging type.....   | 20                             | 1,782,063          | 1,874,910                | 3,431              | 1,843,372  | 3,367              | 31,538     | 64                 |
| 35229 51                          | Automatic.....  | 14                             | 17,282             | 17,345                   | 7,585              | 16,602     | 7,292              | 743        | 293                |
|                                   | Poultry waterers:   |                                |                    |                          |                    |            |                    |            |                    |
| 35229 32                          | Trough type.....  | 33                             | 537,191            | 530,027                  | 3,200              | 520,238    | 3,102              | 9,789      | 98                 |
| 35229 33                          | Others.....   | 39                             | 1,735,204          | 2,194,963                | 3,105              | 2,119,404  | 3,004              | 75,559     | 101                |

See footnotes at end of table.

TABLE 6A-8. Farm Machines and Equipment: 1963 and 1958—Continued

| 1963<br>Census<br>product<br>code | Type of farm equipment   | 1963                           |                    |                          |                    |          |                    |            |                    |
|-----------------------------------|--|--------------------------------|--------------------|--------------------------|--------------------|----------|--------------------|------------|--------------------|
|                                   |  | Number<br>of<br>com-<br>panies | Number<br>produced | Manufacturers' shipments |                    |          |                    |            |                    |
|                                   |  |                                |                    | Total                    |                    | Domestic |                    | For export |                    |
|                                   |  |                                |                    | Number                   | Value<br>(\$1,000) | Number   | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) |
| (35228 31)                        | FARM POULTRY EQUIPMENT—Continued                                 |                                |                    |                          |                    |          |                    |            |                    |
| 35229 63                          | Poultry house cleaners.....                                      | (X)                            | (D)                | (D)                      | (D)                | (D)      | (D)                | -          | -                  |
| 35229 64                          | Room egg coolers (2 hp. and under).....                          | (X)                            | (D)                | (D)                      | (D)                | (D)      | (D)                | -          | -                  |
| 35229 65                          | Egg cooler cabinets.....   | (X)                            | (D)                | (D)                      | (D)                | (D)      | (D)                | -          | -                  |
| 35229 66                          | Egg washers (farm type - 12 cases and under per hour).....       | 10                             | 1,559              | 1,584                    | 541                | 1,584    | 541                | (D)        | (D)                |
| 35229 67                          | Other farm poultry equipment.....                                | 39                             | (X)                | (X)                      | 8,347              | (X)      | 8,059              | (X)        | 288                |
| 35229 68                          | Attachments.....   | 12                             | (X)                | (X)                      | 840                | (X)      | 840                | (X)        | (D)                |
| 35229 69                          | Parts.....   | 23                             | (X)                | (X)                      | 1,857              | (X)      | 1,505              | (X)        | 352                |
| (35228 41)                        | BARN EQUIPMENT, TOTAL.....                                       | 62                             | (X)                | (X)                      | 17,986             | (X)      | 17,399             | (X)        | 587                |
| 35229 71                          | Feed and litter carriers (overhead).....                         | 12                             | 1,977              | 1,816                    | 99                 | 1,816    | 99                 | (D)        | (D)                |
| 35229 72                          | Feed trucks.....   | 15                             | 2,290              | 2,320                    | 154                | 2,320    | 154                | -          | -                  |
| 35229 73                          | Dairy cattle stalls for use with stanchions.....                 | 21                             | 48,052             | 48,640                   | 799                | 48,640   | 799                | (D)        | (D)                |
| 35229 74                          | Chair tie stalls (all types).....                                | 19                             | 50,670             | 50,506                   | 795                | 50,506   | 795                | (D)        | (D)                |
| 35229 75                          | Milking parlor stalls.....                                       | 9                              | 7,167              | 7,270                    | 735                | 7,270    | 735                | (D)        | (D)                |
| 35229 76                          | Panel type milking or feeding stalls.....                        | 8                              | 22,492             | 22,529                   | 281                | 22,529   | 281                | -          | -                  |
| 25229 77                          | Stanchions, swing type.....                                      | 18                             | 103,565            | 100,555                  | 681                | 98,671   | 670                | 1,884      | 11                 |
| 35229 78                          | Livestock pens (dairy and hog) (quantity in number of feet)..... | 21                             | 60,196             | 59,804                   | 780                | 59,804   | 780                | (D)        | (D)                |
| 35229 79                          | Livestock water bowls, inside.....                               | 19                             | 258,127            | 257,213                  | 1,295              | 257,213  | 1,295              | (D)        | (D)                |
| 35229 81                          | Barn cleaners.....   | 20                             | 8,737              | 9,003                    | 8,234              | 8,448    | 7,809              | 555        | 425                |
| 35229 82                          | Other barn equipment.....  | 20                             | (X)                | (X)                      | 620                | (X)      | 620                | (X)        | (D)                |
| 35229 83                          | Attachments.....   | 11                             | (X)                | (X)                      | 1,074              | (X)      | 1,074              | (X)        | (D)                |
| 35229 84                          | Parts.....   | 18                             | (X)                | (X)                      | 2,439              | (X)      | 2,439              | (X)        | (D)                |
| (35228 41)                        | BARNYARD EQUIPMENT, TOTAL.....                                   | 140                            | (X)                | (X)                      | 48,599             | (X)      | 47,146             | (X)        | 1,453              |
|                                   | Silo unloaders:  |                                |                    |                          |                    |          |                    |            |                    |
| 35229 85                          | For tower silos.....   | 24                             | 15,091             | 15,682                   | 14,509             | 14,793   | 13,642             | 889        | 867                |
| 35229 86                          | For horizontal silos.....  |                                |                    |                          |                    |          |                    |            |                    |
| 35229 87                          | Electric powered bunk feeders.....                               | 23                             | 8,339              | 8,499                    | 3,822              | 8,187    | 3,619              | 312        | 203                |
| 35229 88                          | Animal stock tanks.....  | 30                             | 178,957            | 175,558                  | 4,834              | 175,558  | 4,834              | -          | -                  |
| 35229 89                          | Hog troughs.....   | 22                             | 131,062            | 129,348                  | 236                | 129,348  | 236                | (D)        | (D)                |
| 35229 91                          | Livestock outside watering bowls.....                            | 18                             | 82,389             | 80,229                   | 3,041              | 80,229   | 3,041              | (D)        | (D)                |
| 35229 92                          | Hog waterers.....  | 31                             | 167,919            | 180,914                  | 3,296              | 180,914  | 3,296              | (D)        | (D)                |
| 35229 93                          | Livestock water heaters.....                                     | 20                             | 98,727             | 85,217                   | 1,787              | 85,217   | 1,787              | (D)        | (D)                |
|                                   | Hog feeders:   |                                |                    |                          |                    |          |                    |            |                    |
| 35229 94                          | Metal.....   | 39                             | 219,717            | 211,422                  | 8,103              | 210,486  | 8,072              | 936        | 31                 |
| 35229 95                          | Wood.....  | 9                              | 16,775             | 16,289                   | 899                | 16,289   | 899                | -          | -                  |
| 35229 96                          | Other barnyard equipment.....                                    | 47                             | (X)                | (X)                      | 6,206              | (X)      | 6,071              | (X)        | 135                |
| 35229 97                          | Attachments.....   | 14                             | (X)                | (X)                      | 472                | (X)      | 472                | (X)        | (D)                |
| 35229 98                          | Parts.....   | 17                             | (X)                | (X)                      | 1,394              | (X)      | 1,394              | (X)        | (D)                |

Note: The Census product codes shown in parentheses associated with product groups represent those codes used in the 1963 Census of Manufactures and correspond to those Census product codes in table 6A. Other 7-digit product codes represent those used in Current Industrial Reports M35A or M35S for 1963.

Source: Current Industrial Reports Series M35S, Tractors (product codes 3522203-23); and Current Industrial Reports Series M35A, Farm Machinery and Equipment (product codes 3522311-3522998).

- Standard Notes: - Represents zero. (NA) Not available. (X) Not applicable.  
 (D) Withheld to avoid disclosing figures for individual companies. Data for these products for 1963 only are included in the totals. Where applicable both quantity and value of export shipments have been combined with domestic shipments.  
 (S) Pipeline milker units data suppressed due to incomplete coverage.  
<sup>1</sup>The horsepower rating for these tractors are based on the corrected maximum belt or P.T.O. horsepower.  
<sup>2</sup>Data are limited to attachments and parts shipped by companies manufacturing complete tractors.  
<sup>3</sup>The total export figures for 1958 reflect only the sum of publishable products and, therefore, exclude data withheld to avoid disclosing figures of individual companies. Total domestic figures for 1958 include all domestic shipments and, also, include those export figures withheld to avoid disclosing figures of individual companies.  
<sup>4</sup>Excludes pipeline milker units.  
<sup>5</sup>Data for cream separators capacity 500 pounds or less per hour included with parts and attachments.  
<sup>6</sup>Effective with 1963 respondents were requested to use the following definition for reporting: "Garden tractors are defined as tractors weighing less than 1,200 pounds (basic machine), typically powered by air-cooled engines with fewer than four cylinders and total piston displacement of under 45 cubic inches. Such tractors are further distinguished from farm tractors in that they usually carry an engine horsepower rating but not a belt horsepower rating." The 1958 reference list for Form MA35A carried no definition of garden tractors.  
<sup>7</sup>Data for drawn corn and cotton type cultivators included with other cultivators and weeders.  
<sup>8</sup>Excludes value of stanchions shipped with stalls.



TABLE 6A-8. Farm Machines and Equipment: 1963 and 1958—Continued

| 1958<br>Census<br>product<br>code | Type of farm equipment                           | 1958                           |                    |                          |                    |          |                    |            |                    |
|-----------------------------------|--|--------------------------------|--------------------|--------------------------|--------------------|----------|--------------------|------------|--------------------|
|                                   |  | Number<br>of<br>com-<br>panies | Number<br>produced | Manufacturers' shipments |                    |          |                    |            |                    |
|                                   |  |                                |                    | Total                    |                    | Domestic |                    | For export |                    |
|                                   |  |                                |                    | Number                   | Value<br>(\$1,000) | Number   | Value<br>(\$1,000) | Number     | Value<br>(\$1,000) |
| FARM POULTRY EQUIPMENT—Continued  |  |                                |                    |                          |                    |          |                    |            |                    |
| 35229 55                          | Other farm poultry equipment.....                | 35                             | (X)                | (X)                      | 2,936              | (X)      | 2,849              | (X)        | 87                 |
| 35229 56                          | Attachments.....                                 | 14                             | (X)                | (X)                      | 743                | (X)      | 724                | (X)        | 19                 |
| 35229 57                          | Parts.....                                       | 25                             | (X)                | (X)                      | 1,829              | (X)      | 1,639              | (X)        | 190                |
| (35228 41)                        | BARN EQUIPMENT, TOTAL <sup>3</sup> .....         | (X)                            | (X)                | (X)                      | 20,393             | (X)      | 19,895             | (X)        | 498                |
| 35229 58                          | Feed and litter carriers (overhead).....         | 15                             | 1,754              | 1,661                    | 116                | 1,661    | 116                | (D)        | (D)                |
| 35229 59                          | Feed trucks.....                                 | 19                             | 3,592              | 3,793                    | 243                | 3,727    | 239                | 66         | 4                  |
| 35229 62                          | Dairy cattle stalls for use with stanchions..... | 19                             | 77,810             | 77,832                   | 71,193             | 77,832   | 71,193             | (D)        | (D)                |
| 35229 63                          | Chain tie stalls (all types).....                | 17                             | 33,141             | 33,084                   | 657                | 33,084   | 657                | (D)        | (D)                |
| 35229 64                          | Milking parlor stalls.....                       | 13                             | 11,769             | 11,825                   | 1,111              | 11,825   | 1,111              | (D)        | (D)                |
| 35229 65                          | Panel type milking or feeding stalls.....        | 7                              | 10,113             | 9,991                    | 141                | 9,991    | 141                | (D)        | (D)                |
| 35229 66                          | Stanchions, swing type.....                      | 22                             | 181,444            | 181,610                  | 1,096              | 189,610  | 1,096              | (D)        | (D)                |
| 35229 67                          | Livestock pens (quantity in number of feet)..... | 15                             | 67,484             | 67,510                   | 409                | 67,501   | 409                | (D)        | (D)                |
| 35229 68                          | Livestock water bowls, inside.....               | 20                             | 266,600            | 264,086                  | 1,490              | 264,086  | 1,490              | (D)        | (D)                |
| 35229 69                          | Barn cleaners.....                               | 23                             | 12,364             | 12,477                   | 11,229             | 11,867   | 10,749             | 610        | 480                |
| 35229 70                          | Other barn equipment.....                        | 21                             | (X)                | (X)                      | 1,119              | (X)      | 1,105              | (X)        | 14                 |
| 35229 71                          | Attachments.....                                 | 8                              | (X)                | (X)                      | 371                | (X)      | 371                | (X)        | (D)                |
| 35229 72                          | Parts.....                                       | 17                             | (X)                | (X)                      | 1,218              | (X)      | 1,218              | (X)        | (D)                |
| (35228 41)                        | BARNYARD EQUIPMENT, TOTAL <sup>3</sup> .....     | (X)                            | (X)                | (X)                      | 28,286             | (X)      | 28,159             | (X)        | 127                |
| 35229 92                          | Silo unloaders.....                              | 12                             | 5,416              | 5,487                    | 5,002              | 5,487    | 5,002              | (D)        | (D)                |
| 35229 93                          | Mechanical feeders.....                          | 14                             | 4,811              | 4,770                    | 612                | 4,770    | 612                | (D)        | (D)                |
| 35229 73                          | Animal stock tanks.....                          | 35                             | 139,784            | 142,783                  | 3,565              | 142,783  | 3,565              | (D)        | (D)                |
| 35229 74                          | Hog troughs.....                                 | 24                             | 152,483            | 159,063                  | 289                | 152,483  | 289                | (D)        | (D)                |
| 35229 75                          | Livestock outside watering bowls.....            | 15                             | 33,040             | 33,269                   | 1,600              | 33,269   | 1,600              | (D)        | (D)                |
| 35229 76                          | Hog waterers.....                                | 37                             | 224,738            | 225,974                  | 2,786              | 225,974  | 2,786              | (D)        | (D)                |
| 35229 77                          | Livestock water heaters.....                     | 25                             | 101,507            | 103,006                  | 1,233              | 103,006  | 1,233              | (D)        | (D)                |
| Hog feeders:                      |  |                                |                    |                          |                    |          |                    |            |                    |
| 35229 78                          | Metal.....                                       | 41                             | 229,449            | 224,168                  | 8,380              | 222,951  | 8,350              | 1,217      | 30                 |
| 35229 79                          | Wood.....  | 9                              | 12,560             | 12,386                   | 682                | 12,386   | 682                | -          | -                  |
| 35229 80                          | Other barnyard equipment.....                    | 55                             | (X)                | (X)                      | 3,372              | (X)      | 3,275              | (X)        | 97                 |
| 35229 81                          | Attachments.....                                 | 11                             | (X)                | (X)                      | 260                | (X)      | 260                | (X)        | (X)                |
| 35229 82                          | Parts.....                                       | 17                             | (X)                | (X)                      | 505                | (X)      | 505                | (X)        | (D)                |

TABLE 6B. **Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958**

| Product code | Product and year  | Indexes (1954 = 100) |                  |
|--------------|---|----------------------|------------------|
|              |   | Production           | Unit value       |
| 351--        | Engines and turbines.....1963..   | 153                  | 94               |
|              | .....1958..   | 121                  | 112              |
| 3511-        | Steam engines and turbines <sup>1</sup> .....1963..   | 157                  | 78               |
|              | .....1958..   | 146                  | 108              |
| 3519-        | Internal combustion engines <sup>2</sup> .....1963..  | 150                  | 102              |
|              | .....1958..   | 108                  | 114              |
| 35191        | Gasoline engines, except outboard, aircraft, automobile, truck, bus and tank <sup>2</sup> .....1963.. | 150                  | 96               |
|              | .....1958..   | 118                  | 101              |
| 35192        | Diesel and semidiesel engines <sup>2</sup> .....1963..  | 157                  | 107              |
|              | .....1958..   | 90                   | 126              |
| 35193        | Gas engines (except gas turbines) <sup>2</sup> .....1963..  | 166                  | 72               |
|              | .....1958..   | 106                  | 114              |
| 35195        | Outboard motors.....1963..  | 169                  | 117              |
|              | .....1958..   | 179                  | 116              |
| 352--        | Farm machinery and equipment.....1963..   | ( <sup>3</sup> )     | ( <sup>3</sup> ) |
|              | .....1958..   | ( <sup>3</sup> )     | ( <sup>3</sup> ) |

<sup>1</sup>Indexes based on horsepower and kilowatt capacity quantities rather than on number of units. Marine steam turbines have been excluded from the computation of unit value but their shipments are reflected in the production index.

<sup>2</sup>These indexes are based on piston size (displacement) quantities rather than on number of engines. The 4-digit (industry) level of production for the products of 3519 has been adjusted to include product class 35197 (parts and accessories for internal combustion engines) as well as product class 35196 (other internal combustion engines).

<sup>3</sup>Indexes for this group (primary products of industry 3522) are not shown pending further review of quantity and related shipments data.



TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class   | 1963                   | 1962 <sup>1</sup>      | 1961 <sup>1</sup>      | 1960 <sup>1</sup>      | 1959 <sup>1</sup>      | 1958                   | 1954      | 1947      |
|-------|---|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------|-----------|
| 3511- | Steam engines and turbines.....   | 589,101                | 552,418                | 584,733                | 623,124                | 639,876                | 753,988                | 426,197   | 119,027   |
| 35111 | Steam, gas, and hydraulic turbine generator set units and parts.....                          | 589,101                | 361,611                | 425,661                | 470,807                | 473,815                | 489,477                | 317,303   | 67,179    |
| 35112 | Steam, gas, and hydraulic turbine and parts; steam engines and parts.....                     |                        |                        |                        |                        |                        |                        |           |           |
| 3519- | Internal combustion engines.....  | <sup>2</sup> 1,421,478 | <sup>2</sup> 1,324,202 | <sup>2</sup> 1,121,403 | <sup>2</sup> 1,194,599 | <sup>2</sup> 1,319,218 | <sup>2</sup> 1,133,461 | (NA)      | (NA)      |
| 35191 | Gasoline engines, except outboard, aircraft and automotive engines.....                       | <sup>3</sup> 267,430   | <sup>3</sup> 273,468   | <sup>3</sup> 235,887   | <sup>3</sup> 237,599   | <sup>3</sup> 286,022   | <sup>3</sup> 230,069   | 192,541   | 165,663   |
| 35192 | Diesel and semidiesel engines.....  | 464,428                | 424,198                | 345,765                | 363,552                | 407,239                | 314,480                | 247,134   | (NA)      |
| 35193 | Gas engines (except gas turbines).....  | <sup>3</sup> 22,318    | <sup>2</sup> 25,245    | <sup>3</sup> 18,581    | <sup>3</sup> 14,509    | <sup>3</sup> 20,403    | <sup>3</sup> 19,308    | 25,993    | 18,092    |
| 35195 | Outboard motors.....  | 183,767                | 181,139                | 147,631                | 190,834                | 215,767                | 157,879                | 76,039    | 50,038    |
| 35196 | Other internal combustion engines (including converted engines and tank engines)...           |                        |                        |                        |                        |                        | 31,025                 | (NA)      | (NA)      |
| 35197 | Parts and accessories for internal combustion engines.....                                    |                        |                        |                        |                        |                        | 480,602                | 420,152   | 373,539   |
| 35190 | Internal combustion engines, n.s.k.....   | 2,933                  | -                      | -                      | (1,417)                | (1,386)                | 1,342                  | (NA)      | (NA)      |
| 3522- | Farm machinery and equipment.....   | <sup>2</sup> 2,525,768 | <sup>2</sup> 2,266,130 | <sup>2</sup> 2,057,343 | <sup>2</sup> 1,978,990 | <sup>2</sup> 2,331,682 | <sup>2</sup> 2,202,108 | 1,693,778 | 1,285,996 |
| 35222 | Wheel tractors and parts and attachments... (except garden and contractors' off-highway)..... | 808,396                | <sup>4</sup> 684,590   | <sup>4</sup> 601,773   | <sup>4</sup> 511,247   | <sup>4</sup> 737,712   | 687,271                | 562,579   | 480,942   |
| 35223 | Planting, seeding and fertilizing machinery and parts.....                                    | <sup>3</sup> 111,912   | <sup>3</sup> 104,538   | <sup>3</sup> 95,725    | <sup>3</sup> 98,075    | <sup>3</sup> 110,662   | <sup>3</sup> 101,197   | 93,593    | 73,990    |
| 35224 | Plows, listers, harrows, rollers, pulverizers, and stalk cutters, and parts.....              | <sup>3</sup> 191,631   | <sup>3</sup> 163,150   | <sup>3</sup> 145,699   | <sup>3</sup> 146,392   | <sup>3</sup> 183,098   | <sup>3</sup> 165,962   | 137,111   | 140,952   |
| 35225 | Harvesting machinery and parts.....   | <sup>3</sup> 386,007   | <sup>3</sup> 318,905   | <sup>3</sup> 308,942   | 323,862                | <sup>3</sup> 343,808   | <sup>3</sup> 311,916   | 252,566   | 191,570   |
| 35226 | Haying machinery and parts.....   | <sup>3</sup> 131,769   | <sup>3</sup> 126,496   | <sup>3</sup> 123,998   | 140,351                | <sup>3</sup> 163,654   | <sup>3</sup> 175,860   | 147,883   | 94,903    |
| 35227 | Lawn mowers and parts.....  | 268,661                | 244,705                | 222,406                | 237,647                | 249,355                | 239,815                | 138,420   | 71,053    |
| 35228 | All other farm machinery and equipment.....   | 555,934                | 623,746                | 555,461                | 518,960                | 541,383                | 485,381                | 361,626   | 232,586   |
| 35220 | Farm machinery and equipment, n.s.k.....  | 71,458                 | -                      | (3,339)                | (2,456)                | (2,010)                | 34,706                 | -         | -         |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>These figures represent the sum of 5-digit product class data obtained from Current Industrial Reports and from the census of manufactures or the annual survey of manufactures.

<sup>3</sup>Source for these data are as listed below:

35191 } Current Industrial Reports Series M35L  
 35193 }  
 35223, }  
 4, 5, } Current Industrial Reports Series M35A  
 6 }

<sup>4</sup>Excludes value of parts sold to other plants producing wheel tractors.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area  | Value of shipments |                  | Product class and geographic area  | Value of shipments |                  | Product class and geographic area                     | Value of shipments |                  |
|--|--------------------|------------------|--|--------------------|------------------|---|--------------------|------------------|
|  | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |
| <b>GASOLINE ENGINES, EXCEPT OUTBOARD, AIRCRAFT AND AUTOMOTIVE ENGINES (35191)</b>                    |                    |                  | <b>PLANTING, SEEDING, AND FERTILIZING MACHINERY, AND PARTS (35223)—Con.</b>                |                    |                  | <b>LAWN MOWERS AND PARTS (35227)</b>                  |                    |                  |
| United States, total....   | 270,108            |                  | West North Central.....  | 26,879             | 14,963           | United States, total....                              | 268,661            | 239,815          |
| East North Central.....  | 241,242            |                  | Minnesota.....   | 8,128              | 4,177            | Northeast.....  | 6,540              | 25,733           |
| Illinois.....  | 5,476              |                  | Iowa.....  | 12,651             | 7,588            | East North Central.....                               | 139,732            | ( <sup>2</sup> ) |
| Michigan.....  | 64,780             |                  | Nebraska.....  | 3,621              | 1,438            | Ohio.....   | 61,463             | 43,117           |
| Wisconsin.....   | 165,646            |                  | South.....   | 10,852             | 4,072            | Indiana.....  | 25,342             | 25,229           |
| All other divisions.....   | 28,866             |                  | West.....  | 1,556              | 1,160            | Illinois.....   | 23,058             | 30,980           |
| <b>DIESEL AND SEMIDIESEL ENGINES (35192)</b>   |                    |                  | <b>PLOWS, LISTERS, HARROWS, ROLLERS, PULVERIZERS, AND STALK CUTTERS, AND PARTS (35224)</b> |                    |                  | West North Central.....                               | 71,400             | ( <sup>2</sup> ) |
| United States, total....   | 464,428            | 314,450          | United States, total....   | 192,837            | 160,576          | Minnesota.....  | 22,107             | ( <sup>2</sup> ) |
| East North Central.....  | 403,246            | ( <sup>2</sup> ) | Northeast.....   | 1,766              | 1,544            | Iowa.....   | 9,009              | 16,733           |
| Illinois.....  | 107,720            | 85,889           | East North Central.....  | 117,497            | 99,148           | Missouri.....   | 27,777             | 20,922           |
| Wisconsin.....   | 12,308             | ( <sup>2</sup> ) | Illinois.....  | 93,488             | 74,989           | South Atlantic.....                                   | 11,950             | 10,000           |
| West North Central.....  | 2,196              | ( <sup>2</sup> ) | West North Central.....  | 17,457             | 16,081           | Florida.....  | 1,895              | 1,326            |
| All other divisions.....   | 58,986             | 51,189           | Minnesota.....   | 3,664              | ( <sup>2</sup> ) | East South Central.....                               | 31,177             | 5,897            |
| <b>PARTS AND ACCESSORIES FOR INTERNAL COMBUSTION ENGINES (35197)</b>                                 |                    |                  | Iowa.....  | 5,325              | 4,272            | West South Central.....                               | 3,306              |                  |
| United States, total....   | 480,602            | 379,358          | Nebraska.....  | 1,417              | 1,603            | West.....   | 4,556              |                  |
| Northeast.....   | 66,626             | 49,191           | Kansas.....  | 5,396              | 5,361            | <b>ALL OTHER FARM MACHINERY AND EQUIPMENT (35228)</b> |                    |                  |
| New Jersey.....  | 2,748              | ( <sup>2</sup> ) | South Atlantic.....  | 9,471              | 10,727           | United States, total....                              | 555,934            | 450,236          |
| Pennsylvania.....  | 11,487             | 10,099           | Georgia.....   | 8,396              | 6,984            | Northeast.....  | 40,210             | 33,890           |
| East North Central.....  | 363,136            | 298,919          | East South Central.....  | 15,759             | 8,696            | New York.....   | 17,852             | 15,229           |
| Ohio.....  | 18,730             | 19,650           | Tennessee.....   | 6,369              | 4,547            | New Jersey.....                                       | 2,651              | 3,271            |
| Illinois.....  | 87,571             | 91,946           | West South Central.....  | 14,641             | 9,736            | Pennsylvania.....                                     | 19,187             | 14,069           |
| Wisconsin.....   | 81,051             | 60,287           | Texas.....   | 10,811             | 8,959            | East North Central.....                               | 272,400            | 238,332          |
| West North Central.....  | 21,713             | 11,318           | Mountain.....  | 2,779              | 2,032            | Ohio.....   | 29,895             | 28,764           |
| Iowa.....  | 7,635              | ( <sup>2</sup> ) | Pacific.....   | 13,467             | 12,612           | Indiana.....  | 35,014             | 26,773           |
| Missouri.....  | 6,428              | ( <sup>2</sup> ) | California.....  | 13,331             | 12,213           | Illinois.....   | 91,888             | 95,583           |
| South.....   | 9,485              | 19,930           | <b>HARVESTING MACHINERY, AND PARTS (35225)</b>   |                    |                  | Michigan.....   | 33,625             | 28,229           |
| Texas.....   | 5,928              |                  | United States, total....   | 395,299            | 321,434          | Wisconsin.....  | 81,978             | 58,983           |
| West.....  | 19,642             |                  | Northeast and South.....   | 48,246             | 25,178           | West North Central.....                               | 136,235            | 113,465          |
| <b>WHEEL TRACTORS AND PARTS AND ATTACHMENTS (EXCEPT GARDEN AND CONTRACTORS' OFF-HIGHWAY) (35222)</b> |                    |                  | New York.....  | 1,906              | ( <sup>2</sup> ) | Minnesota.....  | 36,229             | 26,111           |
| United States, total....   | 808,396            | 687,271          | East North Central.....  | 206,549            | 197,152          | Iowa.....   | 66,787             | 49,137           |
| East North Central.....  | 440,962            | 441,549          | Illinois.....  | 149,896            | ( <sup>2</sup> ) | Missouri.....   | 6,899              | 7,236            |
| Indiana.....   | 6,536              | 8,482            | Wisconsin.....   | 19,111             | ( <sup>2</sup> ) | Nebraska.....   | 10,318             | 15,878           |
| Michigan.....  | 185,406            | ( <sup>2</sup> ) | West North Central.....  | 127,067            | 90,294           | Kansas.....   | 14,225             | 12,766           |
| All other divisions.....   | 367,434            | 245,722          | Minnesota.....   | 8,973              | ( <sup>2</sup> ) | South Atlantic.....                                   | 38,934             | 17,300           |
| Nebraska.....  | 1,511              | ( <sup>2</sup> ) | Iowa.....  | 76,437             | 50,409           | Virginia.....   | 3,643              | 2,789            |
| <b>PLANTING, SEEDING, AND FERTILIZING MACHINERY, AND PARTS (35223)</b>                               |                    |                  | Mountain.....  | 5,973              | ( <sup>2</sup> ) | North Carolina.....                                   | 9,015              | 2,730            |
| United States, total....   | 115,720            | 95,984           | Idaho.....   | 2,595              | 2,207            | Georgia.....  | 9,596              | 4,034            |
| Northeast.....   | 6,355              | 5,408            | Pacific.....   | 7,464              | ( <sup>2</sup> ) | Florida.....  | 4,177              | 2,046            |
| East North Central.....  | 70,078             | 70,381           | <b>HAYING MACHINERY AND PARTS (35226)</b>  |                    |                  | East South Central.....                               | 23,885             | ( <sup>2</sup> ) |
| Ohio.....  | 7,003              | 11,411           | United States, total....   | 1963 <sup>1</sup>  |                  | Tennessee.....  | 8,344              | 2,922            |
| Indiana.....   | 5,647              | ( <sup>2</sup> ) | East North Central.....  | 133,804            |                  | Mississippi.....                                      | 2,745              | 2,029            |
| Illinois.....  | 40,470             | ( <sup>2</sup> ) | Illinois.....  | 37,423             |                  | West South Central.....                               | 8,470              | ( <sup>2</sup> ) |
| Wisconsin.....   | 16,115             | ( <sup>2</sup> ) | West North Central.....  | 37,293             |                  | Arkansas.....   | 1,098              | ( <sup>2</sup> ) |
|  |                    |                  | Minnesota.....   | 4,803              |                  | Oklahoma.....   | 1,603              | 1,611            |
|  |                    |                  | Iowa.....  | 27,864             |                  | Texas.....  | 5,180              | 6,262            |
|  |                    |                  | Kansas.....  | 1,093              |                  | Mountain.....   | 5,546              | 4,130            |
|  |                    |                  | All other divisions.....   | 59,088             |                  | Idaho.....  | 1,332              | ( <sup>2</sup> ) |
|  |                    |                  |  |                    |                  | Colorado.....   | 3,740              | 2,542            |
|  |                    |                  |  |                    |                  | Pacific.....  | 30,254             | 26,491           |
|  |                    |                  |  |                    |                  | Washington.....                                       | 3,913              | 2,989            |
|  |                    |                  |  |                    |                  | Oregon.....   | 2,379              | 1,386            |
|  |                    |                  |  |                    |                  | California.....                                       | 23,962             | 22,116           |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 35191, Ohio, Indiana, Minnesota, Iowa, and Kentucky; 35192, New York, Pennsylvania, Ohio, Indiana, Michigan, Iowa, Texas, and California; 35197, Massachusetts, Connecticut, New York, Indiana, Michigan, Minnesota, Kentucky, Colorado, and California; 35222, Ohio, Illinois, Wisconsin, Minnesota, Iowa, Georgia, Kentucky, Louisiana, Texas, and Oregon; 35223, Pennsylvania, Missouri, North Carolina, and Alabama; 35224, Pennsylvania, Indiana, Wisconsin, North Dakota, Alabama, Mississippi, Louisiana, and Colorado; 35225, Pennsylvania, Ohio, Indiana, Missouri, North Dakota, Nebraska, Kansas, North Carolina, Georgia, Tennessee, Arkansas, Louisiana, Arizona, Utah, and California; 35226, Pennsylvania, Ohio, Indiana, South Dakota, North Carolina, Tennessee, and Oregon; 35227, Connecticut, Pennsylvania, Michigan, Wisconsin, Nebraska, Kansas, Georgia, Alabama, Mississippi, Oklahoma, Texas, and California; 35228, Maryland, West Virginia, South Carolina, and Kentucky.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code                                       | Material  | Unit of measure            | 1963     |                          | 1958     |                          |
|--|---|----------------------------|----------|--------------------------|----------|--------------------------|
|  |   |                            | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3511.—STEAM ENGINES AND TURBINES  |   |                            |          |                          |          |                          |
|  | Materials, parts, containers, and supplies, total.....  |                            | (X)      | 219,107                  | (X)      | 328,353                  |
|  | Mill shapes and forms (except castings):  |                            |          |                          |          |                          |
|  | Carbon steel:   |                            |          |                          |          |                          |
| 331010                                     | Bars and bar shapes.....  | Short tons.....            | 9,969    | 1,849                    | 23,366   | 3,986                    |
| 331012                                     | Sheet and strip.....  | ..do.....                  | 18,569   | 3,746                    | 31,261   | 6,120                    |
| 331013                                     | Plates.....   | ..do.....                  | 70,863   | 9,611                    | 80,219   | 11,277                   |
| 331015                                     | Structural shapes.....  | ..do.....                  | 4,380    | 687                      | 4,325    | 734                      |
| 331017                                     | Wire and wire products.....   | ..do.....                  | 4,683    | 1,973                    | 7,392    | 1,389                    |
| 331019                                     | All other carbon steel mill shapes and forms.....   | ..do.....                  |          |                          |          |                          |
|  | Alloy steel (except stainless):   |                            |          |                          |          |                          |
| 331021                                     | Bar and bar shapes.....   | ..do.....                  | 3,650    | 2,350                    | 4,394    | 1,805                    |
| 331029                                     | All other alloy steel mill shapes and forms.....  | ..do.....                  | 4,020    | 4,113                    | 11,689   | 3,540                    |
| 331031                                     | Stainless steel mill shapes and forms.....  | ..do.....                  | 7,157    | 9,692                    | 7,583    | 9,162                    |
|  | Copper and copper-base alloy mill shapes and forms:   |                            |          |                          |          |                          |
| 335728                                     | Bare wire (for electrical conduction).....  | 1,000 lbs.....             | 8,551    | 4,011                    | (D)      | (D)                      |
| 335790                                     | Insulated wire and cable.....   | 1,000 lbs. copper content. |          |                          |          |                          |
| 335102                                     | Rod, bar and mechanical wire, including extruded and/or drawn shapes.....                             | 1,000 lbs.....             | 11,721   | 6,789                    | (D)      | (D)                      |
| 335123                                     | Plate, sheet and strip, including military cups and discs.....  | ..do.....                  | 1,719    | 944                      |          |                          |
| 335127                                     | Pipe and tube.....  | ..do.....                  | 2,579    | 1,919                    |          |                          |
|  | Aluminum and aluminum-base alloy mill shapes and forms:   |                            |          |                          |          |                          |
| 335202                                     | Sheet, plate and foil.....  | ..do.....                  | 224      | 112                      | (X)      | (X)                      |
| 335205                                     | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                                       | ..do.....                  | 411      | 223                      | (X)      | (X)                      |
| 335209                                     | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                  |          |                          |          |                          |
| 333401                                     | Primary metals - aluminum and aluminum-base alloy refinery shapes..                                   |                            | (D)      | (D)                      | (X)      | (X)                      |
|  | Castings (rough and semifinished): <sup>1</sup>   |                            |          |                          |          |                          |
| 332011                                     | Iron (gray and malleable).....  | Short tons.....            | 10,238   | 5,697                    | 17,439   | 9,381                    |
| 332300                                     | Steel.....  | ..do.....                  | 19,651   | 24,969                   | 37,197   | 39,430                   |
| 336100                                     | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....             | 391      | 412                      | -        | -                        |
| 336200                                     | Copper and copper-base alloy.....   | ..do.....                  | 2,765    | 2,955                    | 7,397    | 5,195                    |
| 339100                                     | Iron and steel forgings <sup>2</sup> .....  | Short tons.....            | 16,560   | 31,525                   | 30,093   | 48,195                   |
| 362120                                     | Integral horsepower motors and generators (1 horsepower and over) <sup>2</sup> .                      | Number.....                | 1,939    | 9,576                    | (D)      | (D)                      |
|  | Bearings:   |                            |          |                          |          |                          |
| 356218                                     | Ball.....   |                            | (X)      | 321                      | (X)      | 1,020                    |
| 356228                                     | Roller.....   |                            | (X)      | 128                      |          |                          |
| 970099                                     | All other materials and components, parts, containers, and supplies consumed.....                     |                            | (X)      | 94,883                   | (X)      | 187,119                  |
| 976000                                     | Materials, parts, containers, and supplies, n.s.k.....  |                            | (X)      | 622                      | (X)      | (X)                      |
| INDUSTRY 3519.—INTERNAL COMBUSTION ENGINES |   |                            |          |                          |          |                          |
|  | Materials, parts, containers, and supplies, total.....  |                            | (X)      | 694,115                  | (X)      | 507,924                  |
|  | Mill shapes and forms (except castings):  |                            |          |                          |          |                          |
|  | Carbon steel:   |                            |          |                          |          |                          |
| 331011                                     | Bars and bar shapes.....  | Short tons.....            | 32,598   | 6,771                    | 21,675   | 5,384                    |
| 331012                                     | Sheet and strip.....  | ..do.....                  | 42,349   | 9,256                    | 26,454   | 5,289                    |
| 331013                                     | Plates.....   | ..do.....                  | 15,045   | 2,235                    | 12,210   | 1,734                    |
| 331015                                     | Structural shapes.....  | ..do.....                  | 3,285    | 575                      | 878      | 142                      |
| 331017                                     | Wire and wire products.....   | ..do.....                  | 1,288    | 441                      | 6,242    | 2,425                    |
| 331019                                     | All other carbon steel mill shapes and forms.....   | ..do.....                  | 2,786    | 964                      |          |                          |
|  | Alloy steel (except stainless):   |                            |          |                          |          |                          |
| 331021                                     | Bars and bar shapes.....  | ..do.....                  | 9,679    | 2,873                    | 5,089    | 1,666                    |
| 331029                                     | All other alloy steel mill shapes and forms.....  | ..do.....                  | 1,920    | 810                      | 584      | 256                      |
| 331031                                     | Stainless steel mill shapes and forms.....  | ..do.....                  | 1,638    | 1,682                    | 1,244    | 1,243                    |
|  | Copper and copper-base alloy mill shapes and forms:   |                            |          |                          |          |                          |
| 335728                                     | Bare wire (for electrical conduction only).....   | 1,000 lbs.....             | 1,268    | 1,328                    | 572      | 517                      |
| 335790                                     | Insulated wire and cable.....   | 1,000 lbs. copper content. |          |                          |          |                          |
| 335102                                     | Rod, bar and mechanical wire, including extruded and/or drawn shapes.....                             | 1,000 lbs.....             | 479      | 319                      | 4,432    | 2,698                    |
| 335123                                     | Plate, sheet and strip, including military cups and discs.....  | ..do.....                  | 13,133   | 5,639                    |          |                          |
| 335127                                     | Pipe and tube.....  | ..do.....                  | 1,494    | 1,285                    |          |                          |
|  | Aluminum and aluminum-base alloy mill shapes and forms:   |                            |          |                          |          |                          |
| 335202                                     | Sheet, plate and foil.....  | ..do.....                  | (D)      | (D)                      | 1,647    | 970                      |
| 335205                                     | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                                       | ..do.....                  |          |                          |          |                          |
| 335209                                     | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                  |          |                          |          |                          |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure               | 1963      |                             | 1958      |                             |
|---|---|-------------------------------|-----------|-----------------------------|-----------|-----------------------------|
|   |   |                               | Quantity  | Delivered cost<br>(\$1,000) | Quantity  | Delivered cost<br>(\$1,000) |
| INDUSTRY 3519.—INTERNAL COMBUSTION ENGINES—Continued    |   |                               |           |                             |           |                             |
| 333401  | Primary metals - aluminum and aluminum-base alloy refinery shapes..                                   | Short tons.....               | (D)       | (D)                         | 9,646     | 4,377                       |
| 999808  | Aluminum and aluminum-base alloy scrap (excluding home scrap).....                                    | ...do.....                    | (D)       | (D)                         | 32,068    | 6,931                       |
| Castings (rough and semifinished): <sup>1</sup>         |   |                               |           |                             |           |                             |
| 332011  | Iron (gray and malleable).....  | ...do.....                    | 161,288   | 62,348                      | 182,712   | 65,431                      |
| 332300  | Steel.....  | ...do.....                    | 2,014     | 1,958                       | 1,683     | 1,331                       |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                | 34,340    | 24,383                      | 37,052    | 30,469                      |
| 336200  | Copper and copper-base alloy.....   | ...do.....                    | 1,123     | 803                         | 2,516     | 2,085                       |
| 339100  | Iron and steel forgings <sup>1</sup> .....  | Short tons.....               | 52,926    | 25,185                      | 35,537    | 16,127                      |
| 362120  | Integral horsepower motors and generators (1 horsepower and over) <sup>1</sup> .                      | Number.....                   | 78,229    | 15,124                      | 57,115    | 7,619                       |
| Bearings:   |   |                               |           |                             |           |                             |
| 356218  | Ball.....   | .....                         | (X)       | 3,268                       | (X)       | 3,892                       |
| 356228  | Roller.....   | .....                         | (X)       | 2,062                       |           |                             |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                     | .....                         | (X)       | 489,355                     | (X)       | 343,671                     |
| 976000  | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....                                 | .....                         | (X)       | 35,451                      | (X)       | 3,667                       |
| INDUSTRY 3522.—FARM MACHINERY AND EQUIPMENT             |   |                               |           |                             |           |                             |
| Materials, parts, containers, and supplies, total.....  |   |                               | (X)       | 1,426,108                   | (X)       | 1,183,592                   |
| Mill shapes and forms (except castings):                |   |                               |           |                             |           |                             |
| Carbon steel:   |   |                               |           |                             |           |                             |
| 331011  | Bars and bar shapes.....  | Short tons.....               | 551,790   | 87,412                      | 555,728   | 88,205                      |
| 331012  | Sheet and strip.....  | ...do.....                    | 705,426   | 104,148                     | 507,230   | 78,757                      |
| 331013  | Plates.....   | ...do.....                    | 111,960   | 16,842                      | 92,071    | 15,003                      |
| 331015  | Structural shapes.....  | ...do.....                    | 81,054    | 12,213                      | 60,882    | 9,348                       |
| 331017  | Wire and wire products.....   | ...do.....                    | 23,194    | 4,848                       | 18,077    | 4,087                       |
| 331019  | All other carbon steel mill shapes and forms.....   | ...do.....                    | 136,969   | 28,296                      | 105,867   | 22,626                      |
| Alloy steel (except stainless):                         |   |                               |           |                             |           |                             |
| 331021  | Bars and bar shapes.....  | ...do.....                    | 48,651    | 10,879                      | 47,740    | 10,610                      |
| 331029  | All other alloy steel mill shapes and forms.....  | ...do.....                    | 12,726    | 4,147                       | 17,646    | 4,471                       |
| 331031  | Stainless steel mill shapes and forms.....  | ...do.....                    | 2,827     | 4,222                       | 2,309     | 3,180                       |
| Copper and copper-base alloy mill shapes and forms:     |   |                               |           |                             |           |                             |
| 335728  | Bare wire (for electrical conduction).....  | 1,000 lbs.....                | 49        | 29                          | 40        | 33                          |
| 335790  | Insulated wire and cable.....   | 1,000 lbs.<br>copper content. | 538       | 485                         | 283       | 320                         |
| 335102  | Rod, bar and mechanical wire, excluding extruded and/or drawn shapes.....                             | 1,000 lbs.....                | 2,551     | 959                         | 3,979     | 2,160                       |
| 335123  | Plate, sheet and strip, including military cups and discs.....  | ...do.....                    | 543       | 323                         |           |                             |
| 335127  | Pipe and tube.....  | ...do.....                    | 13,655    | 4,101                       |           |                             |
| Aluminum and aluminum-base alloy mill shapes and forms: |   |                               |           |                             |           |                             |
| 335202  | Sheet, plate and foil.....  | ...do.....                    | 6,902     | 2,996                       | 5,383     | 2,625                       |
| 335205  | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                                       | ...do.....                    | (NA)      | 2,610                       |           |                             |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ...do.....                    | 4,041     | 1,794                       |           |                             |
| 331051  | Pig iron, excluding silvery iron.....   | Short tons.....               | 134,270   | 7,822                       | 171,619   | 11,106                      |
| 999811  | Iron and steel scrap.....   | ...do.....                    | 320,761   | 13,392                      | 217,967   | 9,384                       |
| Castings (rough and semifinished): <sup>1</sup>         |   |                               |           |                             |           |                             |
| 332011  | Iron (gray and malleable).....  | ...do.....                    | 212,497   | 64,659                      | 292,566   | 83,270                      |
| 332300  | Steel.....  | ...do.....                    | 11,705    | 7,264                       | 21,802    | 9,163                       |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                | 9,838     | 5,651                       | 6,705     | 4,274                       |
| 336200  | Copper and copper-base alloy.....   | ...do.....                    | 541       | 392                         | 2,003     | 1,192                       |
| 339100  | Iron and steel forgings <sup>1</sup> .....  | Short tons.....               | 89,594    | 35,449                      | 70,490    | 26,799                      |
| Engines: <sup>1</sup>                                   |   |                               |           |                             |           |                             |
| 351920  | Diesel and semidiesel.....  | Number.....                   | 58,185    | 28,094                      | 16,044    | 12,497                      |
| 351901  | Gasoline and other carburetor.....  | ...do.....                    | 3,243,659 | 108,896                     | 2,684,840 | 97,820                      |
| Electric motors and generators: <sup>1</sup>            |   |                               |           |                             |           |                             |
| 362115  | Fractional horsepower electric motors (under 1 horsepower) (excluding timing motors).....             | ...do.....                    | 117,623   | 2,366                       | 155,878   | 2,812                       |
| 362120  | Integral horsepower motors and generators (1 horsepower and over)                                     | ...do.....                    | 68,023    | 4,466                       | 30,035    | 3,474                       |
| Bearings:   |   |                               |           |                             |           |                             |
| 356218  | Ball.....   | .....                         | (X)       | 22,052                      | (X)       | 29,967                      |
| 356228  | Roller.....   | .....                         | (X)       | 16,300                      |           |                             |
| 301131  | Pneumatic tires.....  | Number.....                   | 2,511,809 | 47,887                      | 1,767,000 | 44,764                      |
| 301141  | Inner tubes.....  | ...do.....                    | 4,125,013 | 8,979                       | 1,286,000 | 4,780                       |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                     | .....                         | (X)       | 644,833                     | (X)       | 543,581                     |
| 976000  | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....                                 | .....                         | (X)       | 121,302                     | (X)       | 55,534                      |

Footnotes on next page.



TABLE 7A. **Materials by Kind: 1963 and 1958**—Continued

Footnotes for Table 7A-35A

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>In addition the following quantities were produced and consumed into products at the same establishment:

| Code   | Item  | Unit of measure | Industry 3511 | Industry 3519 | Industry 3522 |         |
|--------|---|-----------------|---------------|---------------|---------------|---------|
|        |   |                 | 1963          | 1963          | 1963          | 1958    |
|        | Castings (rough and semifinished):  |                 |               |               |               |         |
| 332011 | Iron (gray and malleable).....  | Short tons...   | (D)           | 38,183        | 301,285       | 320,136 |
| 332300 | Steel.....  | ...do.....      | -             | -             | (NA)          | (NA)    |
| 336100 | Aluminum and aluminum-base alloy.....   | 1,000 lbs....   | -             | (D)           | 2,362         | 1,044   |
| 336200 | Copper and copper-base alloy.....   | ...do.....      | 588           | -             | 240           | (NA)    |
| 339100 | Iron and steel forgings.....  | Short tons...   | 375           | -             | 5,136         | (NA)    |
|        | Engines:  |                 |               |               |               |         |
| 351920 | Diesel and semidiesel.....  | Number.....     | (NA)          | (NA)          | (D)           | (NA)    |
| 351901 | Gasoline and other carburetor.....  | ...do.....      | (NA)          | (NA)          | 75,721        | 194,898 |
|        | Electric motors and generators:   |                 |               |               |               |         |
| 362115 | Fractional horsepower electric motors<br>(under 1 horsepower) (excluding timing<br>motors)..... | ...do.....      | (NA)          | (NA)          | 2,009         | (NA)    |
| 362120 | Integral horsepower motors and generators<br>(1 horsepower and over).....                       | ...do.....      | -             | -             | (NA)          | (NA)    |

<sup>2</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Steam engines and turbines (SIC 3511) | Internal combustion engines (SIC 3519) | Farm machinery and equipment (SIC 3522) |
|---|---------------------------------------|--|---|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 9,714                                 | 9,677                                  | 23,100                                  |
| Total cost of purchased fuels.....do....  | 6,423                                 | 4,154                                  | 13,576                                  |
| Bituminous coal, lignite, and anthracite:   |                                       |  |   |
| Quantity.....1,000 short tons..   | 262                                   | 145                                    | 437                                     |
| Cost.....\$1,000..  | 2,307                                 | 1,134                                  | 2,985                                   |
| Coke and breeze:  |                                       |  |   |
| Quantity.....1,000 short tons..   | (S)                                   | 5                                      | 92                                      |
| Cost.....\$1,000..  | (S)                                   | 170                                    | 2,839                                   |
| Fuel oil (distillate and residual):   |                                       |  |   |
| Quantity.....1,000 barrels of 42 gallons..  | 1,050                                 | 292                                    | 316                                     |
| Cost.....\$1,000..  | 2,463                                 | 1,169                                  | 1,394                                   |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |                                       |  |   |
| Quantity.....million cu. ft..   | 1,009                                 | 2,337                                  | 10,871                                  |
| Cost.....\$1,000..  | 780                                   | 1,452                                  | 4,764                                   |
| Other fuels.....do....  | (S)                                   | 229                                    | 1,594                                   |
| Electric energy:  |                                       |  |   |
| Purchased:  |                                       |  |   |
| Quantity.....million kw.-hrs..  | 315                                   | 430                                    | 682                                     |
| Cost.....\$1,000..  | 3,291                                 | 5,523                                  | 9,524                                   |
| Generated less sold.....million kw.-hrs..   | 377                                   | 66                                     | 255                                     |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 374                                   | 363                                    | 669                                     |
| Prime movers, total.....do....  | 164                                   | 67                                     | 186                                     |
| Driving generators.....do....   | 127                                   | 36                                     | 104                                     |
| Not driving generators.....do....   | 37                                    | 31                                     | 82                                      |
| Electric motors, total.....do....   | 276                                   | 366                                    | 607                                     |
| Driven by purchased energy.....do....   | 209                                   | 296                                    | 483                                     |
| Driven by energy generated at establishment.....do....  | 67                                    | 70                                     | 124                                     |
| Aggregate horsepower per 100 production workers.....  | 1,772                                 | 912                                    | 867                                     |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.



**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3511-                          | STEAM ENGINES AND TURBINES  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 22                      | 30,917         | 237,519           | 19,894             | 38,933            | 141,738         | 379,875  | 242,730                     | 616,416                      | 19,394                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 75% and over.....   | 13                      | 22,627         | 174,587           | 14,754             | 28,418            | 106,496         | 296,616  | 185,246                     | 475,146                      | 14,623                              |
| 3519-                          | INTERNAL COMBUSTION ENGINES   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 143                     | 55,687         | 371,800           | 41,754             | 84,996            | 260,005         | 733,628  | 745,760                     | 1,473,574                    | 34,751                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...   | 104                     | 33,600         | 226,418           | 25,162             | 50,728            | 156,239         | 512,480  | 509,296                     | 1,022,221                    | 21,971                              |
|                                | 75-89% specialization.....  | 11                      | 2,441          | 15,911            | 1,895              | 3,779             | 11,462          | 21,849   | 34,781                      | 53,166                       | (D)                                 |
| 35191                          | Gasoline engines, except outboard, aircraft and automotive engines (primary product class of estab.)                    | 20                      | 11,246         | 70,465            | 8,952              | 17,399            | 51,993          | 127,386  | 155,555                     | 279,464                      | 4,772                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.....   | 7                       | 5,468          | 34,101            | 4,746              | 9,158             | 27,190          | 69,734   | 73,464                      | 141,544                      | 1,928                               |
| 35192                          | Diesel and semidiesel engines (primary product class of estab.)   | 15                      | 22,911         | 162,303           | 16,787             | 35,129            | 110,897         | 339,672  | 366,516                     | 702,098                      | 21,695                              |
| 35193                          | Gas engines (except gas turbines) (primary product class of estab.)   | 3                       | 742            | 4,250             | 549                | 1,104             | 2,934           | 9,660  | 6,725                       | 15,734                       | 273                                 |
| 35197                          | Parts and attachments for internal combustion engines (primary product class of estab.)                                 | 47                      | 13,471         | 85,841            | 10,310             | 21,052            | 61,207          | 166,479  | 104,685                     | 264,842                      | 6,525                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.....   | 27                      | 3,790          | 26,506            | 2,809              | 5,984             | 18,107          | 67,882   | 30,574                      | 98,097                       | 2,977                               |
|                                | 75-89% specialization.....  | 8                       | 1,636          | 9,412             | 1,383              | 2,677             | 7,365           | 19,131   | 22,696                      | 39,619                       | 1,193                               |
| 3522-                          | FARM MACHINERY AND EQUIPMENT  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 1,568                   | 112,614        | 689,122           | 84,650             | 168,911           | 476,827         | 1,328,381                                      | 1,536,761                   | 2,842,243                    | 64,431                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...   | 1,374                   | 76,144         | 464,723           | 57,228             | 114,142           | 318,741         | 955,340  | 1,063,603                   | 2,001,836                    | 41,785                              |
|                                | 75-89% specialization.....  | 69                      | 14,456         | 88,842            | 10,588             | 21,391            | 60,953          | 143,368  | 174,640                     | 316,290                      | 6,021                               |
| 35222                          | Wheel tractors and parts and attachments (except garden and contractors' off-highway) (primary product class of estab.) | 38                      | 32,399         | 220,154           | 25,053             | 48,876            | 162,884         | 412,911  | 501,859                     | 910,365                      | 25,956                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.....   | 19                      | 18,022         | 124,749           | 13,870             | 26,712            | 91,256          | 236,115  | 250,702                     | 484,031                      | 16,780                              |
| 35223                          | Planting, seeding and fertilizing machinery and parts (primary product class of estab.)                                 | 62                      | 5,880          | 35,255            | 4,450              | 8,911             | 23,465          | 69,148   | 61,230                      | 130,196                      | 1,789                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.....   | 33                      | 1,091          | 4,849             | 875                | 1,861             | 3,420           | 9,068  | 11,266                      | 20,142                       | 442                                 |
| 35224                          | Flows, listers, harrows, rollers, pulverizers, and stalk cutters and parts (primary product class of estab.)            | 84                      | 10,445         | 63,130            | 7,691              | 15,113            | 42,233          | 122,858  | 122,929                     | 238,928                      | 4,843                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.....   | 44                      | 2,780          | 16,010            | 2,061              | 4,113             | 10,294          | 36,586   | 34,552                      | 68,602                       | 796                                 |
|                                | 75-89% specialization.....  | 13                      | 1,538          | 9,522             | 1,150              | 2,268             | 6,640           | 17,042   | 19,340                      | 35,311                       | 334                                 |
| 35225                          | Harvesting machinery and parts (primary product class of estab.)  | 82                      | 23,697         | 151,775           | 17,819             | 35,032            | 106,735         | 277,355  | 282,930                     | 557,757                      | 10,402                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.....   | 42                      | 4,116          | 24,144            | 2,893              | 6,404             | 16,991          | 45,799   | 57,652                      | 103,913                      | 2,169                               |
| 35226                          | Haying machinery and parts (primary product class of estab.)  | 25                      | 3,850          | 26,867            | 2,576              | 5,506             | 15,844          | 50,512   | 48,684                      | 98,334                       | 1,340                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 75% and over.....   | 17                      | 3,187          | 22,960            | 2,046              | 4,321             | 12,954          | 40,767   | 39,008                      | 79,558                       | 842                                 |

See footnotes at end of table.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization                        | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|---|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |   |                             |                              |                                     |
| 3522-                          | FARM MACHINERY AND EQUIPMENT.—Continued                                       |                         |                |                   |                    |                   |                 |   |                             |                              |                                     |
| 35227                          | Lawn mowers and parts (primary product class of estab.).....                  | 126                     | 10,168         | 53,281            | 7,885              | 15,792            | 37,148          | 103,979                                       | 205,451                     | 308,249                      | 4,283                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |   |                             |                              |                                     |
|                                | 90% or more specialization....  | 93                      | 3,925          | 18,307            | 3,050              | 5,897             | 12,321          | 45,921  | 90,992                      | 141,893                      | 1,475                               |
|                                | 75-89% specialization.....  | 11                      | 1,619          | 9,058             | 1,067              | 2,020             | 5,051           | 13,504  | 17,335                      | 28,953                       | 833                                 |
| 35228                          | All other farm machinery and equipment (primary product class of estab.)..... | 427                     | 21,680         | 119,238           | 15,617             | 32,431            | 74,210          | 251,878                                       | 273,889                     | 519,129                      | 9,964                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |   |                             |                              |                                     |
|                                | 90% or more specialization....  | 305                     | 10,971         | 57,974            | 8,170              | 17,121            | 36,202          | 136,292                                       | 136,831                     | 260,525                      | 5,357                               |
|                                | 75-89% specialization.....  | 43                      | 2,580          | 15,495            | 1,777              | 3,778             | 8,683           | 32,896  | 38,346                      | 70,102                       | 1,278                               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available (X) Not applicable.



TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations  | Number of establishments |   |         |            | Employment in the specified operation |   |         |            | Man-hours worked by production workers in the specified operation (1,000) |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|---|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>2</sup> |         |            |   |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |   |
| INDUSTRY 3511.—STEAM ENGINES AND TURBINES  |                          |   |         |            |                                       |   |         |            |   |
| TOTAL, ALL OPERATIONS.....   | 20                       | (NA)                                      | (NA)    | (NA)       | 18,869                                | (NA)                                      | (NA)    | (NA)       | 33,669  |
| Ferrous foundry.....   | 1                        | -   | 1       | -          | (D)                                   | -   | (D)     | -          | 15  |
| Nonferrous foundry (except die casting).....   | 2                        | -   | 1       | 1          | (D)                                   | -   | (D)     | (D)        | 36  |
| Nonferrous die casting.....  | -                        | -   | -       | -          | -                                     | -   | -       | -          | -   |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 3                        | -   | -       | 3          | 150                                   | -   | -       | 150        | 283   |
| Electroplating and other plating.....  | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          | 2   |
| Heat treating of metals.....   | 11                       | 3   | 5       | 3          | 127                                   | 7   | 49      | 71         | 205   |
| Automatic screw machine department.....  | 4                        | -   | -       | 4          | 342                                   | -   | -       | 342        | 715   |
| Machine shop.....  | 20                       | -   | 2       | 18         | 8,366                                 | -   | (D)     | (D)        | 14,171  |
| Tool and die shop.....   | 14                       | 2   | 3       | 9          | 775                                   | (D)                                       | (D)     | 740        | 1,474   |
| Foundry pattern shop.....  | 5                        | 3   | 1       | 1          | 63                                    | (D)                                       | (D)     | (D)        | 114   |
| Plate or structural fabrication.....   | 10                       | -   | 2       | 8          | 2,138                                 | -   | (D)     | (D)        | 3,471   |
| Stamping, blanking and forming of metals.....  | 4                        | -   | 1       | 3          | 207                                   | -   | (D)     | (D)        | 425   |
| Painting, lacquering and enameling of metals.....  | 14                       | 8   | 4       | 2          | 99                                    | 13  | (D)     | (D)        | 164   |
| Assembly of product.....   | 16                       | 1   | 2       | 13         | 2,605                                 | (D)                                       | (D)     | 2,586      | 4,994   |
| Shipping department, including packing and crating.....                                  | 16                       | 5   | 7       | 4          | 297                                   | 11  | 75      | 211        | 574   |
| All other operations such as maintenance, warehousing, etc.....                          | 16                       | 2   | 2       | 12         | 3,560                                 | (D)                                       | (D)     | 3,529      | 7,026   |
| INDUSTRY 3519.—INTERNAL COMBUSTION ENGINES   |                          |   |         |            |                                       |   |         |            |   |
| TOTAL, ALL OPERATIONS.....   | 95                       | (NA)                                      | (NA)    | (NA)       | 38,107                                | (NA)                                      | (NA)    | (NA)       | 78,255  |
| Ferrous foundry.....   | 10                       | -   | -       | 10         | 834                                   | -   | -       | 834        | 1,933   |
| Nonferrous foundry (except die casting).....   | 5                        | 2   | 1       | 2          | 121                                   | (D)                                       | (D)     | (D)        | (D)   |
| Nonferrous die casting.....  | 5                        | 1   | 1       | 3          | 638                                   | (D)                                       | (D)     | (D)        | 1,326   |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          | (D)   |
| Electroplating and other plating.....  | 15                       | 5   | 7       | 3          | 172                                   | 12  | 66      | 94         | 326   |
| Heat treating of metals.....   | 28                       | 9   | 12      | 7          | 408                                   | 17  | 132     | 259        | 705   |
| Automatic screw machine department.....  | 21                       | 7   | 3       | 11         | 768                                   | 9   | 24      | 735        | 1,494   |
| Machine shop.....  | 74                       | 11  | 13      | 50         | 13,376                                | 21  | 157     | 13,198     | 28,775  |
| Tool and die shop.....   | 43                       | 10  | 16      | 17         | 1,237                                 | 23  | 137     | 1,077      | 2,381   |
| Foundry pattern shop.....  | 9                        | 5   | 3       | 1          | 75                                    | 8   | (D)     | (D)        | 166   |
| Plate or structural fabrication.....   | 16                       | 5   | 3       | 8          | 665                                   | 10  | 26      | 629        | 1,382   |
| Stamping, blanking and forming of metals.....  | 28                       | 7   | 8       | 13         | 1,061                                 | 11  | 105     | 945        | 2,132   |
| Painting, lacquering and enameling on metals.....  | 53                       | 26  | 21      | 6          | 438                                   | 36  | 188     | 214        | 953   |
| Assembly of product.....   | 66                       | 12  | 12      | 42         | 7,065                                 | 19  | 164     | 6,882      | 14,226  |
| Shipping department, including packing and crating.....                                  | 65                       | 25  | 20      | 20         | 1,973                                 | 42  | 185     | 1,746      | 3,615   |
| All other operations such as maintenance, warehousing, etc.....                          | 45                       | 8   | 4       | 33         | 9,275                                 | 14  | 52      | 9,209      | 18,601  |
| INDUSTRY 3522.—FARM MACHINERY AND EQUIPMENT  |                          |   |         |            |                                       |   |         |            |   |
| Ferrous foundry.....   | 42                       | 6   | 13      | 23         | 5,145                                 | 8   | 152     | 4,985      |   |
| Nonferrous foundry (except die casting).....   | 23                       | 10  | 11      | 2          | 293                                   | 24  | (D)     | (D)        |   |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 80                       | 37  | 24      | 19         | 1,391                                 | 73  | 239     | 1,079      |   |
| Heat treating of metals.....   | 136                      | 96  | 25      | 15         | 1,098                                 | 162                                       | 250     | 686        |   |
| Automatic screw machine department.....  | 66                       | 43  | 16      | 6          | 626                                   | 71  | 165     | 390        |   |
| Machine shop.....  | 487                      | 246                                       | 154     | 87         | 12,836                                | 462                                       | 1,547   | 10,827     |   |
| Tool and die shop.....   | 216                      | 122                                       | 61      | 33         | 2,631                                 | 218                                       | 556     | 1,857      |   |
| Foundry pattern shop.....  | 47                       | 32  | 10      | 5          | 331                                   | 45  | 119     | 167        |   |

See footnotes at end of table.

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963—Continued

| Metalworking operations                               | Number of establishments |   |         | Employment in the specified operation |        |   |         |            |
|---|--------------------------|---|---------|---------------------------------------|--------|---|---------|------------|
|   | Total                    | Number of production workers <sup>1</sup> |         |                                       | Total  | Number of production workers <sup>1</sup> |         |            |
|   |                          | 1 to 4                                    | 5 to 19 | 20 or more                            |        | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3522.—FARM MACHINERY AND EQUIPMENT—Continued |                          |   |         |                                       |        |   |         |            |
| Plate or structural fabrication.....                  | 263                      | 113                                       | 110     | 40                                    | 2,741  | 225                                       | 1,049   | 1,467      |
| Stamping, blanking and forming of metals.....         | 437                      | 204                                       | 158     | 75                                    | 6,484  | 375                                       | 1,545   | 4,564      |
| Painting, lacquering and enameling on metals.....     | 546                      | 437                                       | 81      | 28                                    | 2,472  | 685                                       | 762     | 1,025      |
| Assembly of product.....                              | 545                      | 216                                       | 184     | 145                                   | 15,696 | 394                                       | 1,707   | 13,595     |
| Shipping department, including packing and crating... | 538                      | 388                                       | 112     | 38                                    | 3,822  | 695                                       | 968     | 2,159      |

Note: Very small establishments were not requested to report their metalworking operations and, in some instances, a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production-worker employment on the last line of the table below:

| Item  | Industry |        |       |
|---|----------|--------|-------|
|   | 3511     | 3519   | 3522  |
| Total number of establishments in the industry.....   | 22       | 143    | 1,568 |
| Number of establishments which reported one or more of the specified operations.....                              | 20       | 95     | 711   |
| Percent of industry production workers in these establishments.....   | 90-95    | 90-95  | 85-90 |
| Number of establishments which reported "none" of the operations apply.....                                       | 1        | 2      | 23    |
| Percent of industry production workers in these establishments.....   | 0-5      | 0-5    | 0-5   |
| Percent of industry production workers in establishments which completed the metalworking operations inquiry..... | 95-100   | 95-100 | 90-95 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishment.



## CONSTRUCTION, MINING AND MATERIALS HANDLING MACHINERY AND EQUIPMENT

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3531—Construction Machinery and Equipment
- 3532—Mining Machinery and Equipment, Except Oil Field Machinery and Equipment
- 3533—Oil Field Machinery and Equipment
- 3534—Elevators and Moving Stairways
- 3535—Conveyors and Conveying Equipment
- 3536—Hoists, Industrial Cranes, and Monorail Systems
- 3537—Industrial Trucks, Tractors, Trailers, and Stackers

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3531—CONSTRUCTION MACHINERY AND EQUIPMENT

This industry comprises establishments primarily engaged in manufacturing heavy machinery and equipment used by the construction industries, such as bulldozers; concrete mixers; cranes, except industrial plant; dredging machinery; pavers, and power shovels. Establishments primarily engaged in manufacturing mining equipment are classified in industry 3532, and well drilling machinery in industry 3533. For a detailed list of products of industry 3531, refer to table 6A, product codes 3531103 to 3531998.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Construction Machinery Industry totaled \$2,696 million. This amount included shipments of construction machinery (primary products) valued at \$2,332 million, shipments of other products (secondary products) valued at \$229 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$134 million.

This industry's shipments of construction machinery represented 91 percent of its total product shipments. The industry specialization ratio in 1958 was 89 percent. Secondary products shipped by this industry in 1963 include farm machinery and equipment (\$20 million) and motor vehicles and parts (\$15 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 21 percent of the total industry shipments are represented by plants specializing in scrapers, graders, rollers, and off-highway trucks, trailers, and wagons, excluding parts; and 20 percent in power cranes, draglines, shovels, and parts.

Shipments of construction machinery by this industry represented 89 percent of all shipments of these products (\$2,624 million) by all industries. In 1958 the coverage ratio was 90 percent.

The plants included in industry 3531 are, for the most part, typical of the heavy equipment industries. Their primary operations involve the fabricating of heavy materials (steel bars, plates and structural shapes) and the assembly of the complete machinery and equipment. Because of the wide range of construction equipment included within this industry, significantly different types of plants are involved. Those plants with a product line limited to the production of equipment for mounting on tractors or to the manufacture of draglines, buckets, and repair parts for construction machinery, etc., differ in at least one important respect from those plants producing complete machines, such as power cranes and shovels, motor graders, concrete mixers, pavers, and asphalt plants. In the first instance the operations are confined mostly to fabricating with only limited assembly operations being involved. The plants producing complete machines, however, involve extensive assembly operations in addition to such primary production activities as foundry, forging, and plate and structural fabricating operations.

An indication of the types of metalworking operations performed by all establishments classified in industry 3531 is shown in table 9. This table presents data on the number of plants performing selected metalworking operations and the approximate size of these operations based on employment.

#### 3532—MINING MACHINERY AND EQUIPMENT, EXCEPT OIL FIELD MACHINERY AND EQUIPMENT

This industry comprises establishments primarily engaged in manufacturing heavy machinery and equipment used by the mining industries, such as coal breakers, mine cars, mineral cleaning machinery, concentration machinery, core drills, coal cutters, portable rock drills, and rock crushing machinery. Establishments primarily engaged in manufacturing construction machinery are classified in industry 3531, well drilling machinery in industry 3533, and coal and ore conveyors in industry 3535. For a detailed list of products of industry 3532, refer to table 6A, product codes 3532113 to 3532475.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Mining Machinery and Equipment Industry totaled \$418 million. This amount included shipments of mining machinery (primary products) valued at \$274 million, shipments of other products (secondary products) valued at \$92 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$51 million.

This industry's shipments of mining machinery represented 75 percent of its total product shipments. The industry specialization ratio in 1958 was 72 percent. Secondary products shipped by this industry in 1963 include conveyors and conveying equipment (\$6 million), and hoists (\$3 million).



While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 43 percent of total industry shipments are represented by plants specializing in parts and attachments for mining machinery, and 29 percent in underground mining machinery.

Shipments of mining machinery and equipment by this industry represented 82 percent of all shipments of these products (\$336 million) by all industries. In 1958 the coverage ratio was 78 percent. Industry 3545, Machine Tool Accessories, shipped \$8 million of mining machinery and equipment.

### 3533—OIL FIELD MACHINERY AND EQUIPMENT

This industry comprises establishments primarily engaged in manufacturing machinery and equipment for use in oil and gas fields, or for drilling water wells. For a detailed list of products of industry 3533, refer to table 6A, product codes 3533111 to 3533431.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Oil Field Machinery Industry totaled \$667 million. This amount included shipments of oil field machinery (primary products) valued at \$519 million, shipments of other products (secondary products) valued at \$59 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$88 million.

This industry's shipments of oil field machinery represented 90 percent of its total product shipments. The industry specialization ratio in 1958 was 92 percent. Secondary products shipped by this industry in 1963 include pumps and compressors (\$11 million) and construction machinery (\$5 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 48 percent of the total industry shipments are represented by plants specializing in oil and gas field production machinery, and 37 percent in rotary oil and gas field drilling machines.

Shipments of oil field machinery by this industry represented 91 percent of all shipments of these products (\$573 million) by all industries. In 1958 the coverage ratio was 94 percent.

It should be noted that industry 3533 includes only manufacturing plants engaged in the production of oil field machinery and equipment. Establishments primarily engaged in exploration, drilling, and well operation and maintenance are covered in the 1963 Census of Mineral Industries. In those instances where manufacturing plants were operated by companies primarily engaged in such nonmanufacturing activities as servicing and supplying the petroleum industry, separate establishment reports were obtained covering their manufacturing activities and such activities are included in industry 3533.

As shown in table 2, the plants classified in this industry are concentrated in or near the petroleum producing areas. Of the 408 plants classified in this industry, 315 plants are located in Texas, California, and Oklahoma.

### 3534—ELEVATORS AND MOVING STAIRWAYS

This industry comprises establishments primarily engaged in manufacturing passenger or freight elevators, automobile lifts, dumb waiters, and moving stairways. Establishments primarily engaged in manufacturing commercial conveyors systems and equipment are classified in industry 3535, and farm elevators in industry 3522. For a detailed list of products of industry 3534, refer to table 6A, product codes 3534011 to 3534097.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Some establishments classified in industry 3534 installed elevators and escalators which they produced in 1963. When the product was installed or erected by the regular labor force operating out of the manufacturing plant, the employment and payroll as well as the receipts for installation services are included in the statistics. However, if this equipment was installed or erected by a labor force separate from the regular force attached to the manufacturing plant, the installation costs and the income from installation were excluded from the report. The data in such instances include the engineering and supervising personnel on the regular plant payroll who were engaged in installing or testing the products. Where the installation was performed by a separate company, even though the services of that separate company may have been contracted for by the manufacturing plant, the installation costs and the receipts for installation were excluded from the report of the manufacturing plant.

Value of shipments and other receipts of the Elevators and Moving Stairways Industry totaled \$319 million. This amount included shipments of elevators and moving stairways (primary products) valued at \$235 million, shipments of other products (secondary products) valued at \$8 million, and miscellaneous receipts (mainly receipts for installation) at \$75 million.

This industry's shipments of elevators and moving stairways represented 97 percent of its total product shipments. The industry specialization ratio in 1958 was also 97 percent.

Shipments of elevators and moving stairways by this industry represented 95 percent of all shipments of these products (\$248 million) by all industries. In 1958 the coverage ratio was 80 percent.

The production index for the primary products of the industry increased to 173 in 1963 from the 1958 level of 109. The unit value index for 1963 was 111 compared to 118 in 1958. Both indexes were computed on a basis of 1954 = 100.

### 3535—CONVEYORS AND CONVEYING EQUIPMENT

This industry comprises establishments primarily engaged in manufacturing conveyors and conveying equipment for installation in factories, warehouses, mines, and other industrial and commercial establishments. Establishments primarily engaged in manufacturing passenger or freight elevators, dumb waiters, and moving stairways are classified in industry 3534, and overhead traveling cranes and monorail systems in industry 3536. For a detailed list of products of industry 3535, refer to table 6A, product codes 3535111 to 3535211.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Some establishments classified in industry 3535, installed conveyors and conveying equipment they produced in 1963. The procedure described above for industry 3534



concerning the reporting of installation employees and receipts was also followed for establishments producing conveyors and conveying equipment.

Value of shipments and other receipts of the Conveyors Industry totaled \$495 million. This amount included shipments of conveyors (primary products) valued at \$342 million, shipments of other products (secondary products) valued at \$78 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$74 million.

This industry's shipments of conveyors represented 82 percent of its total product shipments. The industry specialization ratio in 1958 was 81 percent. Secondary products shipped by this industry in 1963 include general industry machinery, n.e.c. (\$6 million), and special industry machinery (\$5 million).

Shipments of conveyors by this industry represented 83 percent of all shipments of these products (\$415 million) by all industries. In 1958 the coverage ratio was 78 percent. Other industries shipping conveyors include industry 3566, Power Transmission Equipment, \$17 million, and industry 3531, Construction Machinery, \$8 million.

### 3536—HOISTS, INDUSTRIAL CRANES, AND MONORAIL SYSTEMS

This industry comprises establishments primarily engaged in manufacturing overhead traveling cranes, hoists, and monorail systems for installation in factories, warehouses, and other industrial and commercial establishments. For a detailed list of products of industry 3536, refer to table 6A, product codes 3536112 to 3536255.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Some establishments classified in industry 3536 installed hoists, cranes, and monorail systems they produced in 1963. The procedure described above for industry 3534 concerning the reporting of installation employees and receipts was also followed for establishments producing hoists, cranes, and monorail systems.

Value of shipments and other receipts of the Hoists, Cranes, and Monorails Industry totaled \$220 million. This amount included shipments of hoists, cranes, and monorail systems (primary products) valued at \$157 million, shipments of other products (secondary products) valued at \$40 million, and miscellaneous receipts (mainly receipts for repair work) at \$23 million.

This industry's shipments of hoists, cranes, and monorail systems represented 80 percent of its total product shipments. The industry specialization ratio in 1958 was 79 percent. Secondary products shipped by this industry in 1963 include construction machinery (\$7 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 64 percent of the total industry shipments are represented by plants specializing in overhead traveling cranes and monorail systems, and 35 percent in hoists.

Shipments of hoists, cranes, and monorail systems by this industry represented 70 percent of all shipments of these products (\$224 million) by all industries. In 1958 the coverage ratio was 78 percent. Industry 3531, Construction Machinery, accounted for \$12 million of shipments of hoists.

The production index for the primary products of the industry increased to 142 in 1963 from the 1958 level of 84. The unit value index for 1963 was 97 compared to 124 in 1958. Both indexes were computed on a basis of 1954 = 100.

### 3537—INDUSTRIAL TRUCKS, TRACTORS, TRAILERS, AND STACKERS

This industry comprises establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, stackers (truck type), and related equipment, used for handling materials on floors and paved surfaces in and around industrial and commercial plants, depots, docks, and terminals. Establishments primarily engaged in manufacturing motor vehicles and motor vehicle type trailers are classified in Group 371; farm type wheel tractors in industry 3522; wheel tractor shovel loaders, tracklaying tractors in industry 3531; and wood pallets and skids in industry 2499. For a detailed list of products of industry 3537, refer to table 6A, product codes 3537011 to 3537081.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Industrial Trucks and Tractors Industry totaled \$447 million. This amount included shipments of industrial trucks and tractors (primary products) valued at \$370 million, shipments of other products (secondary products) valued at \$43 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$33 million.

This industry's shipments of industrial trucks and tractors represented 90 percent of its total product shipments. The industry specialization ratio in 1958 was 93 percent. Secondary products shipped by this industry in 1963 include "other hardware" (\$6 million).

Shipments of industrial trucks and tractors by this industry represented 81 percent of all shipments of these products (\$459 million) by all industries. In 1958 the coverage ratio was 84 percent. Other industries shipping industrial trucks and tractors include industry 3717, Motor Vehicles and Parts, \$26 million, and industry 3531, Construction Machinery, \$8 million.



# CONSTRUCTION AND LIKE EQUIPMENT: SIC 353

Value Added by Manufacture by State: 1963

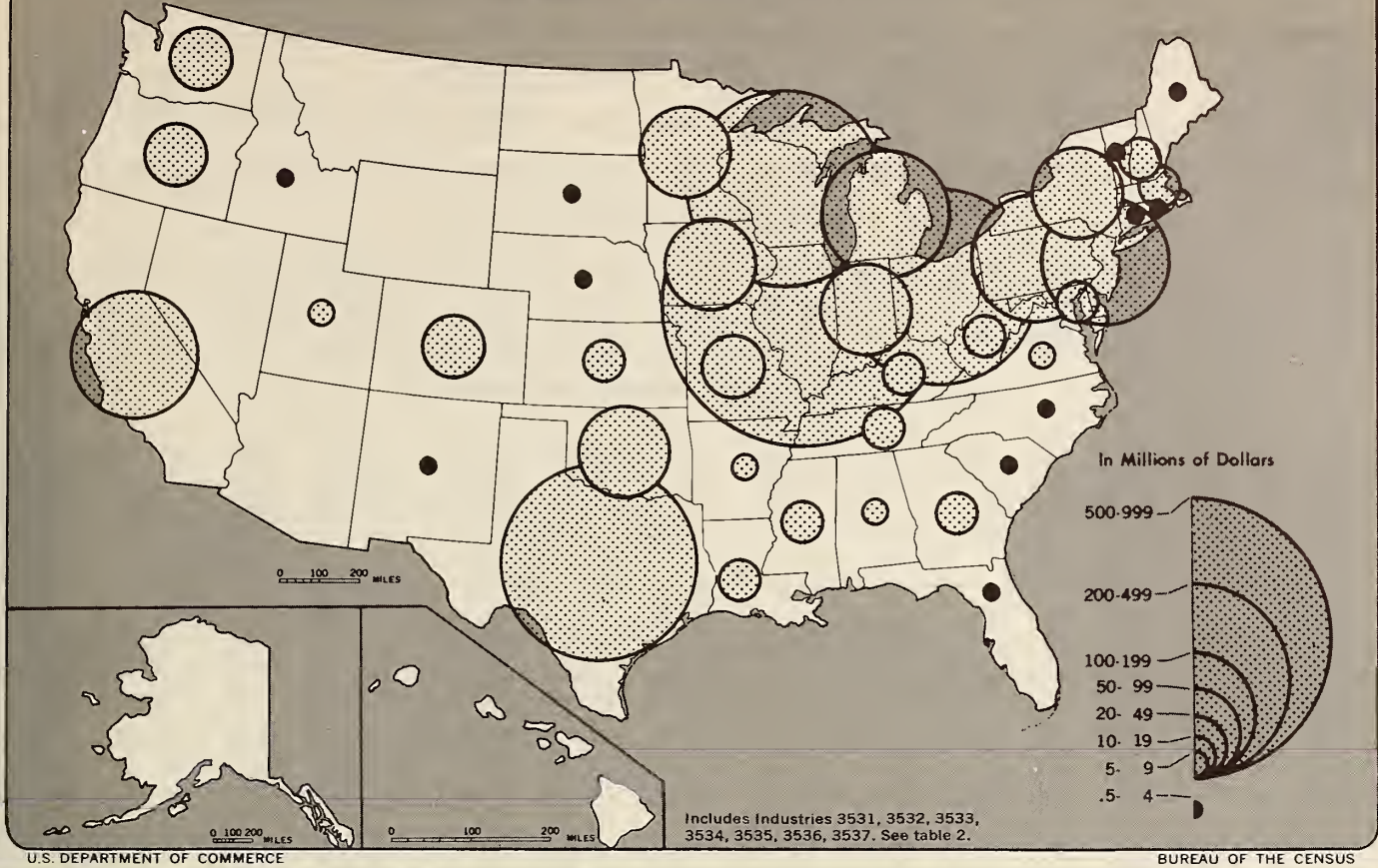


TABLE 1. General Statistics: 1963 and Earlier Years

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3531.—CONSTRUCTION MACHINERY         |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 561                        | 617               | 305  | 104,520           | 683,728              | 76,526             | 155,267              | 462,411            | 1,301,266  | 1,403,162                         | 2,696,039                          | 56,227  | 91  | 89                                       |
| 1962 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 98,996            | 631,091              | 71,317             | 142,334              | 416,760            | 1,142,868  | 1,284,264                         | 2,369,864                          | 49,835  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 94,954            | 570,135              | 67,169             | 131,360              | 366,198            | 972,120  | 1,153,990                         | 2,150,450                          | 41,384  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 111,713           | 636,645              | 78,067             | 152,464              | 412,615            | 930,715  | 1,287,214                         | 2,254,164                          | 71,317  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 112,809           | 654,886              | 81,240             | 166,059              | 435,200            | 1,179,894  | 1,395,952                         | 2,517,379                          | 66,108  | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                       | 532                        | 579               | 295  | 95,304            | 496,751              | 66,510             | 124,622              | 310,252            | 1,022,801  | 1,033,605                         | 2,107,352                          | 45,377  | 88  | 90                                       |
| INDUSTRY 3532.—MINING MACHINERY AND EQUIPMENT |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 198                        | 204               | 93   | 16,910            | 109,531              | 11,814             | 23,289               | 67,669             | 215,406  | 203,786                           | 417,616                            | 6,847   | 75  | 82                                       |
| 1962 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 19,087            | 120,847              | 11,853             | 24,015               | 66,989             | 205,689  | 194,840                           | 402,425                            | 6,515   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 19,818            | 122,015              | 12,328             | 25,116               | 65,774             | 220,305  | 202,580                           | 427,479                            | 7,411   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 19,584            | 115,494              | 12,846             | 25,294               | 65,927             | 209,660  | 193,835                           | 406,946                            | (6,286)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 18,103            | 104,298              | 12,025             | 23,720               | 61,322             | 204,572  | 189,668                           | 399,549                            | 6,017   | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                       | 167                        | 173               | 90   | 17,808            | 96,966               | 11,661             | 22,578               | 56,423             | 165,831  | 167,142                           | 342,035                            | 6,507   | 72  | 77                                       |
| INDUSTRY 3533.—OIL FIELD MACHINERY            |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 373                        | 408               | 176  | 29,203            | 184,288              | 20,114             | 41,409               | 113,526            | 398,152  | 264,350                           | 666,532                            | 11,321  | 90  | 91                                       |
| 1962 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 28,454            | 179,287              | 18,591             | 41,034               | 106,351            | 381,660  | 242,222                           | 625,265                            | (17,556)  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 27,237            | 169,223              | 17,708             | 38,526               | 98,023             | 352,644  | 224,246                           | 587,450                            | (12,849)  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 31,157            | 187,416              | 20,147             | 43,086               | 108,295            | 369,962  | 249,102                           | 615,108                            | 16,071  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 33,042            | 194,534              | 21,934             | 45,875               | 114,307            | 400,068  | 271,706                           | 654,086                            | 20,203  | (NA)  | (NA)                                     |
| 1958.....                                     | 351                        | 389               | 168  | 31,878            | 174,692              | 20,724             | 41,215               | 101,916            | 336,788  | 241,854                           | 585,268                            | 18,341  | 92  | 94                                       |
| 1957 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 42,019            | 225,817              | 29,912             | 60,718               | 140,129            | 433,828  | 364,033                           | 759,708                            | (S)   | 90  | 95                                       |
| 1956 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 42,854            | 224,544              | 31,269             | 65,600               | 143,237            | 464,941  | 379,115                           | 801,114                            | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 39,145            | 196,149              | 28,438             | 60,518               | 125,503            | 420,052  | 326,809                           | 700,678                            | (S)   | (NA)  | (NA)                                     |
| 1954.....                                     | 319                        | 345               | 158  | 33,687            | 161,802              | 24,143             | 49,577               | 102,320            | 327,509  | 217,378                           | 542,500                            | 18,188  | 89  | 93                                       |
| 1953 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 34,721            | 161,872              | 24,962             | 52,989               | 105,414            | 306,079  | 202,690                           | 508,769                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 35,847            | 162,191              | 26,162             | 57,247               | 108,200            | 314,190  | 220,857                           | 535,047                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 32,525            | 138,408              | 23,449             | 52,905               | 91,913             | 286,665  | 190,934                           | 477,599                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 26,677            | 101,737              | 19,510             | 41,201               | 67,023             | 204,827  | 135,446                           | 340,273                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 25,580            | 93,559               | 19,364             | 38,745               | 61,046             | 168,934  | 121,121                           | 290,055                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                     | 204                        | 230               | 133  | 29,177            | 91,532               | 22,709             | 47,510               | 65,083             | 171,265  | 117,588                           | 288,853                            | 11,295  | 88  | 91                                       |
| 1939 <sup>2</sup> .....                       | (NA)                       | 239               | (NA)   | (NA)              | (NA)                 | 12,642             | (NA)                 | 18,940             | 58,101   | 31,451                            | 89,552                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3534.—ELEVATORS AND MOVING STAIRWAYS |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 126                        | 142               | 74   | 12,393            | 88,389               | 7,427              | 15,458               | 49,634             | 201,527  | 114,684                           | 318,616                            | 3,315   | 97  | 95                                       |
| 1962 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | (9,491)           | (72,165)             | (5,486)            | (11,550)             | (38,798)           | (195,872)  | (111,499)                         | (312,550)                          | (1,568)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | (9,784)           | (67,019)             | (5,477)            | (11,451)             | (35,997)           | (179,523)  | (88,634)                          | (265,056)                          | (2,782)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 8,909             | 59,745               | 5,311              | 10,469               | 31,751             | 149,732  | 83,580                            | 235,405                            | 1,319   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 9,323             | 55,893               | 5,542              | 11,723               | 31,579             | 135,225  | 80,510                            | 216,778                            | (1,137)   | (NA)  | (NA)                                     |
| 1958.....                                     | 135                        | 144               | 76   | 9,626             | 55,657               | 5,868              | 11,764               | 31,156             | 126,270  | 71,106                            | 192,806                            | 2,321   | 97  | 80                                       |
| 1957 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 12,020            | 65,479               | 7,368              | 14,991               | 37,182             | 143,018  | 79,797                            | 229,871                            | 8,442   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 11,176            | 61,862               | 7,262              | 15,500               | 36,231             | 131,907  | 75,330                            | 185,002                            | 4,644   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 9,537             | 46,389               | 6,393              | 13,067               | 29,376             | 102,895  | 53,051                            | 157,398                            | 1,639   | (NA)  | (NA)                                     |
| 1954.....                                     | 127                        | 131               | 66   | 10,257            | 49,518               | 7,017              | 14,164               | 31,766             | 99,763   | 64,603                            | 167,494                            | 1,429   | 87  | 89                                       |
| 1953 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,198            | 47,828               | 6,664              | 14,018               | 30,683             | 82,940   | 60,965                            | 143,905                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 11,985            | 53,179               | 8,015              | 16,762               | 33,976             | 79,876   | 71,546                            | 151,422                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 11,141            | 47,252               | 7,671              | 16,298               | 30,559             | 70,390   | 62,409                            | 132,799                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                     | 108                        | 111               | 62   | 10,227            | 33,998               | 7,317              | 15,331               | 22,890             | 68,614   | 33,201                            | 101,815                            | 1,855   | 92  | 91                                       |
| 1939 <sup>2</sup> .....                       | (NA)                       | 101               | (NA)   | (NA)              | (NA)                 | 3,591              | (NA)                 | 5,111              | 16,945   | 9,871                             | 26,816                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3535.—CONVEYORS                      |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 428                        | 454               | 175  | 20,778            | 140,617              | 12,642             | 26,312               | 74,020             | 270,475  | 231,080                           | 494,632                            | 6,125   | 82  | 83                                       |
| 1962 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 21,227            | 137,017              | 12,704             | 25,208               | 70,939             | 249,154  | 215,808                           | 460,279                            | 9,060   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 19,851            | 121,393              | 11,498             | 23,688               | 61,427             | 215,282  | 181,905                           | 399,789                            | (6,116)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 21,490            | 132,507              | 12,568             | 26,501               | 69,237             | 239,983  | 203,949                           | 439,728                            | 5,981   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 21,436            | 129,558              | 13,043             | 26,138               | 67,658             | 229,379  | 198,528                           | 425,397                            | 4,524   | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                       | 401                        | 420               | 150  | 20,789            | 119,431              | 12,698             | 25,584               | 62,578             | 192,892  | 186,979                           | 385,714                            | 7,197   | 81  | 78                                       |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3536.—HOISTS, CRANES, AND MONORAILS  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 120                        | 120               | 56   | 9,585             | 64,301               | 6,776              | 13,980               | 41,433             | 112,327  | 110,949                           | 220,015                            | 2,644   | 80  | 70                                       |
| 1962 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 8,467             | 53,993               | 5,769              | 11,713               | 32,565             | 88,445   | 77,241                            | 166,030                            | 3,325   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 8,473             | 50,690               | 5,657              | 11,543               | 30,068             | 82,244   | 77,567                            | 162,650                            | 3,317   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 9,611             | 57,718               | 6,835              | 13,527               | 35,314             | 93,133   | 91,566                            | 188,151                            | 4,521   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 8,784             | 50,868               | 6,214              | 12,261               | 30,689             | 85,877   | 82,136                            | 164,305                            | 2,582   | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                       | 78                         | 81                | 54   | 9,520             | 53,566               | 6,555              | 12,988               | 32,840             | 92,759   | 85,484                            | 184,722                            | 5,056   | 79  | 78                                       |
| INDUSTRY 3537.—INDUSTRIAL TRUCKS AND TRACTORS |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 304                        | 314               | 108  | 17,570            | 110,444              | 11,454             | 23,815               | 64,476             | 233,116  | 215,499                           | 446,957                            | 6,696   | 90  | 81                                       |
| 1962 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 16,473            | 100,374              | 10,837             | 22,223               | 58,113             | 175,410  | 190,664                           | 360,562                            | 4,134   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 15,670            | 90,827               | 9,873              | 20,320               | 49,874             | 144,832  | 167,494                           | 319,449                            | (4,401)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 17,473            | 100,683              | 11,569             | 24,147               | 59,514             | 169,279  | 194,802                           | 366,043                            | 5,981   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 15,274            | 88,369               | 10,012             | 21,095               | 52,056             | 170,410  | 176,650                           | 333,196                            | 4,299   | (NA)  | (NA)                                     |
| 1958.....                                     | 254                        | 262               | 96   | 14,786            | 76,200               | 9,545              | 18,121               | 42,982             | 117,500  | 140,421                           | 269,328                            | 3,344   | 93  | 84                                       |
| 1957 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 17,979            | 96,817               | 12,088             | 23,826               | 58,098             | 156,796  | 172,395                           | 328,319                            | (S)   | 89  | 87                                       |
| 1956 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 18,593            | 97,422               | 13,026             | 27,009               | 60,629             | 188,794  | 177,425                           | 344,455                            | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 17,039            | 85,527               | 12,251             | 25,205               | 55,162             | 147,320  | 161,310                           | 302,423                            | (S)   | (NA)  | (NA)                                     |
| 1954.....                                     | 234                        | 245               | 96   | 15,797            | 71,824               | 11,061             | 22,123               | 44,813             | 124,455  | 132,206                           | 260,063                            | 7,088   | 88  | 83                                       |
| 1953 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 19,679            | 88,844               | 13,909             | 29,119               | 58,738             | 182,541  | 144,166                           | 326,707                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 15,781            | 73,781               | 11,453             | 24,292               | 48,067             | 159,478  | 129,941                           | 289,419                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 15,676            | 67,995               | 11,781             | 25,878               | 47,512             | 128,407  | 143,856                           | 272,263                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 12,372            | 45,807               | 8,990              | 19,247               | 29,716             | 87,222   | 79,229                            | 166,451                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 11,444            | 43,481               | 8,118              | 16,964               | 24,736             | 75,654   | 64,507                            | 140,161                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                     | 191                        | 196               | 78   | 13,926            | 41,908               | 10,603             | 22,460               | 29,530             | 81,517   | 80,634                            | 162,151                            | (NA)  | 84  | 84                                       |
| 1939 <sup>2</sup> .....                       | (NA)                       | 70                | (NA)   | (NA)              | (NA)                 | 3,652              | (NA)                 | 4,576              | 13,181   | 17,174                            | 30,355                             | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>No comparable figures are available for earlier years.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                  | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3531.—CONSTRUCTION MACHINERY         |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 617            | 305                                | 104,520        | 683,728           | 76,526             | 155,267           | 462,411         | 1,301,266                            | 1,403,162         | 2,696,039          | 56,227                    | 95,304           | 1,022,801                            |
| New England.....                              | 22             | 8                                  | 747            | 4,279             | 545                | 1,134             | 2,742           | 5,909                                | 5,387             | 11,818             | 263                       | 963              | 7,588                                |
| Massachusetts....                             | 12             | 4                                  | 268            | 1,710             | 183                | 399               | 1,008           | 1,843                                | 2,362             | 4,142              | 52                        | 313              | 3,140                                |
| Middle Atlantic....                           | 72             | 36                                 | 4,740          | 29,515            | 3,251              | 6,622             | 18,544          | 54,793                               | 58,409            | 113,594            | 3,280                     | 5,790            | 74,855                               |
| New York.....                                 | 24             | 13                                 | 1,163          | 6,579             | 836                | 1,716             | 4,366           | 12,026                               | 18,282            | 29,661             | 579                       | 663              | 8,068                                |
| New Jersey.....                               | 24             | 9                                  | 942            | 6,010             | 591                | 1,231             | 3,367           | 8,351                                | 9,189             | 19,373             | 150                       | 1,291            | 11,726                               |
| Pennsylvania.....                             | 24             | 14                                 | 2,635          | 16,926            | 1,824              | 3,675             | 10,811          | 34,416                               | 30,938            | 64,560             | 2,551                     | 3,836            | 55,061                               |
| East North Central.                           | 209            | 129                                | 75,950         | 508,008           | 56,086             | 113,095           | 349,283         | 967,368                              | 1,034,962         | 1,997,652          | 39,589                    | 70,285           | 771,670                              |
| Ohio.....                                     | 64             | 40                                 | 12,371         | 81,491            | 8,662              | 17,672            | 51,725          | 153,546                              | 188,313           | 344,038            | 4,822                     | 12,082           | 99,894                               |
| Indiana.....                                  | 15             | 10                                 | 3,658          | 21,918            | 2,662              | 5,133             | 14,909          | 45,183                               | 36,952            | 87,708             | 655                       | 4,050            | 35,061                               |
| Illinois.....                                 | 61             | 36                                 | 44,715         | 304,441           | 34,066             | 68,746            | 217,095         | 576,436                              | 606,136           | 1,163,578          | 28,920                    | 36,749           | 477,030                              |
| Michigan.....                                 | 31             | 16                                 | 4,500          | 27,683            | 3,013              | 5,528             | 16,410          | 51,597                               | 74,751            | 130,156            | 1,713                     | 4,624            | 49,821                               |
| Wisconsin.....                                | 38             | 27                                 | 10,706         | 72,475            | 7,683              | 16,016            | 49,144          | 140,606                              | 128,810           | 272,172            | 3,479                     | 12,780           | 109,864                              |
| West North Central.                           | 82             | 45                                 | 10,579         | 65,208            | 7,512              | 15,665            | 41,756          | 131,011                              | 147,322           | 275,520            | 7,701                     | 8,687            | 74,988                               |
| Minnesota.....                                | 30             | 14                                 | 4,038          | 24,608            | 2,825              | 5,989             | 16,023          | 42,555                               | 42,260            | 83,984             | 2,843                     | 3,134            | 24,831                               |
| Iowa.....                                     | 23             | 13                                 | 4,719          | 29,645            | 3,341              | 6,991             | 18,958          | 72,313                               | 75,520            | 147,243            | 2,654                     | 4,532            | 43,919                               |
| Missouri.....                                 | 12             | 9                                  | 1,134          | 7,106             | 789                | 1,504             | 4,111           | 11,030                               | 19,588            | 29,127             | 1,988                     | 448              | 2,781                                |
| Nebraska.....                                 | 6              | 4                                  | 213            | 1,098             | 181                | 377               | 814             | 2,018                                | 1,861             | 4,069              | 56                        | 178              | 871                                  |
| Kansas.....                                   | 11             | 5                                  | 475            | 2,751             | 376                | 804               | 1,850           | 3,095                                | 8,093             | 11,097             | 160                       | 395              | 2,586                                |
| South Atlantic.....                           | 28             | 6                                  | 1,178          | 7,627             | 858                | 1,728             | 4,506           | 20,427                               | 25,220            | 43,018             | 1,284                     | 1,175            | 15,918                               |
| East South Central.                           | 15             | 5                                  | 665            | 3,923             | 520                | 1,158             | 2,833           | 7,786                                | 7,482             | 14,731             | 493                       | 928              | 7,353                                |
| West South Central.                           | 53             | 29                                 | 4,045          | 22,176            | 3,096              | 6,680             | 14,667          | 37,496                               | 49,297            | 87,943             | 1,248                     | 2,761            | 24,689                               |
| Texas.....                                    | 34             | 17                                 | 2,374          | 13,042            | 1,788              | 3,922             | 8,348           | 20,882                               | 26,148            | 48,064             | 645                       | 1,520            | 13,201                               |
| Mountain.....                                 | 20             | 6                                  | 1,161          | 7,004             | 731                | 1,497             | 4,677           | 6,109                                | 8,859             | 16,150             | 206                       | 1,144            | 15,806                               |
| Pacific.....                                  | 116            | 41                                 | 5,455          | 35,988            | 3,927              | 7,688             | 23,403          | 70,367                               | 66,224            | 135,613            | 2,163                     | 3,571            | 29,934                               |
| Washington.....                               | 14             | 6                                  | 1,141          | 8,237             | 947                | 1,871             | 6,447           | 11,794                               | 11,401            | 23,303             | 644                       | 727              | 6,657                                |
| Oregon.....                                   | 13             | 4                                  | 268            | 1,668             | 178                | 362               | 1,030           | 3,917                                | 4,188             | 7,875              | 151                       | 237              | 2,820                                |
| California.....                               | 89             | 31                                 | 4,046          | 26,083            | 2,802              | 5,455             | 15,926          | 54,656                               | 50,635            | 104,435            | 1,368                     | 2,607            | 20,457                               |
| INDUSTRY 3532.—MINING MACHINERY AND EQUIPMENT |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 204            | 93                                 | 16,910         | 109,531           | 11,814             | 23,289            | 67,669          | 215,406                              | 203,786           | 417,616            | 6,847                     | 17,808           | 165,831                              |
| Northeast.....                                | 44             | 28                                 | 4,993          | 31,257            | 3,380              | 6,835             | 19,738          | 53,369                               | 73,203            | 129,635            | 2,045                     | 5,279            | 47,032                               |
| Pennsylvania.....                             | 34             | 22                                 | 3,137          | 20,506            | 2,035              | 4,085             | 12,394          | 32,362                               | 51,583            | 84,402             | 909                       | 3,286            | 30,747                               |
| East North Central.                           | 48             | 27                                 | 7,030          | 47,807            | 4,880              | 9,297             | 28,432          | 93,965                               | 84,061            | 174,091            | 2,732                     | 7,021            | 59,434                               |
| Ohio.....                                     | 18             | 12                                 | 1,978          | 12,053            | 1,579              | 2,760             | 9,009           | 26,783                               | 21,711            | 49,493             | 499                       | 4,043            | 31,372                               |
| Illinois.....                                 | 11             | 6                                  | 1,170          | 7,917             | 801                | 1,434             | 4,389           | 13,397                               | 11,802            | 24,838             | 412                       | 1,464            | 12,161                               |
| Wisconsin.....                                | 9              | 4                                  | 3,415          | 24,641            | 2,128              | 4,323             | 12,755          | 47,863                               | 46,597            | 90,131             | 1,647                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West North Central.                           | 17             | 10                                 | 1,079          | 6,997             | 769                | 1,574             | 4,390           | 14,624                               | 12,293            | 27,203             | 213                       | 1,323            | 11,903                               |
| Missouri.....                                 | 7              | 4                                  | 221            | 1,614             | 143                | 298               | 856             | 3,690                                | 2,187             | 5,822              | 79                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South Atlantic.....                           | 38             | 12                                 | 1,360          | 7,468             | 985                | 1,962             | 4,606           | 14,284                               | 12,714            | 27,313             | 628                       | 1,105            | 9,810                                |
| West Virginia....                             | 27             | 9                                  | 1,184          | 6,484             | 854                | 1,682             | 4,030           | 11,007                               | 10,222            | 21,557             | 521                       | 936              | 7,324                                |
| East South Central.                           | 7              | 3                                  | 258            | 1,341             | 176                | 355               | 783             | 3,091                                | 1,764             | 5,018              | 17                        | 246              | 1,650                                |
| West South Central.                           | 12             | 1                                  | 82             | 418               | 64                 | 126               | 299             | 1,002                                | 900               | 1,790              | 154                       | 307              | 3,285                                |
| Mountain.....                                 | 16             | 7                                  | 1,692          | 11,290            | 1,263              | 2,563             | 7,497           | 28,539                               | 13,087            | 40,716             | 859                       | 2,113            | 24,919                               |
| Colorado.....                                 | 10             | 6                                  | 1,632          | 10,818            | 1,224              | 2,476             | 7,206           | 27,468                               | 12,569            | 39,134             | 813                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pacific.....                                  | 22             | 5                                  | 416            | 2,953             | 297                | 577               | 1,924           | 6,532                                | 5,764             | 11,850             | 199                       | 414              | 7,798                                |
| California.....                               | 13             | 2                                  | 248            | 1,933             | 175                | 354               | 1,197           | 4,996                                | 3,753             | 8,389              | 101                       | 358              | 7,240                                |
| INDUSTRY 3533.—OIL FIELD MACHINERY            |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 408            | 176                                | 29,203         | 184,288           | 20,114             | 41,409            | 113,526         | 398,152                              | 264,350           | 666,532            | 11,321                    | 31,878           | 336,788                              |
| Northeast.....                                | 13             | 6                                  | 902            | 5,618             | 653                | 1,311             | 3,698           | 12,233                               | 7,680             | 20,054             | 232                       | 1,496            | 12,458                               |
| Pennsylvania.....                             | 6              | 4                                  | 743            | 4,731             | 547                | 1,098             | 3,157           | 9,917                                | 5,702             | 15,748             | 145                       | 1,431            | 11,801                               |
| East North Central.                           | 23             | 9                                  | 807            | 4,450             | 530                | 1,079             | 2,764           | 9,661                                | 6,221             | 16,647             | 288                       | 877              | 7,609                                |
| Ohio.....                                     | 11             | 4                                  | 493            | 2,616             | 308                | 627               | 1,625           | 4,536                                | 4,067             | 9,462              | 78                        | 524              | 4,905                                |
| West North Central.                           | 12             | 3                                  | 487            | 3,026             | 333                | 677               | 1,650           | 5,072                                | 7,434             | 12,554             | 156                       | 812              | 7,237                                |
| South.....                                    | 282            | 126                                | 23,233         | 144,233           | 15,895             | 32,720            | 87,693          | 306,674                              | 206,336           | 516,731            | 9,066                     | 23,473           | 257,787                              |
| Louisiana.....                                | 16             | 8                                  | 708            | 4,193             | 565                | 1,191             | 2,974           | 7,583                                | 9,080             | 16,400             | 435                       | 515              | 5,071                                |
| Oklahoma.....                                 | 67             | 24                                 | 4,228          | 25,240            | 3,035              | 6,130             | 16,425          | 51,427                               | 43,977            | 97,160             | 925                       | 4,265            | 35,955                               |
| Texas.....                                    | 184            | 90                                 | 17,703         | 111,515           | 11,827             | 24,419            | 65,922          | 244,221                              | 150,306           | 396,587            | 7,478                     | 18,257           | 214,409                              |
| Mountain.....                                 | 13             | 3                                  | 488            | 3,180             | 261                | 534               | 1,320           | 5,977                                | 6,832             | 12,591             | 32                        | 569              | 5,751                                |
| Pacific.....                                  | 65             | 29                                 | 3,286          | 23,781            | 2,442              | 5,088             | 16,401          | 58,535                               | 29,847            | 87,955             | 1,547                     | 4,651            | 45,946                               |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                  | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3534.—ELEVATORS AND MOVING STAIRWAYS |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 142            | 74                                 | 12,393         | 88,389            | 7,427              | 15,458            | 49,634          | 201,527                              | 114,684           | 318,616            | 3,315                     | 9,626            | 126,270                              |
| New England.....                              | 8              | 6                                  | 424            | 3,154             | 298                | 610               | 1,836           | 4,344                                | 3,097             | 7,256              | 94                        | 293              | 2,225                                |
| Middle Atlantic....                           | 30             | 18                                 | 7,035          | 52,863            | 4,389              | 9,293             | 31,908          | 137,497                              | 63,065            | 205,244            | 1,667                     | 4,913            | 85,000                               |
| Pennsylvania.....                             | 9              | 6                                  | 496            | 3,324             | 328                | 685               | 2,045           | 6,715                                | 5,459             | 12,073             | 87                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| East North Central.                           | 47             | 23                                 | 2,467          | 15,757            | 1,520              | 3,019             | 8,745           | 29,385                               | 23,406            | 52,058             | 758                       | 2,250            | 20,199                               |
| Ohio.....                                     | 15             | 7                                  | 1,182          | 7,397             | 702                | 1,386             | 3,920           | 12,332                               | 11,415            | 23,617             | 513                       | 1,260            | 10,519                               |
| Indiana.....                                  | 7              | 4                                  | 262            | 1,435             | 188                | 381               | 1,039           | 3,775                                | 4,032             | 7,724              | 112                       | 128              | 2,440                                |
| West North Central.                           | 13             | 3                                  | 181            | 1,143             | 91                 | 179               | 606             | 2,259                                | 1,873             | 4,074              | 69                        | 341              | 2,506                                |
| Minnesota.....                                | 6              | 2                                  | 114            | 711               | 43                 | 87                | 264             | 1,147                                | 1,302             | 2,440              | 32                        | 111              | 604                                  |
| South.....                                    | 18             | 13                                 | 1,410          | 8,924             | 685                | 1,448             | 3,672           | 14,487                               | 11,788            | 25,684             | 448                       | 1,050            | 7,753                                |
| West.....                                     | 26             | 11                                 | 876            | 6,548             | 444                | 909               | 2,867           | 13,555                               | 11,455            | 24,300             | 279                       | 779              | 8,587                                |
| California.....                               | 19             | 9                                  | 790            | 5,741             | 397                | 820               | 2,500           | 12,076                               | 9,595             | 21,202             | 245                       | 622              | 7,108                                |
| INDUSTRY 3535.—CONVEYORS                      |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 454            | 175                                | 20,778         | 140,617           | 12,642             | 26,312            | 74,020          | 270,475                              | 231,080           | 494,632            | 6,125                     | 20,789           | 192,892                              |
| New England.....                              | 18             | 5                                  | 296            | 1,957             | 207                | 441               | 1,153           | 3,844                                | 2,644             | 6,436              | 63                        | 284              | 2,018                                |
| Massachusetts....                             | 13             | 5                                  | 258            | 1,660             | 182                | 383               | 977             | 3,380                                | 2,414             | 5,742              | 43                        | 222              | 1,510                                |
| Middle Atlantic....                           | 92             | 35                                 | 5,812          | 38,008            | 3,271              | 6,739             | 19,089          | 75,680                               | 70,453            | 144,238            | 1,715                     | 5,694            | 56,689                               |
| New York.....                                 | 29             | 12                                 | 1,157          | 7,494             | 693                | 1,406             | 4,027           | 14,528                               | 10,828            | 25,092             | 423                       | 1,254            | 13,292                               |
| New Jersey.....                               | 29             | 10                                 | 1,241          | 8,311             | 744                | 1,564             | 4,172           | 14,666                               | 23,544            | 37,336             | 549                       | 1,686            | 13,922                               |
| Pennsylvania.....                             | 34             | 13                                 | 3,414          | 22,203            | 1,834              | 3,769             | 10,890          | 46,486                               | 36,081            | 81,810             | 743                       | 2,754            | 29,475                               |
| East North Central.                           | 179            | 75                                 | 8,553          | 62,324            | 5,309              | 11,007            | 33,459          | 117,432                              | 96,862            | 211,097            | 2,510                     | 8,822            | 84,133                               |
| Ohio.....                                     | 38             | 18                                 | 1,793          | 11,187            | 1,072              | 2,293             | 5,693           | 19,340                               | 19,252            | 38,172             | 587                       | 1,527            | 12,670                               |
| Indiana.....                                  | 13             | 3                                  | 163            | 913               | 117                | 225               | 602             | 972                                  | 933               | 1,948              | 104                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Illinois.....                                 | 53             | 17                                 | 2,205          | 15,297            | 1,372              | 2,912             | 8,866           | 27,632                               | 21,908            | 49,458             | 574                       | 3,103            | 33,104                               |
| Michigan.....                                 | 58             | 29                                 | 3,771          | 30,860            | 2,297              | 4,654             | 15,821          | 61,903                               | 49,178            | 107,894            | 1,168                     | 3,394            | 30,572                               |
| Wisconsin.....                                | 17             | 8                                  | 621            | 4,067             | 451                | 923               | 2,477           | 7,585                                | 5,591             | 13,625             | 77                        | 704              | 7,072                                |
| West North Central.                           | 45             | 17                                 | 1,745          | 11,919            | 1,004              | 2,154             | 5,650           | 21,309                               | 16,117            | 36,958             | 507                       | 1,510            | 14,765                               |
| Minnesota.....                                | 13             | 4                                  | 560            | 3,252             | 320                | 604               | 1,664           | 5,889                                | 5,550             | 11,471             | 54                        | 487              | 4,359                                |
| Iowa.....                                     | 9              | 3                                  | 124            | 659               | 89                 | 206               | 415             | 2,307                                | 1,280             | 3,594              | 66                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Missouri.....                                 | 12             | 4                                  | 520            | 3,787             | 309                | 677               | 1,779           | 6,596                                | 4,572             | 11,121             | 143                       | 478              | 4,373                                |
| South Atlantic....                            | 19             | 6                                  | 741            | 4,516             | 452                | 901               | 2,092           | 10,978                               | 9,871             | 20,821             | 329                       | 724              | 6,594                                |
| East South Central.                           | 18             | 9                                  | 1,619          | 8,820             | 1,180              | 2,543             | 5,650           | 19,852                               | 14,755            | 33,880             | 515                       | 1,989            | 11,908                               |
| Kentucky.....                                 | 8              | 4                                  | 873            | 5,399             | 629                | 1,294             | 3,382           | 10,155                               | 5,967             | 15,834             | 178                       | 672              | 5,631                                |
| West South Central.                           | 24             | 10                                 | 762            | 4,373             | 495                | 1,029             | 2,339           | 6,987                                | 6,338             | 13,196             | 199                       | 521              | 4,101                                |
| Louisiana.....                                | 3              | 2                                  | 115            | 760               | 77                 | 138               | 442             | 1,093                                | 648               | 1,730              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Texas.....                                    | 11             | 6                                  | 536            | 3,010             | 337                | 719               | 1,525           | 4,957                                | 4,649             | 9,480              | 129                       | 400              | 2,978                                |
| Mountain.....                                 | 10             | 3                                  | 128            | 865               | 72                 | 162               | 471             | 1,652                                | 1,199             | 2,764              | 41                        | 124              | 995                                  |
| Pacific.....                                  | 49             | 15                                 | 1,122          | 7,835             | 652                | 1,336             | 4,117           | 12,741                               | 12,841            | 25,242             | 246                       | 1,121            | 11,689                               |
| Washington.....                               | 6              | 1                                  | 111            | 690               | 71                 | 136               | 403             | 1,167                                | 957               | 2,100              | 7                         | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                               | 38             | 13                                 | 942            | 6,652             | 528                | 1,090             | 3,375           | 10,913                               | 11,167            | 21,831             | 232                       | 1,022            | 10,787                               |
| INDUSTRY 3536.—HOISTS, CRANES, AND MONORAILS  |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 120            | 56                                 | 9,585          | 64,301            | 6,776              | 13,980            | 41,433          | 112,327                              | 110,949           | 220,015            | 2,644                     | 9,520            | 92,759                               |
| Northeast.....                                | 24             | 11                                 | 1,414          | 8,796             | 923                | 1,840             | 5,132           | 18,910                               | 10,533            | 28,236             | 377                       | 1,346            | 13,032                               |
| New York.....                                 | 7              | 3                                  | 806            | 5,015             | 523                | 1,064             | 2,901           | 11,029                               | 4,960             | 15,427             | 164                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pennsylvania.....                             | 9              | 6                                  | 450            | 2,635             | 300                | 577               | 1,530           | 6,310                                | 3,676             | 9,345              | 185                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| East North Central.                           | 40             | 22                                 | 5,455          | 37,943            | 3,905              | 8,225             | 24,959          | 59,722                               | 70,990            | 129,743            | 1,048                     | 6,093            | 58,309                               |
| Ohio.....                                     | 15             | 12                                 | 2,739          | 18,703            | 1,915              | 3,805             | 11,632          | 26,542                               | 38,551            | 65,016             | 467                       | 2,705            | 29,009                               |
| Illinois.....                                 | 8              | 4                                  | 1,193          | 9,432             | 855                | 1,937             | 6,148           | 17,026                               | 17,019            | 33,264             | 177                       | 1,490            | 12,042                               |
| Michigan.....                                 | 9              | 3                                  | 1,134          | 7,373             | 846                | 1,880             | 5,614           | 13,610                               | 11,384            | 24,497             | 360                       | 1,205            | 12,369                               |
| West North Central.                           | 7              | 4                                  | 459            | 3,060             | 273                | 560               | 1,451           | 5,973                                | 5,432             | 11,454             | 34                        | 545              | 5,822                                |
| South.....                                    | 13             | 7                                  | 857            | 4,974             | 645                | 1,312             | 3,113           | 11,196                               | 8,515             | 18,774             | 586                       | 538              | 4,467                                |
| Texas.....                                    | 5              | 2                                  | 127            | 938               | 99                 | 218               | 599             | 1,924                                | 1,519             | 2,782              | 30                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West.....                                     | 36             | 12                                 | 1,400          | 9,528             | 1,030              | 2,043             | 6,778           | 16,526                               | 15,479            | 31,808             | 599                       | 998              | 11,129                               |
| Washington.....                               | 7              | 4                                  | 843            | 5,795             | 615                | 1,203             | 4,128           | 9,812                                | 9,270             | 18,860             | 412                       | 295              | 3,362                                |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                  | 1963              |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  | 1958                      |   |
|---|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|---|--------------------------------|---------------------------------|--|---------------------------|---|
|   | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted<br>(\$1,000) | Cost of materials<br>(\$1,000) | Value of shipments<br>(\$1,000) | Capital expenditures, new<br>(\$1,000) | All employees<br>(number) | Value added by manufacture, adjusted<br>(\$1,000) |
|   | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                |                                 |  |                           |   |
| INDUSTRY 3537.—INDUSTRIAL TRUCKS AND TRACTORS |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                    | 314               | 108                                   | 17,570            | 110,444              | 11,454             | 23,815               | 64,476             | 233,116   | 215,499                        | 446,957                         | 6,696                                  | 14,786                    | 117,500   |
| New England.....                              | 10                | 4                                     | 890               | 4,663                | 658                | 1,297                | 3,330              | 10,408  | 5,810                          | 16,199                          | 374                                    | 936                       | 8,174   |
| Middle Atlantic....                           | 59                | 20                                    | 3,857             | 25,574               | 2,277              | 4,872                | 13,713             | 51,109  | 37,524                         | 85,494                          | 1,314                                  | 3,621                     | 33,020  |
| New York.....                                 | 26                | 10                                    | 767               | 4,633                | 499                | 1,035                | 2,472              | 13,380  | 8,975                          | 22,100                          | 367                                    | 481                       | 5,127   |
| New Jersey.....                               | 9                 | 2                                     | 121               | 650                  | 92                 | 189                  | 457                | 1,133   | 926                            | 2,047                           | 16                                     | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Pennsylvania....                              | 24                | 8                                     | 2,969             | 20,291               | 1,686              | 3,648                | 10,784             | 36,596  | 27,623                         | 61,347                          | 931                                    | 3,050                     | 27,013  |
| East North Central.                           | 98                | 41                                    | 8,113             | 53,325               | 5,251              | 10,848               | 31,842             | 119,299   | 119,710                        | 240,694                         | 3,296                                  | 6,254                     | 48,201  |
| Ohio.....                                     | 34                | 15                                    | 3,145             | 21,421               | 1,983              | 4,164                | 12,457             | 34,957  | 41,377                         | 79,118                          | 959                                    | 2,159                     | 17,861  |
| Indiana.....                                  | 5                 | 3                                     | 112               | 584                  | 87                 | 185                  | 444                | 1,561   | 812                            | 2,374                           | 122                                    | 216                       | 1,202   |
| Illinois.....                                 | 23                | 9                                     | 2,406             | 15,410               | 1,550              | 3,261                | 8,984              | 42,201  | 31,366                         | 73,577                          | 1,133                                  | 1,774                     | 11,286  |
| Michigan.....                                 | 23                | 11                                    | 2,183             | 14,346               | 1,436              | 2,848                | 9,047              | 36,927  | 42,189                         | 78,525                          | 940                                    | 1,927                     | 16,488  |
| Wisconsin.....                                | 13                | 3                                     | 267               | 1,564                | 195                | 390                  | 910                | 3,653   | 3,966                          | 7,520                           | 142                                    | 178                       | 1,364   |
| West North Central.                           | 24                | 7                                     | 616               | 2,927                | 426                | 839                  | 1,717              | 5,032   | 4,799                          | 9,802                           | 165                                    | 600                       | 4,230   |
| Minnesota.....                                | 5                 | 3                                     | 255               | 1,334                | 157                | 320                  | 697                | 2,200   | 2,067                          | 4,256                           | 84                                     | 351                       | 2,451   |
| Iowa.....                                     | 5                 | 2                                     | 166               | 785                  | 119                | 217                  | 497                | 1,326   | 1,216                          | 2,528                           | 26                                     | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| South Atlantic.....                           | 21                | 7                                     | 497               | 2,224                | 406                | 858                  | 1,555              | 5,049   | 4,887                          | 9,900                           | 338                                    | 587                       | 2,960   |
| Georgia.....                                  | 6                 | 2                                     | 214               | 865                  | 179                | 362                  | 645                | 2,309   | 1,601                          | 3,880                           | 182                                    | 451                       | 2,099   |
| East South Central.                           | 12                | 6                                     | 740               | 3,314                | 560                | 1,188                | 2,115              | 7,371   | 8,794                          | 15,718                          | 133                                    | 416                       | 2,677   |
| Tennessee.....                                | 3                 | 3                                     | 336               | 1,387                | 302                | 625                  | 1,052              | 1,890   | 2,382                          | 4,236                           | 26                                     | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| West South Central.                           | 16                | 4                                     | 461               | 2,418                | 337                | 792                  | 1,532              | 5,186   | 3,374                          | 8,623                           | 233                                    | 195                       | 1,644   |
| Texas.....                                    | 11                | 4                                     | 412               | 2,204                | 296                | 705                  | 1,359              | 4,800   | 2,692                          | 7,555                           | 213                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| West.....                                     | 74                | 19                                    | 2,396             | 15,999               | 1,539              | 3,121                | 8,672              | 29,662  | 30,601                         | 60,527                          | 843                                    | 2,177                     | 16,594  |
| Oregon.....                                   | 11                | 5                                     | 1,300             | 8,908                | 786                | 1,530                | 4,468              | 14,656  | 17,512                         | 32,852                          | 311                                    | 940                       | 5,592   |
| California.....                               | 57                | 13                                    | 1,044             | 6,754                | 713                | 1,509                | 3,940              | 14,396  | 12,746                         | 26,724                          | 500                                    | 1,028                     | 9,518   |

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3531, Construction Machinery: New England—Maine, 3 (250-499); Vermont, 1 (20-99); Rhode Island, 2 (20-99); Connecticut, 4 (1-19); South Atlantic—Delaware, 2 (1-19); Maryland, 1 (100-249); Virginia, 6 (20-99); West Virginia, 2 (1-19); North Carolina, 5 (20-99); South Carolina, 2 (1-19); Georgia, 5 (749); Florida, 5 (20-99); East South Central—Kentucky, 2 (1-19); Tennessee, 5 (100-249); Alabama, 6 (379); Mississippi, 2 (100-249); West South Central—Arkansas, 1 (1-19); Louisiana, 2 (250-499); Oklahoma, 16 (1,397); Mountain—Montana, 1 (1-19); Idaho, 3 (20-99); Wyoming, 1 (1-19); Colorado, 9 (175); New Mexico, 1 (1-19); Utah, 3 (948); Nevada, 2 (1-19).

SIC 3532, Mining Machinery and Equipment: New England—Maine, 1 (20-99); New Hampshire, 1 (500-999); Massachusetts, 1 (1-19); Connecticut, 1 (20-99); Middle Atlantic—New York, 4 (20-99); New Jersey, 2 (500-999); East North Central—Indiana, 4 (155); Michigan, 6 (312); West North Central—Minnesota, 4 (100-249); Iowa, 4 (430); Kansas, 2 (250-499); South Atlantic—Virginia, 9 (100-249); North Carolina, 2 (20-99); East South Central—Kentucky, 5 (20-99); Tennessee, 1 (100-249); Alabama, 1 (20-99); West South Central—Oklahoma, 4 (20-99); Texas, 8 (20-99); Mountain—Idaho, 1 (1-19); New Mexico, 1 (1-19); Arizona, 1 (1-19); Utah, 3 (20-99); Pacific—Washington, 5 (20-99); Oregon, 4 (20-99).

SIC 3533, Oil Field Machinery: New England—Massachusetts, 2 (20-99); Connecticut, 1 (1-19); Middle Atlantic—New York, 2 (20-99); New Jersey, 2 (20-99); East North Central—Indiana, 4 (20-99); Illinois, 4 (174); Michigan, 3 (1-19); Wisconsin, 1 (20-99); West North Central—Minnesota, 2 (20-99); Iowa, 1 (1-19); Missouri, 1 (1-19); North Dakota, 1 (1-19); Kansas, 7 (399); South Atlantic—West Virginia, 4 (20-99); South Carolina, 1 (1-19); Florida, 1 (20-99); East South Central—Kentucky, 1 (1-19); Tennessee, 2 (1-19); Mississippi, 3 (250-499); West South Central—Arkansas, 3 (1-19); Mountain—Wyoming, 5 (1-19); Colorado, 2 (100-249); New Mexico, 4 (20-99); Utah, 2 (250-499); Pacific—Washington, 1 (20-99); California, 64 (2,500-4,999).

SIC 3534, Elevators and Moving Stairways: New England—Massachusetts, 6 (250-499); Rhode Island, 1 (1-19); Connecticut, 1 (20-99); Middle Atlantic—New York, 18 (2,500-4,999); New Jersey, 3 (2,500-4,999); East North Central—Illinois, 14 (727); Michigan, 5 (20-99); Wisconsin, 6 (197); West North Central—Iowa, 1 (1-19); Missouri, 4 (20-99); North Dakota, 1 (1-19); Kansas, 1 (1-19); South Atlantic—Maryland, 4 (359); Virginia, 2 (20-99); West Virginia, 1 (1-19); North Carolina, 1 (20-99); Georgia, 1 (100-249); Florida, 1 (20-99); East South Central—Kentucky, 3 (282); Tennessee, 1 (250-499); Alabama, 1 (1-19); Mississippi, 1 (20-99); West South Central—Texas, 2 (100-249); Mountain—Colorado, 1 (1-19); Arizona, 1 (1-19); Pacific—Washington, 3 (20-99); Oregon, 2 (20-99).

SIC 3535, Conveyors: New England—Rhode Island, 3 (20-99); Connecticut, 2 (1-19); West North Central—South Dakota, 2 (100-249); Nebraska, 5 (20-99); Kansas, 4 (373); South Atlantic—Maryland, 3 (20-99); Virginia, 3 (20-99); West Virginia, 3 (224); South Carolina, 3 (134); Georgia, 4 (232); Florida, 3 (20-99); East South Central—Tennessee, 4 (284); Alabama, 4 (100-249); Mississippi, 2 (100-249); West South Central—Arkansas, 5 (20-99); Oklahoma, 5 (20-99); Mountain—Idaho, 1 (20-99); Colorado, 8 (20-99); Utah, 1 (1-19); Pacific—Oregon, 5 (20-99).

SIC 3536, Hoists, Cranes and Monorails: New England—Massachusetts, 2 (20-99); Connecticut, 2 (20-99); East North Central—Indiana, 3 (20-99); Wisconsin, 5 (250-499); West North Central—Minnesota, 1 (100-249); Iowa, 5 (250-499); Kansas, 1 (1-19); South Atlantic—Florida, 1 (1-19); East South Central—Kentucky, 2 (20-99); Tennessee, 1 (100-249); Mississippi, 1 (1-19); West South Central—Arkansas, 1 (250-499); Oklahoma, 2 (20-99); Mountain—Colorado, 4 (20-99); Pacific—Oregon, 2 (20-99); California, 23 (250-499).

SIC 3537, Industrial Trucks and Tractors: New England—Massachusetts, 5 (769); Rhode Island, 1 (1-19); Connecticut, 4 (100-249); West North Central—Missouri, 9 (130); North Dakota, 1 (1-19); Kansas, 4 (20-99); South Atlantic—Maryland, 2 (1-19); Virginia, 1 (20-99); West Virginia, 1 (1-19); North Carolina, 3 (20-99); South Carolina, 2 (20-99); Florida, 6 (20-99); East South Central—Kentucky, 3 (20-99); Alabama, 5 (20-99); Mississippi, 1 (250-499); West South Central—Arkansas, 2 (1-19); Louisiana, 1 (1-19); Oklahoma, 2 (20-99); Mountain—Montana, 1 (1-19); Idaho, 1 (1-19); Colorado, 1 (1-19); Utah, 1 (1-19); Pacific—Washington, 1 (20-99); Hawaii, 1 (1-19).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.



TABLE 3. Detailed Statistics: 1963

| Item   | Construction machinery (SIC 3531) | Mining machinery and equipment (SIC 3532) | Oil field machinery (SIC 3533) | Elevators and moving stairways (SIC 3534) | Conveyors (SIC 3535) | Hoists, cranes, and monorails (SIC 3536) | Industrial trucks and tractors (SIC 3537) |
|--|-----------------------------------|---|--------------------------------|---|----------------------|--|---|
| Primary product specialization ratio <sup>1</sup> .....        | .91                               | .75                                       | .90                            | .97                                       | .82                  | .80                                      | .90                                       |
| Coverage ratio <sup>2</sup> .....                              | .89                               | .82                                       | .91                            | .95                                       | .83                  | .70                                      | .81                                       |
| Establishments, total.....number..                             | 617                               | 204                                       | 408                            | 142                                       | 454                  | 120                                      | 314                                       |
| With 1 to 19 employees.....do....                              | 312                               | 111                                       | 232                            | 68  | 279                  | 64                                       | 206                                       |
| With 20 to 99 employees.....do....                             | 160                               | 60  | 110                            | 50  | 122                  | 36                                       | 82  |
| With 100 employees or more.....do....                          | 145                               | 33  | 66                             | 24  | 53                   | 20                                       | 26  |
| Proprietors and working partners.....do....                    | 169                               | 62  | 137                            | 34  | 160                  | 16                                       | 116                                       |
| All employees (average for the year).....do....                | 104,520                           | 16,910                                    | 29,203                         | 12,393                                    | 20,778               | 9,585                                    | 17,570                                    |
| Payroll (all employees), total for year.....\$1,000..          | 683,728                           | 109,531                                   | 184,288                        | 88,389                                    | 140,617              | 64,301                                   | 110,444                                   |
| Production workers:  |                                   |   |                                |   |                      |  |   |
| Average for the year.....number..                              | 76,526                            | 11,814                                    | 20,114                         | 7,427                                     | 12,642               | 6,776                                    | 11,454                                    |
| March.....do....   | 74,152                            | 11,404                                    | 19,924                         | 7,301                                     | 11,929               | 6,435                                    | 11,136                                    |
| May.....do....   | 76,445                            | 11,410                                    | 20,014                         | 7,489                                     | 12,507               | 6,650                                    | 11,245                                    |
| August.....do....  | 77,545                            | 11,993                                    | 20,275                         | 7,392                                     | 13,412               | 6,852                                    | 11,603                                    |
| November.....do....  | 77,850                            | 12,442                                    | 20,246                         | 7,528                                     | 12,735               | 7,161                                    | 11,845                                    |
| Man-hours.....1,000..  | 155,267                           | 23,289                                    | 41,409                         | 15,458                                    | 26,312               | 13,980                                   | 23,815                                    |
| January-March.....do....                                       | 37,657                            | 5,658                                     | 10,346                         | 3,757                                     | 6,122                | 3,270                                    | 5,789                                     |
| April-June.....do....  | 39,393                            | 5,741                                     | 10,279                         | 3,959                                     | 6,753                | 3,465                                    | 5,893                                     |
| July-September.....do....                                      | 37,844                            | 5,731                                     | 10,340                         | 3,696                                     | 6,973                | 3,409                                    | 5,954                                     |
| October-December.....do....                                    | 40,450                            | 6,190                                     | 10,510                         | 4,082                                     | 6,640                | 3,874                                    | 6,282                                     |
| Wages.....\$1,000..  | 462,411                           | 67,669                                    | 113,526                        | 49,634                                    | 74,020               | 41,433                                   | 64,476                                    |
| Cost of materials, etc., total.....do....                      | 1,403,162                         | 203,786                                   | 264,350                        | 114,684                                   | 231,080              | 110,949                                  | 215,499                                   |
| Materials, parts, containers, and supplies consumed.....do.... | 1,284,321                         | 166,460                                   | 216,441                        | 108,235                                   | 173,961              | 101,430                                  | 192,548                                   |
| Cost of resales.....do....                                     | 73,238                            | 28,690                                    | 35,176                         | 3,849                                     | 45,245               | 6,045                                    | 14,919                                    |
| Fuels consumed.....do....                                      | 8,296                             | 1,513                                     | 1,740                          | 597                                       | 1,191                | 648                                      | 876                                       |
| Electric energy:   |                                   |   |                                |   |                      |  |   |
| Purchased:   |                                   |   |                                |   |                      |  |   |
| Quantity.....million kw.-hrs..                                 | 1,203                             | 139                                       | 326                            | 66  | 110                  | 67                                       | 130                                       |
| Cost.....\$1,000..   | 14,119                            | 2,103                                     | 3,835                          | 1,035                                     | 1,827                | 957                                      | 1,647                                     |
| Generated less sold.....million kw.-hrs..                      | (D)                               | (D)                                       | -                              | (D)                                       | (D)                  | (D)                                      | (D)                                       |
| Contract work.....\$1,000..                                    | 23,188                            | 5,021                                     | 7,104                          | 968                                       | 8,856                | 1,869                                    | 5,509                                     |
| Value of shipments (including resales), total.....do....       | 2,696,039                         | 417,616                                   | 666,532                        | 318,616                                   | 494,632              | 220,015                                  | 446,957                                   |
| Value of resales.....do....                                    | 101,167                           | 36,368                                    | 45,960                         | 4,462                                     | 53,677               | 7,338                                    | 22,981                                    |
| Value added by manufacture, adjusted.....do....                | 1,301,266                         | 215,406                                   | 398,152                        | 201,527                                   | 270,475              | 112,327                                  | 233,116                                   |
| Manufacturers' inventories:                                    |                                   |   |                                |   |                      |  |   |
| Beginning of year, total.....do....                            | 649,567                           | 107,869                                   | 182,378                        | 70,965                                    | 71,444               | 39,320                                   | 91,258                                    |
| Finished products.....do....                                   | 194,843                           | 43,686                                    | 92,755                         | 23,981                                    | 17,241               | 6,519                                    | 27,828                                    |
| Work-in-process.....do....                                     | 243,490                           | 33,895                                    | 40,827                         | 17,883                                    | 23,528               | 16,417                                   | 33,263                                    |
| Materials, supplies, fuel, etc.....do....                      | 211,234                           | 30,288                                    | 48,797                         | 29,101                                    | 30,675               | 16,384                                   | 30,167                                    |
| End of year, total.....do....                                  | 671,574                           | 109,415                                   | 176,761                        | 65,980                                    | 79,282               | 45,367                                   | 97,581                                    |
| Finished products.....do....                                   | 191,078                           | 43,026                                    | 94,865                         | 21,616                                    | 18,071               | 7,207                                    | 28,355                                    |
| Work-in-process.....do....                                     | 256,104                           | 36,132                                    | 34,437                         | 17,843                                    | 29,621               | 18,990                                   | 34,394                                    |
| Materials, supplies, fuel, etc.....do....                      | 224,392                           | 30,257                                    | 47,459                         | 26,521                                    | 31,590               | 19,170                                   | 34,832                                    |
| Expenditures for plant and equipment, total.....do....         | 58,903                            | 7,611                                     | 13,270                         | 3,601                                     | 6,953                | 2,791                                    | 6,993                                     |
| New, total.....do....  | 56,227                            | 6,847                                     | 11,321                         | 3,315                                     | 6,125                | 2,644                                    | 6,696                                     |
| New structures and additions to plant.....do....               | 10,753                            | 1,307                                     | 2,267                          | 880                                       | 1,586                | 665                                      | 1,860                                     |
| New machinery and equipment.....do....                         | 45,474                            | 5,549                                     | 9,054                          | 2,435                                     | 4,539                | 1,979                                    | 4,836                                     |
| Used plant and equipment.....do....                            | 2,676                             | 764                                       | 1,949                          | 286                                       | 828                  | 147                                      | 297                                       |
| Selected operating ratios:                                     |                                   |   |                                |   |                      |  |   |
| Payroll/Total employment.....                                  | 6,542                             | 6,477                                     | 6,311                          | 7,132                                     | 6,768                | 6,709                                    | 6,286                                     |
| Production workers/Total employment.....                       | .73                               | .70                                       | .69                            | .60                                       | .61                  | .71                                      | .65                                       |
| Man-hours/Production workers.....                              | 2,029                             | 1,966                                     | 2,058                          | 2,081                                     | 2,081                | 2,063                                    | 2,079                                     |
| Production worker wages/Man-hours.....                         | 2.98                              | 2.91                                      | 2.74                           | 3.21                                      | 2.81                 | 2.96                                     | 2.71                                      |
| Cost of materials and payrolls/Total value of shipments.....   | .77                               | .75                                       | .67                            | .64                                       | .75                  | .80                                      | .73                                       |
| Cost of materials/Total value of shipments.....                | .52                               | .48                                       | .40                            | .36                                       | .47                  | .50                                      | .48                                       |
| Adjusted value added/Total employment.....                     | 12,449                            | 27,384                                    | 13,633                         | 16,261                                    | 13,017               | 11,719                                   | 13,268                                    |
| Salaries and wages/Adjusted value added.....                   | .53                               | .51                                       | .46                            | .44                                       | .52                  | .57                                      | .47                                       |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3531.—CONSTRUCTION MACHINERY         |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 617                   | 148                                | 76               | 88                 | 94                 | 66                 | 69                   | 30                   | 28                   | 11                       | 7                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 104,520               | 219                                | 501              | 1,216              | 3,004              | 4,717              | 11,682               | 10,365               | 21,082               | 15,935                   | 35,799                   |
| Payroll.....\$1,000..                         | 683,728               | 1,611                              | 2,993            | 7,391              | 18,259             | 29,151             | 73,914               | 63,528               | 136,178              | 107,996                  | 242,707                  |
| Value added, adjusted.....do....              | 1,301,266             | 2,811                              | 4,801            | 14,202             | 33,741             | 54,598             | 134,415              | 116,206              | 302,784              | 138,207                  | 499,501                  |
| Value of shipments.....do....                 | 2,696,039             | 7,053                              | 10,442           | 27,600             | 74,119             | 112,081            | 283,059              | 268,724              | 613,153              | 359,392                  | 940,416                  |
| Capital expenditures, new.....do....          | 56,227                | 134                                | 189              | 490                | 1,778              | 2,375              | 5,678                | 5,750                | 8,998                | 7,749                    | 23,086                   |
| INDUSTRY 3532.—MINING MACHINERY AND EQUIPMENT |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 204                   | 57                                 | 23               | 31                 | 40                 | 20                 | 18                   | 7                    | 7                    | 1                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 16,910                | 95                                 | 158              | 440                | 1,325              | 1,385              | 2,979                | 2,577                | <u>7,951</u>         | (D)                      | -                        |
| Payroll.....\$1,000..                         | 109,531               | 692                                | 996              | 2,800              | 8,223              | 8,548              | 18,884               | 16,307               | <u>53,081</u>        | (D)                      | -                        |
| Value added, adjusted.....do....              | 215,406               | 1,260                              | 1,838            | 5,585              | 15,904             | 21,436             | 38,852               | 26,538               | <u>103,993</u>       | (D)                      | -                        |
| Value of shipments.....do....                 | 417,616               | 2,589                              | 2,998            | 10,755             | 30,510             | 35,285             | 72,656               | 57,135               | <u>205,688</u>       | (D)                      | -                        |
| Capital expenditures, new.....do....          | 6,847                 | 39                                 | 53               | 148                | 532                | 682                | 1,537                | 514                  | <u>3,342</u>         | (D)                      | -                        |
| INDUSTRY 3533.—OIL FIELD MACHINERY            |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 408                   | 122                                | 50               | 60                 | 68                 | 42                 | 36                   | 22                   | 5                    | 2                        | 1                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 29,203                | 164                                | 345              | 803                | 2,056              | 2,902              | 5,890                | 8,304                | 3,595                | <u>5,144</u>             | (D)                      |
| Payroll.....\$1,000..                         | 184,288               | 1,010                              | 1,970            | 4,682              | 13,314             | 17,621             | 37,087               | 51,694               | 22,002               | <u>34,908</u>            | (D)                      |
| Value added, adjusted.....do....              | 398,152               | 2,295                              | 4,241            | 12,474             | 27,138             | 38,113             | 75,062               | 114,348              | 44,175               | <u>80,306</u>            | (D)                      |
| Value of shipments.....do....                 | 666,532               | 3,916                              | 7,864            | 18,450             | 49,895             | 63,899             | 144,571              | 189,547              | 76,319               | <u>112,071</u>           | (D)                      |
| Capital expenditures, new.....do....          | 11,321                | 152                                | 152              | 316                | 973                | 1,324              | 2,666                | 3,064                | 1,440                | <u>1,234</u>             | (D)                      |
| INDUSTRY 3534.—ELEVATORS AND MOVING STAIRWAYS |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 142                   | 28                                 | 23               | 17                 | 33                 | 17                 | 13                   | 7                    | 1                    | 3                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 12,393                | 41                                 | 160              | 247                | 1,007              | 1,146              | 2,016                | <u>7,776</u>         | (D)                  | (D)                      | -                        |
| Payroll.....\$1,000..                         | 88,389                | 323                                | 1,076            | 1,734              | 7,101              | 7,823              | 13,064               | <u>57,268</u>        | (D)                  | (D)                      | -                        |
| Value added, adjusted.....do....              | 201,527               | 705                                | 1,977            | 3,201              | 14,318             | 15,756             | 23,754               | <u>141,816</u>       | (D)                  | (D)                      | -                        |
| Value of shipments.....do....                 | 318,636               | 1,360                              | 3,556            | 5,239              | 25,737             | 25,094             | 43,489               | <u>214,141</u>       | (D)                  | (D)                      | -                        |
| Capital expenditures, new.....do....          | 3,315                 | <sup>1</sup> 103                   | 58               | 58                 | 256                | 424                | 382                  | <u>2,034</u>         | (D)                  | (D)                      | -                        |
| INDUSTRY 3535.—CONVEYORS                      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 454                   | <sup>2</sup> 143                   | 65               | 71                 | 88                 | 34                 | 33                   | 13                   | 7                    | -                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 20,778                | 279                                | 470              | 988                | 2,742              | 2,227              | 4,866                | 4,796                | 4,410                | -                        | -                        |
| Payroll.....\$1,000..                         | 140,617               | 1,581                              | 2,712            | 5,970              | 17,470             | 14,492             | 31,382               | 36,945               | 30,065               | -                        | -                        |
| Value added, adjusted.....do....              | 270,475               | 2,984                              | 5,650            | 10,555             | 29,518             | 26,066             | 65,778               | 69,388               | 60,536               | -                        | -                        |
| Value of shipments.....do....                 | 494,632               | 5,616                              | 10,599           | 19,084             | 56,715             | 51,469             | 128,254              | 115,877              | 107,018              | -                        | -                        |
| Capital expenditures, new.....do....          | 6,125                 | 149                                | 178              | 413                | 997                | 834                | 1,721                | 1,079                | 754                  | -                        | -                        |
| INDUSTRY 3536.—HOISTS, CRANES, AND MONORAILS  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 120                   | 25                                 | 19               | 20                 | 23                 | 13                 | 9                    | 6                    | 4                    | 1                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 9,585                 | 30                                 | 129              | 295                | 783                | 852                | 1,657                | 2,114                | <u>3,725</u>         | (D)                      | -                        |
| Payroll.....\$1,000..                         | 64,301                | 204                                | 819              | 2,103              | 4,907              | 5,702              | 11,380               | 12,349               | <u>26,837</u>        | (D)                      | -                        |
| Value added, adjusted.....do....              | 112,327               | 278                                | 1,639            | 3,273              | 9,664              | 9,557              | 20,219               | 25,594               | <u>42,103</u>        | (D)                      | -                        |
| Value of shipments.....do....                 | 220,015               | 607                                | 2,805            | 6,496              | 18,005             | 18,485             | 41,930               | 43,102               | <u>88,585</u>        | (D)                      | -                        |
| Capital expenditures, new.....do....          | 2,644                 | 11                                 | 48               | 62                 | 160                | 318                | 451                  | 811                  | <u>783</u>           | (D)                      | -                        |
| INDUSTRY 3537.—INDUSTRIAL TRUCKS AND TRACTORS |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 314                   | 95                                 | 51*              | 60                 | 54                 | 28                 | 12                   | 6                    | 5                    | 3                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 17,570                | 163                                | 348              | 814                | 1,794              | 1,896              | 1,975                | 1,866                | 3,621                | 5,093                    | -                        |
| Payroll.....\$1,000..                         | 110,444               | 792                                | 1,495            | 4,680              | 9,515              | 10,449             | 12,025               | 10,636               | 23,626               | 37,226                   | -                        |
| Value added, adjusted.....do....              | 233,116               | 1,574                              | 3,604            | 7,801              | 18,722             | 20,592             | 22,683               | 28,619               | 52,270               | 77,251                   | -                        |
| Value of shipments.....do....                 | 446,957               | 3,777                              | 6,904            | 16,441             | 36,575             | 40,963             | 49,456               | 46,034               | 95,808               | 150,999                  | -                        |
| Capital expenditures, new.....do....          | 6,696                 | 143                                | 184              | 349                | 644                | 905                | 411                  | 702                  | 1,225                | 2,133                    | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

<sup>1</sup>Includes capital expenditures for plants under construction but not in operation which constitute \$50-\$100 thousand of the total for the size class.<sup>2</sup>Includes capital expenditures for plants under construction but not in operation which constitute \$20-\$50 thousand of the total for the size class.



TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|---|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |   | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |   | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |   | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3531      | Construction machinery.....1963..       | 2,696,039          | 2,332,119        | 229,425            | 134,495                | 91                                   | 2,624,171                          | 2,332,119             | 292,052                  | 89                            |
|           | 1958..                                  | 2,107,352          | 1,802,123        | 226,247            | 78,982                 | 89                                   | 1,996,322                          | 1,802,123             | 194,199                  | 90                            |
| 3532      | Mining machinery and equipment...1963.. | 417,616            | 274,380          | 91,841             | 51,395                 | 75                                   | 336,213                            | 274,380               | 61,833                   | 82                            |
|           | 1958..                                  | 342,035            | 215,050          | 83,780             | 43,205                 | 72                                   | 275,289                            | 215,050               | 60,239                   | 78                            |
| 3533      | Oil field machinery.....1963..          | 666,532            | 518,739          | 59,489             | 88,304                 | 90                                   | 572,726                            | 518,739               | 53,987                   | 91                            |
|           | 1958..                                  | 585,268            | 467,886          | 41,427             | 75,955                 | 92                                   | 496,149                            | 467,886               | 28,263                   | 94                            |
| 3534      | Elevators and moving stairways...1963.. | 318,616            | 235,080          | 8,485              | 75,051                 | 97                                   | 248,209                            | 235,080               | 13,129                   | 95                            |
|           | 1958..                                  | 192,806            | 132,362          | 4,658              | 55,786                 | 97                                   | 165,277                            | 132,362               | 32,915                   | 80                            |
| 3535      | Conveyors.....1963..                    | 494,632            | 342,496          | 77,854             | 74,282                 | 82                                   | 414,854                            | 342,496               | 72,358                   | 83                            |
|           | 1958..                                  | 385,714            | 260,700          | 59,597             | 65,417                 | 81                                   | 333,877                            | 260,700               | 73,177                   | 78                            |
| 3536      | Hoists, cranes, and monorails....1963.. | 220,015            | 157,229          | 40,142             | 22,644                 | 80                                   | 224,183                            | 157,229               | 66,954                   | 70                            |
|           | 1958..                                  | 184,722            | 128,355          | 35,143             | 21,224                 | 79                                   | 165,544                            | 128,355               | 37,189                   | 78                            |
| 3537      | Industrial trucks and tractors...1963.. | 446,957            | 370,265          | 43,260             | 33,432                 | 90                                   | 458,741                            | 370,265               | 88,476                   | 81                            |
|           | 1958..                                  | 269,328            | 231,445          | 18,176             | 19,707                 | 93                                   | 276,674                            | 231,445               | 45,229                   | 84                            |

NOTE: See Introduction for an explanation of terms used.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c)

miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                               | Class of products and miscellaneous receipts  | All industries | Construction machinery (SIC 3531)         | Other industries                  |                     |
|--|---|----------------|---|-----------------------------------|---------------------|
|  |   |                |   |                                   |                     |
| <b>CONSTRUCTION MACHINERY INDUSTRY</b>         |   |                |   |                                   |                     |
|  | Total shipments and receipts of the industry.....   | (X)            | 2,696,039                                 | (X)                               |                     |
|  | Primary products, total.....  | 2,624,171      | 2,332,119                                 | 292,052                           |                     |
| 35311  | Contractors' off-highway wheel tractors, except parts and attachments.....                                | 102,660        | 97,067                                    | <sup>1</sup> 5,593                |                     |
| 35312  | Tracklaying type tractors, except parts and attachments.....  | 317,352        | 298,427                                   | <sup>1</sup> 18,925               |                     |
| 35313  | Parts and attachments for tracklaying and contractors off-highway wheel tractors                          | 302,732        | 245,520                                   | <sup>2</sup> 57,212               |                     |
| 35314  | Power cranes (including locomotive, full-circle, revolving with booms) draglines, shovels, and parts..... | 464,757        | 440,646                                   | <sup>3</sup> 24,111               |                     |
| 35316  | Mixers, pavers and related equipment, excluding parts.....  | 132,020        | 114,812                                   | <sup>4</sup> 17,208               |                     |
| 35317  | Integral tractor-shovel loaders, (wheel and tracklaying types) including parts.                           | 387,988        | 365,939                                   | <sup>1</sup> 22,049               |                     |
| 35318  | Scrapers, graders, rollers, and off-highway truck, trailers, and wagons, excluding parts.....             | 479,986        | 430,604                                   | <sup>5</sup> 49,382               |                     |
| 35319  | Other construction machinery and equipment, including construction machinery parts, n.e.c.....            | 403,511        | 307,803                                   | <sup>6</sup> 95,708               |                     |
| 35310  | Construction machinery, n.s.k.....  | 33,165         | 31,301                                    | 1,864                             |                     |
|  | Secondary products, total.....  | (X)            | 229,425                                   | (X)                               |                     |
| 33230  | Steel castings.....   | (X)            | 7,969                                     | (X)                               |                     |
| 3441-  | Fabricated structural steel.....  | (X)            | 4,139                                     | (X)                               |                     |
| 3443-  | Boiler shop products.....   | (X)            | 7,711                                     | (X)                               |                     |
| 3522-  | Farm machinery and equipment.....   | (X)            | 20,204                                    | (X)                               |                     |
| 3532-  | Mining machinery and equipment.....   | (X)            | 13,446                                    | (X)                               |                     |
| 3535-  | Conveyors.....  | (X)            | 9,290                                     | (X)                               |                     |
| 35370  | Industrial trucks and tractors.....   | (X)            | 7,786                                     | (X)                               |                     |
| 3551-  | Food products machinery.....  | (X)            | 3,018                                     | (X)                               |                     |
| 3559-  | Special industry machines, n.e.c.....   | (X)            | 2,226                                     | (X)                               |                     |
| 3561-  | Pumps and compressors.....  | (X)            | 4,660                                     | (X)                               |                     |
| 3566-  | Power transmission equipment.....   | (X)            | 2,398                                     | (X)                               |                     |
| 35690  | General industry machinery, n.e.c.....  | (X)            | 2,054                                     | (X)                               |                     |
| 37130  | Truck and bus bodies.....   | (X)            | 9,258                                     | (X)                               |                     |
| 3717-  | Motor vehicles and parts.....   | (X)            | 15,359                                    | (X)                               |                     |
|  | Other secondary products.....   | (X)            | <sup>7</sup> 119,907                      | (X)                               |                     |
|  | Miscellaneous receipts, total.....  | (X)            | 134,495                                   | (X)                               |                     |
|  | Contract and commission work.....   | (X)            | 18,578                                    | (X)                               |                     |
|  | Sales of products bought and resold.....  | (X)            | 101,167                                   | (X)                               |                     |
|  | Receipts for repair work.....   | (X)            | 5,599                                     | (X)                               |                     |
|  | Receipts for installation of products.....  | (X)            | 1,455                                     | (X)                               |                     |
|  | Other miscellaneous receipts.....   | (X)            | 7,696                                     | (X)                               |                     |
|  |   | All industries | Mining machinery and equipment (SIC 3532) | Construction machinery (SIC 3531) | Other industries    |
| <b>MINING MACHINERY AND EQUIPMENT INDUSTRY</b> |   |                |   |                                   |                     |
|  | Total shipments and receipts of the industry.....   | (X)            | 417,616                                   | (X)                               | (X)                 |
|  | Primary products, total.....  | 336,213        | 274,380                                   | 13,448                            | 48,385              |
| 35321  | Underground mining machinery and related mining equipment.....  | 73,573         | 65,228                                    | 3,269                             | 5,076               |
| 35322  | Crushing, pulverizing, and screening plants stationary.....   | 58,012         | 41,244                                    | (D)                               | (D)                 |
| 35323  | All other mining machinery (complete units).....  | 39,331         | 28,271                                    | (D)                               | (D)                 |
| 35324  | Parts and attachments for mining machinery and equipment.....   | 158,014        | 132,529                                   | 5,231                             | <sup>8</sup> 20,254 |
| 35320  | Mining machinery and equipment, n.s.k.....  | 7,283          | 7,108                                     | (D)                               | (D)                 |
|  | Secondary products, total.....  | (X)            | 91,841                                    | (X)                               | (X)                 |
| 35351  | Conveyors and conveying equipment, (except hoists and farm elevators).....                                | (X)            | 5,680                                     | (X)                               | (X)                 |
| 35361  | Hoists.....   | (X)            | 3,211                                     | (X)                               | (X)                 |
|  | Other secondary products.....   | (X)            | <sup>9</sup> 82,950                       | (X)                               | (X)                 |
|  | Miscellaneous receipts, total.....  | (X)            | 51,395                                    | (X)                               | (X)                 |
|  | Contract and commission work.....   | (X)            | 5,243                                     | (X)                               | (X)                 |
|  | Sales of products bought and resold.....  | (X)            | 36,368                                    | (X)                               | (X)                 |
|  | Scrap and salable refuse.....   | (X)            | 559                                       | (X)                               | (X)                 |
|  | Other.....  | (X)            | 9,225                                     | (X)                               | (X)                 |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963—Continued

| Prod. class code                    | Class of products and miscellaneous receipts   | All industries        | Oil field machinery (SIC 3533)                   | Other industries        | Prod. class code          | Class of products and miscellaneous receipts   | All industries        | Conveyors (SIC 3535)                            | Other industries        |
|-------------------------------------|--|-----------------------|--|-------------------------|---------------------------|--|-----------------------|---|-------------------------|
| <b>OIL FIELD MACHINERY INDUSTRY</b> |  |                       |  |                         | <b>CONVEYORS INDUSTRY</b> |  |                       |   |                         |
|                                     | Total shipments and receipts of the industry.....                                      | (X)                   | 666,532  | (X)                     |                           | Total shipments and receipts of the industry.....                                    | (X)                   | 494,632   | (X)                     |
|                                     | Primary products, total.....   | 572,726               | 518,739  | 53,987                  |                           | Primary products, total.....   | 414,854               | 342,496   | 72,358                  |
| 35331                               | Rotary oil and gas field drilling machinery and equipment.....                         | 217,238               | 212,139  | 5,099                   | 35351                     | Conveyors and conveying equipment (except hoists and farm elevators).....            | 306,236               | 257,565   | <sup>15</sup> 48,671    |
| 35332                               | Other oil and gas field drilling machinery and equipment.....                          | 38,849                | 33,959   | <sup>10</sup> 4,890     | 35352                     | Parts, attachments, and accessories for conveyors and systems (sold separately)..... | 87,963                | 64,891  | <sup>16</sup> 23,072    |
| 35333                               | Oil and gas field production machinery and equipment (except pumps).....               | 261,453               | 227,875  | <sup>11</sup> 33,578    | 35350                     | Conveyors and conveying equipment (except hoists), n.s.k.....                        | 20,655                | 20,040  | 615                     |
| 35334                               | Other oil and gas field machinery and tools (except pumps), including water wells..... | 43,290                | 32,973   | <sup>4</sup> 10,317     |                           | Secondary products, total.....   | (X)                   | 77,854  | (X)                     |
| 35330                               | Oil field machinery and equipment, n.s.k.....  | 11,896                | 11,793   | 103                     | 35322                     | Crushing, pulverizing and screening plants, stationary.....                          | (X)                   | 2,558   | (X)                     |
|                                     | Secondary products, total.....   | (X)                   | 59,489   | (X)                     | 35595                     | Other special industry machinery and equipment.....                                  | (X)                   | 5,223   | (X)                     |
| 34941                               | Metal valves for piping systems (except plumbing and heating valves).....              | (X)                   | 4,868  | (X)                     | 35690                     | General industrial machinery, n.e.c.....   | (X)                   | 5,849   | (X)                     |
| 3531-                               | Construction machinery.....  | (X)                   | 5,289  | (X)                     |                           | Other secondary products.....  | (X)                   | <sup>17</sup> 64,224                            | (X)                     |
| 3561-                               | Pumps and compressors.....   | (X)                   | 11,241   | (X)                     |                           | Miscellaneous receipts, total.....   | (X)                   | 74,282  | (X)                     |
|                                     | Other secondary products.....  | (X)                   | <sup>12</sup> 38,091                             | (X)                     |                           | Contract work.....   | (X)                   | 1,598   | (X)                     |
|                                     | Miscellaneous receipts, total.....   | (X)                   | 88,304   | (X)                     |                           | Sales of products bought and resold.....   | (X)                   | 53,677  | (X)                     |
|                                     | Contract work.....   | (X)                   | 21,126   | (X)                     |                           | Receipts for installation.....   | (X)                   | 15,072  | (X)                     |
|                                     | Sales of products bought and resold.....   | (X)                   | 45,960   | (X)                     |                           | Other miscellaneous receipts.....  | (X)                   | 3,935   | (X)                     |
|                                     | Receipts for repair work.....  | (X)                   | 9,754  | (X)                     |                           |  | <b>All industries</b> | <b>Hoists, cranes, and monorails (SIC 3536)</b> | <b>Other industries</b> |
|                                     | Other miscellaneous receipts.....  | (X)                   | 11,464   | (X)                     |                           | <b>HOISTS, CRANES, AND MONORAILS INDUSTRY</b>  |                       |   |                         |
|                                     |  | <b>All industries</b> | <b>Elevators and moving stairways (SIC 3534)</b> | <b>Other industries</b> |                           | Total shipments and receipts of the industry.....                                    | (X)                   | 220,015   | (X)                     |
|                                     | <b>ELEVATORS AND MOVING STAIRWAYS INDUSTRY</b>   |                       |  |                         |                           | Primary products, total.....   | 224,183               | 157,229   | 66,954                  |
|                                     | Total shipments and receipts of the industry.....                                      | (X)                   | 318,616  | (X)                     | 35361                     | Hoists.....  | 104,978               | 64,709  | <sup>18</sup> 40,269    |
| 35340                               | Elevators and moving stairways.....  | 248,209               | 235,080  | <sup>13</sup> 13,129    | 35362                     | Overhead traveling cranes and monorail systems.....                                  | 115,701               | 89,059  | <sup>19</sup> 26,642    |
|                                     | Secondary products.....  | (X)                   | <sup>14</sup> 8,485                              | (X)                     | 35360                     | Hoists, cranes, and monorails, n.s.k.....  | 3,504                 | 3,461   | 43                      |
|                                     | Miscellaneous receipts, total.....   | (X)                   | 75,051   | (X)                     |                           | Secondary products, total.....   | (X)                   | 40,142  | (X)                     |
|                                     | Contract work.....   | (X)                   | 765  | (X)                     | 3531-                     | Construction machinery.....  | (X)                   | 6,660   | (X)                     |
|                                     | Receipts for installation.....   | (X)                   | 45,709   | (X)                     |                           | Other secondary products.....  | (X)                   | <sup>20</sup> 33,482                            | (X)                     |
|                                     | Receipts for repair work.....  | (X)                   | 20,246   | (X)                     |                           | Miscellaneous receipts, total.....   | (X)                   | 22,644  | (X)                     |
|                                     | Sales of products bought and resold.....   | (X)                   | 4,462  | (X)                     |                           | Contract work.....   | (X)                   | 1,690   | (X)                     |
|                                     | Other miscellaneous receipts.....  | (X)                   | 3,869  | (X)                     |                           | Sales of products bought and resold.....   | (X)                   | 7,338   | (X)                     |
|                                     |  |                       |  |                         |                           | Receipts for repair work.....  | (X)                   | 12,052  | (X)                     |
|                                     |  |                       |  |                         |                           | Other miscellaneous receipts.....  | (X)                   | 1,564   | (X)                     |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code | Class of products and miscellaneous receipts      | All industries | Industrial trucks and tractors (SIC 3537) | Other industries     | Prod. class code | Class of products and miscellaneous receipts      | All industries | Industrial trucks and tractors (SIC 3537) | Other industries |
|------------------|---|----------------|---|----------------------|------------------|---|----------------|---|------------------|
|                  | INDUSTRIAL TRUCKS AND TRACTORS INDUSTRY           |                |   |                      |                  | INDUSTRIAL TRUCKS AND TRACTORS INDUSTRY—Continued |                |   |                  |
|                  | Total shipments and receipts of the industry..... | (X)            | 446,957                                   | (X)                  |                  | Miscellaneous receipts, total.....                | (X)            | 33,432                                    | (X)              |
| 35370            | Industrial trucks and tractors.....               | 458,741        | 370,265                                   | <sup>2</sup> 188,476 |                  | Contract work.....                                | (X)            | 1,941                                     | (X)              |
|                  | Secondary products.....                           | (X)            | 43,260                                    | (X)                  |                  | Sales of products bought and resold.....          | (X)            | 22,981                                    | (X)              |
| 34295            | Other hardware.....                               | (X)            | 5,841                                     | (X)                  |                  | Receipts for repair work.....                     | (X)            | 4,372                                     | (X)              |
|                  | Other secondary products.....                     | (X)            | <sup>2</sup> 237,419                      | (X)                  |                  | Other miscellaneous receipts.....                 | (X)            | 4,138                                     | (X)              |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Industry 3522, Farm Machinery and Equipment, had shipments which totaled \$2 million or more but is withheld to avoid disclosing figures for individual companies.

<sup>2</sup>Includes \$11.1 million shipped by industry 3522, Farm Machinery and Equipment, and \$5.7 million by industry 3537, Industrial Trucks and Tractors. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3321, Gray Iron Foundries; 3519, Internal Combustion Engines; and 3717, Motor Vehicles and Parts.

<sup>3</sup>Includes \$8.2 million shipped by industry 3731, Ship Building and Repairing. In addition, the following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing figures for individual companies: 3717, Motor Vehicles and Parts.

<sup>4</sup>Industry 3561, Pumps and Compressors, had shipments which totaled \$2 million or more but is withheld to avoid disclosing figures for individual companies.

<sup>5</sup>Includes \$26.1 million shipped by industry 3522, Farm Machinery and Equipment, and \$13.5 million by industry 3717, Motor Vehicles and Parts. In addition, the following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing figures for individual companies: 3537, Industrial Trucks and Tractors.

<sup>6</sup>Includes \$10.9 million shipped by industry 3522, Farm Machinery and Equipment; \$31.4 million by industry 3532, Mining Machinery and Equipment; \$4 million by industry 3533, Oil Field Machinery; \$5.1 million by industry 3536, Hoists, Cranes, and Monorails; \$2.9 million by industry 3561, Pumps and Compressors; and \$5.3 million by industry 3717, Motor Vehicles and Parts. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3537, Industrial Trucks and Tractors, and 3742, Railroad and Street Cars.

<sup>7</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing figures for individual companies: 33911, Drop, upset and press steel forgings (closed die); 34336, Other heating equipment (except electric) and parts for nonelectric heating equipment; 34493, Miscellaneous metal building materials and curtain wall; 35192, Diesel and semidiesel engines; 35197, Parts and accessories for internal combustion engines; 35333, Oil and gas field production machinery and equipment (except pumps); 35334, Other oil and gas field machinery and tools (except pumps), including water wells; 35419, Parts for metal cutting type machine tools sold separately, and rebuilt machine tools; 35522, Parts and attachments for textile machinery; 35531, Woodworking machinery (except machinery designed primarily for home workshops, garages, and service shops), including parts, attachments, and accessories; and 37150, Truck trailers.

<sup>8</sup>Includes \$8 million shipped by industry 3545, Machine Tool Accessories. In addition, the following industry has shipments which totaled \$2 million or more but is withheld to avoid disclosing figures for individual companies: 3533, Oil Field Machinery.

<sup>9</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing figures for individual companies: 34814, Ferrous wire cloth and other woven ferrous wire products not produced by wire drainers; 35197, Parts and accessories for internal combustion engines; 35362, Overhead traveling cranes and monorail systems; 35513, Other industrial food products machinery, including parts and attachments for all types of industrial food products machinery; 35595, Other special industry machinery and equipment; 35663, Other mechanical power transmission equipment; 35690, General industrial machinery, n.e.c.; 36214, Prime mover generator sets, except steam or hydraulic turbine.

<sup>10</sup>Includes shipments of \$2 million by industry 3561, Pumps and Compressors. In addition, industry 3494, Valves and Pipe Fittings had shipments of \$2 million or more but is withheld to avoid disclosing figures for individual companies.

<sup>11</sup>Includes \$7.2 million shipped by industry 3561, Pumps and Compressors. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3312, Blast Furnaces and Steel Mills; 3392, Nonferrous Forgings; 3531, Construction Machinery; and 3586, Measuring and Dispensing Pumps.

<sup>12</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing figures for individual companies: 19110, Guns, howitzers, and mortars and related equipment over 30 mm (or over 1.18 inches); 35324, Parts and attachments for mining machinery; 35662, Speed changers, industrial high speed drives and gears; and 37292, Guided missile components and subassemblies, n.e.c.

<sup>13</sup>Includes shipments of over \$2 million but is withheld to avoid disclosing figures for individual companies by industry 3442, Metal Doors, Sash, and Trim.

<sup>14</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing figures for individual companies: 35690, General industrial machinery, n.e.c.; and 39492, Other sporting and athletic goods.

<sup>15</sup>Includes \$2.5 million shipped by industry 2542, Metal Partitions and Fixtures; \$8.2 million by industry 3531, Construction Machinery; \$5.7 million by industry 3532, Mining Machinery and Equipment; and \$2.1 million by industry 3551, Food Products Machinery. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3562, Ball and Roller Bearings; 3566, Power Transmission Equipment; and 3713, Truck and Bus Bodies.

<sup>16</sup>Includes \$16.6 million shipped by industry 3566, Power Transmission and Equipment.

<sup>17</sup>Includes \$2 million or more of the following product classes but are withheld to avoid disclosing figures of individual companies: 34295, Other hardware; 34411, Fabricated structural iron and steel for buildings; and 34460, Architectural and ornamental metal work (except curtain wall and other exterior panels).

<sup>18</sup>Includes \$12.1 million shipped by industry 3531, Construction Machinery; \$3.2 million by industry 3532, Mining Machinery and Equipment. In addition, the following industries shipped \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3423, Hand and Edge Tools; 3441, Fabricated Structural Steel; 3548, Metalworking Machinery, N.E.C.; and 3621, Motors and Generators.

<sup>19</sup>The following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3531, Construction Machinery, and 3532, Mining Machinery and Equipment.

<sup>20</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing figures for individual companies: 35370, Industrial trucks and tractors; 35591, Chemical manufacturing industries machinery and equipment; and 37292, Guided missile components and subassemblies, n.e.c.

<sup>21</sup>Includes \$7.8 million shipped by industry 3531, Construction Machinery, and \$25.8 million shipped by industry 3717, Motor Vehicles and Parts. In addition, the following industries shipped \$2 million or more but are withheld to avoid disclosing figures of individual companies: 3481, Fabricated Wire Products, N.E.C.; 3519, Internal Combustion Engines; 3522, Farm Machinery and Equipment; 3536, Hoists, Cranes, and Monorails; 3566, Power Transmission Equipment; and 3599, Miscellaneous Machinery.

<sup>22</sup>Includes the following product classes with shipments of \$2 million or more but are withheld to avoid disclosing figures of individual companies: 34313, Parts and attachments for tracklaying and contractors' off-highway wheel tractors; 35318, Scrapers, graders, rollers, and off-highway trucks, trailers, and wagons, excluding parts; 35319, Other construction machinery and equipment, including construction machinery parts, n.e.c.; 37130, Truck and bus bodies for sale separately (including those made on purchased chassis); and 37175, Parts and accessories for passenger cars, trucks, and buses shipped to motor vehicle manufacturers.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Total shipments including interplant transfers |                    |                               |                     |
|--------------|---|--|--------------------|-------------------------------|---------------------|
|              |   | 1963   |                    | 1958                          |                     |
|              |   | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000)  |
| 3531- --     | CONSTRUCTION MACHINERY AND EQUIPMENT, TOTAL.....  | (X)  | 2,624,171          | (X)                           | 1,996,322           |
| 35311 --     | Contractors' off-highway wheel tractors, except parts and attachments:  |  |                    |                               |                     |
|              | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 102,660            | (X)                           | 89,956              |
|              | As reported on Census Annual Form MA-35D <sup>1</sup> .....   | (X)  | 101,024            | (X)                           | 85,480              |
|              | Complete tractors:  |  |                    |                               |                     |
|              | By number of wheels: <sup>2</sup>   |  |                    |                               |                     |
|              | 2-wheel:  |  |                    |                               |                     |
| 35311 03-07  | Under 299 maximum engine hp.....  | 1,748  | 33,191             | 2,824                         | 57,828              |
| 35311 09     | 300-399 maximum engine hp.....  | 132  | 4,108              |                               |                     |
| 35311 11     | 400 maximum engine hp. and over.....  | 1,243  | 42,567             |                               |                     |
|              | 4-wheel:  |  |                    |                               |                     |
| 35311 13     | Under 125 maximum engine hp.....  | 186  | 1,615              | 1,264                         | 27,652              |
| 35311 15-21  | 125 maximum engine hp. and over.....  | 287  | 10,365             |                               |                     |
|              | By horsepower rating: <sup>2</sup>  |  |                    |                               |                     |
| 35311 03, 13 | Under 125 maximum engine hp.....  | 195  | 1,628              | 4,088                         | 85,480              |
| 35311 05, 15 | 125-199 maximum engine hp.....  | 751  | 13,595             |                               |                     |
| 35311 07, 17 | 200-299 maximum engine hp.....  | 1,086  | 22,326             |                               |                     |
| 35311 09, 19 | 300-399 maximum engine hp.....  | 140  | 4,396              |                               |                     |
| 35311 11, 21 | 400 maximum engine hp. and over.....  | 1,424  | 49,901             |                               |                     |
| 35311 31     | Rubber tired dozers (125 maximum engine hp. and over) <sup>3</sup> .....  | 254  | 9,178              | (NA)                          | (NA)                |
| 35312 --     | Tracklaying type tractors, except parts and attachments: <sup>4</sup>   |  |                    |                               |                     |
|              | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 317,352            | (X)                           | 287,300             |
|              | As reported on Census Annual Form MA-35T <sup>1</sup> .....   | (X)  | 314,075            | (X)                           | 266,570             |
|              | 20-44 net engine hp.....  | 4,627  | 14,919             | 28,450                        | 266,570             |
|              | 45-59 net engine hp.....  | 1,974  | 9,988              |                               |                     |
|              | 60-89 net engine hp.....  | 3,337  | 26,552             |                               |                     |
|              | 90-129 net engine hp.....   | 4,748  | 62,650             |                               |                     |
|              | 130-199 net engine hp.....  | 3,370  | 65,320             |                               |                     |
|              | 200-299 net engine hp.....  | 4,511  | 98,949             |                               |                     |
|              | 300 net engine hp. and over.....  | 906  | 35,697             |                               |                     |
| 35313 --     | Parts and attachments for tracklaying and contractors' off-highway wheel tractors, total.....                   | (X)  | 302,732            | (X)                           | 272,072             |
| 35313 13     | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 216,950            | (X)                           | (NA)                |
|              | As reported on Census Form MA-35T <sup>1</sup> .....  | (X)  | 216,916            | (X)                           | 223,403             |
|              | Attachments.....  | (X)  | 12,207             | (X)                           | 23,759              |
|              | Parts.....  | (X)  | 204,709            | (X)                           | 199,644             |
| 35313 61     | Parts sold to other plants producing tracklaying tractors and contractors' off-highway type wheel tractors..... | (X)  | 48,175             | (X)                           | 26,319              |
| 35313 65     | Parts (for replacement and repair) and attachments for contractors' off-highway type wheel tractors:            |  |                    |                               |                     |
|              | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 37,607             | (X)                           | (NA)                |
|              | As reported on Census Form M35D or MA-35D <sup>1</sup> .....  | (X)  | (S)                | (X)                           | 35,360              |
|              | Attachments.....  | (X)  | (S)                | (X)                           | 2,595               |
|              | Parts.....  | (X)  | (S)                | (X)                           | 32,765              |
| 35314 --     | Power cranes (including locomotive, full circle, revolving with booms), draglines, shovels and parts.....       | (X)  | 464,757            | (X)                           | 361,068             |
| 35314 11     | Cranes (except construction power cranes), locomotive, full circle revolving with booms, and other types:       |  |                    |                               |                     |
|              | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 20,928             | (X)                           | (NA)                |
|              | As reported on Census Form M35D or MA-35D <sup>1</sup> .....  | 453  | 19,187             | (X)                           | <sup>5</sup> 23,982 |
| 35314 03     | Locomotive (except wrecking).....   | 47   | 3,662              | 36                            | 2,656               |
| 35314 05     | Full circle revolving with booms (such as whirleys and hammerheads)   | 156  | 8,757              | (X)                           | ( <sup>5</sup> )    |
| 35314 07     | Other cranes, including locomotive wrecking.....  | 250  | 6,768              | (X)                           | ( <sup>5</sup> )    |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code     | Product   | Total shipments including interplant transfers |                    |                               |                    |
|------------------|---|--|--------------------|-------------------------------|--------------------|
|                  |   | 1963   |                    | 1958                          |                    |
|                  |   | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 3531- --         | CONSTRUCTION MACHINERY AND EQUIPMENT—Continued  |  |                    |                               |                    |
| 35314 --         | Power cranes (including locomotive, full circle, revolving with booms) dragline, shovels and parts—Continued            |  |                    |                               |                    |
|                  | Power cranes, draglines and shovels, including mine shovels, but not including equipment for mounting on tractors:      |  |                    |                               |                    |
| 35314 21         | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 307,273            | (X)                           | (NA)               |
|                  | As reported on Census Form M35D or MA-35D <sup>1</sup> .....  | (X)  | 289,281            | (X)                           | 216,458            |
|                  | Crawler mounted, rated shovel capacity:   |  |                    |                               |                    |
| 35314 11, 13, 15 | Under 3/4 cubic yard.....   | 412  | 7,155              | 2,273                         | 41,830             |
| 35314 17         | 3/4 cubic yard.....   | 714  | 18,794             |                               |                    |
| 35314 18         | 1 cubic yard.....   | 507  | 18,203             | 708                           | 22,456             |
| 35314 19         | 1-1/4 cubic yards.....  | 171  | 7,183              | 70                            | 2,532              |
| 35314 20         | 1-1/2 cubic yards.....  | 230  | 12,282             | 309                           | 13,922             |
| 35314 22         | 1-3/4 cubic yards.....  | 22   | 1,559              | 45                            | 2,078              |
| 35314 24         | 2 cubic yards.....  |  |                    | 67                            | 3,451              |
| 35314 25         | 2-1/2 cubic yards.....  | 180  | 13,918             | 269                           | 18,914             |
| 35314 27         | Over 2-1/2 cubic yards up to and including 5-1/2 cubic yards.....   | 309  | 40,328             | 307                           | 41,231             |
| 35314 28         | Over 5-1/2 cubic yards up to and including 10 cubic yards.....  | 50   | 15,492             |                               |                    |
| 35314 29         | Over 10 cubic yards.....  | 18   | 18,580             |                               |                    |
|                  | Rubber tired cranes (truck or wheel mounted), maximum working load:   |  |                    |                               |                    |
| 35314 32         | Up to and including 10 tons.....  | 1,577  | 14,316             | 1,224                         | 10,220             |
| 35314 34         | Over 10 up to and including 15 tons.....  | 1,050  | 21,552             | 313                           | 7,333              |
| 35314 36         | Over 15 up to and including 20 tons.....  | 156  | 4,325              | 516                           | 18,622             |
| 35314 38         | Over 20 up to and including 25 tons.....  | 255  | 8,484              | 200                           | 7,062              |
| 35314 40         | Over 25 up to and including 30 tons.....  | 256  | 10,531             | 78                            | 3,502              |
| 35314 42         | Over 30 up to and including 35 tons.....  | 178  | 8,870              | 154                           | 8,176              |
| 35314 44         | Over 35 up to and including 45 tons.....  | 182  | 11,090             | 52                            | 2,890              |
| 35314 46         | Over 45 up to and including 60 tons.....  | 167  | 11,835             | 18                            | 1,487              |
| 35314 48, 50     | Over 60 tons.....   | 156  | 16,240             |                               |                    |
| 35314 51         | Walking draglines and walking cranes.....   | 20   | 28,544             | 22                            | 10,752             |
| 35314 81         | Front end attachments, buckets, grapples, slings, etc., for power cranes, draglines, and shovels (sold separately)..... | (X)  | 15,129             | (X)                           | 18,486             |
| 35314 85         | Parts for power cranes, draglines, and shovels.....   | (X)  | 116,801            | (X)                           | 95,391             |
| 35314 00         | Power cranes, draglines, and shovels and parts, n.s.k.....  | (X)  | 4,626              | (X)                           | -                  |
| 35316 --         | Mixers, pavers, and related equipment, excluding parts, total.....  | (X)  | 132,020            | (X)                           | 101,908            |
|                  | Concrete:   |  |                    |                               |                    |
| 35316 12         | Mixers, portable under 3-1/2 cubic feet capacity (except plaster and mortar), hand or power operated.....               | 23,569   | 1,347              | 18,680                        | 1,403              |
|                  | Mixers, portable, 3-1/2 cubic feet and over (except plaster and mortar):  |  |                    |                               |                    |
| 35316 22         | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 32,477             | (X)                           | (X)                |
|                  | As reported on Census Form M35D or MA-35D <sup>1</sup> .....  | (X)  | 33,053             | (X)                           | 32,552             |
| 35316 31         | Truck mixer or agitator.....  | 4,944  | 24,951             | 5,740                         | 24,071             |
| 35316 35         | Other.....  | 11,299   | 8,102              | 11,638                        | 8,481              |
| 35316 31         | Mixers, plaster and mortar.....   | 10,183   | 4,666              | 7,364                         | 3,234              |
| 35316 34         | Pavers, finishers and spreaders.....  | 10,162   | 19,913             | 1,510                         | 8,451              |
|                  | Batching plants, bin and batch (for concrete aggregate only and bulk cement):   |  |                    |                               |                    |
| 35316 37         | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 17,594             | (X)                           | (NA)               |
|                  | As reported on Census Form M35D or MA-35D <sup>1</sup> .....  | 940  | 16,041             | 1,086                         | 15,025             |
| 35316 39         | Concrete vibrators.....   | 22,287   | 4,595              | (NA)                          | 2,858              |
|                  | Bituminous distributors, asphalt plants and other equipment:  |  |                    |                               |                    |
| 35316 40         | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 39,030             | (X)                           | (NA)               |
|                  | As reported on Census Form M35D or MA-35D <sup>1</sup> .....  | (X)  | 38,683             | (X)                           | 43,494             |
| 35316 41         | Distributors.....   | 942  | 5,757              | 785                           | 3,403              |
|                  | Bituminous asphalt plants:  |  |                    |                               |                    |
| 35316 42         | Travel mix-type.....  | 32   | 517                | (NA)                          | (NA)               |
|                  | Central mixing plants (batch-type and continuous-type) (t.p.h. = tons per hour), total.....                             | 282  | 23,688             | 431                           | 35,778             |
| 35316 43         | Less than 2,000 pound batch (less than 60 t.p.h.).....  | 88   | 1,498              |                               |                    |
| 35316 44         | 2,000 pound-3,500 pound batch (60-119 t.p.h.).....  | 42   | 2,773              |                               |                    |
| 35316 46         | 4,000 pound-5,500 pound batch (120-179 t.p.h.).....   | 82   | 9,300              |                               |                    |
| 35316 48         | 6,000 pound batch and over (180 t.p.h. and over).....   | 70   | 10,117             |                               |                    |
| 35316 49         | Other (including portable mixers, heating kettles, heaters and circulators).....  | 3,185  | 8,721              | 3,305                         | 4,313              |
| 35316 52         | Other materials-aggregate spreaders and soil stabilization pavers.....  | 5,327  | 7,807              | 5,793                         | 4,364              |
| 35316 00         | Mixers, pavers and related equipment, n.s.k.....  | (X)  | 4,591              | (X)                           | 3,767              |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Total shipments including interplant transfers |                    |                               |                    |
|--------------|---|--|--------------------|-------------------------------|--------------------|
|              |   | 1963   |                    | 1958                          |                    |
|              |   | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 3531- --     | CONSTRUCTION MACHINERY AND EQUIPMENT—Continued  |  |                    |                               |                    |
| 35317 --     | Tractor-shovel loaders, total.....  | (X)  | 387,988            | (X)                           | 6142,890           |
|              | Wheel type:   |  |                    |                               |                    |
| 35317 10     | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 152,079            | (X)                           | (NA)               |
|              | As reported on Census Form M35D or MA-35D <sup>1</sup> .....  | (X)  | 153,310            | (X)                           | 69,977             |
|              | 4-wheel drive:  |  |                    |                               |                    |
| 35317 04     | 1 cubic yard and under 1-1/2 cubic yards.....   | 2,542  | 21,446             | 6,657                         | 69,977             |
| 35317 05     | 1-1/2 cubic yards and under 2 cubic yards.....  | 2,651  | 31,562             |                               |                    |
| 35317 06     | 2 cubic yards and under 2-1/2 cubic yards.....  | 1,657  | 26,139             |                               |                    |
| 35317 07     | 2-1/2 cubic yards and under 3-1/2 cubic yards.....  | 2,241  | 41,709             |                               |                    |
| 35317 08     | 3-1/2 cubic yards and under 5 cubic yards.....  | 447  | 10,775             |                               |                    |
| 35317 09     | 5 cubic yards and over.....   | 288  | 10,421             |                               |                    |
| 35317 10, 12 | 2-wheel drive (all bucket capacities).....  | 2,354  | 11,258             |                               |                    |
|              | Tracklaying type, 20 net engine hp. and over (including parts and attachments):   |  |                    |                               |                    |
| 35317 20     | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 217,664            | (X)                           | (NA)               |
|              | As reported on Census Form MA-35T <sup>1</sup> .....  | (X)  | 214,777            | (X)                           | (NA)               |
|              | Complete tractors, total.....   | 11,503   | 140,155            | 7,741                         | 87,912             |
| 35317 11     | 20-44 net engine hp.....  | 2,162  | 9,555              | 7,741                         | 87,912             |
| 35317 13     | 45-59 net engine hp.....  | 2,733  | 22,511             |                               |                    |
| 35317 15     | 60-89 net engine hp.....  | 1,626  | 19,533             |                               |                    |
| 35317 17     | 90-129 net engine hp.....   | 3,415  | 53,663             |                               |                    |
| 35317 19, 21 | 130-299 net engine hp.....  | 1,567  | 34,893             |                               |                    |
|              | Attachments and parts, total.....   | (X)  | 74,622             | (X)                           | ( <sup>6</sup> )   |
| 35317 51     | Attachments.....  | (X)  | 5,005              | (X)                           | ( <sup>6</sup> )   |
| 35317 61     | Parts.....  | (X)  | 69,617             | (X)                           | ( <sup>6</sup> )   |
| 35317 95     | Parts and attachments for wheel-type tractor shovel loaders.....  | (X)  | 18,245             | (X)                           | ( <sup>6</sup> )   |
| 35318 --     | Scrapers, graders, compactors, rollers, and off-highway trucks, trailers, and wagons, and equipment for mounting on tracklaying or heavy duty wheel type tractors, excluding parts: |  |                    |                               |                    |
|              | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 479,986            | (X)                           | 326,002            |
|              | As reported on Census Form M35D or MA-35D <sup>1</sup> .....  | (X)  | 450,999            | (X)                           | (NA)               |
|              | Scrapers, dig, carrying, and hauling (2- and 4-wheel) standard struck capacity: <sup>7</sup>  |  |                    |                               |                    |
| 35318 12     | Under 7 cubic yards.....  | 746  | 732                | ( <sup>5</sup> )              | ( <sup>5</sup> )   |
| 35318 13     | 7 cubic yards and under 12 cubic yards.....   | 1,615  | 10,934             | 1,182                         | 7,242              |
| 35318 14     | 12 cubic yards and under 18 cubic yards.....  | 970  | 14,298             | 1,206                         | 12,045             |
| 35318 15     | 18 cubic yards and under 30 cubic yards.....  | 1,275  | 25,155             | 1,582                         | 26,949             |
| 35318 16     | 30 cubic yards and over.....  | 351  | 12,160             |                               |                    |
|              | Motor graders and light maintainers, total.....   | 7,771  | 102,459            | 6,852                         | 82,016             |
| 35318 22, 23 | Under 75 brake hp.....  | 1,131  | 5,657              | 1,049                         | 5,375              |
| 35318 24     | 75-114 brake hp.....  | 879  | 10,496             | 944                           | 10,836             |
| 35318 25     | 115-144 brake hp.....   | 4,854  | 68,968             | 4,859                         | 65,805             |
| 35318 26     | 145 brake hp. and over.....   | 907  | 17,338             |                               |                    |
|              | Rollers, self-propelled type:   |  |                    |                               |                    |
|              | Steel wheeled:  |  |                    |                               |                    |
| 35318 32, 33 | 3-wheeled and segmented.....  | 405  | 3,961              |                               |                    |
|              | Tandem, 2- and 3-axle:  |  |                    |                               |                    |
| 35318 34     | Under 3 tons.....   | 975  | 1,143              |                               |                    |
| 35318 35     | 3 tons to and including 4-1/2 tons.....   | 523  | 2,134              |                               |                    |
| 35318 36     | Above 4-1/2 tons to and including 7-1/2 tons.....   | 450  | 2,344              |                               |                    |
| 35318 37     | Above 7-1/2 tons.....   | 447  | 3,162              |                               |                    |
| 35318 38     | Pneumatic tire.....   | 1,041  | 8,806              |                               |                    |
| 35318 39     | Sheepsfoot.....   | 95   | 2,328              |                               |                    |
| 35318 41     | All other types, vibratory, trench, etc.....  | 768  | 3,212              | 9,299                         | 32,292             |
|              | Rollers, towed:   |  |                    |                               |                    |
| 35318 42     | Pneumatic tire (including vibratory).....   | 344  | 873                |                               |                    |
|              | Sheepsfoot and bar type:  |  |                    |                               |                    |
| 35318 43     | 50" drum diameter and under.....  | 325  | 595                |                               |                    |
| 35318 44     | Above 50" drum diameter.....  | 286  | 1,320              |                               |                    |
| 35318 45, 46 | Vibratory, single steel drum.....   | 444  | 2,793              |                               |                    |
| 35318 47, 48 | Vibratory compactors, other than rollers.....   | 326  | 997                |                               |                    |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code     | Product   | Total shipments including interplant transfers |                    |                               |                    |
|------------------|---|--|--------------------|-------------------------------|--------------------|
|                  |   | 1963   |                    | 1958                          |                    |
|                  |   | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 3531- --         | CONSTRUCTION MACHINERY AND EQUIPMENT—Continued  |  |                    |                               |                    |
| 35318 --         | Scrapers, graders, compactors, rollers, and off-highway trucks, trailers, and wagons, and equipment for mounting on tracklaying heavy duty wheel type tractors, excluding parts—Continued |  |                    |                               |                    |
|                  | Off-highway equipment: <sup>8</sup>   |  |                    |                               |                    |
|                  | Off-highway rear dump earth, rock and ore load on back haulers:   |  |                    |                               |                    |
| 35318 56         | Under 20 tons capacity.....   | 232  | 4,929              | 1,706                         | 39,068             |
| 35318 57         | 20 tons to and including 30 tons capacity.....  | 557  | 20,096             |                               |                    |
| 35318 58         | Over 30 tons capacity.....  | 545  | 33,738             |                               |                    |
|                  | Truck-tractor type haulers and all other trucks:  |  |                    |                               |                    |
| 35318 61, 63     | Under 60,000 pounds gross vehicle weight.....   | 969  | 19,866             | (5)                           | (5)                |
| 35318 62, 64     | 60,000 pounds and over gross vehicle weight.....  | 1,141  | 18,585             |                               |                    |
|                  | Off-highway trailers and wagons (end, side, and bottom dump):   |  |                    |                               |                    |
| 35318 66         | Under 12 cubic yards standard struck capacity.....  | 90   | 775                | 424                           | 5,161              |
| 35318 67         | 12 and up to 18 cubic yards standard struck capacity.....   |  |                    |                               |                    |
| 35318 68         | 18 cubic yards standard struck capacity and over.....   | 241  | 6,449              |                               |                    |
|                  | Construction machinery for mounting on tractors:  |  |                    |                               |                    |
| 35318 71, 72, 73 | Sidebooms or pipehandlers (all sizes).....  | 812  | 2,793              | 450                           | 2,457              |
|                  | Dozers (6' blade length and over):  |  |                    |                               |                    |
|                  | Hydraulically operated:   |  |                    |                               |                    |
| 35318 74         | For wheel tractors.....   | 328  | 950                | 551                           | 559                |
| 35318 75         | For crawler tractors.....   | 13,503   | 26,329             | 11,766                        | 16,347             |
| 35318 76, 77     | Cable operated.....   | 4,300  | 11,842             | 6,297                         | 14,570             |
| 35318 79         | Backhoes for wheel or tracklaying tractors, including shovel loaders  | 15,922   | 32,202             | 10,031                        | 18,873             |
| 35318 81         | All other backhoes.....   | 1,115  | 8,866              |                               |                    |
| 35318 82         | Front-end loaders (3/8 cubic yards and over) <sup>9</sup> .....   | 28,877   | 30,347             |                               |                    |
| 35318 83         | Logging arches.....   | 145  | 740                | (5)                           | 200                |
| 35318 84         | Cranes.....   |  |                    |                               |                    |
| 35318 85         | Cable power control units.....  | 4,281  | 7,881              | 17,173                        | 18,220             |
| 35318 87         | Hydraulic power control units.....  | 12,675   | 12,966             |                               |                    |
| 35318 86         | Rippers and rooters, heavy-rear mounted.....  | 5,980  | 11,198             |                               |                    |
| 35318 88, 89     | Continuous ditching and trenching attachments for mounting on tractors, shovel loaders, or other prime movers.....  | 349  | 1,041              | (NA)                          | (NA)               |
| 35319 --         | Other construction machinery and equipment, including construction machinery parts, n.e.c., total.....  | (X)  | 403,511            | (X)                           | 368,091            |
|                  | Excavating and road construction and maintenance machinery, except shovels and cranes:  |  |                    |                               |                    |
| 35319 11         | Dredging machinery, hydraulic and other types.....  | (X)  | 14,186             | (X)                           | 10,668             |
|                  | Self-propelled ditchers and trenchers, including ladder and wheel types:  |  |                    |                               |                    |
| 35319 15         | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 16,849             | (X)                           | (NA)               |
|                  | As reported on Census Form M35D or MA-35D <sup>1</sup> .....  | 4,410  | 16,811             | 1,486                         | 8,155              |
|                  | Ladder type:  |  |                    |                               |                    |
| 35319 16         | Under 5,000 pounds gross weight.....  | 3,761  | 6,503              | 1,210                         | 4,019              |
| 35319 17         | 5,000 pounds gross weight and over.....   | 290  | 4,000              |                               |                    |
| 35319 18         | Wheel type.....   | 359  | 6,308              | 286                           | 4,136              |
| 35319 21         | Railway maintenance of way equipment (rail layers, ballast spreaders, etc.), except rail cars.....  | (X)  | 22,459             | (X)                           | 19,965             |
|                  | Water well and blast hole drills, portable churn-drill type:  |  |                    |                               |                    |
| 35319 27         | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 20,417             | (X)                           | (NA)               |
|                  | As reported on Census Form M35D or MA-35D <sup>1</sup> .....  | 591  | 16,671             | (X)                           | (5)                |
| 35319 28         | Churn-drill type.....   | 229  | 2,480              | (5)                           | (5)                |
| 35319 29         | Rotary-drill type.....  | 362  | 14,191             |                               |                    |
| 35319 31         | Pulverizers and grinders, portable.....   | 139  | 1,738              | 157                           | 3,469              |
| 35319 52         | Winches, except winches for mounting on wheel or tracklaying tractors.....  | 36,464   | 22,522             | 26,334                        | 17,108             |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code             | Product   | Total shipments including interplant transfers |                    |                               |                    |     |       |
|--------------------------|---|--|--------------------|-------------------------------|--------------------|-----|-------|
|                          |   | 1963   |                    | 1958                          |                    |     |       |
|                          |   | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |     |       |
| 3531- --                 | CONSTRUCTION MACHINERY AND EQUIPMENT—Continued  |  |                    |                               |                    |     |       |
| 35319 --                 | Other construction machinery and equipment, including construction machinery parts, n.e.c.—Continued  |  |                    |                               |                    |     |       |
|                          | Excavating and road construction and maintenance machinery, except shovels and cranes—Continued   |  |                    |                               |                    |     |       |
|                          | Winches (towing, logging and oil-field types) for mounting on wheel or tracklaying tractors:  |  |                    |                               |                    |     |       |
| 35319 55                 | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 20,024             | (X)                           | (NA)               |     |       |
|                          | As reported on Census Form M35D or MA-35D <sup>1</sup> .....  | 8,613  | 19,285             | (X)                           | ( <sup>5</sup> )   |     |       |
| 35319 71                 | Derricks, except oil and gas well (including gallows, frames, ginpole, stiff legs, and guy).....  | 897  | 3,812              | 708                           | 919                |     |       |
|                          | Portable crushing plants, screening plants, washing plants, and combination plants:   |  |                    |                               |                    |     |       |
| 35319 75                 | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 23,138             | (X)                           | (NA)               |     |       |
|                          | As reported on Census Form M35D or MA-35D <sup>1</sup> .....  | 987  | 23,679             | 1,201                         | 29,129             |     |       |
| 35319 76                 | Under 50 tons per hour.....   | 365  | 2,627              | 1,201                         | 29,129             |     |       |
| 35319 77                 | 50 tons per hour and over.....  | 622  | 21,052             |                               |                    |     |       |
| 35319 81                 | Snow plows (for mounting on tractors or trucks) rotary, blowers, "V" and single blades and wings (attachments only).....  | (X)  | 25,085             | 22,157                        | 10,337             |     |       |
| 35319 83                 | Other excavating and road construction machinery, including earth augers and power post-hole diggers drawn ditchers and trenchers, contractors' hand-held air tools, motor pick-up sweepers, graders (other than motor graders), drawn rollers as well as other types of excavating and earth moving equipment not specified above..... | (X)  | 41,360             | (X)                           | 39,370             |     |       |
| 35319 85                 | Parts and attachments for construction machinery and equipment (sold separately) (except parts and attachments for power cranes, draglines and shovels).....  | (X)  | 144,135            | (X)                           | 183,119            |     |       |
| 35319 98                 | All other construction machinery and equipment.....   | (X)  | 43,275             | (X)                           | 30,938             |     |       |
| 35319 00                 | Other construction machinery and equipment, n.s.k.....  | (X)  | 4,511              | (X)                           | 4,458              |     |       |
| 35310 00                 | Construction machinery and equipment, n.s.k.....  | (X)  | 33,165             | (X)                           | 32,036             |     |       |
| 3532- --                 | MINING MACHINERY AND EQUIPMENT, TOTAL.....  | (X)  | 336,213            | (X)                           | 275,289            |     |       |
| 35321 --                 | Underground mining machinery and related mining equipment:  |  |                    |                               |                    |     |       |
|                          | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 73,573             | (X)                           | 64,667             |     |       |
|                          | As reported on Census Form MA-35F, total <sup>1</sup> .....   | (X)  | 71,501             | (X)                           | (X)                |     |       |
| 35321 13, 15             | Cutting machines.....   | 68   | 3,257              | 123                           | 5,663              |     |       |
| 35321 47                 |   |  |                    |                               |                    |     |       |
|                          | Coal recovery augers.....   | 28   | 2,238              |                               |                    |     |       |
|                          | Loading machines (underground mine):  |  |                    |                               |                    |     |       |
| 35321 33                 | Gathering arm type.....   | 127  | 4,386              | 609                           | 9,210              |     |       |
| 35321 35                 | Shovel type.....  | 449  | 3,915              |                               |                    |     |       |
| 35321 37                 | Slusher hoists (scraper loaders).....   |  |                    |                               |                    |     |       |
|                          | Continuous mining machines:   |  |                    |                               |                    |     |       |
| 35321 43                 | Borer type (including underground augering machines).....   | 158  | 16,714             | 116                           | 10,736             |     |       |
| 35321 45                 | Ripper type (including milling type).....   |  |                    |                               |                    |     |       |
| 35321 73                 | Shuttle cars—rubber tired, self-propelled.....  | 316  | 9,011              | (NA)                          | 8,547              |     |       |
| 35321 75                 | Mine cars, track.....   | 2,816  | 5,020              | (NA)                          | 6,401              |     |       |
|                          | Mineral classifying, flotation, separating, concentrating, cleaning, clarifying and related equipment:  |  |                    |                               |                    |     |       |
| 35321 52                 | Flotation machines (quantity represents number of cells).....   | 1,697  | 2,335              | (X)                           | 19,223             |     |       |
| 35321 54                 | Jigs.....   | 19   | 641                |                               |                    |     |       |
| 35321 55                 | Concentrating tables.....   | 183  | 726                |                               |                    |     |       |
| 35321 56                 | Classifiers—sizing, washing, and dewatering (excluding cyclones).....   | 799  | 6,289              |                               |                    |     |       |
| 35321 57                 | Wet cyclones (including heavy medium cyclones).....   | 741  | 679                |                               |                    |     |       |
| 35321 59                 | Centrifugal driers.....   | 123  | 3,250              |                               |                    |     |       |
| 35321 61                 | Scrubbers (all types, including drums, log washers, attritioning machines, etc.).....   | 107  | 3,306              |                               |                    |     |       |
| 35321 62                 | Thermal dryers.....   | 12   | 1,414              |                               |                    |     |       |
| 35321 66                 | Feeders—apron, vibrating, and reciprocating.....  | 1,193  | 3,954              |                               |                    |     |       |
| 35321 67                 | Magnetic separators (quantity represents number of drums).....  | 253  | 1,596              |                               |                    |     |       |
| 35321 53, 58, 63, 64, 65 | Other mineral classifying, flotation, separating, concentrating, cleaning, clarifying, and related equipment.....   | (X)  | 102,770            |                               |                    |     |       |
| 35321 00                 | Underground mining machinery, n.s.k.....  | (X)  | -                  |                               |                    | (X) | 4,887 |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Total shipments including interplant transfers |                    |                               |                    |
|--------------|--|--|--------------------|-------------------------------|--------------------|
|              |  | 1963   |                    | 1958                          |                    |
|              |  | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 3532- --     | MINING MACHINERY AND EQUIPMENT—Continued   |  |                    |                               |                    |
| 35322 --     | Crushing, pulverizing, and screening machinery (stationary):                                       |  |                    |                               |                    |
|              | As reported in the census of manufactures <sup>1</sup> .....                                       | (X)  | 58,012             | (X)                           | 67,818             |
|              | As reported on Census Form MA-35F, total <sup>1</sup> .....  | (X)  | 54,578             | (X)                           | (X)                |
|              | Crushers (including crushers on skids):  |  |                    |                               |                    |
| 35322 11     | Gyratory.....  | 471  | 12,750             | } 112,114                     | } 1134,504         |
| 35322 13     | Impact.....  | 477  | 4,740              |                               |                    |
| 35322 17     | Jaw.....   | 264  | 3,046              |                               |                    |
| 35322 19     | Roll.....  | 245  | 3,579              |                               |                    |
|              | Grinding mills:  |  |                    |                               |                    |
| 35322 33     | Ball (including pebble mills).....   | 249  | 12,466             | } 12585                       | } 1210,727         |
| 35322 37     | Rod.....   | 17   | 1,278              |                               |                    |
| 35322 55     | Screens—vibrating, trommell, mine type.....  | 3,662  | 16,719             | (NA)                          | 1321,464           |
| 35322 00     | Crushing, pulverizing, and screening plants, n.s.k.....  | (X)  | -                  | (X)                           | 1,123              |
| 35323 --     | All other mining machinery and equipment:  |  |                    |                               |                    |
|              | As reported in the census of manufactures <sup>1</sup> .....                                       | (X)  | 39,331             | (X)                           | 22,287             |
|              | As reported on Census Form MA-35F, total <sup>1</sup> .....  | (X)  | 38,446             | (X)                           | (X)                |
|              | Drills:  |  |                    |                               |                    |
| 35323 23     | Rock drills (percussion type).....   | 10,359   | 11,776             | 6,654                         | 3,874              |
| 35323 13     | Core drills for mineral exploration.....   | 546  | 3,569              | (NA)                          | 984                |
|              | Rotary drills:   |  |                    |                               |                    |
| 35323 43     | Underground (coal and roof).....   | 137  | 2,014              | } (X)                         | } 16,904           |
| 35323 45     | Surface (blast hole).....  | 133  | 5,453              |                               |                    |
| 35323 98     | Other mining machinery and equipment (complete units).....   | (X)  | 15,634             | (X)                           | 525                |
| 35323 00     | All other mining machinery and equipment, n.s.k.....   | (X)  | -                  | (X)                           | -                  |
| 35324 --     | Parts and attachments for mining machinery and equipment, total.....                               | (X)  | 158,014            | (X)                           | 120,517            |
| 35324 25     | Construction rock drills, portable, hand held or mounted.....                                      | 4,794  | 4,868              | 12,786                        | 9,669              |
|              | Percussion rock drill bits:  |  |                    |                               |                    |
| 35324 31     | Containing tungsten carbide.....   | (X)  | 12,982             | (X)                           | 12,155             |
| 35324 35     | Made entirely of steel.....  | (X)  | 2,355              | (X)                           | 2,225              |
| 35324 41     | Other drills, tools and supplies for drills (sold separately).....                                 | (X)  | 16,167             | (X)                           | 22,743             |
| 35324 75     | Other parts and attachments for mining machinery and equipment (sold separately).....              | (X)  | 121,069            | (X)                           | 71,749             |
| 35324 00     | Parts and attachments for mining machinery and equipment, n.s.k.....                               | (X)  | 573                | (X)                           | 1,976              |
| 35320 00     | Mining machinery and equipment, n.s.k.....   | (X)  | 7,283              | (X)                           | -                  |
| 3533- --     | OIL FIELD MACHINERY AND EQUIPMENT, TOTAL.....  | (X)  | 572,726            | (X)                           | 496,149            |
| 35331 --     | Rotary oil and gas field drilling machinery and equipment, total.....                              | (X)  | 217,238            | (X)                           | 222,014            |
|              | Rotary drilling surface equipment:   |  |                    |                               |                    |
| 35331 11     | Blocks, crown and traveling.....   | 355  | 1,801              | (NA)                          | 1,616              |
| 35331 12     | Draw works and accessories.....  | 92   | 8,367              | 165                           | 14,904             |
| 35331 14     | Rotary tables.....   | 145  | 962                | 208                           | 1,430              |
| 35331 15     | Elevators, spiders, slips, hooks, links, and connectors.....                                       | (X)  | 6,870              | (X)                           | 4,385              |
| 35331 16     | Swivels and accessories.....   | (X)  | 1,566              | (X)                           | 1,447              |
| 35331 17     | Well control equipment (blow-out preventers, etc.).....  | (X)  | 10,565             | (X)                           | 10,852             |
| 35331 19     | Other rotary drilling surface machinery and equipment.....   | (X)  | 23,490             | (X)                           | 11,768             |
|              | Rotary drilling subsurface equipment:  |  |                    |                               |                    |
| 35331 41     | Bits.....  | 651,969  | 110,564            | (NA)                          | 123,482            |
| 35331 42     | Reamers.....   | (X)  | 5,953              | (X)                           | 6,456              |
| 35331 43     | Coring equipment.....  | (X)  | 1,153              | (X)                           | 4,658              |
| 35331 44     | Tool joints, subs, and connectors.....   | (X)  | 17,925             | (X)                           | 17,913             |
| 35331 45     | Drill collars.....   | 11,707   | 8,136              | 10,325                        | 9,169              |
| 35331 47     | Fishing and cutting tools.....   | (X)  | 6,374              | (X)                           | 7,025              |
| 35331 49     | Other subsurface rotary driving equipment, including Kelly joints....                              | (X)  | 12,348             | (X)                           | 5,804              |
| 35331 00     | Rotary oil and gas field drilling machinery and equipment, n.s.k.....                              | (X)  | 1,164              | (X)                           | 1,105              |
| 35332 --     | Other oil and gas field drilling machinery and equipment, total.....                               | (X)  | 38,849             | (X)                           | 43,365             |
| 35332 31     | Cable tool drilling machinery and equipment (including both surface and subsurface equipment)..... | (X)  | 2,855              | (X)                           | 4,972              |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Total shipments including interplant transfers |                    |                               |                    |
|--------------|--|--|--------------------|-------------------------------|--------------------|
|              |  | 1963   |                    | 1958                          |                    |
|              |  | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 3533- --     | OIL FIELD MACHINERY AND EQUIPMENT—Continued  |  |                    |                               |                    |
| 35332 --     | Other oil and gas field drilling machinery and equipment—Continued   |  |                    |                               |                    |
|              | Cementing, floating, guiding, and shoe equipment:  |  |                    |                               |                    |
| 35332 51     | Guide shoes, float collars, and combination guide and float shoes...   | (X)  | 6,831              | (X)                           | 5,621              |
| 35332 55     | Other cementing equipment.....   | (X)  | 6,969              | (X)                           | 18,873             |
| 35332 61     | Parts for oil and gas field drilling equipment sold separately (except parts for portable drilling rigs).....  | (X)  | 18,231             | (X)                           | 13,546             |
| 35332 98     | Other oil and gas field drilling equipment, except portable.....   | (X)  | 3,963              | (X)                           | 353                |
| 35333 --     | Oil and gas field production machinery and equipment (except pumps), total.....  | (X)  | 261,453            | (X)                           | 175,453            |
|              | Flowing well equipment, surface and subsurface:  |  |                    |                               |                    |
| 35333 11     | Christmas tree assemblies.....   | (X)  | 14,966             | (X)                           | 16,102             |
| 35333 13     | Casing and tubing heads and supports.....  | (X)  | 11,713             | (X)                           | 12,522             |
| 35333 15     | Chokes, manifolds, and other accessories.....  | (X)  | 16,830             | (X)                           | 13,926             |
| 35333 19     | Rodless oil lifting machinery and equipment (other than pumps).....  | (X)  | 7,607              |                               |                    |
|              | Rod lifting machinery and equipment, surface (including pumps when they are components of a complete assembly):  |  |                    |                               |                    |
| 35333 53     | Pumping units and accessories (include back crank equipment).....  | 9,138  | 41,433             | 11,962                        | 39,432             |
| 35333 55     | Other surface rod lifting machinery and equipment.....   | (X)  | 2,011              | (X)                           | 1,748              |
| 35333 57     | Rod lifting equipment, subsurface, except pumps (quantity represents number of sucker rods shipped).....   | 2,594,040                                      | 24,570             | 2,379,520                     | 21,365             |
|              | Other production machinery and equipment:  |  |                    |                               |                    |
| 35333 61     | Packers.....   | (X)  | 17,280             | (X)                           | 9,895              |
| 35333 65     | Screens, tubing, catchers, etc.....  | (X)  | 8,543              | (X)                           | 4,959              |
| 35333 71     | Oil and gas separating, metering, and treating equipment (quantity represents number of separators).....   | 16,312   | 13,911             | (S)                           | 11,472             |
| 35333 81     | Parts for oil and gas field machinery and tools, sold separately, including parts for portable drilling rigs but excluding parts for other drilling equipment..... | (X)  | 19,535             | (X)                           | 10,102             |
| 35333 98     | Other oil and gas field machinery and tools.....   | (X)  | 78,482             | (X)                           | 33,930             |
| 35333 00     | Oil and gas field production machinery and equipment (except pumps), n.s.k.....  | (X)  | 4,572              | (X)                           | -                  |
| 35334 --     | Other oil and gas field machinery and tools (except pumps) including water well drilling equipment and portable drilling rigs, total.....                          | (X)  | 43,290             | (X)                           | 40,715             |
|              | Portable drilling rigs—permanently mounted on truck or trailer:  |  |                    |                               |                    |
|              | Oil and gas field:   |  |                    |                               |                    |
| 35334 11     | Cable tool.....  | 122  | 3,468              | 235                           | 5,226              |
| 35334 13     | Rotary rigs.....   | 298  | 14,568             | 275                           | 11,837             |
|              | Water well and blast hole:   |  |                    |                               |                    |
| 35334 15     | Cable tool.....  | 397  | 2,879              | 324                           | 2,781              |
| 35334 17     | Rotary rigs.....   | 209  | 6,672              | 234                           | 6,006              |
| 35334 21     | Derricks, oil and gas field, substructures, and accessories—regular and portable.....  | (NA)   | 8,118              | (S)                           | 2,190              |
| 35334 31     | Well surveying machinery and equipment.....  | (X)  | 7,129              | (X)                           | 1,917              |
| 35334 00     | Other oil and gas field machinery and tools, n.s.k.....  | (X)  | 456                | (X)                           | 10,758             |
| 35330 00     | Oil field machinery and equipment, n.s.k.....  | (X)  | 11,896             | (X)                           | 14,602             |
| 3534- --     | ELEVATORS AND MOVING STAIRWAYS, TOTAL.....   | (X)  | 248,209            | (X)                           | 165,277            |
|              | Elevators (except farm and portable):  |  |                    |                               |                    |
| 35340 11     | Electric passenger (except residence lifts).....   | 5,930  | 108,079            | 2,985                         | 61,534             |
| 35340 12     | Hydraulic passenger.....   | 2,184  | 13,332             | 1,029                         | 5,270              |
| 35340 13     | Electric freight.....  | 1,040  | 10,810             | 1,325                         | 16,247             |
| 35340 15     | Hydraulic freight.....   | 2,536  | 11,604             | 2,203                         | 7,105              |
| 35340 31     | Automobile lifts (service station and garage type).....  | 34,026   | 19,985             | 21,125                        | 13,793             |
| 35340 51     | Moving stairways and escalators.....   | 672  | 12,691             | 395                           | 6,587              |
| 35340 96     | Other nonfarm elevators (includes sidewalk elevators, dumbwaiters, man lifts, hand-operated freight elevators, residence lifts, etc.).....                         | (X)  | 9,944              | (X)                           | 45,971             |
| 35340 97     | Parts and attachments for elevators and moving stairways (sold separately).....  | (X)  | 53,680             |                               |                    |
| 35340 00     | Elevators and moving stairways, n.s.k.....   | (X)  | 8,084              | (X)                           | 8,770              |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Value of shipments including interplant transfers (\$1,000) |                    |                               |                      |
|--------------|---|---|--------------------|-------------------------------|----------------------|
|              |   | 1963  | 1958               |                               |                      |
| 3535- --     | CONVEYORS AND CONVEYING EQUIPMENT, TOTAL.....   | 414,854   | 333,877            |                               |                      |
| 35351 --     | Conveyors and conveying equipment (except hoists and farm elevators).....                       | 306,236   | 247,994            |                               |                      |
| 35351 11     | Gravity conveyors (skate, wheel, and roller).....   | 29,916  | 20,129             |                               |                      |
| 35351 31     | Overhead trolley conveyor systems.....  | 38,131  | 19,486             |                               |                      |
| 35351 41     | Pneumatic tube systems, including foot-power units.....   | 13,530  | 12,720             |                               |                      |
| 35351 51     | Portable conveyors (except farm).....   | 13,073  | 8,633              |                               |                      |
| 35351 61     | Underground mine conveyors and conveying systems.....   | 11,649  | 11,066             |                               |                      |
|              | Other conveyors and conveying systems (includes specially engineered conveyor installations):   |   |                    |                               |                      |
| 35351 71     | Bulk material conveyors.....  | 113,808   | 117,720            |                               |                      |
| 35351 73     | Package (unit) conveyors.....   | 81,245  | 47,730             |                               |                      |
| 35351 00     | Conveyors and conveying equipment (except hoists), n.s.k.....                                   | 4,884   | 10,510             |                               |                      |
| 35352 11     | Parts, attachments, and accessories for conveyors and conveying systems (sold separately).....  | 87,963  | 72,021             |                               |                      |
| 35350 00     | Conveyors and conveying equipment (including parts), n.s.k.....                                 | 20,655  | 13,862             |                               |                      |
| Product code | Product   | Total shipments including interplant transfers              |                    |                               |                      |
|              |   | 1963  |                    | 1958                          |                      |
|              |   | Quantity<br>(number of units)                               | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000)   |
| 3536- --     | HOISTS, INDUSTRIAL CRANES, AND MONORAIL SYSTEMS, TOTAL.....                                     | (X)   | 224,183            | (X)                           | 165,544              |
| 35361 --     | Hoists, total.....  | (X)   | 104,978            | (X)                           | 59,401               |
| 35361 12     | Hand and electric chain hoists.....   | 168,368   | 22,795             | 134,877                       | 17,589               |
| 35361 14     | Mine shaft and slope electric wire-rope hoists.....   | 14,220  | 143,015            | (NA)                          | 1,325                |
| 35361 16     | Other electric wire-rope hoists.....  | 22,711  | 20,287             | 17,645                        | 14,557               |
| 35361 37     | Air hoists.....   | 11,390  | 10,120             | 5,015                         | 5,590                |
| 35361 38     | Other hoists.....   | 111,975   | 31,986             | 59,184                        | 20,340               |
| 35361 45     | Parts and attachments for hoists (sold separately).....   | (X)   | 16,133             | (X)                           | (NA)                 |
| 35361 00     | Hoists, n.s.k.....  | (X)   | 642                | (X)                           | -                    |
| 35362 --     | Overhead traveling cranes and monorail systems, total.....                                      | (X)   | 115,701            | (X)                           | 106,143              |
|              | Cranes (except construction power cranes):  |   |                    |                               |                      |
|              | Electric overhead traveling:  |   |                    |                               |                      |
| 35362 12     | Bridge type.....  | 3,086   | 78,983             | } 3,020                       | 83,996               |
| 35362 13     | Jib type.....   | 1,611   | 990                |                               |                      |
| 35362 14     | Other.....  | 697   | 6,730              |                               |                      |
| 35362 15     | Hand power overhead traveling.....  | 1,985   | 2,317              | 805                           | 1,027                |
| 35362 53     | Monorail systems.....   | 2,778   | 13,174             | 4,140                         | <sup>15</sup> 20,385 |
| 35362 55     | Parts and attachments for overhead traveling cranes and monorail systems (sold separately)..... | (X)   | 13,049             | (X)                           | (NA)                 |
| 35362 00     | Overhead traveling cranes and monorail systems, n.s.k.....                                      | (X)   | 458                | (X)                           | 735                  |
| 35360 00     | Hoists, industrial cranes, and monorail systems, n.s.k.....                                     | (X)   | 3,504              | (X)                           | -                    |
| 3537- --     | INDUSTRIAL TRUCKS, TRACTORS, TRAILERS, AND STACKERS, TOTAL.....                                 | (X)   | 458,741            | (X)                           | 276,674              |
|              | Powered trucks and tractors:  |   |                    |                               |                      |
| 35370 11     | Trucks (operator walking).....  | 10,865  | 21,276             | 10,595                        | 15,702               |
|              | Trucks (operator riding) and tractors:  |   |                    |                               |                      |
|              | Electric (storage battery):   |   |                    |                               |                      |
| 35370 21     | Fork trucks.....  | 8,004   | 45,523             | 3,321                         | 19,524               |
| 35370 29     | Other industrial trucks and tractors.....   | (X)   | 7,034              | (X)                           | 3,393                |
|              | Gasoline:   |   |                    |                               |                      |
| 35370 31     | Fork trucks.....  | 28,080  | 178,235            | 16,386                        | 95,312               |
| 35370 33     | Trucks (except fork).....   | 477   | 3,728              | 631                           | 3,358                |
| 35370 35     | Tractors.....   | 1,659   | 6,625              | 3,221                         | 12,810               |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Total shipments including interplant transfers |                    |                               |                    |
|--------------|---|--|--------------------|-------------------------------|--------------------|
|              |   | 1963   |                    | 1958                          |                    |
|              |   | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 3537- --     | INDUSTRIAL TRUCKS, TRACTORS, TRAILERS, AND STACKERS—Continued                                       |  |                    |                               |                    |
|              | Powered trucks and tractors—Continued   |  |                    |                               |                    |
|              | Trucks (operator riding) and tractors—Continued   |  |                    |                               |                    |
| 35370 41     | All other trucks (operator riding) and tractors, including diesel, compressed-air powered, etc..... | (X)  | 14,433             | (X)                           | 5,901              |
| 35370 51     | Portable elevators (stackers) excluding farm type.....  | 3,769  | 4,313              | 2,870                         | 3,771              |
|              | Hand trucks and trailers, including dollies and platform trucks:                                    |  |                    |                               |                    |
| 35370 61     | Hand lift.....  | (X)  | 10,000             | (X)                           | 11,366             |
| 35370 65     | Other hand trucks and trailers, including two wheel, four wheel, dollies, and platform trucks.....  | (X)  | 32,177             | (X)                           | 30,395             |
| 35370 71     | Metal pallets and skids (excluding wood and metal combination).....                                 | (X)  | 12,098             | (X)                           | 6,786              |
| 35370 81     | Parts and attachments and miscellaneous equipment (sold separately).....                            | (X)  | 91,737             | (X)                           | 44,752             |
| 35370 00     | Industrial trucks and trailers, n.s.k.....  | (X)  | 31,562             | (X)                           | 23,604             |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

(S) Suppressed because the data did not meet publication standards.

<sup>1</sup>For these products, data were also collected in the census annual commodity survey program. In lieu of asking for detailed statistics on these products in the censuses of manufactures, respondents were asked to report only value of shipments for specified products or classes of products for which separate figures had previously been collected in the commodity survey. In most cases, the value figures reported in the censuses of manufactures for each product or class of products agreed closely with the corresponding figures reported in the commodity survey. However, there were some differences between the census figures and the commodity survey figures. These variations were due primarily to the following reasons:

- a. Use of different reporting periods (calendar year vs. fiscal year).
- b. Use of different base for reporting value (company sales vs. factory production).
- c. Use of estimates in reporting data on the commodity survey whereas census of manufactures figures generally represent more exact shipments figures.

<sup>2</sup>Represents wheeled tractors designed primarily to be used as towing units for scrapers, trailers, wagons, and similar types of towed equipment for use on natural terrain but restricted by State laws or regulations from operating on public highways.

<sup>3</sup>Machines shipped primarily as independent dozing or pushing units characterized with approximate equal weight fore and aft with all wheel drive as differentiated from machines designed for integral hook-up towing.

<sup>4</sup>Data exclude those crawler tractors produced as components of complete tractor-shovel-loaders. The 1958 horsepower ratings for these tractors are based on maximum corrected drawbar horsepower.

<sup>5</sup>For 1958, selected types of construction machinery for which figures were collected on Census Annual Form MA-35D or Quarterly Form M35D but which could not be published are included with cranes except construction power cranes. These products include scrapers, 2- and 4-wheel, under 7 cubic yard standard struck capacity; winches (towing, logging and oil field types) for mounting on tractors; cranes for mounting on tractors; wheel tractors (truck type), off-highway type, 2 and 3 axle models; and portable drills, churn drill type, water well and blast hole.

<sup>6</sup>Parts and attachments for tracklaying type and wheel type tractor shovel loaders are included with parts and attachments for construction machinery and equipment (sold separately) (except parts and attachments for power cranes, draglines and shovels) (codes 3531985), for 1958.

<sup>7</sup>Tandem units are reported as two separate units.

<sup>8</sup>Represents vehicles normally operated off the public highway and specially designed to transport materials, property, or equipment on mining, construction, logging, petroleum development, and similar projects. These vehicles are of such size or weight as to be normally restricted by State laws or regulations from operating on public highways.

<sup>9</sup>Excludes front-end loaders shipped to producers of complete tractor-shovel loaders (integral units).

<sup>10</sup>Includes figures for dense medium vessels (3532153), centrifuges (3532158), concentrating spirals (3532163), thickeners (3531264) and filters (3532165).

<sup>11</sup>Represents crushers and crushing plants.

<sup>12</sup>Represents pulverizers and grinders.

<sup>13</sup>Represents screening plants, washing plants and combination washing and screening plants.

<sup>14</sup>Comparable data were also collected on Census Annual Form MA-35F, "Mining Machinery and Equipment." Data collected in the census of manufactures indicate a degree of undercoverage in the MA-35F Annual Commodity Survey.

<sup>15</sup>For 1958, this value includes parts and attachments for monorail systems.

TABLE 6B. **Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958**

| Product code | Product and year  | Indexes (1954 = 100) |                  |
|--------------|---|----------------------|------------------|
|              |   | Production           | Unit value       |
| 353          | Construction, mining, and materials handling machinery and equipment construction and like equipment...1963.. | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | 1958..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 3534         | Elevators and moving stairways.....1963..   | 173                  | 111              |
|              | 1958..  | 109                  | 118              |
| 3536         | Hoists, cranes, and monorail systems.....1963..   | 142                  | 97               |
|              | 1958..  | 84                   | 124              |
| 35361        | Hoists.....1963..   | 207                  | 115              |
|              | 1958..  | 88                   | 125              |

<sup>1</sup>The indexes for this group and for the products of industries 3531, 3532, 3533, 3535, and 3537 are not shown because comparable quantity data were not obtained for a significant portion of these products.



TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class  | 1963      | 1962 <sup>1</sup>    | 1961 <sup>1</sup>    | 1960 <sup>1</sup>    | 1959 <sup>1</sup>    | 1958                 | 1954      | 1947    |
|-------|--|-----------|----------------------|----------------------|----------------------|----------------------|----------------------|-----------|---------|
| 3531- | Construction machinery.....  | 2,624,171 | 2,159,351            | 1,989,468            | 2,052,010            | 2,374,707            | 1,996,322            | 1,410,685 | (NA)    |
| 35311 | Contractors' off-highway wheel tractors, except parts and attachments.....                               | 102,660   | 78,880               | 74,466               | 64,965               | 91,944               | 89,956               | 46,355    | (NA)    |
| 35312 | Tracklaying type tractors, except parts and attachments.....   | 317,352   | 256,671              | 237,622              | 269,831              | 322,952              | 287,300              | 266,828   | 133,706 |
| 35313 | Parts and attachments for tracklaying and contractors' off-highway wheel tractors...                     | 302,732   | 242,049              | 237,089              | 265,739              | 392,340              | 272,072              | 169,639   | (NA)    |
| 35314 | Power cranes(including locomotive full circle, revolving with booms), draglines, shovels, and parts..... | 464,757   | 400,074              | 356,071              | 359,020              | 394,967              | 361,068              | 268,691   | 247,985 |
| 35316 | Mixers, pavers, and related equipment, excluding parts.....  | 132,020   | 109,110              | 110,347              | 107,468              | 133,025              | 101,908              | 70,967    | 56,751  |
| 35317 | Integral tractor-shovel loaders (wheel and tracklaying types), excluding parts...                        | 387,988   | <sup>2</sup> 289,626 | <sup>2</sup> 287,184 | <sup>2</sup> 285,630 | <sup>2</sup> 228,903 | <sup>2</sup> 157,889 | (NA)      | (NA)    |
| 35318 | Scrapers, graders, rollers, and off-highway trucks, trailers, and wagons, excluding parts.....           | 479,986   | 362,036              | 301,586              | 313,677              | 365,800              | 326,002              | (NA)      | (NA)    |
| 35319 | Other construction machinery and equipment, including construction machinery parts, n.e.c.....           | 403,511   | <sup>3</sup> 361,609 | <sup>3</sup> 328,116 | <sup>3</sup> 337,286 | <sup>3</sup> 401,548 | <sup>3</sup> 368,091 | (NA)      | (NA)    |
| 35310 | Construction machinery, n.s.k.....   | 33,165    | (59,296)             | (56,987)             | (48,394)             | (43,228)             | 32,056               | (NA)      | (NA)    |
| 3532- | Mining machinery and equipment.....  | 336,213   | 267,508              | 298,724              | 333,118              | 332,552              | 275,289              | 144,745   | (NA)    |
| 35321 | Underground mining machinery and related mining equipment.....   | 73,573    | 59,546               | 55,198               | 64,618               | 66,550               | 64,667               | 61,515    | (NA)    |
| 35322 | Crushing, pulverizing, and screening plants, stationary.....   | 58,012    | 45,938               | 55,524               | 75,106               | 77,138               | 67,818               | 46,644    | (NA)    |
| 35323 | All other mining machinery (complete units)  | 39,351    | 162,024              | 188,002              | 193,394              | 188,864              | 142,804              | 36,586    | (NA)    |
| 35324 | Parts and attachments for mining machinery and equipment.....  | 158,014   |                      |                      |                      |                      |                      |           |         |
| 35320 | Mining machinery, n.s.k.....   | 7,283     |                      |                      |                      |                      |                      |           |         |
| 3533- | Oil field machinery.....   | 572,726   | 550,371              | 507,785              | 511,048              | 569,720              | 496,149              | 468,716   | 262,939 |
| 35331 | Rotary oil and gas field drilling machinery and equipment.....   | 217,238   | 208,042              | 207,408              | 215,082              | 236,006              | 222,014              | 223,524   | 147,489 |
| 35332 | Other oil and gas field drilling machinery and equipment.....  | 38,849    | 48,004               | 46,376               | 45,885               | 50,981               | 43,365               | 56,873    |         |
| 35333 | Oil and gas field production machinery and equipment (except pumps).....                                 | 261,453   | 217,009              | 194,459              | 185,120              | 210,681              | 175,453              | 147,812   | 115,450 |
| 35334 | Other oil and gas field machinery and tools (except pumps), including water wells.....                   | 43,290    | 48,022               | 38,327               | 44,934               | 51,823               | 40,715               | 40,507    |         |
| 35330 | Oil field machinery and equipment, n.s.k....   | 11,896    | (29,294)             | (21,215)             | (20,027)             | (20,229)             | 14,602               | -         | -       |
| 35340 | Elevators and moving stairways.....  | 248,209   | 232,248              | 196,497              | 204,741              | 187,493              | 165,277              | 128,102   | 96,409  |
| 3535- | Conveyors.....   | 414,854   | 373,959              | 349,478              | 366,657              | 341,914              | 333,877              | 294,643   | 180,691 |
| 35351 | Conveyors and conveying equipment (except hoists and farm elevators).....                                | 306,236   | 284,965              | 272,121              | 284,047              | 264,286              | 247,994              | 233,389   | 145,937 |
| 35352 | Parts, attachments, and accessories for conveyors and systems (sold separately)...                       | 87,963    | 73,944               | 66,048               | 72,747               | 67,652               | 72,021               | 61,254    | 34,754  |
| 35350 | Conveyors and conveying equipment (except hoists), n.s.k.....  | 20,655    | (15,050)             | (11,309)             | (9,863)              | (9,976)              | 13,862               | -         | -       |
| 3536- | Hoists, cranes, and monorails.....   | 224,183   | 187,788              | 172,064              | 200,785              | 167,634              | 165,544              | 159,056   | 93,267  |
| 35361 | Hoists.....  | 104,978   | 98,379               | 86,429               | 87,060               | (82,519)             | 59,401               | 55,068    | 56,025  |
| 35362 | Overhead traveling cranes and monorails systems.....   | 115,701   | 89,409               | 85,635               | 113,725              | 85,115               | 106,143              | 103,988   | 37,242  |
| 35360 | Hoists, industrial cranes, and monorail systems, n.s.k.....  | 3,504     | (NA)                 | (NA)                 | (NA)                 | (NA)                 | (NA)                 | (NA)      | (NA)    |
| 35370 | Industrial trucks and tractors.....  | 458,741   | 394,408              | 345,510              | 389,480              | 375,275              | 276,674              | 254,822   | 154,824 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Source: Current Industrial Reports Series M35D, Construction Machinery, and M35S, Tractors (Except Garden Tractors). These data exclude the value of parts and attachments for wheel type shovel loaders. In addition data for 1958 and 1959 exclude parts and attachments for tracklaying type shovel loaders.

<sup>3</sup>Includes the value of parts and attachments for wheel type shovel loaders. In addition data for 1958 and 1959 include parts and attachments for tracklaying type shovel loaders.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area   | Value of shipments |                  | Product class and geographic area  | Value of shipments |                  | Product class and geographic area   | Value of shipments |                  |
|---|--------------------|------------------|--|--------------------|------------------|---|--------------------|------------------|
|   | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |
| CONTRACTORS' OFF-HIGHWAY WHEEL TRACTORS EXCEPT PARTS AND ATTACHMENTS (35313)                                | 1963 <sup>1</sup>  |                  | SCRAPERS, GRADERS, ROLLERS, AND OFF-HIGHWAY TRUCKS, TRAILERS, AND WAGONS, EXCLUDING PARTS (35318)  | 1963 <sup>1</sup>  | 1958             | CRUSHING, PULVERIZING, AND SCREENING PLANTS, STATIONARY (35322)             | 1963 <sup>1</sup>  | 1958             |
| United States, total.....   | 302,732            |                  | United States, total...  | 479,986            | 326,002          | United States, total...   | 58,012             | 67,818           |
| East North Central.....   | 229,945            |                  | Northeast.....   | 21,035             | 16,349           | Northeast.....  | 13,188             | 20,311           |
| Ohio.....   | 9,593              |                  | New Jersey.....  | 2,570              | ( <sup>2</sup> ) | Pennsylvania.....   | 10,573             | 14,450           |
| Illinois.....   | 186,279            |                  | Pennsylvania.....  | 15,564             | 7,558            | East North Central.....   | 29,704             | 21,452           |
| Wisconsin.....  | 7,630              |                  | East North Central.....  | 342,500            | ( <sup>2</sup> ) | Ohio.....   | 4,606              | 3,833            |
| West North Central.....   | 19,200             |                  | Ohio.....  | 85,984             | 72,664           | Wisconsin.....  | 21,194             | 14,743           |
| Iowa.....   | 18,688             |                  | Illinois.....  | 194,719            | 133,090          | West North Central.....   | 12,797             | 18,961           |
| Pacific.....  | 19,157             |                  | Wisconsin.....   | 22,776             | 16,953           | Missouri.....   | 3,342              | 3,564            |
| California.....   | 11,238             |                  | West North Central.....  | 61,760             | ( <sup>2</sup> ) | South and West.....   | 2,323              | 7,074            |
| All other divisions.....  | 34,430             |                  | Iowa.....  | 32,995             | 10,662           |   |                    |                  |
| POWER CRANES (INCLUDING LOCOMOTIVE, FULL CIRCLE, REVOLVING WITH BOOMS) DRAGLINES, SHOVELS AND PARTS (35314) | 1963 <sup>1</sup>  | 1958             | Kansas.....  | 3,455              | ( <sup>2</sup> ) | PARTS AND ATTACHMENTS FOR MINING MACHINERY AND EQUIPMENT (35324)            | 1963 <sup>1</sup>  |                  |
| United States, total.....   | 464,757            | 361,068          | South.....   | 39,608             | 19,612           | United States, total...   |                    | 158,014          |
| Northeast.....  | 23,026             | 27,058           | Texas.....   | 11,533             | 8,078            | New England.....  |                    | 11,658           |
| Pennsylvania.....   | 18,401             | 26,267           | West.....  | 15,083             | 11,627           | Middle Atlantic.....  |                    | 48,172           |
| East North Central.....   | 348,675            | 266,573          | California.....  | 9,219              | ( <sup>2</sup> ) | Pennsylvania.....   |                    | 43,720           |
| Ohio.....   | 93,312             | 76,931           | OTHER CONSTRUCTION MACHINERY AND EQUIPMENT, INCLUDING CONSTRUCTION MACHINERY PARTS, N.E.C. (35319) |                    |                  | East North Central.....   |                    | 60,617           |
| Indiana.....  | 41,072             | 26,848           | United States, total...  | 403,511            | 383,090          | Ohio.....   |                    | 17,846           |
| Illinois.....   | 18,441             | 22,358           | New England.....   | 6,315              | 5,646            | Illinois.....   |                    | 10,928           |
| Michigan.....   | 41,248             | 36,754           | Massachusetts.....   | 1,506              | 1,381            | West North Central.....   |                    | 6,073            |
| Wisconsin.....  | 154,602            | 103,682          | Middle Atlantic.....   | 42,946             | 28,871           | South.....  |                    | 8,788            |
| West North Central.....   | 71,840             | 44,701           | New York.....  | 7,696              | 4,818            | West Virginia.....  |                    | 5,998            |
| South.....  | 10,256             | 11,857           | New Jersey.....  | 18,262             | 12,504           | Mountain.....   |                    | 19,536           |
| West.....   | 10,960             | 10,879           | Pennsylvania.....  | 16,988             | 11,549           | Pacific.....  |                    | 3,170            |
| Washington.....   | 6,084              | 5,834            | East North Central.....  | 198,941            | 217,818          | California.....   |                    | 1,964            |
| California.....   | 3,913              | 2,800            | Ohio.....  | 62,012             | 55,791           | ROTARY OIL AND GAS FIELD DRILLING MACHINERY AND EQUIPMENT (35331)           | 1963 <sup>1</sup>  | 1958             |
| MIXERS, PAVERS, AND RELATED EQUIPMENT, EXCLUDING PARTS (35316)  |                    |                  | Indiana.....   | 17,129             | 7,925            | United States, total...   | 217,238            | 222,014          |
| United States, total.....   | 132,020            | 101,908          | Illinois.....  | 52,727             | 95,589           | Middle Atlantic.....  | 2,116              | 3,796            |
| Northeast.....  | 10,954             | 9,970            | Michigan.....  | 24,196             | 28,141           | North Central.....  | 6,577              | 3,875            |
| New Jersey.....   | 3,695              | 4,490            | Wisconsin.....   | 42,877             | 30,372           | South.....  | 167,653            | 173,727          |
| Pennsylvania.....   | 4,278              | 3,754            | West North Central.....  | 57,793             | 44,667           | West.....   | 40,892             | 40,616           |
| East North Central.....   | 79,445             | ( <sup>2</sup> ) | Minnesota.....   | 19,362             | 16,420           | OTHER OIL AND GAS FIELD DRILLING MACHINERY AND EQUIPMENT (35332)            |                    |                  |
| Ohio.....   | 19,797             | 16,240           | Iowa.....  | 28,300             | 21,886           | United States, total...   | 38,849             | 43,365           |
| Illinois.....   | 31,507             | 19,614           | Kansas.....  | 5,117              | ( <sup>2</sup> ) | Middle Atlantic.....  | 1,939              | 2,174            |
| Wisconsin.....  | 19,041             | 20,181           | South Atlantic.....  | 15,362             | 12,871           | South.....  | 28,554             | ( <sup>2</sup> ) |
| West North Central.....   | 14,082             | ( <sup>2</sup> ) | Alabama.....   | 10,391             | 3,607            | Oklahoma.....   | 7,774              | ( <sup>2</sup> ) |
| Iowa.....   | 11,983             | ( <sup>2</sup> ) | East South Central.....  | 6,560              | 2,586            | Texas.....  | 17,416             | 19,707           |
| South.....  | 7,449              | 3,334            | West South Central.....  | 28,231             | 26,083           | Pacific.....  | 7,283              | 20,331           |
| Texas.....  | 4,131              | ( <sup>2</sup> ) | Oklahoma.....  | 10,543             | 17,541           | California.....   | 7,283              | 20,331           |
| West.....   | 20,090             | 15,782           | Texas.....   | 17,688             | ( <sup>2</sup> ) | All other divisions.....  | 1,073              | ( <sup>2</sup> ) |
| California.....   | 18,221             | 14,006           | Mountain.....  | 5,007              | ( <sup>2</sup> ) | OIL AND GAS FIELD PRODUCTION MACHINERY AND EQUIPMENT (EXCEPT PUMPS) (35333) |                    |                  |
| INTEGRAL TRACTOR-SHOVEL LOADERS (WHEEL AND TRACKLAYING TYPES), INCLUDING PARTS (35317)                      |                    |                  | Pacific.....   | 38,525             | ( <sup>2</sup> ) | United States, total...   | 261,453            | 175,453          |
| United States, total.....   | 387,988            | 142,890          | California.....  | 19,797             | 17,855           | Middle Atlantic.....  | 13,839             | 6,356            |
| Northeast.....  | 13,223             | ( <sup>2</sup> ) | UNDERGROUND MINING MACHINERY AND RELATED MINING EQUIPMENT (35321)                                  |                    |                  | Pennsylvania.....   | 12,679             | 6,356            |
| North Central.....  | 360,283            | 128,258          | United States, total...  | 73,573             | 64,667           | East North Central.....   | 8,013              | 9,851            |
| Illinois.....   | 283,472            | 88,314           | Northeast.....   | 30,324             | 25,067           | Illinois.....   | 1,631              | 2,381            |
| South and West.....   | 14,482             | ( <sup>2</sup> ) | East North Central.....  | 14,196             | ( <sup>2</sup> ) |   |                    |                  |
|   |                    |                  | West North Central.....  | 4,615              | ( <sup>2</sup> ) |   |                    |                  |
|   |                    |                  | South.....   | 7,598              | ( <sup>2</sup> ) |   |                    |                  |
|   |                    |                  | Mountain.....  | 10,674             | ( <sup>2</sup> ) |   |                    |                  |
|   |                    |                  | Pacific.....   | 6,166              | ( <sup>2</sup> ) |   |                    |                  |



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area  | Value of shipments |                  | Product class and geographic area   | Value of shipments |                  | Product class and geographic area   | Value of shipments |                  |
|--|--------------------|------------------|---|--------------------|------------------|---|--------------------|------------------|
|  | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |
| OIL AND GAS FIELD PRODUCTION MACHINERY AND EQUIPMENT (EXCEPT PUMPS) (35333)—Continued    |                    |                  | CONVEYORS AND CONVEYING EQUIPMENT (EXCEPT HOISTS AND FARM ELEVATORS) (35351)—Continued  |                    |                  | PARTS, ATTACHMENTS, AND ACCESSORIES FOR CONVEYORS AND SYSTEMS (SOLD SEPARATELY) (35352)—Continued |                    |                  |
| West South Central.....  | 205,019            | ( <sup>2</sup> ) | East North Central.....   | 143,598            | 112,367          | West North Central.....   | 2,463              | 1,648            |
| Louisiana.....   | 4,047              | 4,981            | Ohio.....   | 28,650             | 27,108           | Minnesota.....  | 1,063              | (Z)              |
| Oklahoma.....  | 40,477             | 34,971           | Illinois.....   | 41,853             | 35,283           | South.....  | 14,665             | 4,951            |
| Texas.....   | 160,495            | 98,067           | Michigan.....   | 66,642             | 41,005           | West.....   | 3,659              | 4,571            |
| Mountain.....  | 1,432              | ( <sup>2</sup> ) | West North Central.....   | 27,620             | 21,846           | California.....   | 1,698              | 3,140            |
| Pacific.....   | 24,075             | ( <sup>2</sup> ) | Minnesota.....  | 9,572              | 8,054            |   |                    |                  |
| California.....  | 24,075             | 5,244            | Iowa.....   | 2,814              | ( <sup>2</sup> ) | HOISTS (35361)  |                    |                  |
| All other divisions.....   | 9,075              | ( <sup>2</sup> ) | Missouri.....   | 8,973              | 6,958            | United States, total..  | 104,978            | 59,401           |
|  |                    |                  | South Atlantic.....   | 11,148             | 8,024            | Northeast.....  | 23,828             | 19,119           |
| OTHER OIL AND GAS FIELD MACHINERY AND TOOLS (EXCEPT PUMPS) INCLUDING WATER WELLS (35334) |                    |                  | Georgia.....  | 3,961              | ( <sup>2</sup> ) | New York.....   | 10,550             | ( <sup>2</sup> ) |
| United States, total....   |                    | 43,290           | Florida.....  | 1,252              | (Z)              | Pennsylvania.....   | 10,149             | 11,179           |
| Northeast and North Central.   |                    | 8,168            | East South Central.....   | 23,524             | 11,999           | East North Central.....   | 45,877             | 23,850           |
| Ohio.....  |                    | 2,106            | Kentucky.....   | 10,541             | 4,899            | Ohio.....   | 17,423             | 5,661            |
| South.....   |                    | 33,344           | West South Central.....   | 12,033             | 5,314            | Illinois.....   | 7,592              | 5,605            |
| Texas.....   |                    | 22,158           | Texas.....  | 10,234             | 4,417            | Michigan.....   | 12,163             | 7,660            |
| West.....  |                    | 1,778            | Mountain.....   | 2,240              | ( <sup>2</sup> ) | Wisconsin.....  | 7,981              | ( <sup>2</sup> ) |
|  |                    |                  | Colorado.....   | 1,775              | (Z)              | West North Central.....   | 3,721              | 4,368            |
|  |                    |                  | Pacific.....  | 21,429             | ( <sup>2</sup> ) | Iowa.....   | 1,393              | 1,713            |
|  |                    |                  | Washington.....   | 1,631              | (Z)              | South.....  | 15,386             | 5,372            |
|  |                    |                  | Oregon.....   | 1,366              | (Z)              | West.....   | 16,166             | 6,692            |
|  |                    |                  | California.....   | 18,432             | 14,925           | California.....   | 7,390              | 2,575            |
|  |                    |                  |   |                    |                  |   |                    |                  |
| CONVEYORS AND CONVEYING EQUIPMENT (EXCEPT HOISTS AND FARM ELEVATORS) (35351)             |                    |                  | PARTS, ATTACHMENTS, AND ACCESSORIES FOR CONVEYORS AND SYSTEMS (SOLD SEPARATELY) (35352) |                    |                  | OVERHEAD TRAVELING CRANES AND MONORAIL SYSTEMS (35362)  |                    |                  |
| United States, total....   | 306,236            | 247,994          | United States, total..  | 87,963             | 72,021           | United States, total..  | 115,701            | 106,143          |
| New England.....   | 3,836              | 2,403            | Northeast.....  | 15,734             | (Z)              | New England.....  | 1,528              | (Z)              |
| Massachusetts.....   | 3,219              | 2,312            | New York.....   | 1,113              | 2,556            | Middle Atlantic.....  | 10,499             | ( <sup>2</sup> ) |
| Middle Atlantic.....   | 60,808             | 68,483           | Pennsylvania.....   | 9,178              | 7,212            | North Central.....  | 90,293             | 87,687           |
| New York.....  | 15,653             | 15,010           | East North Central.....   | 51,442             | 45,476           | Ohio.....   | 37,064             | 39,304           |
| New Jersey.....  | 10,838             | 14,188           | Ohio.....   | 4,837              | 9,222            | Illinois.....   | 10,980             | 11,271           |
| Pennsylvania.....  | 34,317             | 39,285           | Illinois.....   | 16,947             | 15,184           | Michigan.....   | 13,709             | 14,516           |
|  |                    |                  | Michigan.....   | 9,139              | 5,914            | South.....  | 2,944              | (Z)              |
|  |                    |                  |   |                    |                  | Pacific.....  | 10,437             | ( <sup>2</sup> ) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 35313, Pennsylvania, Indiana, Michigan, Georgia, Utah, and Oregon; 35314, New York, Minnesota, Iowa, Missouri, Georgia, Louisiana, and Texas; 35316, Massachusetts, New York, Indiana, Minnesota, and Oklahoma; 35317, New York, Ohio, Michigan, Wisconsin, Iowa, Maryland, Kentucky, Utah, Oregon, and California; 35318, Massachusetts, Indiana, Michigan, Minnesota, Missouri, North Dakota, Georgia, Kentucky, Mississippi, Oklahoma, Washington, and Oregon; 35319, Maine, New Hampshire, Missouri, Delaware, Maryland, Virginia, Georgia, Tennessee, Colorado, Washington, and Oregon; 35321, New Hampshire, Pennsylvania, Ohio, Indiana, Illinois, Iowa, West Virginia, Tennessee, Colorado, Utah, and California; 35322, Maine, New York, Indiana, Michigan, Minnesota, Iowa, and Kansas; 35324, Maine, New Hampshire, New York, New Jersey, Michigan, Wisconsin, Iowa, Missouri, Colorado, and Utah; 35331, Pennsylvania, Indiana, Illinois, Louisiana, Utah, and California; 35332, Pennsylvania, and Louisiana; 35333, Ohio, Wisconsin, Minnesota, Kansas and New Mexico; 35334, Pennsylvania, Indiana, Kansas, and Oklahoma; 35351, Wisconsin, South Dakota, Kansas, Tennessee, Alabama, Mississippi; 35352, New Jersey, Indiana, Wisconsin, Virginia, South Carolina, Mississippi, Texas, and Oregon; 35361, New Hampshire, New Jersey, Minnesota, Kentucky, Tennessee, Arkansas, Colorado, Washington, and Oregon; 35362, Connecticut, New York, Pennsylvania, Wisconsin, Iowa, Texas, Washington, and California.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

TABLE 7A. Materials by Kind: 1963 and 1958

| Code   | Material   | Unit of measure                | 1963                                  |                          | 1958     |                          | 1963  |                          | 1958     |                          |
|--------|--|--------------------------------|---------------------------------------|--------------------------|----------|--------------------------|---|--------------------------|----------|--------------------------|
|        |  |                                | Quantity                              | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) | Quantity                                      | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
|        |  |                                | INDUSTRY 3531.—CONSTRUCTION MACHINERY |                          |          |                          | INDUSTRY 3532.—MINING MACHINERY AND EQUIPMENT |                          |          |                          |
|        | Materials, parts, containers and supplies, total.....  |                                | (X)                                   | 1,284,321                | (X)      | 948,778                  | (X)   | 166,460                  | (X)      | 134,093                  |
|        | Mill shapes and forms (except castings):   |                                |                                       |                          |          |                          |   |                          |          |                          |
|        | Carbon steel:  |                                |                                       |                          |          |                          |   |                          |          |                          |
| 331011 | Bar and bar shapes.....  | Short tons..                   | 271,945                               | 43,949                   | 261,974  | 42,766                   | 21,917  | 4,463                    | 21,820   | 3,911                    |
| 331012 | Sheet and strip.....   | ..do.....                      | 103,966                               | 16,092                   | 82,268   | 12,335                   | 5,734   | 955                      | 5,417    | 817                      |
| 331013 | Plates.....  | ..do.....                      | 506,170                               | 74,131                   | 339,061  | 47,961                   | 46,244  | 6,841                    | 42,064   | 6,633                    |
| 331015 | Structural shapes.....   | ..do.....                      | 115,418                               | 17,958                   | 99,847   | 14,612                   | 15,484  | 2,353                    | 26,963   | 4,175                    |
| 331017 | Wire and wire products.....  | ..do.....                      | 5,335                                 | 2,855                    | 6,404    | 2,639                    | 281   | 85                       | 342      | 140                      |
| 331019 | All other carbon steel mill shapes and forms.....  | ..do.....                      | 94,723                                | 21,320                   | 68,894   | 16,278                   | 8,370   | 1,552                    | 11,501   | 3,276                    |
|        | Alloy steel except stainless:  |                                |                                       |                          |          |                          |   |                          |          |                          |
| 331021 | Bars and bar shapes.....   | ..do.....                      | 48,590                                | 11,784                   | 36,540   | 8,057                    | 8,665   | 2,519                    | 6,773    | 2,220                    |
| 331029 | All other alloy steel mill shapes and forms.....   | ..do.....                      | 55,077                                | 13,403                   | 28,262   | 7,144                    | 8,173   | 1,935                    | 13,983   | 6,718                    |
| 331031 | Stainless steel.....   | ..do.....                      | 414                                   | 559                      | 499      | 783                      | 668   | 919                      | 521      | 823                      |
|        | Copper and copper-base alloy:  |                                |                                       |                          |          |                          |   |                          |          |                          |
| 335728 | Bare wire, (for electrical conduction).....  | 1,000 lbs...                   | 234                                   | 143                      | 342      | 223                      | 498   | 639                      | 459      | 334                      |
| 335790 | Insulated wire and cable.....  | 1,000 lbs. (copper content)... | 1,348                                 | 1,206                    | 1,959    | 1,426                    |   |                          |          |                          |
| 335102 | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                           | 1,000 lbs...                   | 476                                   | 291                      | 7,040    | 3,833                    | 423   | 331                      | 810      | 506                      |
| 335123 | Plate, sheet and strip (including military cups and discs).....                                      | ..do.....                      | 8,354                                 | 4,273                    |          |                          |   |                          |          |                          |
| 335127 | Pipe and tube.....   | ..do.....                      | 3,187                                 | 1,590                    |          |                          | 80  | 69                       |          |                          |
|        | Aluminum and aluminum-base alloy:  |                                |                                       |                          |          |                          |   |                          |          |                          |
| 335202 | Sheet plate and foil.....  | ..do.....                      | 2,462                                 | 1,248                    | 785      | 425                      | 97  | 58                       | (NA)     | (NA)                     |
| 335205 | Extruded shapes, including extruded rod, bar, pipe, tube, etc.....                                   | ..do.....                      | 1,641                                 | 846                      | 616      | 431                      | (NA)  | 192                      | (NA)     | (NA)                     |
| 335209 | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.....  | ..do.....                      | 215                                   | 120                      |          |                          |   |                          |          |                          |
| 331051 | Pig iron (excluding silvery iron).....   | Short tons..                   | 34,705                                | 2,088                    | 20,858   | 1,357                    | 5,498   | 336                      | 5,124    | 387                      |
| 999811 | Iron and steel scrap (purchased scrap only).....   | ..do.....                      | 65,045                                | 2,053                    | 54,222   | 2,263                    | 14,520  | 536                      | 8,722    | 427                      |
|        | Castings (rough and semi-finished):  |                                |                                       |                          |          |                          |   |                          |          |                          |
| 332011 | Iron (gray and malleable) <sup>1</sup> .....   | ..do.....                      | 154,754                               | 54,154                   | 135,996  | 44,493                   | 10,666  | 4,346                    | 15,781   | 5,965                    |
| 332300 | Steel <sup>1</sup> .....   | ..do.....                      | 160,403                               | 95,044                   | 140,915  | 77,843                   | 24,471  | 14,848                   | 14,702   | 10,957                   |
| 336100 | Aluminum and aluminum-base alloy <sup>1</sup> .....  | 1,000 lbs...                   | 10,139                                | 7,881                    | 5,350    | 3,435                    | 133   | 150                      | 105      | 97                       |
| 336200 | Copper and copper-base alloy <sup>1</sup> .....  | ..do.....                      | 5,241                                 | 4,297                    | 4,368    | 3,284                    | 600   | 702                      | 1,429    | 827                      |
| 339100 | Iron and steel forgings <sup>1</sup> .....   | Short tons..                   | 230,325                               | 97,512                   | 161,771  | 66,649                   | 17,859  | 8,093                    | 7,903    | 4,435                    |
|        | Engines:   |                                |                                       |                          |          |                          |   |                          |          |                          |
| 351920 | Diesel and semidiesel <sup>1</sup> .....   | Number.....                    | 42,130                                | 87,578                   | 27,994   | 56,684                   | 505   | 1,536                    | 275      | 869                      |
| 351901 | Gasoline and other carburetor <sup>1</sup> .....   | ..do.....                      | 43,169                                | 14,553                   | 40,935   | 14,498                   | 632   | 293                      | 744      | 191                      |
|        | Electric motors and generators:  |                                |                                       |                          |          |                          |   |                          |          |                          |
| 362115 | Fractional horsepower electric motors (under 1hp.) (excluding timing motors) <sup>1</sup> .....      | ..do.....                      | 39,390                                | 684                      | 23,551   | 538                      | 1,613   | 149                      | (D)      | (D)                      |
| 362120 | Integral horsepower motors and generators (1hp. and over) <sup>1</sup> .....                         | ..do.....                      | 26,519                                | 16,887                   | 17,510   | 7,634                    | 9,875   | 8,784                    | 4,608    | 3,681                    |
|        | Bearings:  |                                |                                       |                          |          |                          |   |                          |          |                          |
| 356218 | Ball.....  | ..do.....                      | (X)                                   | 9,784                    | (X)      | 17,616                   | (X)   | 1,216                    | (X)      | 1,379                    |
| 356228 | Roller.....  | ..do.....                      | (X)                                   | 15,157                   |          |                          |   |                          |          |                          |
| 301131 | Pneumatic tires.....   | Number.....                    | 366,982                               | 40,917                   | 230,516  | 24,157                   | 9,649   | 954                      | 3,048    | 180                      |
| 301141 | Inner tubes.....   | ..do.....                      | 138,767                               | 781                      | 73,511   | 438                      | (NA)  | 23                       | (D)      | (D)                      |
| 356601 | Mechanical power transmission equipment, (except motor vehicle), including gears, clutches, etc..... | ..do.....                      | (X)                                   | 72,243                   | (X)      | 264,000                  | (X)   | 4,482                    | (X)      | (NA)                     |
| 970099 | All other materials and components, parts, containers, and supplies consumed.....                    | ..do.....                      | (X)                                   | 490,642                  | (X)      | 357,927                  | (X)   | 83,895                   | (X)      | 66,185                   |
| 976000 | Materials, parts, containers and supplies, n.s.k. <sup>3</sup> .....                                 | ..do.....                      | (X)                                   | 60,298                   | (X)      | 47,049                   | (X)   | 11,593                   | (X)      | 8,157                    |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure                    | 1963     |                          | 1958     |                          |
|---|---|------------------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                                    | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3533.—OIL FIELD MACHINERY            |   |                                    |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....  |                                    | (X)      | 216,441                  | (X)      | 194,057                  |
|   | Mill shapes and forms (except castings):  |                                    |          |                          |          |                          |
|   | Carbon steel:   |                                    |          |                          |          |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....                    | 50,005   | 9,232                    | 41,104   | 7,266                    |
| 331013  | Plates.....   | ..do.....                          | 44,780   | 6,811                    | 31,593   | 4,778                    |
| 331015  | Structural shapes.....  | ..do.....                          | 32,141   | 5,109                    | 34,472   | 6,168                    |
| 331019  | All other carbon steel mill shapes and forms.....   | ..do.....                          | 27,512   | 7,072                    | 43,487   | 9,093                    |
|   | Alloy steel (except stainless):   |                                    |          |                          |          |                          |
| 331021  | Bars and bar shapes.....  | ..do.....                          | 75,025   | 19,514                   | 77,992   | 19,722                   |
| 331029  | All other alloy steel mill shapes and forms.....  | ..do.....                          | 26,207   | 7,273                    | 18,939   | 6,382                    |
| 331031  | Stainless steel mill shapes and forms.....  | ..do.....                          | 1,845    | 2,619                    | 1,466    | 1,660                    |
|   | Copper and copper-base alloy:   |                                    |          |                          |          |                          |
| 335728  | Bare wire (for electrical conduction).....  | 1,000 pounds....                   | 486      | 169                      | 89       | 27                       |
| 335790  | Insulated wire and cable.....   | 1,000 pounds (copper content)..... | 20       | 28                       |          |                          |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 pounds....                   | 1,229    | 832                      | 1,393    | 763                      |
| 335123  | Plate, sheet, and strip, including military cups and discs.....                                       | ..do.....                          | 101      | 92                       |          |                          |
| 335127  | Pipe and tube.....  | ..do.....                          | 1,023    | 541                      |          |                          |
|   | Aluminum and aluminum-base alloy:   |                                    |          |                          |          |                          |
| 335202  | Sheet, plate and foil.....  | ..do.....                          | 198      | 139                      | (NA)     | (NA)                     |
| 335205  | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                                       | ..do.....                          | 431      | 380                      | (NA)     | (NA)                     |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                          | 223      | 141                      | (NA)     | (NA)                     |
|   | Castings (rough and semifinished):  |                                    |          |                          |          |                          |
| 332011  | Iron (gray and malleable) <sup>1</sup> .....  | Short tons.....                    | 45,986   | 12,858                   | 32,235   | 7,703                    |
| 332300  | Steel <sup>1</sup> .....  | ..do.....                          | 17,017   | 11,513                   | 22,467   | 11,803                   |
| 336100  | Aluminum and aluminum-base alloy <sup>1</sup> .....   | 1,000 pounds....                   | 1,753    | 858                      | (NA)     | (NA)                     |
| 336200  | Copper and copper-base alloy <sup>1</sup> .....   | ..do.....                          | 2,010    | 1,403                    | 1,377    | 910                      |
| 339100  | Iron and steel forgings <sup>1</sup> .....  | Short tons.....                    | 17,136   | 7,831                    | 21,899   | 12,101                   |
|   | Engines:  |                                    |          |                          |          |                          |
| 351920  | Diesel and semidiesel <sup>1</sup> .....  | Number.....                        | 843      | 3,334                    | 695      | 2,460                    |
| 351901  | Gasoline and other carburetor <sup>1</sup> .....  | ..do.....                          | 563      | 720                      | 1,479    | 1,967                    |
|   | Bearings:   |                                    |          |                          |          |                          |
| 356218  | Ball.....   | .....                              | (X)      | 1,665                    | (X)      | 3,221                    |
| 356228  | Roller.....   | .....                              | (X)      | 2,680                    |          |                          |
| 970099  | All other materials and components, parts containers and supplies consumed.....                       |                                    | (X)      | 89,328                   | (X)      | 93,504                   |
| 976000  | Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....                                 |                                    | (X)      | 24,299                   | (X)      | 4,529                    |
| INDUSTRY 3534.—ELEVATORS AND MOVING STAIRWAYS |   |                                    |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....  |                                    | (X)      | 108,235                  | (X)      | 62,717                   |
|   | Mill shapes and forms (except castings):  |                                    |          |                          |          |                          |
|   | Carbon steel:   |                                    |          |                          |          |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....                    | 18,516   | 3,281                    | 9,088    | 1,733                    |
| 331012  | Sheet and strip.....  | ..do.....                          | 20,199   | 3,481                    | 11,671   | 2,027                    |
| 331013  | Plates.....   | ..do.....                          | 8,868    | 1,439                    | 6,983    | 1,028                    |
| 331015  | Structural shapes.....  | ..do.....                          | 17,356   | 2,700                    | 16,449   | 3,756                    |
| 331017  | Wire and wire products.....   | ..do.....                          | 1,380    | 977                      | 1,107    | 689                      |
| 331019  | All other carbon steel mill shapes and forms.....   | ..do.....                          | 21,010   | 4,685                    | 7,014    | 1,455                    |
| 331020  | Alloy steel (except stainless).....   | ..do.....                          | 880      | 251                      | 660      | 335                      |
| 331031  | Stainless steel.....  | ..do.....                          | 588      | 723                      | 395      | 906                      |
|   | Copper and copper-base alloy:   |                                    |          |                          |          |                          |
| 335728  | Bare wire (for electrical conduction).....  | 1,000 pounds....                   | 289      | 199                      | 2,109    | 1,574                    |
| 335790  | Insulated wire and cable.....   | 1,000 pounds (copper content)..... | 2,787    | 2,026                    |          |                          |
| 335102  | Rod, bar, and mechanical wire including extruded and/or drawn shapes.....                             | 1,000 pounds....                   | 261      | 149                      | 585      | 398                      |
| 335123  | Plate, sheet, and strip, including military cups and discs.....                                       | ..do.....                          | 506      | 355                      |          |                          |
| 335127  | Pipe and tube.....  | ..do.....                          | 826      | 533                      |          |                          |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | Unit of measure                    | 1963     |                          | 1958     |                          |
|--|---|------------------------------------|----------|--------------------------|----------|--------------------------|
|  |   |                                    | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3534.—ELEVATORS AND MOVING STAIRWAYS—Con.     |   |                                    |          |                          |          |                          |
| Mill shapes and forms (except castings):—Continued     |   |                                    |          |                          |          |                          |
| Aluminum and aluminum-base alloy:                      |   |                                    |          |                          |          |                          |
| 335202   | Sheet, plate and foil.....  | 1,000 pounds....                   | 85       | 45                       | } 444    | } 356                    |
| 335205   | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                                       | ...do.....                         | 439      | 224                      |          |                          |
| 335209   | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ...do.....                         | 77       | 33                       |          |                          |
| Castings (rough and semifinished):                     |   |                                    |          |                          |          |                          |
| 332011   | Iron (gray and malleable) <sup>1</sup> .....  | Short tons.....                    | 8,455    | 3,157                    | 7,508    | 2,402                    |
| 332300   | Steel <sup>1</sup> .....  | ...do.....                         | 1,300    | 1,173                    | 1,610    | 1,275                    |
| 336100   | Aluminum and aluminum-base alloy <sup>1</sup> .....   | 1,000 pounds....                   | 1,284    | 774                      | (NA)     | (NA)                     |
| 336200   | Copper and copper-base alloy <sup>1</sup> .....   | ...do.....                         | 960      | 880                      | 214      | 171                      |
| 339100   | Iron and steel forgings <sup>1</sup> .....  | Short tons.....                    | 835      | 615                      | (NA)     | (NA)                     |
| 351901   | Gasoline and other carburetor engines <sup>1</sup> .....  | Number.....                        | (D)      | (D)                      | (NA)     | (NA)                     |
| Electric motors and generators:                        |   |                                    |          |                          |          |                          |
| 362115   | Fractional horsepower electric motors (under 1 hp.) (excluding timing motors) <sup>1</sup> .....      | ...do.....                         | 12,783   | 779                      | 6,988    | 375                      |
| 362120   | Integral horsepower motors and generators (1 hp. and over) <sup>1</sup> .....                         | ...do.....                         | 9,473    | 4,081                    | 7,076    | 3,462                    |
| Bearings:  |   |                                    |          |                          |          |                          |
| 356218   | Ball.....   | .....                              | (X)      | 1,221                    | (NA)     | (NA)                     |
| 356228   | Roller.....   | .....                              | (X)      | 398                      | (NA)     | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....                     | .....                              | (X)      | 58,380                   | (X)      | 34,525                   |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....                                 | .....                              | (X)      | 15,676                   | (X)      | 6,250                    |
| INDUSTRY 3535.—CONVEYORS                               |   |                                    |          |                          |          |                          |
| Materials, parts, containers, and supplies, total..... |   |                                    | (X)      | 173,961                  | (X)      | 141,103                  |
| Mill shapes and forms (except castings):               |   |                                    |          |                          |          |                          |
| Carbon steel:  |   |                                    |          |                          |          |                          |
| 331011   | Bars and bar shapes.....  | Short tons.....                    | 42,897   | 7,562                    | 31,736   | 5,314                    |
| 331012   | Sheet and strip.....  | ...do.....                         | 57,475   | 8,844                    | 42,994   | 6,772                    |
| 331013   | Plates.....   | ...do.....                         | 37,870   | 5,604                    | 32,738   | 4,716                    |
| 331015   | Structural shapes.....  | ...do.....                         | 46,670   | 7,994                    | 40,053   | 6,487                    |
| 331017   | Wire and wire products.....   | ...do.....                         | 1,723    | 902                      | 2,471    | 658                      |
| 331019   | All other carbon steel mill shapes and forms.....   | ...do.....                         | 28,030   | 5,422                    | 13,376   | 2,862                    |
| 331020   | Alloy steel (except stainless).....   | ...do.....                         | 4,361    | 1,356                    | 2,250    | 733                      |
| 331031   | Stainless steel.....  | ...do.....                         | 2,174    | 2,743                    | 1,522    | 2,177                    |
| Copper and copper-base alloy:                          |   |                                    |          |                          |          |                          |
| 335728   | Bare wire (for electrical conduction).....  | 1,000 pounds....                   | 68       | 37                       | } 139    | } 109                    |
| 335790   | Insulated wire and cable.....   | 1,000 pounds (copper content)..... | 288      | 204                      |          |                          |
| 335102   | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 pounds....                   | 404      | 254                      |          |                          |
| 335123   | Plate, sheet, and strip, including military cups and discs.....                                       | ...do.....                         | 218      | 142                      | 405      | 211                      |
| 335127   | Pipe and tube.....  | ...do.....                         | 2,369    | 1,555                    |          |                          |
| Aluminum and aluminum-base alloy:                      |   |                                    |          |                          |          |                          |
| 335202   | Sheet, plate, and foil.....   | ...do.....                         | 1,448    | 677                      | 906      | 473                      |
| 335205   | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                                       | ...do.....                         | 1,669    | 1,037                    | } 283    | } 268                    |
| 335209   | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ...do.....                         | 219      | 195                      |          |                          |
| Castings (rough and semifinished):                     |   |                                    |          |                          |          |                          |
| 332011   | Iron (gray and malleable) <sup>1</sup> .....  | Short tons.....                    | 12,323   | 5,211                    | 13,847   | 5,229                    |
| 332300   | Steel <sup>1</sup> .....  | ...do.....                         | 2,067    | 1,269                    | 3,250    | 1,820                    |
| 336100   | Aluminum and aluminum-base alloy <sup>1</sup> .....   | 1,000 pounds....                   | 757      | 820                      | (NA)     | (NA)                     |
| 336200   | Copper and copper-base alloy <sup>1</sup> .....   | ...do.....                         | 152      | 139                      | 196      | 211                      |
| 339100   | Iron and steel forgings <sup>1</sup> .....  | Short tons.....                    | 3,700    | 2,743                    | (NA)     | 23,000                   |
| 351901   | Gasoline and other carburetor engines <sup>1</sup> .....  | Number.....                        | 856      | 211                      | 1,748    | 121                      |
| Electric motors and generators:                        |   |                                    |          |                          |          |                          |
| 362115   | Fractional horsepower electric motors (under 1 hp.) (excluding timing motors).....                    | ...do.....                         | 36,506   | 2,649                    | 18,015   | 1,219                    |
| 362120   | Integral horsepower motors and generators (1 hp. and over).....                                       | ...do.....                         | 19,540   | 3,451                    | 13,870   | 3,436                    |
| Bearings:  |   |                                    |          |                          |          |                          |
| 356218   | Ball.....   | .....                              | (X)      | 2,920                    | } (NA)   | } (NA)                   |
| 356228   | Roller.....   | .....                              | (X)      | 1,803                    |          |                          |
| 369101   | Storage batteries.....  | Number.....                        | 489      | 10                       | (NA)     | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....                     | .....                              | (X)      | 80,751                   | (X)      | 80,206                   |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....                                 | .....                              | (X)      | 27,456                   | (X)      | 15,081                   |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure                    | 1963     |                          | 1958     |                          |
|---|---|------------------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                                    | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3536.—HOISTS, CRANES, AND MONORAILS  |   |                                    |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....  |                                    | (X)      | 101,430                  | (X)      | 78,611                   |
|   | Mill shapes and forms (except castings):  |                                    |          |                          |          |                          |
|   | Carbon steel:   |                                    |          |                          |          |                          |
| 331011  | Bar and bar shapes.....   | Short tons.....                    | 15,836   | 3,142                    | 13,892   | 2,426                    |
| 331012  | Sheet and strip.....  | ..do.....                          | 7,198    | 979                      | 3,799    | 589                      |
| 331013  | Plates.....   | ..do.....                          | 65,967   | 10,441                   | 40,004   | 5,708                    |
| 331015  | Structural shapes.....  | ..do.....                          | 47,407   | 7,250                    | 27,313   | 4,202                    |
| 331017  | Wire and wire products.....   | ..do.....                          | 1,127    | 644                      | 853      | 538                      |
| 331019  | All other carbon steel mill shapes and forms.....   | ..do.....                          | 12,202   | 2,956                    | 5,422    | 1,186                    |
|   | Alloy steel (except stainless):   |                                    |          |                          |          |                          |
| 331021  | Bars and bar shapes.....  | ..do.....                          | 1,547    | 561                      | 882      | 230                      |
| 331029  | All other alloy steel mill shapes and forms.....  | ..do.....                          | 669      | 521                      | 1,069    | 199                      |
| 331031  | Stainless steel.....  | ..do.....                          | 94       | 147                      | (NA)     | (NA)                     |
|   | Copper and copper-base alloy:   |                                    |          |                          |          |                          |
| 335728  | Bare wire (for electrical conduction).....  | 1,000 pounds....                   | 293      | 175                      | 107      | 70                       |
| 335790  | Insulated wire and cable.....   | 1,000 pounds (copper content)..... | 1,708    | 1,337                    | 816      | 728                      |
| 335102  | Rod, bar, and mechanical wire including extruded and/or drawn shapes.....                             | 1,000 pounds....                   | 188      | 90                       | 108      | 90                       |
| 335123  | Plate, sheet strip, including military cups and discs.....  | ..do.....                          | -        | -                        |          |                          |
| 335127  | Pipe and tube.....  | ..do.....                          | 1,075    | 540                      |          |                          |
|   | Aluminum and aluminum-base alloy:   |                                    |          |                          |          |                          |
| 335202  | Sheet, plate, and foil.....   | ..do.....                          | 471      | 264                      | 107      | 82                       |
| 335205  | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                                       | ..do.....                          | 284      | 179                      |          |                          |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                          | 35       | 29                       |          |                          |
|   | Castings (rough and semifinished):  |                                    |          |                          |          |                          |
| 332011  | Iron (gray and malleable) <sup>1</sup> .....  | ..do.....                          | 7,939    | 3,411                    | 10,881   | 4,203                    |
| 332300  | Steel <sup>1</sup> .....  | ..do.....                          | 6,214    | 4,295                    | 5,202    | 3,303                    |
| 336100  | Aluminum and aluminum-base alloy <sup>1</sup> .....   | 1,000 pounds....                   | 1,135    | 1,154                    | 331      | 423                      |
| 336200  | Copper and copper-base alloy <sup>1</sup> .....   | ..do.....                          | 988      | 711                      | 822      | 472                      |
| 339100  | Iron and steel forgings <sup>1</sup> .....  | Short tons.....                    | 14,011   | 3,061                    | 555      | 405                      |
|   | Engines:  |                                    |          |                          |          |                          |
| 351920  | Diesel and semidiesel <sup>1</sup> .....  | Number.....                        | 49       | 284                      | 28       | 160                      |
| 351901  | Gasoline and other carburetor <sup>1</sup> .....  | ..do.....                          | 1,696    | 280                      | 406      | 221                      |
|   | Electric motors and generators:   |                                    |          |                          |          |                          |
| 362115  | Fractional horsepower electric motors (under 1 hp.) (excluding timing motors) <sup>1</sup> .....      | ..do.....                          | 20,466   | 859                      | 15,687   | 699                      |
| 362120  | Integral horsepower motors and generators (1 hp. and over) <sup>1</sup> .....                         | ..do.....                          | 20,986   | 7,165                    | 11,719   | 4,170                    |
|   | Bearings:   |                                    |          |                          |          |                          |
| 356218  | Ball.....   |                                    | (X)      | 974                      | (X)      | 245                      |
| 356228  | Roller.....   |                                    | (X)      | 1,775                    |          |                          |
| 301131  | Pneumatic tires.....  | Number.....                        | 3,375    | 157                      | (NA)     | (NA)                     |
| 301141  | Inner tubes.....  | ..do.....                          | 1,130    | 10                       | (NA)     | (NA)                     |
| 356601  | Mechanical power transmission equipment, (except motor vehicle) including gears, clutches, etc.....   |                                    | (X)      | 4,793                    | (X)      | (NA)                     |
| 970099  | All other materials and components, parts, containers and supplies consumed.....                      |                                    | (X)      | 37,822                   | (X)      | 46,206                   |
| 976000  | Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....                                 |                                    | (X)      | 5,424                    | (X)      | 2,056                    |
| INDUSTRY 3537.—INDUSTRIAL TRUCKS AND TRACTORS |   |                                    |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....  |                                    | (X)      | 192,548                  | (X)      | 119,560                  |
|   | Mill shapes and forms (except castings):  |                                    |          |                          |          |                          |
|   | Carbon steel:   |                                    |          |                          |          |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....                    | 42,477   | 7,200                    | 22,651   | 3,652                    |
| 331012  | Sheet and strip.....  | ..do.....                          | 43,394   | 6,351                    | 15,076   | 2,316                    |
| 331013  | Plates.....   | ..do.....                          | 54,092   | 7,724                    | 28,645   | 4,078                    |
| 331015  | Structural shapes.....  | ..do.....                          | 19,265   | 3,591                    | 12,934   | 2,163                    |
| 331017  | Wire and wire products.....   | ..do.....                          | 382      | 83                       | 4,071    | 723                      |
| 331019  | All other carbon mill shapes and forms.....   | ..do.....                          | 15,025   | 3,300                    | 3,531    | 978                      |
| 331020  | Alloy steel (except stainless).....   | ..do.....                          | 2,634    | 907                      | 2,296    | 853                      |
| 331031  | Stainless steel.....  | ..do.....                          | 439      | 599                      | 154      | 185                      |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | Unit of measure                    | 1963     |                          | 1958     |                          |                    |
|--|---|------------------------------------|----------|--------------------------|----------|--------------------------|--------------------|
|  |   |                                    | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |                    |
| INDUSTRY 3537.—INDUSTRIAL TRUCKS AND TRACTORS—Con. |   |                                    |          |                          |          |                          |                    |
| Mill shapes and forms (except castings):—Continued |   |                                    |          |                          |          |                          |                    |
| Copper and copper-base alloy:                      |   |                                    |          |                          |          |                          |                    |
| 335728   | Bare wire (for electrical conduction).....  | 1,000 pounds.....                  | 44       | 42                       | }        | 223                      | 155                |
| 335790   | Insulated wire and cable.....   | 1,000 pounds (copper content)..... | 539      | 368                      |          |                          |                    |
| 335102   | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 pounds.....                  | 28       | 29                       | }        | 128                      | 95                 |
| 335123   | Plate, sheet, and strip, including military cups and discs.....                                       | ..do.....                          | 24       | 19                       |          |                          |                    |
| 335127   | Pipe and tube.....  | ..do.....                          | 227      | 191                      |          |                          |                    |
| Aluminum and aluminum-base alloy:                  |   |                                    |          |                          |          |                          |                    |
| 335202   | Sheet, plate, and foil.....   | ..do.....                          | 1,402    | 725                      | }        | 451                      | 475                |
| 335205   | Extruded shapes, including extruded rod, bar, pipe, tube, etc....                                     | ..do.....                          | 473      | 273                      |          |                          |                    |
| 335209   | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                          | 45       | 42                       |          |                          |                    |
| Castings (rough and semifinished):                 |   |                                    |          |                          |          |                          |                    |
| 332011   | Iron (gray and malleable) <sup>1</sup> .....  | Short tons.....                    | 33,716   | 8,392                    | 24,060   | 5,578                    |                    |
| 332300   | Steel <sup>1</sup> .....  | ..do.....                          | 5,765    | 4,087                    | 5,855    | 3,422                    |                    |
| 336100   | Aluminum and aluminum-base alloy <sup>1</sup> .....   | 1,000 pounds.....                  | 926      | 664                      | (NA)     | (NA)                     |                    |
| 336200   | Copper and copper-base alloy <sup>1</sup> .....   | ..do.....                          | 146      | 126                      | 359      | 348                      |                    |
| 339100   | Iron and steel forgings <sup>1</sup> .....  | Short tons.....                    | 2,700    | 2,799                    | (NA)     | <sup>2</sup> 2,000       |                    |
| 351901   | Gasoline and other carburetor engines <sup>1</sup> .....  | Number.....                        | 29,485   | 11,195                   | 18,422   | 6,469                    |                    |
| Electric motors and generators:                    |   |                                    |          |                          |          |                          |                    |
| 362115   | Fractional horsepower electric motors (under 1 hp.) (excluding timing motors) <sup>1</sup> .....      | ..do.....                          | 9,394    | 614                      | 8,790    | 313                      |                    |
| 362120   | Integral horsepower motors and generators (1 hp. and over) <sup>1</sup> .....                         | ..do.....                          | 21,748   | 2,317                    | 7,542    | 911                      |                    |
| Bearings:  |   |                                    |          |                          |          |                          |                    |
| 356218   | Ball.....   | .....                              | (X)      | 1,949                    | }        | (X)                      | <sup>2</sup> 3,000 |
| 356228   | Roller.....   | .....                              | (X)      | 1,776                    |          |                          |                    |
| 369101   | Storage batteries.....  | Number.....                        | 33,617   | 2,796                    | 18,857   | 2,235                    |                    |
| 970099   | All other materials and components, parts, containers and supplies consumed.....                      | .....                              | (X)      | 110,029                  | (X)      | 67,501                   |                    |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....                                 | .....                              | (X)      | 14,360                   | (X)      | 11,679                   |                    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

<sup>1</sup>In addition the quantities listed below were produced and incorporated into products at the same establishment:

| Code                            | Item   | Unit of measure for quantities | Industry |        |        |       |       |       |      |       |      |      |       |       |
|---------------------------------|--|--------------------------------|----------|--------|--------|-------|-------|-------|------|-------|------|------|-------|-------|
|                                 |  |                                | 3531     |        | 3532   |       | 3533  |       | 3534 |       | 3535 |      | 3537  |       |
|                                 |  |                                | 1963     | 1958   | 1963   | 1958  | 1963  | 1958  | 1963 | 1963  | 1963 | 1958 | 1963  | 1958  |
| 332011                          | Castings (rough and semifinished):   |                                |          |        |        |       |       |       |      |       |      |      |       |       |
|                                 | Iron (gray and malleable).....   | Short tons                     | (NA)     | 3,862  | 12,187 | 3,628 | 3,883 | 4,031 | (D)  | 9,769 | -    | 297  | (D)   | 1,805 |
| 332300                          | Steel.....   | Short tons                     | (NA)     | 3,000  | 1,341  | (NA)  | 1,636 | 1,273 | (D)  | (D)   | -    | 350  | (D)   | (NA)  |
| 336100                          | Aluminum and aluminum-base alloy   | 1,000 lbs.                     | (D)      | (D)    | (D)    | (NA)  | -     | (NA)  | (D)  | (D)   | -    | (D)  | -     | (NA)  |
| 336200                          | Copper and copper-base alloy.....  | ..do.....                      | (D)      | (D)    | 1,651  | (NA)  | (D)   | (NA)  | (D)  | (D)   | -    | (D)  | -     | (NA)  |
| 339100                          | Iron and steel forgings.....   | Short tons                     | 34,026   | 3,955  | (D)    | (NA)  | (D)   | (D)   | -    | -     | (D)  | (D)  | -     | (NA)  |
| Engines:                        |  |                                |          |        |        |       |       |       |      |       |      |      |       |       |
| 351920                          | Diesel and semidiesel.....   | Number....                     | (D)      | 16,330 | -      | (NA)  | -     | (NA)  | (X)  | (X)   | -    | (NA) | (X)   | (NA)  |
| 351901                          | Gasoline and other carburetor....  | Number....                     | 9,415    | 8,326  | (D)    | (NA)  | -     | (D)   | -    | -     | -    | (NA) | -     | (NA)  |
| Electric motors and generators: |  |                                |          |        |        |       |       |       |      |       |      |      |       |       |
| 362115                          | Fractional horsepower electric motors (under 1 hp.) (excluding timing motors)..... | ..do.....                      | 739      | (D)    | (D)    | (NA)  | (X)   | (NA)  | (D)  | 275   | (D)  | (D)  | (D)   | (NA)  |
| 362120                          | Integral horsepower motors and generators (1 hp. and over)....                     | ..do.....                      | 9,134    | 4,590  | (D)    | (NA)  | (X)   | (NA)  | (D)  | (D)   | (D)  | (D)  | 6,822 | (NA)  |

<sup>2</sup>Represents estimates published in MC58(1)-7 (Supplement), Selected Materials Consumed, from data collected in a supplemental survey on Form MA-131, Consumption of Materials, Parts, Containers and Supplies, During 1958. This survey was limited to large establishments in selected chemical, machinery, and equipment industries and resulted in estimate which are subject to greater error than are the figures on materials consumption collected as a regular part of the census of manufactures.

<sup>3</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" when separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Construction machinery (SIC 3531) | Mining machinery and equipment (SIC 3532) | Oil field machinery (SIC 3533) | Elevators and moving stairways (SIC 3534) | Conveyors (SIC 3535) | Hoists, cranes, and monorails (SIC 3536) | Industrial trucks and tractors (SIC 3537) |
|---|-----------------------------------|---|--------------------------------|---|----------------------|--|---|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 22,940                            | 5,068                                     | 5,748                          | 1,754                                     | 3,054                | 1,375                                    | 2,307                                     |
| Total cost of purchased fuels.....do....  | 9,213                             | 1,662                                     | 2,063                          | 669                                       | 1,238                | 543                                      | 835                                       |
| Bituminous coal, lignite, and anthracite:   |                                   |   |                                |   |                      |  |   |
| Quantity.....1,000 short tons..   | 425                               | 41  | (S)                            | (S)                                       | 22                   | 17                                       | 23  |
| Cost.....\$1,000..  | 2,969                             | 394                                       | (S)                            | (S)                                       | 215                  | 148                                      | 185                                       |
| Coke and breeze:  |                                   |   |                                |   |                      |  |   |
| Quantity.....1,000 short tons..   | 10                                | 4   | -                              | (S)                                       | (S)                  | -  | (S)                                       |
| Cost.....\$1,000..  | 311                               | 147                                       | -                              | (S)                                       | (S)                  | -  | (S)                                       |
| Fuel oil (distillate and residual):   |                                   |   |                                |   |                      |  |   |
| Quantity.....1,000 barrels of 42 gallons..  | 476                               | (S)                                       | (S)                            | 86  | 61                   | 29                                       | 41  |
| Cost.....\$1,000..  | 1,911                             | (S)                                       | (S)                            | 230                                       | 243                  | 111                                      | 154                                       |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |                                   |   |                                |   |                      |  |   |
| Quantity.....million cu.ft..  | 5,516                             | 1,196                                     | 5,618                          | (S)                                       | 757                  | 316                                      | 552                                       |
| Cost.....\$1,000..  | 3,067                             | 634                                       | 1,733                          | (S)                                       | 496                  | 232                                      | 340                                       |
| Other fuels.....do....  | 955                               | 114                                       | (S)                            | 71  | (S)                  | 52                                       | (S)                                       |
| Electric energy:  |                                   |   |                                |   |                      |  |   |
| Purchased:  |                                   |   |                                |   |                      |  |   |
| Quantity.....million kw.-hrs..  | 1,132                             | (S)                                       | 320                            | 60  | 103                  | 55                                       | 106                                       |
| Cost.....\$1,000..  | 13,727                            | (S)                                       | 3,685                          | 1,085                                     | 1,816                | 832                                      | 1,472                                     |
| Generated less sold.....million kw.-hrs..   | 7                                 | 6   | -                              | (S)                                       | -                    | -  | -   |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 933                               | 221                                       | 298                            | 57  | 114                  | 92                                       | 73  |
| Prime movers, total.....do....  | 89                                | 20  | 30                             | 6   | 12                   | 19                                       | 15  |
| Driving generators.....do....   | 23                                | 8   | 3                              | 4   | 1                    | 1  | (Z)                                       |
| Not driving generators.....do....   | 66                                | 12  | 27                             | 2   | 11                   | 18                                       | 15  |
| Electric motors, total.....do....   | 850                               | 211                                       | 268                            | 54  | 102                  | 73                                       | 58  |
| Driven by purchased energy.....do....   | 844                               | 202                                       | 268                            | 51  | 102                  | 73                                       | 58  |
| Driven by energy generated at establishment.....do....  | 6                                 | 9   | -                              | 3   | -                    | -  | -   |
| Aggregate horsepower per 100 production workers.....  | 1,308                             | 1,865                                     | 1,603                          | 1,039                                     | 897                  | 1,595                                    | 674                                       |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3531-                          | CONSTRUCTION MACHINERY   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 617                     | 104,520        | 683,728           | 76,526             | 155,267           | 462,411         | 1,301,266                                      | 1,403,162                   | 2,696,039                    | 56,227                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 485                     | 65,796         | 432,770           | 47,955             | 97,577            | 291,600         | 780,800  | 979,069                     | 1,749,579                    | 40,290                              |
|                                | 75-89% specialization.....   | 41                      | 19,900         | 132,150           | 15,521             | 30,992            | 94,945          | 313,171  | 228,179                     | 535,031                      | 9,340                               |
| 35311                          | Contractors' off-highway wheel tractors, except parts and attachments (primary product class of estab.).....                                 | 9                       | 2,725          | 18,187            | 1,867              | 3,831             | 11,327          | 37,822   | 56,452                      | 92,445                       | 849                                 |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | -                       | -              | -                 | -                  | -                 | -               | -  | -                           | -                            | -                                   |
|                                | 75-89% specialization.....   | 4                       | 358            | 1,881             | 252                | 566               | 1,276           | 3,008  | 7,878                       | 10,423                       | 62                                  |
| 35314                          | Power cranes (including locomotives, full circle, revolving with booms) draglines, shovels, and parts (primary product class of estab.)..... | 58                      | 22,805         | 147,141           | 16,090             | 32,972            | 98,461          | 263,242  | 254,946                     | 533,113                      | 8,120                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 37                      | 11,530         | 72,266            | 8,199              | 17,168            | 49,564          | 143,369  | 137,454                     | 291,353                      | 3,392                               |
|                                | 75-89% specialization.....   | 10                      | 5,584          | 37,125            | 3,997              | 7,852             | 24,549          | 61,272   | 72,057                      | 138,439                      | 2,581                               |
| 35316                          | Mixers, pavers, and related equipment, excluding parts (primary product class of estab.).....  | 58                      | 7,737          | 49,950            | 5,263              | 10,716            | 29,466          | 90,430   | 89,557                      | 184,389                      | 2,053                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 15                      | 248            | 1,608             | 183                | 387               | 1,070           | 2,513  | 2,580                       | 5,075                        | 166                                 |
|                                | 75-89% specialization.....   | 10                      | 792            | 4,308             | 651                | 1,250             | 3,060           | 8,021  | 9,995                       | 18,850                       | 248                                 |
| 35317                          | Integral tractor-shovel loaders (wheels, tracklaying types), including parts (primary product class of estab.).....                          | 14                      | 12,600         | 88,016            | 9,332              | 18,496            | 61,193          | 131,604  | 211,603                     | 342,322                      | 10,502                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 75% or more.....   | 7                       | 4,815          | 33,712            | 3,448              | 7,248             | 22,360          | 66,181   | 109,890                     | 173,029                      | 3,932                               |
| 35318                          | Scrapers, graders, rollers and off-highway trucks, trailers, and wagons, excluding parts (primary product class of estab.).....              | 69                      | 19,408         | 130,748           | 14,574             | 30,303            | 90,438          | 259,478  | 333,476                     | 577,959                      | 13,272                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 21                      | 1,930          | 10,990            | 1,385              | 2,787             | 7,016           | 21,577   | 37,143                      | 57,857                       | 3,243                               |
|                                | 75-89% specialization.....   | 11                      | 1,702          | 11,353            | 1,351              | 2,813             | 8,010           | 22,733   | 31,659                      | 53,001                       | 822                                 |
| 35319                          | Other construction machinery and equipment, including construction machinery parts, n.e.c. (primary product class of estab.).....            | 161                     | 13,747         | 85,441            | 9,742              | 19,810            | 52,573          | 152,417  | 155,531                     | 309,265                      | 6,140                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 89                      | 4,479          | 28,991            | 3,134              | 6,641             | 16,934          | 58,933   | 58,286                      | 114,290                      | 2,769                               |
|                                | 75-89% specialization.....   | 19                      | 1,378          | 8,560             | 984                | 2,041             | 5,164           | 14,421   | 13,653                      | 28,548                       | 720                                 |
| 3532-                          | MINING MACHINERY AND EQUIPMENT   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 204                     | 16,910         | 109,531           | 11,814             | 23,289            | 67,669          | 215,406  | 203,786                     | 417,616                      | 6,847                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 156                     | 5,938          | 38,040            | 4,178              | 8,342             | 23,809          | 85,489   | 76,853                      | 161,197                      | 2,289                               |
|                                | 75-89% specialization.....   | 14                      | 2,137          | 12,056            | 1,560              | 3,204             | 7,962           | 20,420   | 14,697                      | 36,485                       | 959                                 |
| 35321                          | Underground mining machinery and related mining equipment (primary product class of estab.).....   | 35                      | 5,141          | 33,349            | 3,618              | 6,765             | 21,097          | 59,896   | 60,120                      | 120,927                      | 1,220                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 17                      | 604            | 3,396             | 437                | 801               | 1,990           | 9,137  | 6,503                       | 15,423                       | 182                                 |
| 35322                          | Crushing, pulverizing and screening plants, stationary (primary product class of estab.).....  | 17                      | 2,208          | 16,245            | 1,417              | 2,903             | 8,481           | 32,964   | 33,394                      | 66,965                       | 1,060                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 8                       | 371            | 2,389             | 238                | 473               | 1,337           | 4,726  | 4,005                       | 8,455                        | 211                                 |

See footnotes at end of table.



TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3532-                          | MINING MACHINERY AND EQUIPMENT—Continued   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
| 35323                          | All other mining machinery (complete units), (primary product class of estab.).....                                      | 22                      | 680            | 3,870             | 546                | 1,061             | 2,590           | 9,260  | 6,701                       | 16,075                       | 157                                 |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 10                      | 193            | 1,099             | 151                | 315               | 785             | 3,319  | 2,335                       | 5,603                        | 67                                  |
|                                | 75-89% specialization.....   | 4                       | 146            | 867               | 132                | 208               | 480             | 2,849  | 1,375                       | 4,217                        | (D)                                 |
| 35324                          | Parts and attachments for mining machinery and equipment (primary product class of estab.).....                          | 67                      | 7,745          | 49,162            | 5,420              | 10,965            | 30,837          | 100,644  | 85,114                      | 181,480                      | 3,836                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 44                      | 1,528          | 9,867             | 1,123              | 2,228             | 6,326           | 21,874   | 16,177                      | 37,617                       | 844                                 |
| 3533-                          | OIL FIELD MACHINERY  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 408                     | 29,203         | 184,288           | 20,114             | 41,409            | 113,526         | 398,152  | 264,350                     | 666,532                      | 11,321                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 349                     | 19,066         | 121,933           | 13,046             | 26,708            | 75,840          | 279,433  | 164,595                     | 449,292                      | 7,900                               |
|                                | 75-89% specialization.....   | 21                      | 4,238          | 25,828            | 3,105              | 6,449             | 16,888          | 51,600   | 42,181                      | 92,984                       | 1,656                               |
| 35331                          | Rotary oil and gas field drilling machinery and equipment (primary product class of estab.).....                         | 77                      | 10,744         | 69,868            | 7,079              | 14,527            | 41,204          | 163,110  | 77,923                      | 245,473                      | 3,880                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 54                      | 8,152          | 53,624            | 5,376              | 10,921            | 31,673          | 133,459  | 51,689                      | 189,575                      | 2,941                               |
|                                | 75-89% specialization.....   | 11                      | 1,318          | 7,940             | 904                | 1,864             | 4,942           | 17,747   | 13,323                      | 30,430                       | 520                                 |
| 35332                          | Other oil and gas field drilling machinery and equipment (primary product class of estab.).....                          | 22                      | 1,474          | 10,138            | 968                | 1,954             | 5,739           | 18,934   | 10,923                      | 29,339                       | 680                                 |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 15                      | 473            | 3,052             | 370                | 762               | 2,239           | 6,021  | 2,844                       | 8,821                        | 259                                 |
| 35333                          | Oil and gas field production machinery and equipment (except pumps) (primary product class of estab.).....               | 180                     | 13,396         | 83,195            | 9,509              | 19,323            | 52,930          | 177,575  | 140,080                     | 317,925                      | 5,388                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 140                     | 4,211          | 26,051            | 2,731              | 5,753             | 15,281          | 59,089   | 47,121                      | 106,448                      | 2,220                               |
|                                | 75-89% specialization.....   | 13                      | 2,908          | 17,871            | 2,344              | 4,534             | 13,222          | 35,679   | 31,998                      | 67,572                       | 688                                 |
| 35334                          | Other oil and gas field machinery and tools (except pumps), including water wells (primary product class of estab.)..... | 36                      | 2,989          | 17,627            | 2,113              | 4,667             | 11,278          | 31,552   | 30,936                      | 62,247                       | 1,029                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 14                      | 338            | 1,855             | 267                | 513               | 1,253           | 2,949  | 2,297                       | 5,395                        | 107                                 |
|                                | 75-89% specialization.....   | 8                       | 898            | 5,133             | 649                | 1,446             | 3,328           | 4,617  | 6,343                       | 11,561                       | 214                                 |
| 3535-                          | CONVEYORS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 454                     | 20,778         | 140,617           | 12,642             | 26,312            | 74,020          | 270,475  | 231,080                     | 494,632                      | 6,125                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 362                     | 11,031         | 73,501            | 7,062              | 14,725            | 41,851          | 135,457  | 113,105                     | 246,786                      | 3,423                               |
|                                | 75-89% specialization.....   | 29                      | 3,708          | 28,012            | 2,002              | 4,260             | 12,193          | 58,119   | 44,140                      | 99,300                       | 1,291                               |
| 35351                          | Conveyors and conveying equipment (except hoists and farm elevators) (primary product class of estab.).....              | 229                     | 17,645         | 121,903           | 10,564             | 22,195            | 63,094          | 233,092  | 202,082                     | 429,362                      | 4,791                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 130                     | 5,598          | 38,477            | 3,507              | 7,474             | 21,799          | 70,510   | 58,407                      | 128,342                      | 1,834                               |
|                                | 75-89% specialization.....   | 33                      | 1,949          | 11,781            | 1,205              | 2,539             | 6,278           | 21,774   | 20,836                      | 41,940                       | 515                                 |
| 35352                          | Parts, attachments and accessories for conveyors and systems (sold separately) (primary product class of estab.).....    | 37                      | 2,032          | 12,896            | 1,320              | 2,652             | 7,211           | 26,333   | 19,841                      | 45,156                       | 838                                 |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 26                      | 839            | 4,711             | 616                | 1,237             | 2,949           | 9,709  | 7,859                       | 17,553                       | 424                                 |

See footnotes at end of table.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization                                | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3536-                          | HOISTS, CRANES, AND MONORAILS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 120                     | 9,585          | 64,301            | 6,776              | 13,980            | 41,433          | 112,327  | 110,949                     | 220,015                      | 2,644                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 98                      | 5,462          | 35,826            | 3,733              | 7,678             | 22,283          | 64,463   | 58,024                      | 119,272                      | 1,466                               |
|                                | 75-89% specialization.....  | 8                       | 1,857          | 11,948            | 1,418              | 2,774             | 8,093           | 18,737   | 25,857                      | 45,408                       | 725                                 |
| 35361                          | Hoists (primary product class of estab.).....   | 54                      | 3,319          | 20,363            | 2,379              | 4,782             | 13,477          | 41,963   | 35,470                      | 76,672                       | 1,309                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 37                      | 1,223          | 7,890             | 882                | 1,771             | 5,114           | 16,509   | 9,971                       | 25,847                       | 484                                 |
|                                | 75-89% specialization.....  | 8                       | 975            | 5,307             | 695                | 1,375             | 3,400           | 13,000   | 14,010                      | 26,983                       | 574                                 |
| 35362                          | Overhead traveling cranes and monorail systems (primary product class of estab.)..... | 41                      | 6,136          | 43,048            | 4,312              | 9,024             | 27,463          | 69,156   | 74,219                      | 140,837                      | 1,289                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 29                      | 2,239          | 15,553            | 1,454              | 2,967             | 8,822           | 23,694   | 30,249                      | 52,748                       | 383                                 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.



TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations                           | Number of establishments |   |         | Employment in the specified operation |        |   |         |            |
|---|--------------------------|---|---------|---------------------------------------|--------|---|---------|------------|
|   | Total                    | Number of production workers <sup>1</sup> |         |                                       | Total  | Number of production workers <sup>1</sup> |         |            |
|   |                          | 1 to 4                                    | 5 to 19 | 20 or more                            |        | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3531.—CONSTRUCTION MACHINERY             |                          |   |         |                                       |        |   |         |            |
| Ferrous foundry.....                              | 16                       | 1   | 3       | 12                                    | 2,987  | (D)                                       | (D)     | 2,954      |
| Nonferrous foundry (except die casting).....      | 4                        | 2   | 2       | -                                     | 16     | (D)                                       | (D)     | -          |
| Forging--presses, hammers, or upsetters.....      | 32                       | 19  | 10      | 3                                     | 319    | 30  | 95      | 194        |
| Heat treating of metals.....                      | 83                       | 59  | 13      | 11                                    | 1,050  | 110                                       | 131     | 809        |
| Automatic screw machine department.....           | 29                       | 18  | 5       | 6                                     | 542    | 29  | 44      | 469        |
| Machine shop.....                                 | 289                      | 81  | 89      | 119                                   | 17,531 | 138                                       | 902     | 16,491     |
| Tool and die shop.....                            | 99                       | 50  | 30      | 19                                    | 1,931  | 87  | 288     | 1,556      |
| Foundry pattern shop.....                         | 31                       | 16  | 12      | 3                                     | 313    | 21  | 96      | 196        |
| Plate or structural fabrication.....              | 213                      | 55  | 61      | 97                                    | 10,793 | 116                                       | 619     | 10,058     |
| Stamping, blanking and forming of metals.....     | 114                      | 59  | 33      | 22                                    | 2,570  | 102                                       | 287     | 2,181      |
| Painting, lacquering and enameling on metals..... | 255                      | 188                                       | 43      | 24                                    | 1,617  | 333                                       | 356     | 928        |
| Assembly of product.....                          | 256                      | 74  | 82      | 100                                   | 8,688  | 128                                       | 780     | 7,780      |
| INDUSTRY 3532.—MINING MACHINERY AND EQUIPMENT     |                          |   |         |                                       |        |   |         |            |
| Ferrous foundry.....                              | 13                       | 2   | 1       | 10                                    | 749    | (D)                                       | (D)     | 730        |
| Nonferrous foundry (except die casting).....      | 2                        | -   | 2       | -                                     | (D)    | -   | (D)     | -          |
| Forging--presses, hammers, or upsetters.....      | 22                       | 16  | 5       | 1                                     | 81     | 27  | (D)     | (D)        |
| Heat treating of metals.....                      | 36                       | 27  | 7       | 2                                     | 156    | 47  | (D)     | (D)        |
| Automatic screw machine department.....           | 8                        | 3   | 4       | 1                                     | 117    | 5   | (D)     | (D)        |
| Machine shop.....                                 | 91                       | 27  | 34      | 30                                    | 3,080  | 46  | 397     | 2,637      |
| Tool and die shop.....                            | 16                       | 11  | 1       | 4                                     | 152    | (D)                                       | (D)     | 113        |
| Foundry pattern shop.....                         | 18                       | 12  | 4       | 2                                     | 116    | 21  | (D)     | (D)        |
| Plate or structural fabrication.....              | 56                       | 21  | 17      | 18                                    | 1,236  | 27  | 165     | 1,044      |
| Stamping, blanking and forming of metals.....     | 25                       | 19  | 2       | 4                                     | 224    | (D)                                       | (D)     | 172        |
| Painting, lacquering and enameling on metals..... | 63                       | 54  | 6       | 3                                     | 178    | 76  | 33      | 69         |
| Assembly of product.....                          | 65                       | 30  | 20      | 15                                    | 1,066  | 54  | 175     | 837        |
| INDUSTRY 3533.—OIL FIELD MACHINERY                |                          |   |         |                                       |        |   |         |            |
| Ferrous foundry.....                              | 8                        | 3   | 3       | 2                                     | 120    | 6   | (D)     | (D)        |
| Forging--presses, hammers, or upsetters.....      | 22                       | 8   | 8       | 6                                     | 298    | 22  | 61      | 215        |
| Heat treating of metals.....                      | 60                       | 43  | 15      | 2                                     | 337    | 76  | (D)     | (D)        |
| Automatic screw machine department.....           | 20                       | 12  | 6       | 2                                     | 138    | 22  | (D)     | (D)        |
| Machine shop.....                                 | 172                      | 36  | 63      | 73                                    | 7,304  | 71  | 635     | 6,598      |
| Tool and die shop.....                            | 41                       | 12  | 22      | 7                                     | 613    | 29  | 208     | 376        |
| Plate or structural fabrication.....              | 70                       | 30  | 23      | 17                                    | 1,130  | 50  | 241     | 839        |
| Stamping, blanking and forming of metals.....     | 38                       | 25  | 11      | 2                                     | 158    | 34  | (D)     | (D)        |
| Painting, lacquering and enameling on metals..... | 102                      | 87  | 15      | -                                     | 264    | 135                                       | 129     | -          |
| INDUSTRY 3534.—ELEVATORS AND MOVING STAIRWAYS     |                          |   |         |                                       |        |   |         |            |
| Ferrous foundry.....                              | 3                        | 1   | 1       | 1                                     | (D)    | (D)                                       | (D)     | (D)        |
| Nonferrous foundry (except die casting).....      | 2                        | 2   | -       | -                                     | (D)    | (D)                                       | -       | -          |
| Heat treating of metals.....                      | 2                        | 1   | 1       | -                                     | (D)    | (D)                                       | (D)     | -          |
| Automatic screw machine department.....           | 5                        | 2   | 3       | -                                     | 36     | (D)                                       | (D)     | -          |
| Machine shop.....                                 | 57                       | 23  | 17      | 17                                    | 1,189  | 45  | 152     | 992        |
| Tool and die shop.....                            | 19                       | 12  | 4       | 3                                     | 159    | 23  | 34      | 102        |
| Foundry pattern shop.....                         | 2                        | 1   | 1       | -                                     | (D)    | (D)                                       | (D)     | -          |
| Plate or structural fabrication.....              | 46                       | 19  | 17      | 10                                    | 631    | 42  | 160     | 429        |
| Stamping, blanking and forming of metals.....     | 34                       | 19  | 12      | 3                                     | 390    | 31  | (D)     | (D)        |
| Painting, lacquering and enameling on metals..... | 48                       | 40  | 6       | 2                                     | 209    | 52  | (D)     | (D)        |
| INDUSTRY 3535.—CONVEYORS                          |                          |   |         |                                       |        |   |         |            |
| Ferrous foundry.....                              | 4                        | -   | 1       | 3                                     | 284    | -   | (D)     | (D)        |
| Nonferrous foundry (except die casting).....      | 3                        | 2   | 1       | -                                     | 12     | (D)                                       | (D)     | -          |
| Forging--presses, hammers, or upsetters.....      | 5                        | 4   | 1       | -                                     | 16     | (D)                                       | (D)     | -          |
| Heat treating of metals.....                      | 12                       | 10  | 2       | -                                     | 28     | (D)                                       | (D)     | -          |
| Automatic screw machine department.....           | 15                       | 11  | 4       | -                                     | 54     | 25  | 29      | -          |
| Machine shop.....                                 | 168                      | 87  | 60      | 21                                    | 1,777  | 153                                       | 568     | 1,056      |
| Tool and die shop.....                            | 35                       | 23  | 11      | 1                                     | 177    | 47  | (D)     | (D)        |
| Foundry pattern shop.....                         | 6                        | 4   | 2       | -                                     | 21     | (D)                                       | (D)     | -          |
| Plate or structural fabrication.....              | 161                      | 52  | 59      | 50                                    | 3,549  | 102                                       | 556     | 2,891      |
| Stamping, blanking and forming of metals.....     | 99                       | 55  | 25      | 19                                    | 867    | 106                                       | 235     | 526        |
| Painting, lacquering and enameling on metals..... | 153                      | 139                                       | 14      | -                                     | 320    | 212                                       | 108     | -          |

See footnotes at end of table.

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963—Continued

| Metalworking operations                           | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|---|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|   | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|   |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3536.—HOISTS, CRANES, AND MONORAILS      |                          |   |         |            |                                       |   |         |            |
| Forging--presses, hammers, or upsetters.....      | 2                        | -   | 2       | -          | (D)                                   | -   | (D)     | -          |
| Heat treating of metals.....                      | 8                        | 6   | 2       | -          | 27                                    | (D)                                       | (D)     | -          |
| Automatic screw machine department.....           | 8                        | 7   | 1       | -          | 21                                    | (D)                                       | (D)     | -          |
| Machine shop.....                                 | 56                       | 20  | 13      | 23         | 1,736                                 | 38  | 148     | 1,550      |
| Tool and die shop.....                            | 14                       | 5   | 6       | 3          | 156                                   | 8   | 81      | 67         |
| Foundry pattern shop.....                         | 9                        | 6   | 2       | 1          | 50                                    | 9   | (D)     | (D)        |
| Plate or structural fabrication.....              | 52                       | 19  | 17      | 16         | 1,257                                 | 41  | 195     | 1,021      |
| Stamping, blanking and forming of metals.....     | 20                       | 12  | 5       | 3          | 151                                   | 17  | 42      | 92         |
| Painting, lacquering and enameling on metals..... | 55                       | 45  | 10      | -          | 162                                   | 68  | 94      | -          |
| Assembly of product.....                          | 56                       | 23  | 16      | 17         | 1,408                                 | 55  | 170     | 1,183      |
| INDUSTRY 3537.—INDUSTRIAL TRUCKS AND TRACTORS     |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....                              | 4                        | 1   | 2       | 1          | 79                                    | (D)                                       | (D)     | (D)        |
| Nonferrous foundry (except die casting).....      | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Forging--presses, hammers, or upsetters.....      | 5                        | 4   | 1       | -          | 24                                    | (D)                                       | (D)     | -          |
| Heat treating of metals.....                      | 13                       | 9   | 3       | 1          | 70                                    | 15  | (D)     | (D)        |
| Automatic screw machine department.....           | 15                       | 9   | 5       | 1          | 72                                    | 11  | (D)     | (D)        |
| Machine shop.....                                 | 83                       | 33  | 31      | 19         | 2,093                                 | 67  | 258     | 1,768      |
| Tool and die shop.....                            | 27                       | 13  | 10      | 4          | 252                                   | 28  | 108     | 116        |
| Foundry pattern shop.....                         | 3                        | 3   | -       | -          | 3                                     | 3   | -       | -          |
| Plate or structural fabrication.....              | 84                       | 28  | 28      | 28         | 1,945                                 | 70  | 326     | 1,549      |
| Stamping, blanking and forming of metals.....     | 71                       | 38  | 26      | 7          | 685                                   | 65  | 239     | 381        |
| Painting, lacquering and enameling on metals..... | 106                      | 87  | 17      | 2          | 336                                   | 135                                       | (D)     | (D)        |

Note: Very small establishments were not requested to report their metalworking operations and in some instances a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production worker employment on the last line of the table below.

| Item  | INDUSTRY |       |       |       |       |        |       |
|---|----------|-------|-------|-------|-------|--------|-------|
|   | 3531     | 3532  | 3533  | 3534  | 3535  | 3536   | 3537  |
| Total number of establishments in the industry.....   | 617      | 204   | 408   | 142   | 454   | 120    | 314   |
| Number of establishments which reported one or more of the specified operations.....                          | 353      | 114   | 217   | 84    | 242   | 74     | 142   |
| Percent of industry production workers in these establishments.....   | 90-95    | 85-90 | 80-85 | 80-85 | 85-90 | 95-100 | 85-90 |
| Number of establishments which reported "none" of the operations apply...                                     | 14       | 7     | 14    | 6     | 13    | 4      | 12    |
| Percent of industry production workers in these establishments.....   | 0-5      | 0-5   | 0-5   | 0-5   | 0-5   | 0-5    | 0-5   |
| Percent of industry production workers in establishments which completed metalworking operations inquiry..... | 90-95    | 85-90 | 80-85 | 80-85 | 90-95 | 95-100 | 90-95 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishments.



## METALWORKING MACHINERY AND EQUIPMENT

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3541—Machine Tools, Metal-Cutting Types
- 3542—Machine Tools, Metal-Forming Types
- 3544—Special Dies and Tools, Die Sets, Jigs, and Fixtures
- 3545—Machine Tool Accessories and Measuring Devices
- 3548—Metalworking Machinery, Except Machine Tools

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

These five industries include plants primarily engaged in the production of machines, tools, and equipment for use principally in fabricating metal products. The machinery and equipment included in these industries encompass the entire range of metalworking processes utilizing cutting and forming operations. Plants in industries 3541, 3542, and 3548 produce complete machines such as lathes, drilling machines, grinding and polishing machines, presses, die-casting machines, and rolling-mill equipment; plants in industries 3544 and 3545 manufacture equipment and tools for use with those machines, such as dies, jigs, fixtures, cutting tools, work holding devices, industrial molds, and precision measuring instruments.

As a means of providing for consistent reporting of machinery produced on a subcontract basis, machine tool and metalworking machinery manufacturers were instructed to include in their report all machines produced for them by others on a subcontract basis. Conversely, the plants producing such machines were instructed to exclude such products from their shipments reports and to show all receipts for subcontract work as "receipts for work done for others on their own materials."

### 3541—MACHINE TOOLS, METAL-CUTTING TYPES

This industry comprises establishments primarily engaged in manufacturing power-driven machines, not supported in the hands of an operator when in use, that shape metal by cutting or use of electrical techniques; the rebuilding of such machine tools, and the manufacture of replacement parts for them. Metalworking, or primarily metalworking machine tools designed primarily for home workshops are also included. Establishments primarily engaged in the manufacture of electric welding equipment are classified in industry 3623; and portable power-driven hand tools, machinery and gas welding and cutting equipment,

and automotive maintenance equipment in industry 3548. For a detailed list of products of industry 3541, refer to table 6A, product codes 3541111 to 3541941.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Metal-Cutting Machine Tools Industry totaled \$1,061 million. This amount included shipments of machine tools, metal-cutting types (primary products), valued at \$805 million, shipments of other products (secondary products) valued at \$188 million, and miscellaneous receipts (largely products bought and resold) at \$68 million.

This industry's shipments of metal-cutting machine tools represented 81 percent of its total product shipments. The industry specialization ratio in 1958 was 85 percent. Secondary products shipped by this industry in 1963 include small cutting tools for machine tools and metalworking machinery (\$30 million), and other attachments and accessories for machine tools and metalworking machinery (\$28 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 26 percent of the total industry shipments are represented by plants specializing in lathes; and 16 percent in milling machines.

Shipments of machine tools, metal-cutting types, by this industry represented 87 percent of all shipments of these products (\$925 million) by all industries. In 1958 the coverage ratio was 89 percent. Other industries shipping machine tools, metal-cutting type, include industry 3545, Machine Tool Accessories, \$29 million; and industry 3542, Metal-Forming Machine Tools, \$5 million.

While machine tools are usually built for industrial purposes, some types of small size, light construction, and low price are designed primarily for the home workshop, the laboratory, the service shop, or the like. Light machine tools, usually of more precise construction than the home workshop type, are also used in industrial plants, either in batteries to accomplish the same purpose as one or two heavier machine tools, as accessory equipment in the company's machine shop, as "standby machines," or for special types of work. In some industries where a light machine tool more adequately serves the purpose at hand, this type of tool is part of the main production line. Home workshop tools may be used incidentally in industrial establishments, but this is the exception rather than the rule. Home workshop machine tools (other than power-driven hand tools) which were designed primarily for metalworking or for use on metal and wood are classified in industry 3541. However, those that are designed primarily for woodworking are classified in industry 3553, Woodworking Machinery.

The product detail shown in table 6A is essentially the same as that published in Current Industrial Report Series M35W, Machine Tools. The Current Industrial Report does not include data on machines designed primarily for home workshops, garages, service shops, etc., nor does it include figures for rebuilt machine tools.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3541, e.g., lathes, 96 percent; other machine tools (including those designated primarily for home workshops, laboratories, etc.), 77 percent; boring machines, 94 percent; parts for metal-cutting type machine tools sold separately and rebuilt machine tools, 82 percent.

The production index for the primary products of the industry increased to 82 in 1963 from the 1958 level of 52. The unit value index for 1963 was 112 compared to 113 in 1958. Both indexes were computed on a basis of 1954 = 100.



### 3542—MACHINE TOOLS, METAL-FORMING TYPES

This industry comprises establishments primarily engaged in manufacturing power-driven machines, not supported in the hands of an operator while in use, for pressing, forging, hammering, extruding, shearing, bending, or die casting metal into shape. This industry also includes rebuilding such machine tools and manufacturing repair parts for them. Establishments primarily engaged in the manufacture of electric welding equipment are classified in industry 3623; portable power-driven hand tools, machinery and gas welding and cutting equipment, and automotive maintenance equipment in industry 3548. For a detailed list of products of industry 3842, refer to table 6A, product codes 3542411 to 3542475.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Metal-Forming Machine Tools Industry totaled \$441 million. This amount included shipments of machine tools, metal-forming types (primary products) valued at \$351 million, shipments of other products (secondary products) valued at \$58 million, and miscellaneous receipts at \$33 million.

This industry's shipments of metal-forming machine tools represented 86 percent of its total product shipments. The industry specialization ratio in 1958 was 82 percent. Secondary products shipped by this industry in 1963 include special dies and tools, die sets, jigs, and fixtures (\$20 million), and parts for metal-cutting type machine tools, sold separately, and rebuilt machine tools (\$3 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 39 percent of the total industry shipments are represented by plants specializing in presses, including forging presses; and 20 percent in punching, shearing, bending, and forming machines.

Shipments of machine tools, metal-forming types, by this industry in 1963 represented 79 percent of all shipments of these products (\$445 million) by all industries. In 1958 the coverage ratio was 80 percent. Other industries shipping machine tools, metal-forming types, include industry 3541, Metal-Cutting Machine Tools, \$17 million; and industry 3548, Metalworking Machinery, N.E.C., over \$12 million.

The product detail shown in table 6A is essentially the same as that collected by the Bureau of the Census each year since 1950 and published in the Current Industrial Report Series M35W, Metalworking Machinery. The Current Industrial Report does not include data on rebuilt machines.

### 3544—SPECIAL DIES AND TOOLS, DIE SETS, JIGS, AND FIXTURES

This industry comprises establishments primarily engaged in manufacturing, on a job or order basis, special tools and fixtures for use with machine tools, hammers, die casting machines, and presses. The products of establishments classified in this industry include a wide variety of special toolings, such as dies; punches; die sets and components, and subpresses; jigs and fixtures; and special checking devices. Establishments primarily engaged in manufacturing metal molds for use with foundry plaster working, rubber working, plastic working, glass working, and similar machinery are also included. For a detailed list of products of industry 3544, refer to table 6A, product codes 3544112 to 3544263.

This industry comprises establishments commonly known as contract tool and die shops; also included are captive tool and die shops of metal-products producers, where such shops were separately operated and separate reports were filed. However, the total value of shipments excludes the captive production of tool and die departments making these products for the exclusive use of the producing establishment.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Special Dies and Tools Industry totaled \$1,389 million. This amount included shipments of special dies and tools, die sets, jigs, and fixtures (primary products) valued at \$1,164 million, shipments of other products (secondary products) valued at \$85 million, and miscellaneous receipts (mainly contract work on materials owned by others) at \$139 million.

This industry's shipments of special dies and tools represented 93 percent of its total product shipments. The industry specialization ratio in 1958 was also 93 percent. Secondary products shipped by this industry in 1963 include carburetors, pistons, and other machine shop products (\$12 million), and job stampings, except automotive (\$11 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 66 percent of the total industry shipments are represented by plants specializing in special dies and tools, die sets, jigs, and fixtures; and 15 percent in industrial molds.

Shipments of special dies and tools, die sets, jigs, and fixtures by this industry represented 72 percent of all shipments of these products (\$1,608 million) by all industries. In 1958 the coverage ratio was 69 percent. Other industries shipping special dies and tools, die sets, jigs, and fixtures include industry 3461, Metal Stampings, \$66 million; and industry 3545, Machine Tool Accessories, \$22 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3544, e.g., industrial molds, 83 percent; and special dies and tools, die sets, jigs, and fixtures, 67 percent.

#### 3545—MACHINE TOOL ACCESSORIES AND MEASURING DEVICES

This industry comprises establishments primarily engaged in manufacturing cutting tools, machinists' precision measuring tools, and attachments and accessories for machine tools and for other metalworking machinery, n.e.c. For a detailed list of products of industry 3545, refer to table 6A, product codes 3545113 to 3545351.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Machine Tool Accessories Industry totaled \$787 million. This amount included shipments of machine tool accessories and measuring devices (primary products) valued at \$616 million, shipments of other products (secondary products) valued at \$122 million, and miscellaneous receipts (mainly products bought and resold) at \$50 million.

This industry's shipments of machine tool accessories represented 83 percent of its total product shipments. The industry specialization ratio in 1958 was 85 percent. Secondary products shipped by this industry in 1963 include special dies and tools, die sets, jigs, and fixtures (\$22 million), and other machine tools (including those designed primarily for home workshops, laboratories, etc.) (\$10 million).



While the primary products of the industry represent more than once class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent to this specialization is indicated in table 8. Approximately 71 percent of the total industry shipments are represented by plants specializing in small cutting tools for machine tools and metalworking machinery.

Shipments of machine tool accessories and measuring devices by this industry represented 84 percent of all shipments of these products (\$732 million) by all industries. In 1958 the coverage ratio was 85 percent. Another industry shipping machine tool accessories and measuring devices was industry 3541, Metal-Cutting Machine Tools, \$69 million.

#### 3548—METALWORKING MACHINERY, EXCEPT MACHINE TOOLS

This industry comprises establishments primarily engaged in manufacturing metalworking machinery such as rolling mill machinery and equipment, power-driven hand tools, welding equipment, wire fabricating machinery and equipment, and automotive maintenance machinery and equipment. Establishments primarily engaged in manufacturing machine tools, metal-cutting types, are classified in industry 3541, and those primarily engaged in manufacturing machine tools, metal-forming types, in industry 3542. For a detailed list of products of industry 3548, refer to table 6A, product codes 3548115 to 3548598.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Metalworking Machinery, N.E.C., Industry totaled \$796 million. This amount included shipments of metalworking machinery, except machine tools, and power-driven hand tools (primary products) valued at \$616 million, shipments of other products (secondary products) valued at \$109 million, and miscellaneous receipts (mainly products bought and resold) at \$72 million.

This industry's shipments of metalworking machinery, n.e.c., represented 85 percent of its total product shipments. The industry specialization ratio in 1958 was 91 percent. Secondary products shipped by this industry in 1963 include hoists (\$7 million), and fractional horsepower motors (\$7 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent to this specialization is indicated in table 8. Approximately 46 percent of the total industry shipments are represented by plants specializing in power-driven hand tools; and 35 percent in rolling mill machinery and equipment.

Shipments of metalworking machinery, except machine tools, and power-driven hand tools by this industry in 1963 represented 88 percent of all shipments of these products (\$702 million) by all industries. In 1958 the coverage ratio was 85 percent.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3548, e.g., automobile maintenance equipment, 73 percent; acetylene welding and cutting apparatus, 78 percent; and other metalworking machinery, 75 percent.

METALWORKING MACHINERY: SIC 354  
 Value Added by Manufacture by State: 1963

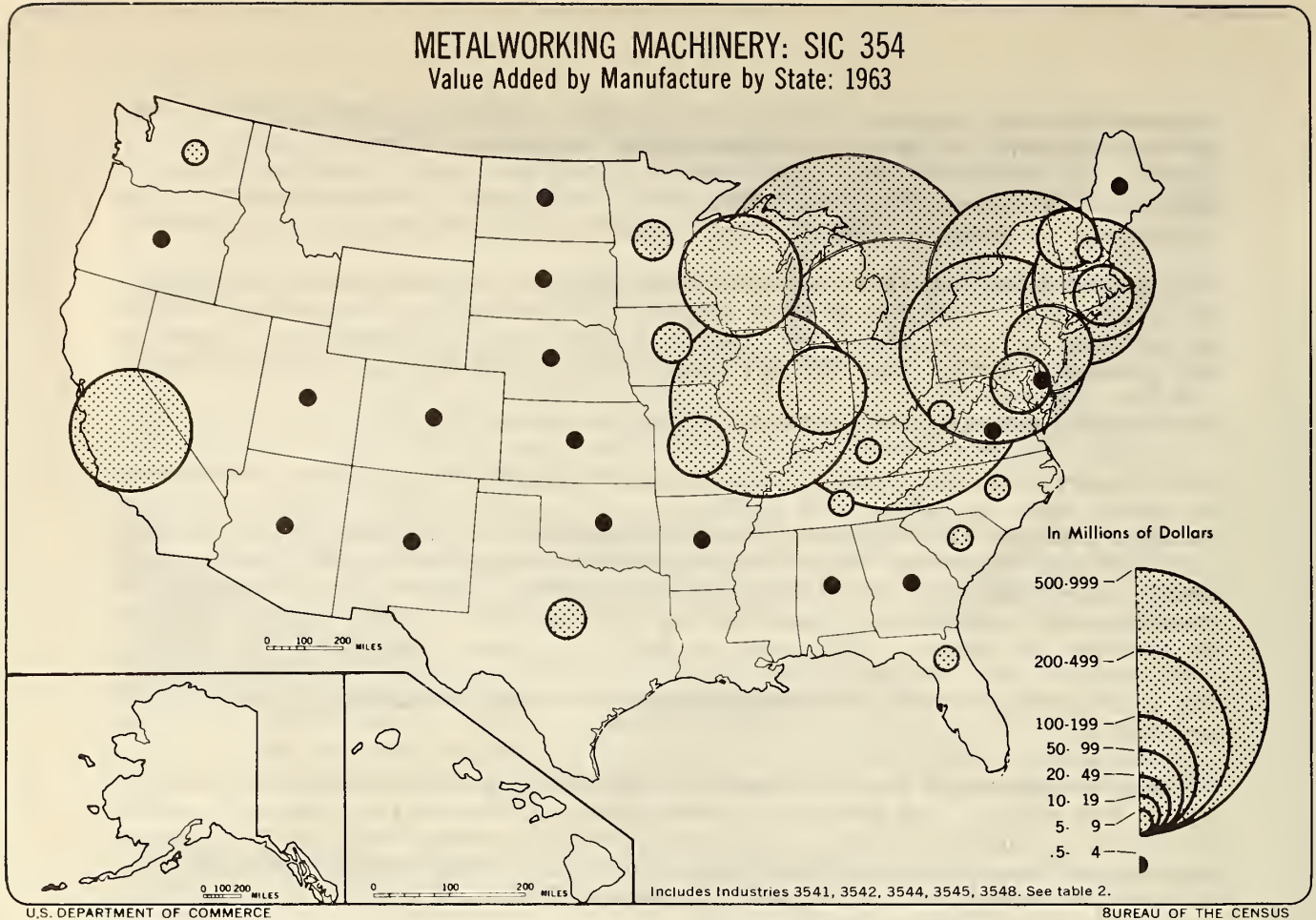




TABLE 1. General Statistics: 1963 and Earlier Years

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expendi-<br>tures,<br>new<br>(\$1,000) | Speci-<br>alization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|--|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees or<br>more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |  |  |
| INDUSTRY 3541.--METAL-CUTTING MACHINE TOOLS      |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963.....  | 784                        | 801               | 269  | 61,058            | 438,222              | 41,008             | 86,486               | 272,243            | 699,341  | 381,566                           | 1,060,818                          | 28,837  | 81   | 87                                       |
| 1962 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 58,855            | 401,810              | 39,253             | 81,217               | 235,035            | 670,989  | 332,974                           | 982,118                            | 26,643  | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 54,901            | 352,976              | 36,373             | 72,714               | 201,457            | 550,119  | 281,459                           | 828,413                            | 18,668  | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 58,777            | 370,894              | 39,487             | 80,918               | 223,825            | 578,210  | 311,832                           | 881,676                            | 24,770  | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 52,797            | 329,497              | 35,436             | 72,165               | 201,991            | 505,433  | 262,198                           | 753,784                            | 22,152  | (NA)   | (NA)                                     |
| 1958.....  | 611                        | 627               | 231  | 52,864            | 300,344              | 36,154             | 69,619               | 182,171            | 420,961  | 217,738                           | 679,836                            | 18,840  | 85   | 89                                       |
| 1957 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 79,895            | 470,886              | 59,611             | 125,419              | 319,313            | 797,541  | 403,473                           | 1,209,071                          | 39,653  | 84   | 90                                       |
| 1956 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 85,469            | 511,928              | 65,208             | 147,464              | 360,577            | 882,188  | 441,524                           | 1,270,470                          | 49,178  | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 77,063            | 426,565              | 58,598             | 128,099              | 297,216            | 690,980  | 345,447                           | 1,007,752                          | 44,031  | (NA)   | (NA)                                     |
| 1954.....  | 627                        | 639               | 266  | 80,959            | 432,290              | 62,106             | 133,247              | 302,682            | 743,569  | 377,535                           | 1,171,543                          | 37,683  | 84   | 93                                       |
| 1953 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 99,494            | 537,623              | 76,840             | 175,280              | 392,647            | 1,000,049  | 541,325                           | 1,541,374                          | (NA)  | (NA)   | (NA)                                     |
| 1952 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 102,735           | 524,516              | 79,471             | 194,611              | 385,315            | 1,003,344  | 562,680                           | 1,566,024                          | (NA)  | (NA)   | (NA)                                     |
| 1951 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 83,855            | 396,368              | 64,029             | 155,667              | 280,955            | 588,863  | 364,261                           | 953,124                            | (NA)  | (NA)   | (NA)                                     |
| 1950 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 54,747            | 226,772              | 41,555             | 88,644               | 150,585            | 316,740  | 169,922                           | 486,662                            | (NA)  | (NA)   | (NA)                                     |
| 1949 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 52,384            | 190,369              | 38,584             | 74,537               | 120,009            | 272,732  | 122,304                           | 395,035                            | (NA)  | (NA)   | (NA)                                     |
| 1947 <sup>1</sup> .....                          | 312                        | 315               | 209  | 70,001            | 233,997              | 54,435             | 113,432              | 165,003            | 343,198  | 150,655                           | 493,853                            | (NA)  | 77   | 86                                       |
| 1939.....  | (NA)                       | 224               | (NA)   | (NA)              | (NA)                 | 36,997             | (NA)                 | 62,867             | 155,941  | 65,326                            | 221,267                            | (NA)  | (NA)   | (NA)                                     |
| 1937 <sup>2</sup> .....                          | (NA)                       | 205               | (NA)   | (NA)              | (NA)                 | 37,477             | (NA)                 | 62,610             | 143,224  | 59,515                            | 202,739                            | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3542.--METAL-FORMING MACHINE TOOLS      |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963.....  | 362                        | 366               | 146  | 22,078            | 161,669              | 15,782             | 34,633               | 107,381            | 281,287  | 165,376                           | 441,419                            | 10,792  | 86   | 79                                       |
| 1962 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 23,396            | 171,980              | 18,409             | 37,041               | 109,504            | 265,841  | 180,740                           | 448,210                            | (12,653)  | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 23,207            | 158,226              | 18,260             | 34,790               | 101,127            | 221,666  | 174,939                           | 413,492                            | 7,747   | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 22,423            | 152,140              | 17,952             | 35,833               | 100,930            | 237,602  | 156,865                           | 384,044                            | 12,599  | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 22,294            | 146,592              | 17,896             | 35,027               | 94,691             | 232,018  | 141,093                           | 357,712                            | 9,667   | (NA)   | (NA)                                     |
| 1958 <sup>3</sup> .....                          | 279                        | 291               | 147  | 22,502            | 132,368              | 15,572             | 30,905               | 82,192             | 176,021  | 130,143                           | 317,657                            | 11,723  | 82   | 80                                       |
| INDUSTRY 3544.--SPECIAL DIES AND TOOLS           |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963.....  | 5,850                      | 5,896             | 1,133  | 90,860            | 682,739              | 76,002             | 169,313              | 543,033            | 1,029,338  | 373,320                           | 1,388,794                          | 53,343  | 93   | 72                                       |
| 1962 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 101,176           | 706,560              | 84,163             | 184,908              | 552,953            | 1,106,596  | 393,767                           | 1,488,331                          | (49,241)  | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 90,386            | 605,328              | 74,253             | 156,312              | 460,027            | 901,537  | 312,271                           | 1,201,883                          | (36,832)  | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 93,246            | 638,151              | 76,819             | 163,268              | 491,783            | 966,547  | 342,883                           | 1,314,972                          | (38,289)  | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 89,445            | 597,853              | 74,241             | 158,205              | 465,009            | 932,025  | 311,407                           | 1,235,014                          | (29,075)  | (NA)   | (NA)                                     |
| 1958 <sup>3</sup> .....                          | 5,715                      | 5,745             | 994  | 83,308            | 536,588              | 68,916             | 139,877              | 415,241            | 780,090  | 275,030                           | 1,060,566                          | 43,242  | 93   | 69                                       |
| INDUSTRY 3545.--MACHINE TOOL ACCESSORIES         |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963.....  | 983                        | 1,038             | 347  | 46,994            | 312,799              | 34,560             | 72,037               | 208,086            | 559,258  | 234,501                           | 787,338                            | 22,784  | 83   | 84                                       |
| 1962 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 48,730            | 316,102              | 35,694             | 75,126               | 205,410            | 570,061  | 244,610                           | 809,326                            | 22,247  | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 44,980            | 273,865              | 32,277             | 66,344               | 172,426            | 474,053  | 195,474                           | 667,122                            | 17,666  | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 46,732            | 283,647              | 33,972             | 71,541               | 182,709            | 495,551  | 179,158                           | 682,139                            | 17,992  | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 45,108            | 266,928              | 33,291             | 68,275               | 174,789            | 458,275  | 182,404                           | 634,514                            | 15,428  | (NA)   | (NA)                                     |
| 1958.....  | 865                        | 905               | 297  | 41,521            | 226,949              | 29,304             | 56,299               | 143,663            | 348,580  | 143,142                           | 511,456                            | 15,277  | 85   | 85                                       |
| 1957 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 52,203            | 293,874              | 39,369             | 81,691               | 199,832            | 472,602  | 199,651                           | 650,032                            | 25,185  | 87   | 74                                       |
| 1956 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 48,344            | 265,326              | 37,181             | 79,194               | 183,429            | 472,352  | 175,101                           | 630,558                            | 20,354  | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 45,202            | 230,769              | 34,837             | 72,429               | 158,733            | 403,554  | 150,220                           | 544,410                            | 17,121  | (NA)   | (NA)                                     |
| 1954 <sup>2</sup> .....                          | 1,007                      | 1,022             | 307  | 44,877            | 212,665              | 34,467             | 69,871               | 146,854            | 341,399  | 133,154                           | 486,764                            | 16,598  | 87   | 74                                       |
| INDUSTRY 3548.--METALWORKING MACHINERY, N. E. C. |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |  |  |
| 1963.....  | 420                        | 435               | 168  | 38,012            | 246,242              | 28,257             | 57,094               | 161,837            | 468,435  | 328,359                           | 796,327                            | 20,957  | 85   | 88                                       |
| 1962 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 36,040            | 223,655              | 26,324             | 52,502               | 145,816            | 429,296  | 270,977                           | 680,747                            | 11,085  | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 34,870            | 209,781              | 24,984             | 49,004               | 134,766            | 368,399  | 267,557                           | 661,746                            | 14,157  | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 36,199            | 215,827              | 26,092             | 52,441               | 141,494            | 409,682  | 267,187                           | 656,553                            | 18,366  | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 34,819            | 197,710              | 25,010             | 49,566               | 127,107            | 362,136  | 239,341                           | 610,922                            | 11,095  | (NA)   | (NA)                                     |
| 1958 <sup>3</sup> .....                          | 349                        | 362               | 143  | 33,328            | 183,307              | 24,384             | 46,915               | 120,444            | 332,397  | 241,230                           | 602,015                            | 16,634  | 91   | 85                                       |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>2</sup>Comparable data are not available for earlier years.

<sup>3</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification; therefore, the data for 1958-1963 are not comparable with those for earlier years.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>               | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3541.—METAL-CUTTING MACHINE TOOLS |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                 | 801            | 269                                | 61,058         | 438,222           | 41,008             | 86,486            | 272,243         | 699,341                              | 381,566           | 1,060,818          | 28,837                    | 52,864           | 420,961                              |
| New England.....                           | 111            | 39                                 | 14,853         | 102,430           | 10,303             | 21,333            | 63,121          | 159,523                              | 82,127            | 238,161            | 5,962                     | 12,134           | 88,982                               |
| Vermont.....                               | 5              | 4                                  | 3,692          | 25,166            | 2,430              | 4,920             | 14,056          | 38,015                               | 18,358            | 54,977             | 1,998                     | 3,289            | 18,528                               |
| Connecticut.....                           | 60             | 19                                 | 4,326          | 32,202            | 3,337              | 7,203             | 23,161          | 52,626                               | 35,912            | 87,948             | 1,353                     | 3,699            | 32,522                               |
| Middle Atlantic....                        | 163            | 40                                 | 7,106          | 49,697            | 5,291              | 11,084            | 34,045          | 89,429                               | 33,387            | 120,132            | 3,852                     | 6,322            | 48,081                               |
| New York.....                              | 66             | 19                                 | 5,045          | 36,239            | 3,728              | 7,676             | 24,665          | 66,626                               | 22,369            | 86,644             | 5,522                     | 4,756            | 36,944                               |
| New Jersey.....                            | 49             | 9                                  | 532            | 3,574             | 404                | 878               | 2,454           | 5,611                                | 3,430             | 9,093              | 220                       | 471              | 3,651                                |
| Pennsylvania.....                          | 48             | 12                                 | 1,529          | 9,884             | 1,159              | 2,530             | 6,926           | 17,192                               | 7,588             | 24,395             | 1,110                     | 1,095            | 7,486                                |
| East North Central.                        | 387            | 161                                | 36,845         | 271,313           | 23,762             | 50,596            | 165,457         | 424,507                              | 250,732           | 661,678            | 17,811                    | 32,509           | 267,130                              |
| Ohio.....                                  | 102            | 43                                 | 15,343         | 110,025           | 9,210              | 19,271            | 64,335          | 178,527                              | 97,713            | 272,944            | 6,402                     | 15,063           | 121,456                              |
| Indiana.....                               | 19             | 5                                  | 1,634          | 11,654            | 1,284              | 2,934             | 8,796           | 19,649                               | 11,784            | 29,920             | 704                       | 1,344            | 12,627                               |
| Illinois.....                              | 84             | 36                                 | 6,691          | 47,981            | 4,315              | 9,736             | 28,159          | 71,937                               | 41,259            | 109,153            | 1,981                     | 6,281            | 50,946                               |
| Michigan.....                              | 151            | 58                                 | 7,978          | 64,233            | 5,710              | 12,183            | 42,610          | 102,270                              | 66,006            | 164,169            | 4,607                     | 5,587            | 45,705                               |
| Wisconsin.....                             | 31             | 19                                 | 5,199          | 37,420            | 3,243              | 6,472             | 21,557          | 52,124                               | 33,970            | 85,492             | 4,117                     | 4,234            | 36,396                               |
| West North Central.                        | 24             | 11                                 | 547            | 3,380             | 431                | 886               | 2,257           | 4,912                                | 2,771             | 7,701              | 368                       | 912              | 6,796                                |
| Minnesota.....                             | 7              | 4                                  | 158            | 1,009             | 123                | 244               | 652             | 1,539                                | 461               | 1,980              | 89                        | 555              | 4,146                                |
| South.....                                 | 26             | 4                                  | 463            | 2,709             | 373                | 843               | 2,023           | 5,930                                | 3,182             | 8,875              | 293                       | 465              | 5,011                                |
| Texas.....                                 | 10             | 2                                  | 204            | 1,191             | 167                | 382               | 933             | 2,830                                | 1,562             | 4,358              | 69                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Mountain.....                              | 7              | 1                                  | 54             | 273               | 45                 | 89                | 207             | 402                                  | 125               | 523                | 21                        | 522              | 4,961                                |
| Pacific.....                               | 83             | 13                                 | 1,190          | 8,420             | 803                | 1,655             | 5,133           | 14,638                               | 9,242             | 23,748             | 530                       | 455              | 4,495                                |
| California.....                            | 76             | 12                                 | 1,097          | 7,922             | 734                | 1,540             | 4,777           | 14,170                               | 8,573             | 22,582             | 494                       | 455              | 4,495                                |
| INDUSTRY 3542.—METAL-FORMING MACHINE TOOLS |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                 | 366            | 146                                | 22,078         | 161,669           | 15,782             | 34,633            | 107,381         | 281,287                              | 165,376           | 441,419            | 10,792                    | 22,502           | 176,021                              |
| New England.....                           | 39             | 13                                 | 2,081          | 14,292            | 1,527              | 3,195             | 9,064           | 23,279                               | 12,983            | 35,370             | 769                       | 2,242            | 16,749                               |
| Massachusetts....                          | 7              | 1                                  | 127            | 722               | 118                | 239               | 625             | 965                                  | 498               | 1,436              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Connecticut.....                           | 28             | 10                                 | 1,821          | 12,916            | 1,287              | 2,700             | 7,958           | 21,316                               | 11,727            | 31,942             | 690                       | 1,920            | 14,578                               |
| Middle Atlantic....                        | 88             | 28                                 | 4,512          | 31,653            | 3,058              | 6,558             | 19,678          | 58,561                               | 35,227            | 92,341             | 3,266                     | 4,773            | 33,635                               |
| New York.....                              | 39             | 11                                 | 2,455          | 18,182            | 1,608              | 3,513             | 11,064          | 33,078                               | 16,076            | 47,725             | 1,191                     | 2,646            | 16,871                               |
| New Jersey.....                            | 25             | 8                                  | 464            | 3,053             | 339                | 736               | 2,123           | 4,966                                | 3,610             | 8,616              | 152                       | 1,104            | 9,346                                |
| Pennsylvania.....                          | 24             | 9                                  | 1,593          | 10,418            | 1,111              | 2,309             | 6,491           | 20,517                               | 15,541            | 36,000             | 1,923                     | 1,023            | 7,418                                |
| East North Central.                        | 158            | 78                                 | 12,570         | 95,825            | 9,022              | 20,200            | 64,745          | 166,647                              | 100,044           | 264,035            | 5,772                     | 13,231           | 106,966                              |
| Ohio.....                                  | 39             | 20                                 | 3,433          | 24,438            | 2,352              | 5,275             | 15,280          | 51,584                               | 29,298            | 80,629             | 2,689                     | 6,567            | 50,564                               |
| Indiana.....                               | 11             | 5                                  | 344            | 2,480             | 267                | 574               | 1,676           | 3,946                                | 2,765             | 6,665              | 53                        | 278              | 2,173                                |
| Illinois.....                              | 50             | 28                                 | 6,321          | 49,891            | 4,574              | 10,309            | 34,308          | 77,979                               | 50,601            | 125,597            | 2,019                     | 5,098            | 44,251                               |
| Michigan.....                              | 51             | 22                                 | 2,314          | 17,945            | 1,711              | 3,805             | 12,815          | 31,628                               | 16,709            | 48,940             | 971                       | 1,152            | 8,966                                |
| Wisconsin.....                             | 7              | 3                                  | 158            | 1,071             | 118                | 237               | 666             | 1,510                                | 671               | 2,204              | 40                        | 136              | 1,012                                |
| West North Central.                        | 20             | 5                                  | 538            | 2,993             | 415                | 877               | 2,064           | 5,846                                | 2,413             | 8,272              | 110                       | 608              | 5,473                                |
| Minnesota.....                             | 9              | 2                                  | 274            | 1,524             | 206                | 454               | 1,025           | 3,052                                | 1,208             | 4,385              | 27                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Missouri.....                              | 11             | 3                                  | 264            | 1,469             | 209                | 423               | 1,039           | 2,794                                | 1,205             | 3,887              | 83                        | 190              | 1,581                                |
| South.....                                 | 21             | 8                                  | 605            | 3,625             | 483                | 1,035             | 2,603           | 6,623                                | 3,850             | 10,388             | 123                       | 299              | 2,944                                |
| West.....                                  | 40             | 14                                 | 1,772          | 13,281            | 1,277              | 2,768             | 9,227           | 20,331                               | 10,859            | 31,013             | 123                       | 1,349            | 10,254                               |
| INDUSTRY 3544.—SPECIAL DIES AND TOOLS      |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                 | 5,896          | 1,133                              | 90,860         | 682,739           | 76,002             | 169,313           | 543,033         | 1,029,338                            | 373,320           | 1,388,794          | 53,343                    | 83,308           | 780,090                              |
| New England.....                           | 682            | 99                                 | 7,789          | 51,844            | 6,504              | 14,443            | 40,979          | 74,755                               | 27,783            | 102,509            | 4,180                     | 7,628            | 63,285                               |
| Massachusetts....                          | 279            | 49                                 | 3,482          | 23,307            | 2,874              | 6,345             | 18,143          | 33,196                               | 12,964            | 45,916             | 1,490                     | 3,205            | 27,231                               |
| Rhode Island.....                          | 50             | 4                                  | 368            | 2,117             | 305                | 602               | 1,698           | 2,990                                | 1,136             | 4,341              | 54                        | 483              | 3,253                                |
| Connecticut.....                           | 327            | 43                                 | 3,703          | 25,204            | 3,128              | 7,079             | 20,159          | 36,591                               | 12,798            | 49,448             | 2,464                     | 3,536            | 29,018                               |
| Middle Atlantic....                        | 1,246          | 204                                | 15,353         | 102,086           | 12,966             | 27,888            | 81,336          | 153,189                              | 57,875            | 209,781            | 9,877                     | 14,436           | 120,120                              |
| New York.....                              | 553            | 78                                 | 5,865          | 39,574            | 4,920              | 10,612            | 31,253          | 59,450                               | 20,483            | 79,607             | 3,676                     | 5,933            | 50,435                               |
| New Jersey.....                            | 373            | 63                                 | 4,763          | 32,246            | 4,005              | 8,839             | 25,768          | 49,444                               | 17,610            | 66,500             | 2,916                     | 4,230            | 35,165                               |
| Pennsylvania.....                          | 320            | 63                                 | 4,725          | 30,266            | 4,041              | 8,437             | 24,315          | 44,295                               | 19,782            | 63,674             | 3,285                     | 4,273            | 34,520                               |
| East North Central.                        | 2,834          | 656                                | 54,863         | 441,069           | 45,932             | 104,350           | 352,152         | 663,072                              | 235,645           | 887,197            | 31,214                    | 50,018           | 494,103                              |
| Ohio.....                                  | 653            | 169                                | 12,571         | 94,145            | 10,563             | 23,836            | 74,518          | 144,160                              | 51,968            | 193,014            | 6,967                     | 10,566           | 97,408                               |
| Indiana.....                               | 298            | 69                                 | 5,298          | 38,374            | 4,337              | 9,602             | 29,564          | 54,795                               | 17,808            | 71,996             | 2,639                     | 5,042            | 43,715                               |
| Illinois.....                              | 593            | 97                                 | 7,735          | 59,248            | 6,509              | 14,313            | 48,043          | 91,858                               | 32,676            | 123,212            | 5,015                     | 7,666            | 69,458                               |
| Michigan.....                              | 1,092          | 292                                | 25,685         | 222,166           | 21,608             | 50,338            | 178,887         | 338,603                              | 123,241           | 455,706            | 14,995                    | 24,391           | 260,607                              |
| Wisconsin.....                             | 198            | 29                                 | 3,574          | 27,136            | 2,915              | 6,261             | 21,140          | 33,656                               | 9,952             | 43,269             | 1,598                     | 2,353            | 22,915                               |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                     | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3544.—SPECIAL DIES AND TOOLS--Continued |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| West North Central.                              | 240            | 43                                 | 3,139          | 20,510            | 2,582              | 5,519             | 16,271          | 30,306                               | 11,062            | 41,418             | 1,777                     | 2,216            | 20,545                               |
| Minnesota.....                                   | 66             | 12                                 | 759            | 4,841             | 631                | 1,352             | 4,059           | 7,256                                | 2,932             | 10,170             | 498                       | 680              | 6,344                                |
| Iowa.....  | 35             | 8                                  | 551            | 3,925             | 466                | 1,077             | 3,240           | 5,708                                | 1,867             | 7,580              | 296                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Montana.....                                     | 110            | 19                                 | 1,594          | 10,673            | 1,291              | 2,694             | 8,089           | 15,657                               | 5,706             | 21,417             | 897                       | 999              | 9,493                                |
| Kansas.....                                      | 20             | 3                                  | 159            | 717               | 133                | 264               | 593             | 1,115                                | 351               | 1,472              | 43                        | 205              | 1,464                                |
| South Atlantic.....                              | 169            | 24                                 | 1,704          | 10,381            | 1,424              | 3,020             | 8,093           | 15,980                               | 6,622             | 22,586             | 1,084                     | 1,521            | 12,604                               |
| Maryland.....                                    | 29             | 1                                  | 149            | 993               | 124                | 267               | 780             | 1,675                                | 482               | 2,182              | 79                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| North Carolina...                                | 28             | 2                                  | 242            | 1,356             | 201                | 403               | 1,044           | 1,514                                | 787               | 2,308              | 176                       | 149              | 1,194                                |
| Georgia.....                                     | 26             | 6                                  | 416            | 2,637             | 356                | 731               | 2,033           | 4,169                                | 1,830             | 6,000              | 166                       | 373              | 3,738                                |
| Florida.....                                     | 61             | 13                                 | 663            | 4,037             | 550                | 1,228             | 3,190           | 6,420                                | 2,904             | 9,293              | 450                       | 443              | 3,303                                |
| East South Central.                              | 72             | 16                                 | 1,000          | 6,024             | 822                | 1,761             | 4,826           | 8,220                                | 3,303             | 11,495             | 693                       | 661              | 5,509                                |
| Kentucky.....                                    | 26             | 6                                  | 301            | 1,920             | 250                | 539               | 1,533           | 2,573                                | 909               | 3,506              | 279                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Tennessee.....                                   | 33             | 7                                  | 494            | 2,870             | 401                | 863               | 2,261           | 4,147                                | 1,909             | 6,018              | 253                       | 333              | 2,989                                |
| West South Central.                              | 77             | 12                                 | 813            | 4,557             | 661                | 1,369             | 3,480           | 7,271                                | 2,920             | 10,105             | 698                       | 679              | 5,259                                |
| Arkansas.....                                    | 11             | 4                                  | 149            | 754               | 130                | 273               | 614             | 1,661                                | 631               | 2,274              | 268                       | 111              | 688                                  |
| Texas.....                                       | 49             | 7                                  | 561            | 3,232             | 444                | 899               | 2,410           | 4,684                                | 1,894             | 6,518              | 388                       | 450              | 3,596                                |
| Mountain.....                                    | 40             | 9                                  | 446            | 2,875             | 367                | 737               | 2,277           | 4,790                                | 1,924             | 6,690              | 337                       | 479              | 4,407                                |
| Arizona.....                                     | 19             | 3                                  | 189            | 1,235             | 153                | 315               | 961             | 1,844                                | 533               | 2,386              | 189                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pacific.....                                     | 536            | 70                                 | 5,753          | 43,393            | 4,744              | 10,226            | 33,619          | 71,755                               | 26,186            | 97,013             | 3,483                     | 5,670            | 54,258                               |
| California.....                                  | 511            | 70                                 | 5,667          | 42,832            | 4,669              | 10,083            | 33,135          | 70,762                               | 25,834            | 95,662             | 3,413                     | 5,566            | 53,364                               |
| INDUSTRY 3545.—MACHINE TOOL ACCESSORIES          |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                       | 1,038          | 347                                | 46,994         | 312,799           | 34,560             | 72,037            | 208,086         | 559,258                              | 234,501           | 787,338            | 22,784                    | 41,521           | 348,580                              |
| New England.....                                 | 159            | 59                                 | 12,857         | 80,128            | 9,308              | 18,992            | 51,597          | 135,620                              | 51,262            | 183,435            | 6,190                     | 14,050           | 104,124                              |
| Vermont.....                                     | 4              | 4                                  | 670            | 4,188             | 556                | 1,132             | 2,782           | 9,020                                | 5,157             | 13,714             | 635                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Massachusetts....                                | 61             | 25                                 | 6,302          | 37,584            | 4,767              | 9,657             | 26,525          | 63,133                               | 22,977            | 86,432             | 2,595                     | 5,841            | 45,153                               |
| Connecticut.....                                 | 70             | 22                                 | 4,614          | 30,666            | 3,085              | 6,408             | 17,865          | 49,839                               | 19,231            | 65,835             | 2,560                     | 4,364            | 31,403                               |
| Middle Atlantic....                              | 164            | 43                                 | 5,691          | 33,646            | 4,256              | 8,662             | 22,919          | 57,429                               | 32,805            | 89,483             | 2,546                     | 4,798            | 35,359                               |
| New York.....                                    | 88             | 22                                 | 1,749          | 10,132            | 1,380              | 2,743             | 7,121           | 15,559                               | 8,599             | 23,959             | 973                       | 1,150            | 8,012                                |
| New Jersey.....                                  | 42             | 8                                  | 621            | 3,724             | 480                | 978               | 2,697           | 6,253                                | 2,596             | 8,948              | 233                       | 526              | 3,786                                |
| Pennsylvania.....                                | 34             | 13                                 | 3,321          | 19,790            | 2,396              | 4,941             | 13,101          | 35,317                               | 21,610            | 56,576             | 1,340                     | 3,122            | 23,561                               |
| East North Central.                              | 526            | 211                                | 24,797         | 178,512           | 18,241             | 38,726            | 119,574         | 325,533                              | 133,371           | 457,401            | 12,144                    | 20,124           | 185,013                              |
| Ohio.....  | 93             | 38                                 | 6,447          | 44,420            | 4,734              | 9,691             | 28,168          | 82,902                               | 26,937            | 111,709            | 2,732                     | 5,391            | 50,644                               |
| Indiana.....                                     | 30             | 6                                  | 598            | 3,593             | 433                | 882               | 2,481           | 6,607                                | 2,650             | 9,378              | 292                       | 460              | 3,347                                |
| Illinois.....                                    | 89             | 38                                 | 5,028          | 33,332            | 3,612              | 7,461             | 21,538          | 61,306                               | 29,049            | 88,323             | 2,265                     | 4,332            | 35,910                               |
| Michigan.....                                    | 287            | 121                                | 12,301         | 94,418            | 9,168              | 20,063            | 65,598          | 169,668                              | 71,334            | 239,490            | 6,674                     | 9,472            | 91,163                               |
| Wisconsin.....                                   | 27             | 8                                  | 423            | 2,749             | 294                | 629               | 1,789           | 5,050                                | 3,401             | 8,501              | 181                       | 469              | 3,949                                |
| West North Central.                              | 22             | 5                                  | 1,053          | 6,144             | 740                | 1,514             | 3,652           | 11,422                               | 4,907             | 16,264             | 837                       | 840              | 6,969                                |
| South Atlantic.....                              | 24             | 4                                  | 382            | 1,714             | 306                | 649               | 1,227           | 3,622                                | 2,279             | 5,467              | 316                       | 573              | 5,453                                |
| East South Central.                              | 14             | 6                                  | 565            | 2,557             | 474                | 1,039             | 2,034           | 4,469                                | 2,619             | 7,300              | 202                       | 97               | 5,453                                |
| West South Central.                              | 15             | 3                                  | 274            | 1,138             | 204                | 383               | 803             | 4,366                                | 1,171             | 5,307              | 97                        | 97               | 5,307                                |
| Mountain.....                                    | 5              | -                                  | 26             | 101               | 20                 | 40                | 75              | 253                                  | 69                | 322                | 452                       | 1,136            | 11,662                               |
| Pacific.....                                     | 109            | 16                                 | 1,349          | 8,859             | 1,011              | 2,032             | 6,205           | 16,544                               | 6,018             | 22,359             | 443                       | 1,111            | 11,535                               |
| California.....                                  | 105            | 16                                 | 1,334          | 8,805             | 999                | 2,008             | 6,161           | 16,447                               | 5,934             | 22,174             | 443                       | 1,111            | 11,535                               |
| INDUSTRY 3548.—METALWORKING MACHINERY, N.E.C.    |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                       | 435            | 168                                | 38,012         | 246,242           | 28,257             | 57,094            | 161,837         | 468,435                              | 328,357           | 796,327            | 20,957                    | 33,328           | 332,397                              |
| New England.....                                 | 45             | 17                                 | 2,801          | 18,336            | 1,990              | 3,956             | 10,881          | 32,851                               | 20,722            | 55,136             | 2,202                     | 2,835            | 28,679                               |
| Connecticut.....                                 | 20             | 10                                 | 1,340          | 9,299             | 955                | 1,877             | 5,654           | 17,281                               | 9,506             | 25,657             | 1,400                     | 1,437            | 12,937                               |
| Middle Atlantic....                              | 91             | 40                                 | 11,532         | 77,554            | 8,674              | 17,095            | 53,000          | 141,317                              | 103,443           | 245,623            | 4,922                     | 12,291           | 117,835                              |
| New York.....                                    | 41             | 10                                 | 2,452          | 14,852            | 1,782              | 3,590             | 10,213          | 37,657                               | 15,279            | 52,643             | 538                       | 2,079            | 24,293                               |
| New Jersey.....                                  | 18             | 8                                  | 1,749          | 12,612            | 1,187              | 2,400             | 6,784           | 17,427                               | 11,757            | 29,485             | 836                       | 1,851            | 14,439                               |
| Pennsylvania.....                                | 32             | 22                                 | 7,331          | 50,090            | 5,705              | 11,105            | 36,003          | 86,233                               | 76,407            | 163,495            | 3,548                     | 8,361            | 79,103                               |
| East North Central.                              | 178            | 70                                 | 15,129         | 101,477           | 11,275             | 23,674            | 66,686          | 190,053                              | 140,561           | 330,252            | 9,825                     | 11,500           | 120,680                              |
| Ohio.....  | 58             | 29                                 | 7,789          | 56,938            | 5,790              | 12,180            | 38,447          | 96,208                               | 78,990            | 173,850            | 6,931                     | 5,161            | 56,010                               |
| Indiana.....                                     | 12             | 2                                  | 149            | 1,105             | 114                | 236               | 766             | 2,490                                | 946               | 3,498              | 60                        | 104              | 1,124                                |
| Illinois.....                                    | 50             | 17                                 | 4,668          | 26,716            | 3,627              | 7,657             | 17,525          | 57,799                               | 40,817            | 99,104             | 2,005                     | 3,621            | 37,702                               |
| Michigan.....                                    | 42             | 12                                 | 1,395          | 8,866             | 989                | 2,089             | 5,571           | 19,032                               | 10,650            | 29,502             | 506                       | 1,997            | 19,017                               |
| Wisconsin.....                                   | 16             | 10                                 | 1,128          | 7,852             | 755                | 1,521             | 4,250           | 14,524                               | 9,158             | 24,298             | 323                       | 617              | 6,827                                |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                            | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3548.—METALWORKING MACHINERY, N.E.C.—Continued |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| West North Central.                                     | 32             | 16                                 | 1,962          | 11,984            | 1,343              | 2,737             | 6,459           | 22,774                               | 17,277            | 39,735             | 1,192                     | 1,637            | 15,258                               |
| Iowa.....   | 9              | 5                                  | 1,067          | 6,643             | 663                | 1,291             | 3,204           | 11,947                               | 8,390             | 19,927             | 834                       | 772              | 6,702                                |
| Missouri.....   | 9              | 4                                  | 504            | 2,718             | 436                | 945               | 1,886           | 6,600                                | 4,917             | 11,821             | 181                       | 328              | 3,867                                |
| South.....  | 34             | 13                                 | 5,476          | 30,151            | 4,146              | 8,088             | 20,142          | 67,451                               | 37,890            | 103,161            | 2,327                     | 3,942            | 37,100                               |
| Texas.....  | 10             | 4                                  | 590            | 3,608             | 424                | 894               | 2,231           | 8,080                                | 2,454             | 10,304             | 225                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West.....   | 55             | 12                                 | 1,112          | 6,740             | 829                | 1,544             | 4,669           | 13,989                               | 8,464             | 22,420             | 489                       | 1,123            | 12,845                               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup> General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3541, Metal-cutting Machine tools: New England--Maine, 1 (1-19); New Hampshire, 1 (250-499); Massachusetts, 34 (3,738); Rhode Island, 10 (2,500-4,999); West North Central--Iowa, 1 (1-19); Missouri, 13 (223); South Dakota, 1 (100-249); Kansas, 2 (20-99); South Atlantic--Maryland, 1 (1-19); Virginia, 1 (1-19); North Carolina, 1 (1-19); South Carolina, 1 (1-19); Georgia, 1 (1-19); Florida, 3 (1-19); East South Central--Kentucky, 3 (166); Tennessee, 3 (20-99); Alabama, 1 (1-19); West South Central--Oklahoma, 1 (1-19); Mountain--Idaho, 1 (1-19); New Mexico, 2 (20-99); Arizona, 3 (20-99); Utah, 1 (1-19); Pacific--Washington, 3 (20-99); Oregon, 3 (20-99); Hawaii, 1 (1-19).

SIC 3542, Metal-forming Machine Tools: New England--Maine, 1 (20-99); New Hampshire, 1 (20-99); Rhode Island, 2 (1-19); South Atlantic--Maryland, 3 (135); North Carolina, 3 (184); South Carolina, 2 (20-99); Georgia, 2 (20-99); Florida, 3 (20-99); East South Central--Kentucky, 1 (20-99); Alabama, 1 (1-19); West South Central--Arkansas, 1 (1-19); Oklahoma, 1 (20-99); Texas, 4 (20-99); Mountain--Arizona, 1 (1-19); Pacific--Washington, 2 (250-499); Oregon, 1 (20-99); California, 36 (1408).

SIC 3544, Special Dies and Tools: New England--Maine, 7 (20-99); New Hampshire, 15 (161); Vermont, 4 (1-19); West North Central--North Dakota, 1 (1-19); Nebraska, 8 (20-99); South Atlantic--Delaware, 3 (20-99); Virginia, 8 (20-99); West Virginia, 5 (20-99); South Carolina, 9 (20-99); East South Central--Alabama, 11 (198); Mississippi, 2 (1-19); West South Central--Louisiana, 9 (20-99); Oklahoma, 8 (20-99); Mountain--Idaho, 1 (1-19); Colorado, 13 (100-249); New Mexico, 1 (20-99); Utah, 6 (100-249); Pacific--Washington, 11 (20-99); Oregon, 14 (20-99).

SIC 3545, Machine Tool Accessories: New England--Maine, 1 (1-19); New Hampshire, 4 (100-249); Rhode Island, 19 (1,099); West North Central--Minnesota, 8 (425); Iowa, 5 (20-99); Missouri, 6 (513); Nebraska, 1 (1-19); Kansas, 2 (20-99); South Atlantic--Maryland, 3 (20-99); Virginia, 2 (1-19); West Virginia, 2 (1-19); North Carolina, 6 (121); South Carolina, 1 (20-99); Florida, 10 (20-99); East South Central--Kentucky, 4 (245); Tennessee, 5 (250-499); Alabama, 4 (20-99); Mississippi, 1 (1-19); West South Central--Arkansas, 4 (176); Texas, 11 (20-99); Mountain--Colorado, 1 (1-19); Arizona, 3 (1-19); Utah, 1 (1-19); Pacific--Washington, 1 (1-19); Oregon, 3 (1-19).

SIC 3548, Metalworking Machinery, N.E.C.: New England--New Hampshire, 4 (1-19); Vermont, 2 (20-99); Massachusetts, 15 (1343); Rhode Island, 4 (20-99); West North Central--Minnesota, 6 (219); North Dakota, 1 (20-99); South Dakota, 1 (1-19); Nebraska, 2 (20-99); Kansas, 4 (20-99); South Atlantic--Delaware, 4 (203); Maryland, 3 (2500-4999); Virginia, 1 (1-19); West Virginia, 2 (500-999); North Carolina, 2 (1-19); South Carolina, 1 (1,000-2,499); Georgia, 2 (1-19); Florida, 3 (20-99); East South Central--Alabama, 3 (20-99); West South Central--Louisiana, 1 (1-19); Oklahoma, 2 (1-19); Mountain--New Mexico, 2 (20-99); Arizona, 1 (1-19); Pacific--Washington, 2 (1-19); Oregon, 1 (1-19); California, 48 (1,061); Hawaii, 1 (1-19).

<sup>2</sup> This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.



TABLE 3. Detailed Statistics: 1963

| Item   | Metal-cutting machine tools (SIC 3541) | Metal-forming machine tools (SIC 3542) | Special dies and tools (SIC 3544) | Machine tool accessories (SIC 3545) | Metal-working machinery, n.e.c. (SIC 3548) |
|--|--|--|-----------------------------------|-------------------------------------|--|
| Primary product specialization ratio <sup>1</sup> .....        | .81                                    | .86                                    | .93                               | .83                                 | .85  |
| Coverage ratio <sup>2</sup> .....                              | .87                                    | .79                                    | .72                               | .84                                 | .88  |
| Establishments, total.....number..                             | 801                                    | 366                                    | 5,896                             | 1,038                               | 435  |
| With 1 to 19 employees.....do....                              | 532                                    | 220                                    | 4,763                             | 691                                 | 267  |
| With 20 to 99 employees.....do....                             | 174                                    | 104                                    | 1,030                             | 250                                 | 99   |
| With 100 employees or more.....do....                          | 95                                     | 42                                     | 103                               | 97                                  | 69   |
| Proprietors and working partners.....do....                    | 357                                    | 125                                    | 3,407                             | 417                                 | 150  |
| All employers (average for the year).....do....                | 61,058                                 | 22,078                                 | 90,860                            | 46,994                              | 38,012                                     |
| Payroll (all employees), total for year.....\$1,000..          | 438,222                                | 161,669                                | 682,739                           | 312,799                             | 246,242                                    |
| Production workers:  |  |  |                                   |                                     |  |
| Average for the year.....number..                              | 41,008                                 | 15,782                                 | 76,002                            | 34,560                              | 28,257                                     |
| March.....do....   | 40,076                                 | 15,817                                 | 76,642                            | 34,521                              | 28,004                                     |
| May.....do....   | 40,604                                 | 15,726                                 | 76,899                            | 34,724                              | 27,894                                     |
| August.....do....  | 41,264                                 | 15,641                                 | 74,361                            | 34,629                              | 28,093                                     |
| November.....do....  | 41,966                                 | 15,959                                 | 76,421                            | 34,412                              | 29,063                                     |
| Man-hours.....1,000..  | 86,486                                 | 34,633                                 | 169,313                           | 72,037                              | 57,094                                     |
| January-March.....do....                                       | 21,666                                 | 8,637                                  | 42,510                            | 18,211                              | 14,249                                     |
| April-June.....do....  | 21,407                                 | 8,987                                  | 43,757                            | 18,440                              | 14,358                                     |
| July-September.....do....                                      | 20,895                                 | 8,167                                  | 40,537                            | 16,997                              | 13,739                                     |
| October-December.....do....                                    | 22,518                                 | 8,842                                  | 42,509                            | 18,389                              | 14,748                                     |
| Wages.....\$1,000..  | 272,243                                | 107,381                                | 543,033                           | 208,086                             | 161,837                                    |
| Cost of materials, etc., total.....do....                      | 381,566                                | 165,376                                | 373,320                           | 234,501                             | 328,357                                    |
| Materials, parts, containers, and supplies consumed.....do.... | 334,002                                | 144,149                                | 281,516                           | 188,599                             | 279,508                                    |
| Cost of resales.....do....                                     | 20,832                                 | 8,625                                  | 14,049                            | 21,677                              | 33,383                                     |
| Fuels consumed.....do....                                      | 3,800                                  | 1,179                                  | 5,215                             | 2,285                               | 3,460                                      |
| Electric energy:   |  |  |                                   |                                     |  |
| Purchased:   |  |  |                                   |                                     |  |
| Quantity.....million kw.-hrs..                                 | 3,541                                  | 3,542                                  | 3,544                             | 3,545                               | 3,548                                      |
| Cost.....\$1,000..   | 426                                    | 153                                    | 543                               | 406                                 | 285  |
| Generated less sold.....million kw.-hrs..                      | 6,687                                  | 2,142                                  | 9,619                             | 6,023                               | 4,069                                      |
| Contract work.....\$1,000..                                    | 8                                      | (D)                                    | 1                                 | 1                                   | (D)  |
| Value of shipments (including resales), total.....do....       | 16,245                                 | 9,281                                  | 62,920                            | 15,913                              | 7,937                                      |
| Value of resales.....do....                                    | 1,060,818                              | 441,419                                | 1,388,794                         | 787,338                             | 796,327                                    |
| Value added by manufacture, adjusted.....do....                | 29,113                                 | 10,596                                 | 19,577                            | 26,878                              | 40,119                                     |
| Manufacturers' inventories:                                    |  |  |                                   |                                     |  |
| Beginning of year, total.....do....                            | 699,341                                | 281,287                                | 1,029,338                         | 559,258                             | 468,435                                    |
| Finished products.....do....                                   | 288,027                                | 118,829                                | 107,375                           | 163,906                             | 215,143                                    |
| Work-in-process.....do....                                     | 75,254                                 | 32,229                                 | 13,530                            | 64,323                              | 57,798                                     |
| Materials, supplies, fuel, etc.....do....                      | 163,194                                | 54,773                                 | 67,489                            | 66,923                              | 111,061                                    |
| End of year, total.....do....                                  | 49,579                                 | 31,827                                 | 26,356                            | 32,660                              | 46,284                                     |
| Finished products.....do....                                   | 316,288                                | 124,188                                | 124,789                           | 171,114                             | 216,412                                    |
| Work-in-process.....do....                                     | 82,334                                 | 33,900                                 | 14,702                            | 65,952                              | 58,918                                     |
| Materials, supplies, fuel, etc.....do....                      | 176,203                                | 58,346                                 | 80,181                            | 71,715                              | 110,323                                    |
| Expenditures for plant and equipment, total.....do....         | 57,751                                 | 31,942                                 | 29,906                            | 33,448                              | 47,171                                     |
| New, total.....do....  | 32,378                                 | 13,592                                 | 64,814                            | 26,125                              | 21,954                                     |
| New structures and additions to plant.....do....               | 28,837                                 | 10,792                                 | 53,343                            | 22,784                              | 20,957                                     |
| New machinery and equipment.....do....                         | 5,401                                  | 2,099                                  | 10,557                            | 4,215                               | 4,139                                      |
| Used plant and equipment.....do....                            | 23,436                                 | 8,693                                  | 42,786                            | 18,569                              | 16,818                                     |
| Selected operating ratios:                                     |  |  |                                   |                                     |  |
| Payroll/Total employment.....                                  | 7,177                                  | 7,323                                  | 7,513                             | 6,656                               | 6,478                                      |
| Production workers/Total employment.....                       | .67                                    | .72                                    | .84                               | .74                                 | .74  |
| Man-hours/Production workers.....                              | 2,109                                  | 2,196                                  | 2,228                             | 2,084                               | 2,017                                      |
| Production worker wages/Man-hours.....                         | 3.15                                   | 3.10                                   | 3.21                              | 2.89                                | 2.83                                       |
| Cost of materials and payrolls/Total value of shipments.....   | .77                                    | .74                                    | .76                               | .70                                 | .72  |
| Cost of materials/Total value of shipments.....                | .36                                    | .37                                    | .27                               | .30                                 | .41  |
| Adjusted value added/Total employment.....                     | 11,454                                 | 12,740                                 | 11,329                            | 11,901                              | 12,323                                     |
| Salaries and wages/Adjusted value added.....                   | .63                                    | .57                                    | .66                               | .56                                 | .53  |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of- |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3541.—METAL-CUTTING MACHINE TOOLS      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 801                   | 276                                | 127              | 129                | 118                | 56                 | 44                   | 22                   | 15                   | 11                       | 3                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 61,058                | 529                                | 840              | 1,803              | 3,607              | 3,727              | 6,912                | 7,713                | 10,664               | 15,534                   | 9,729                    |
| Payroll.....\$1,000..                           | 438,222               | 3,047                              | 4,866            | 11,398             | 24,119             | 26,871             | 49,483               | 59,073               | 77,549               | 114,965                  | 66,851                   |
| Value added, adjusted.....do....                | 699,341               | 5,797                              | 8,069            | 17,964             | 41,249             | 43,193             | 86,921               | 94,119               | 137,004              | 161,967                  | 103,058                  |
| Value of shipments.....do....                   | 1,060,818             | 9,508                              | 12,382           | 29,092             | 66,044             | 70,342             | 140,576              | 149,473              | 200,593              | 241,544                  | 141,264                  |
| Capital expenditures, new...do....              | 28,837                | 298                                | 283              | 705                | 1,304              | 1,949              | 3,170                | 3,967                | 5,573                | 8,453                    | 3,091                    |
| INDUSTRY 3542.—METAL-FORMING MACHINE TOOLS      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 366                   | 99                                 | 64               | 57                 | 64                 | 40                 | 23                   | 9                    | 7                    | 3                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 22,078                | 185                                | 455              | 809                | 2,036              | 2,728              | 3,708                | 3,536                | 4,919                | 3,702                    | -                        |
| Payroll.....\$1,000..                           | 161,669               | 1,188                              | 2,671            | 4,975              | 14,577             | 18,695             | 25,861               | 27,227               | 37,457               | 29,018                   | -                        |
| Value added, adjusted.....do....                | 281,287               | 2,824                              | 4,563            | 8,663              | 24,190             | 33,571             | 46,532               | 44,731               | 72,948               | 43,265                   | -                        |
| Value of shipments.....do....                   | 441,419               | 3,944                              | 7,563            | 13,269             | 37,676             | 52,289             | 85,484               | 65,216               | 104,924              | 71,054                   | -                        |
| Capital expenditures, new...do....              | 10,792                | 169                                | 171              | 327                | 758                | 1,361              | 3,328                | 1,471                | 2,055                | 1,152                    | -                        |
| INDUSTRY 3544.—SPECIAL TOOLS AND DIES           |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 5,896                 | 2,300                              | 1,238            | 1,225              | 830                | 200                | 79                   | 17                   | 5                    | 2                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 90,860                | 4,241                              | 8,475            | 16,756             | 24,802             | 13,501             | 11,327               | 5,819                | <u>5,939</u>         | (D)                      | -                        |
| Payroll.....\$1,000..                           | 682,739               | 25,209                             | 54,215           | 115,457            | 187,314            | 105,640            | 94,493               | 45,884               | <u>54,527</u>        | (D)                      | -                        |
| Value added, adjusted.....do....                | 1,029,338             | 54,804                             | 88,245           | 177,034            | 278,004            | 156,459            | 139,011              | 61,984               | <u>73,797</u>        | (D)                      | -                        |
| Value of shipments.....do....                   | 1,388,794             | 75,717                             | 117,304          | 234,716            | 378,749            | 210,012            | 192,350              | 86,274               | <u>93,672</u>        | (D)                      | -                        |
| Capital expenditures, new...do....              | 53,343                | 4,776                              | 5,244            | 9,562              | 14,429             | 7,738              | 6,087                | 2,647                | <u>2,860</u>         | (D)                      | -                        |
| INDUSTRY 3545.—MACHINE TOOL ACCESSORIES         |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 1,038                 | 321                                | 193              | 177                | 165                | 85                 | 59                   | 25                   | 7                    | 6                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 46,994                | 555                                | 1,326            | 2,517              | 5,128              | 5,887              | 9,379                | 8,559                | 5,435                | 8,208                    | -                        |
| Payroll.....\$1,000..                           | 312,799               | 3,018                              | 7,626            | 15,893             | 36,785             | 38,158             | 60,751               | 57,608               | 36,195               | 56,765                   | -                        |
| Value added, adjusted.....do....                | 559,258               | 6,949                              | 13,897           | 26,641             | 63,679             | 67,321             | 105,315              | 108,321              | 58,084               | 109,051                  | -                        |
| Value of shipments.....do....                   | 787,338               | 10,458                             | 20,009           | 38,019             | 90,759             | 98,985             | 149,318              | 146,648              | 78,628               | 154,514                  | -                        |
| Capital expenditures, new...do....              | 22,784                | 355                                | 457              | 1,040              | 2,923              | 3,033              | 4,227                | 4,188                | 2,167                | 4,394                    | -                        |
| INDUSTRY 3548.—METALWORKING MACHINERY, N. E. C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 435                   | 137                                | 70               | 60                 | 60                 | 39                 | 31                   | 14                   | 15                   | 9                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 38,012                | 290                                | 476              | 811                | 1,822              | 2,634              | 4,804                | 5,152                | 9,702                | 12,321                   | -                        |
| Payroll.....\$1,000..                           | 246,242               | 1,350                              | 2,498            | 4,716              | 12,160             | 17,397             | 30,524               | 36,591               | 63,720               | 77,286                   | -                        |
| Value added, adjusted.....do....                | 468,435               | 3,154                              | 4,259            | 8,956              | 21,458             | 32,366             | 59,873               | 71,379               | 111,190              | 155,800                  | -                        |
| Value of shipments.....do....                   | 796,327               | 5,220                              | 7,167            | 14,807             | 36,736             | 52,405             | 108,328              | 111,721              | 206,310              | 253,633                  | -                        |
| Capital expenditures, new...do....              | 20,957                | 274                                | 216              | 394                | 1,002              | 1,232              | 2,214                | 3,387                | 6,918                | 5,320                    | -                        |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.  
 (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.



TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|---|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |   | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |   | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |   | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3541      | Metal-cutting machine tools.....1963..  | 1,060,818          | 805,323          | 187,903            | 67,592                 | 81                                   | 925,251                            | 805,323               | 119,928                  | 88                            |
|           | 1958..                                  | 679,836            | 529,343          | 92,614             | 57,879                 | 85                                   | 592,549                            | 529,343               | 63,206                   | 89                            |
| 3542      | Metal-forming machine tools.....1963..  | 441,419            | 350,906          | 57,649             | 32,864                 | 86                                   | 444,845                            | 350,906               | 93,939                   | 79                            |
|           | 1958..                                  | 317,657            | 230,191          | 49,498             | 37,968                 | 82                                   | 289,478                            | 230,191               | 59,287                   | 80                            |
| 3544      | Special dies and tools.....1963..       | 1,388,794          | 1,164,341        | 85,491             | 138,962                | 93                                   | 1,608,135                          | 1,164,341             | 443,794                  | 72                            |
|           | 1958..                                  | 1,060,566          | 905,775          | 64,333             | 90,458                 | 93                                   | 1,320,389                          | 905,775               | 414,614                  | 69                            |
| 3545      | Machine tool accessories.....1963..     | 787,338            | 616,022          | 121,781            | 49,535                 | 83                                   | 731,716                            | 616,022               | 115,694                  | 84                            |
|           | 1958..                                  | 511,456            | 401,680          | 73,371             | 36,405                 | 85                                   | 470,197                            | 401,680               | 68,517                   | 85                            |
| 3548      | Metalworking machinery, n.e.c....1963.. | 796,327            | 615,932          | 108,647            | 71,748                 | 85                                   | 701,906                            | 615,932               | 85,974                   | 88                            |
|           | 1958..                                  | 602,015            | 494,345          | 48,441             | 59,229                 | 91                                   | 580,161                            | 494,345               | 85,816                   | 85                            |

NOTE: See Introduction for an explanation of terms used.

n.e.c. Not elsewhere classified.







TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code | Class of products and miscellaneous receipts  | All industries | Machine tool accessories (SIC 3545)       | Other industries | Prod. class code | Class of products and miscellaneous receipts  | All industries | Metalworking machinery, n.e.c. (SIC 3548) | Other industries |
|------------------|---|----------------|---|------------------|------------------|---|----------------|---|------------------|
|                  | MACHINE TOOL ACCESSORIES INDUSTRY—Continued   |                |   |                  |                  | METALWORKING MACHINERY, N.E.C. INDUSTRY—Continued   |                |   |                  |
|                  | Secondary products—Continued  |                |   |                  |                  | Secondary products, total.....  | (X)            | 108,647                                   | (X)              |
| 35441            | Special dies and tools, die sets, jigs, and fixtures.....                                   | (X)            | 22,410                                    | (X)              | 35361            | Hoists.....   | (X)            | 7,084                                     | (X)              |
| 35481            | Rolling-mill machinery and equipment.....   | (X)            | 2,073                                     | (X)              | 35414            | Grinding and polishing machines (excluding gear tooth grinding, honing, lapping, polishing and buffing machines)..... | (X)            | 2,255                                     | (X)              |
|                  | Other secondary products.....   | (X)            | 63,413                                    | (X)              | 35424            | Parts for metal-forming machine tools and rebuilt metal-forming machinery.....  | (X)            | 3,385                                     | (X)              |
| 19291            | Ammunition over 30mm (or 1.18 inches and over) n.e.c.....                                   | (X)            | (5-10)                                    | (X)              | 35595            | Other special industry machinery and equipment.....   | (X)            | 4,040                                     | (X)              |
| 32911            | Nonmetallic artificial sized grains, powders and flour abrasives.....                       | (X)            | (5-10)                                    | (X)              | 35990            | Carburetors, pistons and other machine shop products.....   | (X)            | 2,407                                     | (X)              |
| 33560            | Rolled, drawn, and extruded nonferrous metal mill products (except copper and aluminum)...  | (X)            | (over 2)                                  | (X)              | 36211            | Fractional horsepower motors.....   | (X)            | 6,808                                     | (X)              |
| 34231            | Mechanics' hand service tools...  | (X)            | (2-5)                                     | (X)              |                  |   |                |   |                  |
| 34250            | Hand saws, saw blades and saw accessories.....  | (X)            | (2-5)                                     | (X)              |                  | Other secondary products.....   | (X)            | 82,668                                    | (X)              |
| 35412            | Drilling machines.....  | (X)            | (2-5)                                     | (X)              | 33214            | All other gray iron castings.....   | (X)            | (5-10)                                    | (X)              |
| 35413            | Gear cutting and finishing machines.....  | (X)            | (2-5)                                     | (X)              | 33230            | Steel castings.....   | (X)            | (2-5)                                     | (X)              |
| 35416            | Milling machines.....   | (X)            | (2-5)                                     | (X)              | 34231            | Mechanics' hand service tools.....  | (X)            | (2-5)                                     | (X)              |
| 35595            | Other special industry machinery, and equipment.....  | (X)            | (2-5)                                     | (X)              | 35421            | Punching, shearing, bending and forming machines.....   | (X)            | (5-10)                                    | (X)              |
|                  | Miscellaneous receipts, total.....  | (X)            | 49,535                                    | (X)              | 35422            | Presses, including forging presses.....   | (X)            | (2-5)                                     | (X)              |
|                  | Contract and commission work.....   | (X)            | 6,572                                     | (X)              | 35662            | Speed changers, industrial high speed drives, and gears.....  | (X)            | (5-10)                                    | (X)              |
|                  | Sales of products bought and resold   | (X)            | 26,878                                    | (X)              | 35860            | Measuring and dispensing pumps...   | (X)            | (2-5)                                     | (X)              |
|                  | Receipts for precision machining on materials owned by others.....                          | (X)            | 8,949                                     | (X)              | 35893            | Commercial and industrial vacuum cleaners, including attachments and parts.....                                       | (X)            | (2-5)                                     | (X)              |
|                  | Other.....  | (X)            | 7,136                                     | (X)              | 37291            | Other aircraft parts and auxiliary equipment.....   | (X)            | (5-10)                                    | (X)              |
|                  | Listing of other industries with over \$2 million shipments of the primary product classes: |                |   |                  | 38213            | Industrial process instruments...   | (X)            | (2-5)                                     | (X)              |
| 35451            | 3291 Abrasive products.....   | (X)            | (X)                                       | 2,360            |                  | Miscellaneous receipts, total.....  | (X)            | 71,748                                    | (X)              |
|                  | 3499 Fabricated metal products, n.e.c.....  | (X)            | (X)                                       | (2-5)            |                  | Receipts for precision machining on materials owned by others.....  | (X)            | 10,357                                    | (X)              |
|                  | 3541 Metal-cutting machine tools.   | (X)            | (X)                                       | 29,775           |                  | Other receipts for work done for others on their materials.....   | (X)            | 3,526                                     | (X)              |
|                  | 3822 Automatic temperature controls.....  | (X)            | (X)                                       | (over 2)         |                  | Sales of products bought and resold   | (X)            | 40,019                                    | (X)              |
| 35452            | 3541 Metal-cutting machine tools.   | (X)            | (X)                                       | 11,165           |                  | Sales of iron and steel production scrap.....   | (X)            | 787                                       | (X)              |
|                  | 3999 Miscellaneous products, n.e.c.....   | (X)            | (X)                                       | (over 2)         |                  | Sales of copper and copper-base alloy production scrap.....   | (X)            | 500                                       | (X)              |
| 35453            | 3541 Metal-cutting machine tools.   | (X)            | (X)                                       | 27,860           |                  | Receipts for repair work.....   | (X)            | 13,313                                    | (X)              |
|                  | 3542 Metal-forming machine tools.   | (X)            | (X)                                       | 2,663            |                  | Other miscellaneous receipts.....   | (X)            | 3,246                                     | (X)              |
|                  | 3544 Special dies and tools.....  | (X)            | (X)                                       | 3,069            |                  | Listing of other industries with over \$2 million shipments of primary product classes:                               |                |   |                  |
|                  |   | All industries | Metalworking machinery, n.e.c. (SIC 3548) | Other industries | 35481            | 3323 Steel foundries.....   | (X)            | (X)                                       | (10-20)          |
|                  |   |                |   |                  |                  | 3542 Metal-forming machine tools..  | (X)            | (X)                                       | (2-5)            |
|                  |   |                |   |                  |                  | 3545 Machine tool accessories.....  | (X)            | (X)                                       | 2,073            |
|                  |   |                |   |                  |                  | 3585 Refrigeration machinery.....   | (X)            | (X)                                       | (over 2)         |
|                  |   | (X)            | 796,327                                   | (X)              | 35482            | 3542 Bolts, nuts, rivets and washers.....   | (X)            | (X)                                       | 5,166            |
|                  | Primary products, total.....  | 701,906        | 615,932                                   | 85,974           | 3589             | Service industry machines, n.e.c.....   | (X)            | (X)                                       | (2-5)            |
| 35481            | Rolling mill machinery and equipment.....   | 222,211        | 192,579                                   | 29,632           | 3634             | Electric housewares and fans.   | (X)            | (X)                                       | 2,534            |
| 35482            | Power-driven hand tools.....  | 319,881        | 298,687                                   | 21,194           | 35483            | 3494 Valves and pipe fittings.....  | (X)            | (X)                                       | (over 2)         |
| 35483            | Acetylene welding and cutting apparatus.....  | 54,648         | 43,315                                    | 11,333           | 3569             | General industry machines....   | (X)            | (X)                                       | (over 2)         |
| 35484            | Automotive maintenance equipment..  | 47,691         | 35,096                                    | 12,595           | 35484            | 3522 Farm machinery and equipment.  | (X)            | (X)                                       | (5-10)           |
| 35485            | Other metalworking machinery.....   | 36,564         | 28,184                                    | 8,380            | 35485            | 3542 Metal-forming machine tools..  | (X)            | (X)                                       | 2,226            |
| 35480            | Metalworking machinery, n.e.c., n.s.k.....  | 20,911         | 18,071                                    | 2,840            |                  |   |                |   |                  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code     | Product  | Total shipments including interplant transfers |                    |                               |                    |
|------------------|--|--|--------------------|-------------------------------|--------------------|
|                  |  | 1963   |                    | 1958                          |                    |
|                  |  | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 3541- --         | METAL-CUTTING MACHINE TOOLS, TOTAL.....  | (X)  | 925,251            | (X)                           | 592,549            |
| 35411 --         | Boring machines:   |  |                    |                               |                    |
|                  | As reported in the census of manufactures <sup>1</sup> .....   | (X)  | 66,342             | (X)                           | 52,791             |
|                  | As reported on Census Form M35W <sup>1</sup> .....   | 1,750  | 67,930             | 1,403                         | 51,563             |
|                  | Horizontal boring, drilling, and milling machines:   |  |                    |                               |                    |
| 35411 11         | Table type.....  | 144  | 12,625             | 215                           | 11,114             |
| 35411 15         | Floor type (including rail mounted)*.....  |  |                    | 47                            | 5,215              |
| 35411 13, 19     | All other horizontal boring, drilling, and milling machines, including rotary table type (built-in table)..... | 137  | 5,800              | 17                            | 1,527              |
|                  | Vertical boring and turning mills (including vertical turret lathes):  |  |                    |                               |                    |
| 35411 21         | Standard type.....   |  |                    |                               |                    |
| 35411 23         | Widened, raised, extended, and fixed rail types.....   |  |                    |                               |                    |
| 35411 25         | Multiple work holders (multislides).....   | 168  | 15,709             | 170                           | 14,471             |
| 35411 29         | All other vertical boring and turning mills.....   |  |                    |                               |                    |
|                  | Precision boring machines:   |  |                    |                               |                    |
| 35411 51, 53     | Horizontal (bridge and way types).....   | 319  | 11,689             |                               |                    |
| 35411 55         | Vertical type.....   |  |                    | 428                           | 9,971              |
| 35411 59         | All other precision boring machines.....   | 92   | 3,725              |                               |                    |
| 35411 71- 73     | Jig boring machines.....   | 499  | 17,000             | 260                           | 4,931              |
| 35411 91- 99     | All other boring machines*.....  | 391  | 1,382              | 266                           | 4,334              |
| 35412 --         | Drilling machines:   |  |                    |                               |                    |
|                  | As reported in the census of manufactures <sup>1</sup> .....   | (X)  | 55,278             | (X)                           | 30,949             |
|                  | As reported on Census Form M35W <sup>1</sup> .....   | 24,358   | 52,018             | 11,520                        | 30,023             |
|                  | Sensitive drilling machines:   |  |                    |                               |                    |
| 35412 11         | Bench type:  |  |                    |                               |                    |
|                  | Average value under \$1,000.....   | 5,787  | 1,344              | 4,434                         | 951                |
|                  | Average value \$1,000 or over.....   | 450  | 632                | 38                            | 88                 |
| 35412 15         | Floor and pedestal type:   |  |                    |                               |                    |
|                  | Average value under \$1,000.....   | 544  | 191                | 1,058                         | 332                |
|                  | Average value \$1,000 or over.....   | 1,089  | 5,105              | 1,374                         | 2,507              |
|                  | Vertical (upright) drilling machines:  |  |                    |                               |                    |
| 35412 21         | Plain-upright:   |  |                    |                               |                    |
|                  | Average value under \$1,000.....   | 13,429   | 2,195              | 2,770                         | 1,039              |
|                  | Average value \$1,000 or over.....   | 222  | 796                | 140                           | 289                |
| 35412 23         | Heavy duty (manufacturing).....  | 177  | 1,010              | 196                           | 240                |
| 35412 25- 29     | All other vertical (upright) drilling machines, including indexing turret head.....                            | 256  | 6,577              | 79                            | 198                |
| 35412 31- 49     | Radial drilling machines.....  | 2,476  | 24,977             | 614                           | 5,607              |
|                  | Multiple spindle drilling machines (cluster of spindles driven from one central power unit):                   |  |                    |                               |                    |
| 35412 51         | Adjustable joint.....  | 174  | 2,107              |                               |                    |
| 35412 53- 55     | Fixed center and rail mounted.....   | 241  | 2,935              |                               |                    |
| 35412 61         | Automatic drilling machines (combination, horizontal-vertical, opposed heads).....                             | 2,267  | 211,821            | 348                           | 8,911              |
| 35412 69         | All other automatic multiple-spindle drilling machines.....  | 22   | 668                |                               |                    |
| 35412 81- 99     | All other drilling machines, including deep-hole drilling machines....   | 21,424   | 213,660            | 469                           | 9,861              |
| 35413 --         | Gear cutting machines:   |  |                    |                               |                    |
|                  | As reported in the census of manufactures <sup>1</sup> .....   | (X)  | 40,909             | (X)                           | 23,501             |
|                  | As reported on Census Form M35W (all with an average value over \$1,000) <sup>1</sup> .....                    | 1,371  | 39,534             | 806                           | 22,661             |
| 35413 71         | Gear tooth finishing machines.....   | 531  | 11,674             | 157                           | 4,406              |
| 35413 11- 13     | Gear hobbers.....  | 279  | 7,501              | 227                           | 5,733              |
| 35413 31- 59, 99 | All other gear cutting machines.....   | 561  | 20,359             | 422                           | 12,522             |
| 35414 --         | Grinding and polishing machines (except gear-tooth grinding, lapping, polishing and buffing machines):         |  |                    |                               |                    |
|                  | As reported in the census of manufactures <sup>1</sup> .....   | (X)  | 144,208            | (X)                           | 91,430             |
|                  | As reported on Census Form M35W <sup>1</sup> .....   | 52,446   | 137,040            | 52,925                        | 89,367             |
|                  | External cylindrical grinding machines:  |  |                    |                               |                    |
| 35414 11         | Plain.....   | 225  | 7,097              | 194                           | 5,466              |
| 35414 13         | Universal.....   | 318  | 6,965              | 247                           | 4,599              |
| 35414 15         | Roll grinders.....   | 75   | 5,690              | 29                            | 3,636              |
| 35414 16         | Centerless grinders.....   | 408  | 10,065             |                               |                    |
| 35414 19         | All other external cylindrical grinding machines.....  | 311  | 15,637             | 630                           | 12,337             |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code                   | Product  | Total shipments including interplant transfers |                     |                               |                     |
|--------------------------------|--|--|---------------------|-------------------------------|---------------------|
|                                |  | 1963   |                     | 1958                          |                     |
|                                |  | Quantity<br>(number of units)                  | Value<br>(\$1,000)  | Quantity<br>(number of units) | Value<br>(\$1,000)  |
| 3541- --                       | METAL-CUTTING MACHINE TOOLS—Continued.   |  |                     |                               |                     |
| 35414 --                       | Grinding and polishing machines (except gear tooth grinding, lapping, polishing and buffing machines)—Continued<br>As reported on Census Form M35W <sup>1</sup> —Continued                 |  |                     |                               |                     |
|                                | Surface grinding machines:   |  |                     |                               |                     |
| 35414 31                       | Rotary table type.....   | 583  | 7,830               | 639                           | 7,695               |
| 35414 33                       | Reciprocating table type (including face grinders).....  | <sup>3</sup> 4,229                             | <sup>3</sup> 20,098 | 2,358                         | 10,270              |
| 35414 39                       | All other surface grinding machines (including planer type).....   | 50   | 232                 | ( <sup>4</sup> )              | ( <sup>4</sup> )    |
|                                | Bench, floor, and snag grinders:   |  |                     |                               |                     |
| 35414 43                       | Bench (all with an average value under \$1,000).....   | 28,136   | 1,737               | 33,152                        | 1,908               |
| 35414 45                       | Floor and snag grinders:   |  |                     |                               |                     |
|                                | Average value under \$1,000.....   | 2,897  | 704                 | 3,063                         | 950                 |
|                                | Average value \$1,000 or over.....   | 122  | 279                 |                               |                     |
| 35414 51                       | Tool and cutter grinding machines:   |  |                     |                               |                     |
|                                | Universal.....   | <sup>3</sup> 1,106                             | <sup>3</sup> 4,173  | 937                           | 2,543               |
| 35414 55                       | Special (broach, drill, mill, saw, hob, and tap):  |  |                     |                               |                     |
|                                | Average value under \$1,000.....   | 1,400  | 638                 | 893                           | 279                 |
|                                | Average value \$1,000 or over.....   | 777  | 5,427               | 1,062                         | 3,737               |
|                                | Polishing and buffing machines:  |  |                     |                               |                     |
| 35414 65                       | Floor type:  |  |                     |                               |                     |
|                                | Average value under \$1,000.....   | 426  | 133                 | 349                           | 127                 |
|                                | Average value \$1,000 or over.....   | 721  | 2,148               | 568                           | 2,647               |
| 35414 61                       | Bench type*.....   | 1,345  | 143                 | }                             | }                   |
| 35414 66                       | Speed lathes*.....   | 391  | 146                 |                               |                     |
| 35414 67                       | Swing frame, sheet metal and tube polishing.....   | <sup>3</sup> 147                               | <sup>3</sup> 936    |                               |                     |
| 35414 63, 69                   | All other polishing and buffing machines (including abrasive belt, drum, and disc lathes):   |  |                     | 1,253                         | 2,839               |
|                                | Average value under \$1,000.....   | 811  | 296                 | }                             | }                   |
|                                | Average value \$1,000 or over.....   | 606  | 4,875               |                               |                     |
|                                | Honing and lapping machines:   |  |                     |                               |                     |
| 35414 75                       | Honing machines (except gear honing), internal*.....   | 1,718  | 4,661               | 646                           | 2,437               |
| 35414 76-81                    | All other honing and lapping machines (including external and combination boring and turning honing machines and flat and cylindrical surface lapping machines, except gear lapping)*..... | <sup>3</sup> 438                               | <sup>3</sup> 2,736  | 287                           | 1,665               |
| 35414 21-25, 41, 49, 71, 91-99 | All other grinding machines (including internal cylindrical, disc, and thread grinders):   |  |                     |                               |                     |
|                                | Average value under \$1,000.....   | <sup>3</sup> 3,520                             | <sup>3</sup> 793    | }                             | }                   |
|                                | Average value \$1,000 or over.....   | 1,686  | 33,601              |                               |                     |
| 35415 --                       | Lathes:  |  |                     |                               |                     |
|                                | As reported in the census of manufactures <sup>1</sup> .....   | (X)  | 163,449             | (X)                           | 98,599              |
|                                | As reported on Census Form M35W <sup>1</sup> .....   | 19,656   | 154,763             | 16,983                        | 98,679              |
| 35415 11                       | Bench lathes (except bench turret lathes)*.....  | 5,299  | 4,991               | 6,700                         | 2,247               |
|                                | Manufacturing and tool room lathes:  |  |                     |                               |                     |
| 35415 21                       | Floor-engine-tool room (light and heavy duty):   |  |                     |                               |                     |
|                                | Up to and including 16" swing over cross slide:  |  |                     |                               |                     |
|                                | Average value under \$1,000.....   | 2,183  | 1,864               | }                             | }                   |
|                                | Average value \$1,000 or more.....   | 6,823  | 33,333              |                               |                     |
| 35415 23                       | 17" to 23" swing.....  | 324  | 6,471               | 526                           | 6,075               |
| 35415 25                       | 24" to 36" swing.....  | 46   | 1,980               | 107                           | 4,302               |
| 35415 29                       | Over 36" swing.....  | 9  | 857                 | 18                            | 2,431               |
| 35415 33-39                    | All other manufacturing and tool room lathes, including gap, manufacturing (multitool automatics) and hollow spindle (oil field)....   | <sup>5</sup> 180                               | <sup>5</sup> 3,267  | ( <sup>6</sup> )              | ( <sup>6</sup> )    |
|                                | Turret lathes:   |  |                     |                               |                     |
| 35415 51-53                    | Bench and floor light duty type with turret attachment, and ram type.  | <sup>5</sup> 1,361                             | <sup>5</sup> 11,649 | <sup>7</sup> 513              | <sup>7</sup> 7,349  |
| 35415 55                       | Saddle type.....   | 123  | 5,366               | 142                           | 5,807               |
|                                | Automatic chucking lathes:   |  |                     |                               |                     |
| 35415 61                       | Single spindle.....  | 695  | 25,413              | 304                           | 9,639               |
| 35415 65                       | Multiple spindle.....  | 195  | 16,233              | 152                           | 8,335               |
|                                | Automatic between center lathes:   |  |                     |                               |                     |
| 35415 71                       | Single spindle.....  | 174  | 5,757               | 155                           | 5,092               |
| 35415 75                       | Multiple spindle.....  |  |                     |                               |                     |
| 35415 81, 88                   | Screw (bar) machines.....  | 1,278  | 30,494              | 901                           | 14,743              |
| 35415 77, 87, 89-99            | All other lathes (including right angle carriage lathes (T-lathes) and boring and combination boring and turning lathes).....  | <sup>5</sup> 966                               | <sup>5</sup> 7,088  | <sup>6</sup> 1,903            | <sup>6</sup> 13,936 |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code           | Product  | Total shipments including interplant transfers |                     |                               |                     |
|------------------------|--|--|---------------------|-------------------------------|---------------------|
|                        |  | 1963   |                     | 1958                          |                     |
|                        |  | Quantity<br>(number of units)                  | Value<br>(\$1,000)  | Quantity<br>(number of units) | Value<br>(\$1,000)  |
| 3541- --               | METAL-CUTTING MACHINE TOOLS—Continued  |  |                     |                               |                     |
| 35416 --               | Milling machines:  |  |                     |                               |                     |
|                        | As reported in the census of manufactures <sup>1</sup> .....   | (X)  | 112,724             | (X)                           | 89,406              |
|                        | As reported on Census Form M35W <sup>1</sup> .....   | 16,683   | 106,126             | 11,004                        | 89,315              |
| 35416 11               | Bench and hand milling machines (including knee-type bench milling machines):  |  |                     |                               |                     |
|                        | Average value under \$1,000.....   | 1,087  | 458                 | 476                           | 703                 |
|                        | Average value \$1,000 or over.....   | 399  | 1,179               |                               |                     |
|                        | Knee-type milling machines (except bench type):  |  |                     |                               |                     |
|                        | Horizontal:  |  |                     |                               |                     |
| 35416 21               | Plain.....   | 609  | 10,729              | 499                           | 5,631               |
| 35416 23               | Universal.....   | 206  | 3,604               | 201                           | 2,812               |
|                        | Vertical:  |  |                     |                               |                     |
| 35416 26               | 2 horsepower and under.....  | <sup>8</sup> 7,800                             | <sup>8</sup> 15,932 | 5,799                         | 14,762              |
| 35416 28               | Over 2 horsepower.....   | 252  | 5,574               |                               |                     |
| 35416 29               | All other knee-type milling machines.....  | <sup>8</sup> 43                                | <sup>8</sup> 483    | (NA)                          | (NA)                |
|                        | Bed type milling machines:   |  |                     |                               |                     |
| 35416 31               | Single spindle.....  | 384  | 7,087               | 242                           | 3,514               |
| 35416 35               | Multiple spindle and special purpose machines.....   | 142  | 16,054              | 179                           | 20,279              |
| 35416 41               | Planer type milling machines.....  | 23   | 4,113               | 20                            | 4,305               |
| 35416 51               | Profile machines and duplicators.....  | 434  | 14,637              | 363                           | 21,840              |
| 35416 57               | Die sinking machines.....  | 379  | 2,740               |                               |                     |
| 35416 61               | Thread milling machines.....   | 13   | 419                 | 17                            | 591                 |
| 35416 95               | Engraving machines, drum type millers, cam millers, and pantograph millers.....  | <sup>8</sup> 74                                | <sup>8</sup> 460    | 3,208                         | 14,878              |
| 35416 71               | Ram type.....  | 777  | 4,725               |                               |                     |
| 35416 53-55, 91-93, 99 | All other milling machines (including skin millers and spar millers).....  | <sup>8</sup> 4,061                             | <sup>8</sup> 17,932 |                               |                     |
| 35418 --               | Other machine tools (including those designed primarily for home workshops, laboratories, garages, etc.), total <sup>9</sup> ..... | (X)  | 152,442             | (X)                           | 98,270              |
|                        | Products in the census of manufactures and on Census Form M35W:  |  |                     |                               |                     |
|                        | As reported in the census of manufactures <sup>1</sup> .....   | (X)  | 100,820             | (X)                           | 86,679              |
|                        | As reported on Census Form M35W <sup>1</sup> .....   | 23,658   | 100,466             | (NA)                          | 82,720              |
|                        | Broaching machines:  |  |                     |                               |                     |
|                        | Hydraulic:   |  |                     |                               |                     |
| 35417 11               | Horizontal.....  | 50   | 2,078               | 109                           | 4,377               |
| 35417 12, 13           | Vertical and rotary.....   | 72   | 2,697               |                               |                     |
|                        | Mechanical:  |  |                     |                               |                     |
| 35417 14, 15           | Horizontal and vertical.....   | 36   | 2,610               | 67                            | 3,607               |
| 35417 16               | Continuous chain type.....   |  |                     |                               |                     |
| 35417 19               | All other broaching machines.....  |  |                     |                               |                     |
| 35417 31-39            | Planners (including double housing, die block and open side).....  | 31   | 1,286               |                               |                     |
|                        | Shapers (except gear shapers) and slotters:  |  |                     |                               |                     |
|                        | Horizontal (plain and universal):  |  |                     |                               |                     |
| 35417 41               | Under 16" stroke.....  | 385  | 417                 | 495                           | 2,306               |
| 35417 43               | 16" stroke and over.....   | 130  | 1,360               |                               |                     |
| 35417 45, 49           | Vertical and other shapers and slotters.....   | ( <sup>10</sup> )                              | ( <sup>10</sup> )   |                               |                     |
|                        | Sawing and cut-off machines:   |  |                     |                               |                     |
|                        | Power hack saws:   |  |                     |                               |                     |
| 35417 61               | Average value under \$1,000.....   | 2,156  | 338                 | 2,309                         | 301                 |
|                        | Average value \$1,000 or over.....   | 499  | 1,711               | 699                           | 1,063               |
| 35417 63               | Circular cut-off saws.....   | <sup>11</sup> 130                              | <sup>11</sup> 1,177 | 39                            | 353                 |
| 35417 65               | Abrasive cut-off saws:   |  |                     |                               |                     |
|                        | Average value under \$1,000.....   | 1,178  | 629                 | 942                           | 506                 |
|                        | Average value \$1,000 or over.....   | 502  | 1,922               | 425                           | 1,020               |
| 35417 67               | Band saw cut-off saws.....   | <sup>11</sup> 984                              | <sup>11</sup> 6,898 | ( <sup>11</sup> )             | ( <sup>11</sup> )   |
| 35417 69               | All other sawing and cut-off machines:   |  |                     |                               |                     |
|                        | Average value under \$1,000.....   | <sup>11</sup> 5,228                            | <sup>11</sup> 2,796 | <sup>11</sup> 3,546           | <sup>11</sup> 1,772 |
|                        | Average value \$1,000 or over.....   | 233  | 3,661               | <sup>11</sup> 1,303           | <sup>11</sup> 5,127 |
|                        | Tapping machines:  |  |                     |                               |                     |
| 35417 72               | Vertical.....  | 12204  | 12807               | 388                           | 1,903               |
| 35417 73               | Horizontal and radial arm.....   |  |                     |                               |                     |
| 35417 74, 79           | All other tapping machines (including nut, coupling, and sheel).....   | 12163  | 121,753             |                               |                     |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code             | Product  | Total shipments including interplant transfers |                    |                               |                    |
|--------------------------|--|--|--------------------|-------------------------------|--------------------|
|                          |  | 1963   |                    | 1958                          |                    |
|                          |  | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 3541- --                 | METAL-CUTTING MACHINE TOOLS—Continued  |  |                    |                               |                    |
| 35418 --                 | Other machine tools (including those designed primarily for home workshops, laboratories, garages, etc.) <sup>9</sup> —Continued   |  |                    |                               |                    |
|                          | Products in the census of manufactures and on Census Form M35W—Con.  |  |                    |                               |                    |
|                          | As reported on Census Form M35W <sup>1</sup> —Continued  |  |                    |                               |                    |
| 35417 71                 | Contour sawing and filing machines (including band type):  |  |                    |                               |                    |
|                          | Average value under \$1,000.....   | 4,165  | 987                | 1,936                         | 516                |
|                          | Average value \$1,000 or over.....   | 1,534  | 5,020              | 2,362                         | 4,434              |
|                          | Threading machines (except thread millers and thread grinders):  |  |                    |                               |                    |
| 35417 75                 | Bolt.....  | (13)   | (13)               |                               |                    |
| 35417 77                 | Pipe and nipple.....   | 13,284   | 132,105            | 1,114                         | 3,592              |
| 35417 78                 | All other threading machines.....  | 13,4156  | 132,103            |                               |                    |
| 35417 17                 | Centering machines.....  | 22   | 408                |                               |                    |
| 35417 21                 | Keysetting machines.....   |  |                    | 62                            | 449                |
| 35417 83                 | Pointing, chamfering, facing, shaving, grooving, counter sinking, burring, forming, and drilling machines (excluding gear-tooth machines)*.....  | 277  | 1,830              |                               |                    |
| 35417 87                 | Transfer machines containing multiple stations for boring, broaching, drilling, grinding, turning, milling, tapping, reaming, counter boring, measuring, etc. (including way, rotary index, center column, trunnion, plain, or pallet transfer types)..... | 365  | 43,637             | (NA)                          | 51,394             |
| 35417 81, 85, 91-99      | All other metal cutting machine tools* <sup>14</sup> .....   | 10,874   | 10,2236            |                               |                    |
|                          | Machine tools designed primarily for home workshop, garages, etc. (metalworking and primarily metalworking only):  |  |                    |                               |                    |
| 35418 11                 | Drilling machines.....   | 24,728   | 3,465              |                               |                    |
| 35418 31                 | Grinding and polishing machines.....   | (NA)   | 8,153              | (NA)                          | 11,591             |
| 35418 51                 | Lathes.....  | (NA)   | 1,248              |                               |                    |
| 35418 71                 | Saws and sawing machines.....  | (NA)   | 8,877              |                               |                    |
| 35418 91                 | Other metal working (or primarily metalworking) types.....   | (X)  | 29,879             |                               |                    |
| 35419 --                 | Parts for metal cutting type machine tools, sold separately, and rebuilt machine tools, total.....   | (X)  | 165,517            | (X)                           | 88,742             |
| 35419 11                 | Parts for metal cutting machine tools (sold separately).....   | (X)  | 136,285            | (X)                           | 71,772             |
| 35419 41                 | Rebuilt metal cutting type machine tools.....  | (X)  | 29,232             | (X)                           | 16,970             |
| 35410 00                 | Machine tools, n.s.k.....  | (X)  | 24,382             | (X)                           | 18,861             |
| 3542- --                 | MACHINE TOOLS, METAL-FORMING TYPE, TOTAL.....  | (X)  | 444,845            | (X)                           | 289,478            |
| 35421 --                 | Punching, shearing, bending and forming machines: <sup>15</sup>  |  |                    |                               |                    |
|                          | As reported in the census of manufactures <sup>1</sup> .....   | (X)  | 92,542             | (X)                           | 68,443             |
|                          | As reported on Census Form M35W <sup>1</sup> .....   | 21,527   | 88,046             | (X)                           | 64,094             |
| 35424 11                 | Punching and shearing machines:  |  |                    |                               |                    |
|                          | Manually operated:   |  |                    |                               |                    |
|                          | Average value under \$1,000.....   | 1,023  | 183                |                               |                    |
|                          | Average value \$1,000 or over.....   | (16)   | (16)               | 6,797                         | 1,671              |
|                          | Power:   |  |                    |                               |                    |
| 35424 21                 | Punches (including combination punching and shearing machines)....   | 17,974   | 17,2424            | 728                           | 4,408              |
| 35424 31                 | Plate shearing machines (squaring, slitting, etc.).....  | 1,286  | 12,426             | 1,345                         | 13,752             |
| 35424 41                 | Bar and angle shearing machines.....   | 68   | 2,713              | 84                            | 4,093              |
| 35424 51                 | Rotary shearing machines.....  | 17,127   | 17,4188            | 281                           | 3,244              |
| 35424 98                 | Other punching and shearing machines:  |  |                    |                               |                    |
|                          | Average value under \$1,000.....   | 17,609   | 171,896            |                               |                    |
|                          | Average value \$1,000 or over.....   | 16,414   | 168,979            | (X)                           | 4,799              |
|                          | Bending and forming machines:  |  |                    |                               |                    |
|                          | Power: <sup>18</sup>   |  |                    |                               |                    |
| 35425 11                 | Bending rolls, sheet and plate.....  | 695  | 16,663             | 545                           | 4,089              |
| 35425 15                 | Bending rolls, angles, bars and shapes.....  | 71   | 804                | 131                           | 1,160              |
| 35425 21                 | Bending brakes and folders.....  | 1,043  | 8,463              | 905                           | 8,783              |
| 35425 25                 | Rotary bending and forming machines.....   | 184  | 1,580              | 2,394                         | 3,700              |
| 35425 31                 | Rotary head and ram bending machines (pipe, bar, etc.).....  | 251  | 2,426              | 566                           | 2,640              |
| 35425 35                 | Other bending and forming machines.....  | 1,013  | 10,375             | 1,011                         | 6,589              |
| 35425 13, 23, 27, 33, 37 | Other bending and forming machines (manual).....   | 18,769   | 184,926            | 13,186                        | 5,166              |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code    | Product   | Total shipments including interplant transfers |                      |                               |                     |
|-----------------|---|--|----------------------|-------------------------------|---------------------|
|                 |   | 1963   |                      | 1958                          |                     |
|                 |   | Quantity<br>(number of units)                  | Value<br>(\$1,000)   | Quantity<br>(number of units) | Value<br>(\$1,000)  |
| 3542- --        | MACHINE TOOLS, METAL-FORMING TYPE—Continued   |  |                      |                               |                     |
| 35422 --        | Presses, including forging:   |  |                      |                               |                     |
|                 | As reported in the census of manufactures <sup>1</sup> .....                                  | (X)  | 141,734              | (X)                           | 79,065              |
|                 | As reported on Census Form M35W <sup>1</sup> .....  | 28,563   | 135,996              | (X)                           | 76,501              |
|                 | Mechanical:   |  |                      |                               |                     |
|                 | Open inclinable gap type:   |  |                      |                               |                     |
| 35422 11        | 9 tons and under:   |  |                      |                               |                     |
|                 | Average value under \$1,000.....  | 2,803  | 4,215                | 5,099                         | 6,949               |
|                 | Average value \$1,000 or over.....  |  |                      |                               |                     |
| 35422 12        | 10 to 50 tons.....  | <sup>19</sup> 2,017                            | <sup>19</sup> 7,441  |                               |                     |
| 35422 13        | 51 tons and over.....   | <sup>19</sup> 1,048                            | <sup>19</sup> 10,677 | 441                           | 3,320               |
| 35422 15,<br>17 | End wheel type, including horn fixed and adjustable type.....                                 | <sup>19</sup> 34                               | <sup>19</sup> 247    | 207                           | 295                 |
|                 | Vertical straight sided and arch frame, excluding knuckle joint<br>(including cam and crank): |  |                      |                               |                     |
|                 | Single action:  |  |                      |                               |                     |
|                 | Single point:   |  |                      |                               |                     |
| 35422 21        | 200 tons and under.....   | 123  | 3,511                | 106                           | 2,278               |
|                 | 201 tons and over.....  | 71   | 7,900                |                               |                     |
| 35422 24        | Two point:  |  |                      |                               |                     |
|                 | 500 tons and under.....   | 370  | 14,851               | 141                           | 6,454               |
|                 | 501 tons and over.....  | 31   | 4,092                |                               |                     |
| 35422 27-<br>28 | Four point.....   | 100  | 12,869               | 31                            | 4,521               |
|                 | Double and triple action (including toggle):  |  |                      |                               |                     |
| 35422 31-<br>33 | Single point.....   | 29   | 1,519                | 31                            | 6,331               |
|                 | Two and four point:   |  |                      |                               |                     |
| 35422 35-<br>37 | 1,000 tons and under.....   | 72   | 14,442               |                               |                     |
| 35422 39        | 1,001 tons and over.....  |  |                      |                               |                     |
|                 | High speed automatic type, with feed (include multiple transfer):                             |  |                      |                               |                     |
| 35422 41        | 50 tons and under.....  | <sup>19</sup> 185                              | <sup>19</sup> 3,739  | 117                           | 1,499               |
| 35422 43        | 51 to 200 tons.....   | 182  | 7,739                | 53                            | 2,450               |
| 35422 45        | 201 tons and over.....  |  |                      |                               |                     |
|                 | Knuckle joint:  |  |                      |                               |                     |
| 35422 51        | 500 tons and under.....   | 15   | 577                  | 21                            | 717                 |
| 35422 53        | 501 tons and over.....  |  |                      |                               |                     |
| 35422 55        | Horizontal.....   | (20)   | (20)                 | 328                           | 1,765               |
| 35422 57        | Gap or C-frame.....   | <sup>19</sup> 272                              | <sup>19</sup> 4,454  |                               |                     |
| 35422 58        | Bulldozers.....   | (20)   | (20)                 | 1,930                         | 7,072               |
| 35422 59        | All other mechanical presses:   |  |                      |                               |                     |
|                 | Average value under \$1,000 <sup>19</sup> .....   | <sup>20</sup> 4,527                            | <sup>20</sup> 1,207  |                               |                     |
|                 | Average value \$1,000 or over.....  | <sup>20</sup> 383                              | <sup>20</sup> 6,702  |                               |                     |
|                 | Hydraulic and pneumatic presses (metalworking only):  |  |                      |                               |                     |
|                 | Vertical single action:   |  |                      |                               |                     |
|                 | Housing or straight column type:  |  |                      |                               |                     |
| 35422 61        | 500 tons and under.....   | <sup>21</sup> 502                              | <sup>21</sup> 4,654  | 1,165                         | 2,255               |
| 35422 62,<br>63 | 501 tons and over.....  | 13   | 1,693                | 16                            | 2,403               |
| 35422 64-<br>66 | Open rod type.....  | 154  | 1,878                | 238                           | 4,426               |
|                 | Gap or C-frame:   |  |                      |                               |                     |
| 35422 68        | 50 tons and under.....  | <sup>21</sup> 2,214                            | <sup>21</sup> 5,720  | 1,741                         | 3,652               |
| 35422 70        | 51 to 500 tons.....   | 92   | 1,135                | 96                            | 1,388               |
| 35422 69        | 501 tons and over.....  | -  | -                    |                               |                     |
| 35422 71,<br>72 | Vertical double action (2 slide).....   | (22)   | (22)                 | 14                            | 847                 |
| 35422 73        | Vertical triple action.....   | (22)   | (22)                 | (22)                          | (22)                |
|                 | Horizontal (except extrusion) type:   |  |                      |                               |                     |
| 35422 74        | 500 tons and under.....   | <sup>21</sup> 25                               | <sup>21</sup> 332    | 43                            | 523                 |
| 35422 75        | 501 to 1,500 tons.....  | -  | -                    | 10                            | 2,101               |
| 35422 76        | 1,501 tons and over.....  | -  | -                    |                               |                     |
| 35422 77        | Extrusion presses.....  | 35   | 4,812                | 46                            | 8,302               |
| 35422 81        | Stretch wrap forming machines.....  | (22)   | (22)                 | (22)                          | (22)                |
| 35422 79        | All other hydraulic presses:  |  |                      |                               |                     |
|                 | Average value under \$1,000 <sup>21</sup> .....   | <sup>22</sup> 929                              | <sup>22</sup> 410    | (X)                           | <sup>22</sup> 5,814 |
|                 | Average value \$1,000 or over.....  | <sup>22</sup> 641                              | <sup>22</sup> 7,663  |                               |                     |

See footnotes at end of table.





TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Total shipments, including interplant transfers (\$1,000) |          |
|--------------|---|---|----------|
|              |   | 1963  | 1958     |
| 3545- --     | MACHINE TOOL ACCESSORIES AND MEASURING DEVICES, TOTAL.....  | 731,716   | 470,197  |
| 35451 --     | Small cutting tools for machine tools and metalworking machinery, total.....  | 464,432   | 301,209  |
|              | Broaches: (including replaceable blades sold separately; but excluding holders and burnishing bars):  |   |          |
| 35451 13     | High speed steel.....   | 19,659  | 13,385   |
| 35451 15     | Carbide, solid and tipped (excluding tips and blanks sold separately).....  | 5,026   |          |
|              | Twist drills (including combined drills and countersinks; excluding gundrills and masonry drills):  |   |          |
| 35451 21     | Carbon steel.....   | 2,785   | 4,219    |
|              | High-speed steel:   |   |          |
| 35451 22     | Taper shank.....  | 20,500  | 45,515   |
| 35451 24     | Straight shank.....   | 52,299  |          |
| 35451 26     | Carbide, solid and tipped (excluding tips and blanks sold separately).....  | 6,992   | 5,631    |
| 35451 27     | Countersinks (excluding combination drills and countersinks and interchangeable pilots).....  | 2,851   | 6,889    |
| 35451 29     | Counter bores, including spot facers, etc. (excluding interchangeable pilots).....  | 6,452   |          |
|              | Reamers, all types, including finished replaceable blades sold separately (excluding gunreamers):   |   |          |
| 35451 31     | Carbon steel.....   | 2,926   | 3,712    |
| 35451 33     | High-speed steel.....   | 15,387  | 13,457   |
| 35451 36     | Carbide, solid and tipped (excluding tips and blanks sold separately).....  | 5,570   | 275,042  |
|              | Hobs (gear, spline, serration and sprocket):  |   |          |
| 35451 41     | Unground.....   | 7,374   | 3,758    |
| 35451 45     | Ground.....   | 5,176   | 3,607    |
| 35451 53     | Gear shaper cutters.....  | 6,562   | 11,908   |
| 35451 55     | Gear shaving cutters.....   | 4,898   |          |
|              | Milling cutters:  |   |          |
| 35451 58     | Form relieved cutters, high speed steel and carbide (including multiple thread milling cutters)....   | 10,274  | 3,235    |
|              | End mills, including solid or tipped, fishtail, die sinking, contour, router, tracer, hollow mill cutters and shell mill, etc. (excluding all inserted blade types):                |   |          |
| 35451 61     | High speed steel.....   | 21,207  | 2711,924 |
| 35451 62     | Carbide, solid and tipped (excluding tips and blanks sold separately).....  | 4,219   |          |
|              | Replaceable inserted blade milling cutters:   |   |          |
| 35451 64     | High speed steel.....   | 3,402   | 4,330    |
| 35451 65     | Carbide, solid and tipped (excluding tips and blanks sold separately).....  | 4,812   | 18,569   |
| 35451 68     | Slitting saws and screw slotting cutters.....   | 5,749   | 2712,320 |
|              | Milling cutters, n.e.c.   |   |          |
| 35451 66     | High-speed steel.....   | 8,735   |          |
| 35451 69     | Carbide, solid and tipped (excluding tips and blanks sold separately).....  | 3,785   |          |
|              | Single-point tools (cutting tools with integral or bonded shank and cutting element):   |   |          |
|              | Square, rectangular, round or other cross section, single or double end for turning, planing, shaping, forming, facing, cutting, cutting-off, etc. (excluding circular form tools): |   |          |
| 35451 71     | High-speed steel.....   | 11,149  | 4,369    |
| 35451 74     | Carbide, solid and tipped (excluding tips and blanks sold separately).....  | 24,101  | 2715,565 |
| 35451 75     | Other materials (including diamond tipped).....   | 2,825   |          |
| 35451 77     | Circular form tools, including circular form tool blanks.....   | 5,133   | 273,480  |
|              | Threading tools:  |   |          |
|              | Taps (excluding taps in threading sets and screw plates and inserted chaser types):   |   |          |
| 35451 78     | Ground thread (high-speed steel).....   | 35,855  | 23,114   |
| 35451 79     | Cut thread (carbon steel and high speed steel).....   | 6,877   | 5,647    |
| 35451 84     | Thread dies, cutting types (excluding inserted chaser-type and dies in threading sets and screw plates).....  | 10,851  | 7,381    |
| 35451 85     | Chasers and blades for taps and dies of inserted blade or chaser-type (excluding die heads and insert or collapsible tap bodies).....   | 14,274  | 8,279    |
| 35451 89     | Other threading tools, including threading sets and screw plates.....   | 4,278   | 5,508    |
|              | Tips, blanks and inserts (sold separately):   |   |          |
| 35451 81     | Tips and blanks <sup>28</sup> .....   | 23,047  | 33,526   |
|              | Inserts: <sup>28</sup>  |   |          |
| 35451 82     | Throw-away type.....  | 29,345  |          |
| 35451 83     | Other.....  | 6,286   |          |
|              | Other types of cutting tools for machine tools, n.e.c. including gundrills and gunreamers:  |   |          |
| 35451 91     | Carbon steel.....   | 5,545   | 12,208   |
| 35451 93     | High-speed steel.....   | 20,815  |          |
| 35451 97     | Carbide, solid and tipped (excluding tips and blanks sold separately).....  | 20,134  |          |
| 35451 00     | Small cutting tools for machine tools and metalworking machinery, n.s.k.....  | 17,277  | 24,631   |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Total shipments, including interplant transfers<br>(\$1,000) |           |           |          |
|--------------|---|--|-----------|-----------|----------|
|              |   | 1963   | 1958      |           |          |
| 3545- --     | MACHINE TOOL ACCESSORIES AND MEASURING DEVICES—Continued  |  |           |           |          |
| 35452 --     | Precision measuring tools.....  | 87,998   | 60,871    |           |          |
| 35452 11     | Machinists' precision tools:<br>Comparators.....  | 8,816  | 7,191     |           |          |
| 35452 13     | Fixed size limit gages (American Gage Design type—C-S8-51):<br>Fixture type.....  | 6,994  | 3,895     |           |          |
| 35452 15     | Thread type.....  | 6,001  | 6,078     |           |          |
| 35452 17     | Adjustable size limit gages.....  | 2,751  | 1,810     |           |          |
| 35452 21     | Gage blocks.....  | 2,556  | 1,967     |           |          |
| 35452 61     | Dial indicators.....  | 6,591  | 4,658     |           |          |
| 35452 71     | Pneumatic gages (manual and automatic).....   | 14,468   | 27,116    |           |          |
| 35452 98     | Other machinists' precision tools, including micrometers, calipers and dividers.....  | 36,814   |           |           |          |
| 35452 00     | Precision measuring tools, n.s.k.....   | 3,007  | 8,156     |           |          |
| 35453 --     | Other attachments and accessories for machines tools and metalworking machinery, total.....   | 152,570  | 96,168    |           |          |
|              | Chucks:   |  |           |           |          |
| 35453 11     | Drill.....  | 7,547  | 7,099     |           |          |
| 35453 13     | Lathe.....  | 9,974  | 5,266     |           |          |
| 35453 15     | Other chucks, including die heads and tap bodies.....   | 4,630  | 2,465     |           |          |
| 35453 21     | Chuck holding devices (feeding fingers and collets, sleeves, sockets, drill heads, etc.).....   | 16,621   | 11,547    |           |          |
| 35453 31     | Tools for screw and automatic machines (box tools, hollow drills, work and tool holders, etc.)<br>(except tap and dies).....  | 10,046   | 4,899     |           |          |
| 35453 41     | Other accessories and attachments for machine tools and metalworking machinery (except cutting tools)   | 84,715   | 48,757    |           |          |
| 35453 51     | Toolroom specialties, including levels, angle irons, plates, squares, sine bars, V-blocks, flats,<br>vises, etc.....  | 11,832   | 7,099     |           |          |
| 35453 00     | Other attachments and accessories for machine tools and metalworking machinery, n.s.k.....  | 7,205  | 9,036     |           |          |
| 35450 00     | Machine tool accessories and measuring devices, n.s.k.....  | 26,716   | 11,949    |           |          |
|              |   | Total shipments including interplant transfers               |           |           |          |
|              |   | 1963   |           |           |          |
|              |   | 1958   |           |           |          |
|              |   | Quantity   | Value     |           |          |
|              |   | (number of units)  | (\$1,000) |           |          |
|              |   | Quantity   | Value     |           |          |
|              |   | (number of units)  | (\$1,000) |           |          |
| 3548- --     | METALWORKING MACHINERY, EXCEPT MACHINE TOOLS, TOTAL.....  | (X)  | 701,906   | (X)       | 580,161  |
| 35481 --     | Rolling mill machinery and equipment, total.....  | (X)  | 222,211   | (X)       | 252,164  |
| 35481 15     | Hot rolling mill machinery, except tube rolling.....  | (X)  | 105,141   | (X)       | 134,503  |
| 35481 25     | Cold rolling mill machinery.....  | (X)  | 79,679    | (X)       | 44,352   |
| 35481 35     | Tube mill machinery.....  | (X)  | 16,448    | (X)       | 13,394   |
| 35481        | Other.....  | (X)  | 19,390    | (X)       | 59,915   |
| 35481 00     | Rolling mill machinery and equipment, n.s.k.....  | (X)  | 1,553     | (X)       | -        |
| 35482 --     | Power-driven hand tools, including parts and attachments, total.....  | (X)  | 319,881   | (X)       | 210,628  |
|              | Portable power-driven hand tools (power-driven hand tools which are<br>controlled by hand and the position of which in operation need not be<br>fixed, including high cycle): |  |           |           |          |
|              | Electric:   |  |           |           |          |
|              | Drills:   |  |           |           |          |
| 35482 06     | 1/4" chuck size and under.....  | 1,992,734  | 21,375    | 1,522,312 | 25,823   |
| 35482 08     | 5/16" up to and including 3/8".....   | 989,866  | 11,206    |           |          |
| 35482 12     | 1/2" and larger.....  | 742,420  | 13,892    |           |          |
|              | Saws:   |  |           |           |          |
|              | Circular:   |  |           |           |          |
| 35482 16     | 7" blade and smaller.....   | 1,034,860  | 22,267    | 1,488,944 | 36,053   |
| 35482 17     | Over 7" blade.....  | 137,657  | 7,371     |           |          |
| 35482 18     | Jig, saber, reciprocating.....  | 1,175,743  | 18,304    |           |          |
| 35482 22     | Screwdrivers and nut-runners.....   | 19,532   | 1,886     | (X)       | 29,770   |
| 35482 24     | Hammers.....  | 42,223   | 6,434     |           |          |
| 35482 25     | Impact wrenches.....  | 55,672   | 4,519     |           |          |
| 35482 27     | Planners and rouners.....   | 100,261  | 4,863     |           |          |
| 35482 33     | Grinders, polishers, circular sanders (except bench grinders).....  | 460,795  | 12,941    |           |          |
| 35482 34     | Sanders (belt, oscillating and reciprocating).....  | 655,726  | 12,374    |           |          |
| 35482 29     | Other electric-powered hand tools.....  | (X)  | 9,898     |           |          |
| 35482 05     | Parts, attachments and accessories for electric-powered hand tools<br>(sold separately).....  | (X)  | 43,388    | (X)       | 30,193   |
|              | Pneumatic:  |  |           |           |          |
| 35482 35     | Drills, screwdrivers and nut-runners.....   | 121,072  | 20,234    | 29,26,497 | 29,5,684 |
| 35482 37     | Percussion tools (such as runners, riveters, chippers, scalers<br>holder-ons).....  | 55,627   | 9,097     |           |          |
| 35482 41     | Impact wrenches.....  | 104,786  | 18,721    | (X)       | 33,449   |
| 35482 43     | Grinders, polishers, sanders.....   | 93,523   | 12,788    |           |          |
| 35482 49     | Other pneumatic-powered hand tools.....   | (X)  | 19,696    |           |          |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Total shipments including interplant transfers |                    |                               |                    |
|--------------|---|--|--------------------|-------------------------------|--------------------|
|              |   | 1963   |                    | 1958                          |                    |
|              |   | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 3548- --     | METALWORKING MACHINERY, EXCEPT MACHINE TOOLS—Continued  |  |                    |                               |                    |
| 35482 --     | Power-driven hand tools, including parts and attachments—Continued  |  |                    |                               |                    |
|              | Portable power-driven hand tools (power-driven hand tools which are controlled by hand and the position of which in operation need not be fixed, including high cycle): |  |                    |                               |                    |
|              | Pneumatic:  |  |                    |                               |                    |
| 35482 51     | Parts, attachments and accessories for pneumatic-powered hand tools (sold separately).....  | (X)  | 43,855             | (X)                           | 26,133             |
| 35482 61     | Powder-actuated hand tools.....   | 50,916   | 2,073              | (S)                           | 1,839              |
| 35482 00     | Power-driven hand tools, including parts and attachments, n.s.k.....  | (X)  | 2,699              | (X)                           | 12,094             |
| 35483 --     | Acetylene welding and cutting apparatus.....  | (X)  | 54,648             | (X)                           | 38,088             |
|              | Welding and cutting apparatus (except electric):  |  |                    |                               |                    |
| 35483 21     | Oxygen-acetylene generating equipment.....  | }  | 54,081             | (X)                           | 3035,706           |
| 35483 31     | All other acetylene welding and cutting apparatus, including machine, and hand-cutting and welding equipment.....   |  |                    |                               |                    |
| 35483 00     | Acetylene welding and cutting apparatus, n.s.k.....   | (X)  | 567                | (X)                           | 2,382              |
| 35484 11     | Automotive maintenance equipment(such as motor analyzers, wheel balancers, spark plug cleaners, wheel spinners, frame straighteners, etc.).....                         | (X)  | 47,691             | (X)                           | 44,183             |
| 35485 --     | Other metalworking machinery, except machine tools, n.e.c.....  | (X)  | 36,564             | (X)                           | 17,627             |
| 35485 45     | Drawing machines, draw benches, and machines for weaving and other wire fabricating:  |  |                    |                               |                    |
|              | As reported on the census of manufactures <sup>1</sup> .....  | (X)  | 28,864             | (X)                           | 17,627             |
|              | As reported on Census Form M35W <sup>1</sup> .....  | 1,869  | 21,320             | 1,090                         | 17,520             |
|              | Machines for weaving and other wire fabricating (barbed wire, poultry netting, woven wire fence machines, etc.).....  | 1,542  | 12,900             | 587                           | 4,645              |
|              | Wire drawing machines and draw benches.....   | 327  | 8,420              | 503                           | 12,875             |
| 35485 98     | All other metalworking machinery, except machine tools.....   | (X)  | 317,308            | (X)                           | (NA)               |
| 35485 00     | Other metalworking machinery, except machine tools, n.s.k.....  | (X)  | 392                | (X)                           | -                  |
| 35480 00     | Metalworking machinery, except machine tools, n.s.k.....  | (X)  | 20,911             | (X)                           | 17,471             |

Note: The nomenclature used to describe products (Industries 3541 and 3542) included in Current Industrial Reports Series M35W "Metalworking Machinery" was revised for many products between 1958 and 1963, accordingly, these data may not be strictly comparable.

\*Includes some machines with an average value of under \$1,000.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>For these products, data were also collected on Census Quarterly Form M35W. In lieu of asking for detailed statistics on these products in the census of manufactures, respondents were asked to report only value of shipments for specified classes of products for which separate figures had previously been collected on the Quarterly Form M35W. In most cases, the value figures reported in the census of manufactures for each class of products agreed closely with the corresponding figures reported in the quarterly survey. However, there were some differences between the census figures and the quarterly survey figures. These variations were due primarily to the following reasons:

- Census of manufactures reports correctly including all accessories or attachments ordered and shipped with the machine. In some cases the quarterly survey represents only the value of the basic machine. This is the most significant factor for these differences.
- Use of different bases for reporting value (company sales vs. factory production).
- Use of estimates in reporting data on the quarterly survey, whereas census of manufactures figures generally represent more exact shipments figures.
- Better coverage in the census of manufactures program. Quarterly current commodity survey detail for 1963 in most instances have been revised to reflect data from respondents not previously included. For product code 3548545, coverage in the quarterly survey will be supplemented by adding respondents not currently in the survey but making the specified product according to their census of manufactures report.

<sup>2</sup>Some machines with an average value of under \$1,000 for codes 3541231, 3541253, and 3541261 are included with code 3541299.

<sup>3</sup>All machines with an average value of under \$1,000 for codes 3541433, 3541451 and 3541467 are included with "All other grinding machines."

<sup>4</sup>Product code 3541439 included with "All other grinding machines."

<sup>5</sup>Some machines with an average value of under \$1,000 for codes 3541533 and 3541551 are included with code 3541599.

<sup>6</sup>"All other manufacturing and toolroom lathes" included with "All other lathes." Also "All other lathes" includes brush and floor light duty type turret lathes with turret attachments.

<sup>7</sup>Data are limited to ram type turret lathes.

<sup>8</sup>Some machines with an average value of under \$1,000 for codes 3541626, 3541629 and 3541695 are included with code 3541699.

<sup>9</sup>Includes data for codes 3541711-3541799 and 3541811-3541891.

<sup>10</sup>"Vertical and other shapers and slotters" included with "All other metal-cutting machine tools."

<sup>11</sup>All machines with an average value of under \$1,000 for codes 3541763 and 3541767 are included with code 3541769. For 1958, code 3541767 included with code 3541769.

<sup>12</sup>All machines with an average value of under \$1,000 for code 3541772 are included with code 3541779.

<sup>13</sup>Bolt threading machines and all machines with an average value of under \$1,000 for code 3541777 are included with 3541778.

<sup>14</sup>Includes for 1963 reaming machines (including rifling machines); screw and nut slotting machines; electro-erosion machines; ultrasonic machines; and electrolytic machines.

<sup>15</sup>Includes data for product codes 3542411-98 and 3542511-37

<sup>16</sup>Manually operated punching and shearing machines valued at \$1,000 or over are included with other punching and shearing machines.

<sup>17</sup>Machines with an average value of under \$1,000 for codes 3542421 and 3542451 are included with product code 3542498.

<sup>18</sup>For 1963, power type bending and forming machines with an average value of under \$1,000 are included with manual machines.

TABLE 6A. **Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued**

Footnotes for Table 6A—35C—Continued

<sup>19</sup>For 1963, all machines with an average value of under \$1,000 for codes 3542212, 3542213, 3542215, 3542241, and 3542257 are included with code 3542259, "All other mechanical presses."

<sup>20</sup>Figures for codes 3542255 and 3542258 are included in code 3542259.

<sup>21</sup>For 1963, all machines with an average value of under \$1,000 for codes 3542261, 3542268, and 3542274 are included with 3542279, "All other hydraulic presses."

<sup>22</sup>For 1963, figures for codes 3542271, 3542272, 3542273, and 3542281 are included in code 3542279. For 1958, figures for codes 3542273, and 3542281 are included with code 3542279.

<sup>23</sup>Includes data for product codes 3542311-98 and 3542811-59

<sup>24</sup>Some machines with an average value of under \$1,000 for code 3542811 are included with codes 3542855-59, "Spinning lathes."

<sup>25</sup>In 1958, product code 3544000 has been combined with product code 3544100.

<sup>26</sup>Excludes industrial molds made and used in the same establishment.

<sup>27</sup>For 1958, data for these products include tips sold separately but exclude blanks.

<sup>28</sup>For 1963, respondents were requested to use the following definitions of blanks, tips, and inserts:

Blanks are unground material, cast or formed, from which a solid tool or cutting tip can be made.

Tips are a finished or semifinished form ready to be brazed, soldered, or otherwise bonded to a shank to form a cutting tool.

Inserts are replaceable mechanically held cutting components of cutting tools, ground on all surfaces or on top and bottom.

The 1958 report form carried no definitions for these products.

<sup>29</sup>Data for product code 3548235 are limited to pneumatic drills. Pneumatic screwdrivers and nut-runners are included with "Other pneumatic-powered hand tools."

<sup>30</sup>The data published in the 1958 report for these products have been revised. As a result, it is not possible to publish separate data for these products without revealing the operation of individual companies.

<sup>31</sup>A major portion of this value represents metalworking assembly and automation equipment not elsewhere classified.

TABLE 6B. **Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958**

| Product code | Product and year   | Indexes (1954 = 100) |            |
|--------------|--|----------------------|------------|
|              |  | Production           | Unit value |
| 354          | Metalworking machinery.....1963..  | (1)                  | (1)        |
|              | 1958..   | (1)                  | (1)        |
| 3541         | Metal-cutting machine tools <sup>2</sup> .....1963..   | 82                   | 112        |
|              | 1958..   | 52                   | 113        |
| 35411        | Boring machines.....1963..   | 47                   | 127        |
|              | 1958..   | 38                   | 120        |
| 35412        | Drilling machines.....1963..   | 88                   | 71         |
|              | 1958..   | 45                   | 79         |
| 35413        | Gear cutting machines.....1963..   | 66                   | 125        |
|              | 1958..   | 40                   | 122        |
| 35414        | Grinding and polishing machines (except gear-tooth grinding, lapping, polishing and buffing machines).....1963.. | 56                   | 119        |
|              | 1958..   | 50                   | 117        |
| 35415        | Lathes.....1963..  | 58                   | 125        |
|              | 1958..   | 44                   | 109        |
| 35416        | Milling machines.....1963..  | 85                   | 106        |
|              | 1958..   | 54                   | 134        |
| 3542         | Metal tools, metal-forming type.....1963..   | (1)                  | (1)        |
|              | 1958..   | (1)                  | (1)        |
| 35421        | Punching, shearing, bending and forming machines.1963..  | 83                   | 173        |
|              | 1958..   | 90                   | 117        |
| 35422        | Presses, including forging.....1963..  | 65                   | 93         |
|              | 1958..   | 29                   | 125        |
| 3544         | Special dies and tools, die sets, jigs and fixtures, and industrial molds.....1963..                             | (1)                  | (1)        |
|              | 1958..   | (1)                  | (1)        |
| 3545         | Machine tool accessories and measuring devices.....1963..  | (1)                  | (1)        |
|              | 1958..   | 77                   | 124        |
| 3548         | Metalworking machinery, except machine tools.....1963..  | (1)                  | (1)        |
|              | 1958..   | (1)                  | (1)        |
| 35482        | Power-driven hand tools, including parts and attachments.....1963..  | 232                  | 81         |
|              | 1958..   | 109                  | 114        |

<sup>1</sup>Not shown because comparable quantity data were not obtained for a significant portion of these products.

<sup>2</sup>Adjusted to include products not shown separately below (product classes 35418 and 35419) as well as a minor amount of machine tools not specified by kind.



TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class   | 1963                 | 1962 <sup>1</sup>      | 1961 <sup>1</sup>      | 1960 <sup>1</sup>      | 1959 <sup>1</sup>      | 1958                   | 1954      | 1947    |
|-------|---|----------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------|---------|
| 3541- | Metal-cutting machine tools.....  | <sup>2</sup> 899,752 | <sup>2</sup> 832,076   | <sup>2</sup> 719,799   | <sup>2</sup> 746,795   | <sup>2</sup> 649,112   | <sup>2</sup> 587,481   | 986,430   | 414,746 |
| 35411 | Boring machines.....  | <sup>3</sup> 67,930  | <sup>3</sup> 61,366    | <sup>3</sup> 51,547    | <sup>3</sup> 46,939    | <sup>3</sup> 46,248    | <sup>3</sup> 51,563    | 114,443   | 25,825  |
| 35412 | Drilling machines.....  | <sup>3</sup> 52,018  | <sup>3</sup> 53,228    | <sup>3</sup> 36,824    | <sup>3</sup> 38,873    | <sup>3</sup> 33,412    | <sup>3</sup> 30,023    | 86,066    | 33,517  |
| 35413 | Gear cutting and finishing machines.....  | <sup>3</sup> 39,534  | <sup>3</sup> 35,851    | <sup>3</sup> 36,403    | <sup>3</sup> 34,309    | <sup>3</sup> 24,682    | <sup>3</sup> 22,661    | 48,111    | 17,719  |
| 35414 | Grinding and polishing machines (excluding gear tooth grinding, honing, lapping, polishing, and buffing machines..... | <sup>3</sup> 137,040 | <sup>3</sup> 127,960   | <sup>3</sup> 121,018   | <sup>3</sup> 116,972   | <sup>3</sup> 93,820    | <sup>3</sup> 89,367    | 154,288   | 56,364  |
| 35415 | Lathes.....   | <sup>3</sup> 154,763 | <sup>3</sup> 152,271   | <sup>3</sup> 126,488   | <sup>3</sup> 135,403   | <sup>3</sup> 119,478   | <sup>3</sup> 98,679    | 206,886   | 92,908  |
| 35416 | Milling machines.....   | <sup>3</sup> 106,126 | <sup>3</sup> 95,787    | <sup>3</sup> 73,710    | <sup>3</sup> 79,438    | <sup>3</sup> 73,275    | <sup>3</sup> 89,315    | 122,518   | 35,278  |
| 35418 | Other machine tools (including those designed primarily for home workshops, laboratories, etc.).....                  | 152,442              | 152,480                | 134,298                | 143,345                | 129,767                | 98,270                 | 146,708   | 91,626  |
| 35419 | Parts for metal-cutting type machine tools, sold separately, and rebuilt machine tools                                | 165,517              | 132,421                | 117,760                | 131,058                | 108,891                | 88,742                 | 101,960   | 57,109  |
| 35410 | Metal-cutting machine tools, n.s.k.....   | 24,382               | (20,712)               | (21,751)               | (20,458)               | (19,539)               | 18,861                 | 5,450     | 4,400   |
| 3542- | Metal-forming machine tools.....  | <sup>2</sup> 434,611 | <sup>2</sup> 390,879   | <sup>2</sup> 381,745   | <sup>2</sup> 379,286   | <sup>2</sup> 326,224   | <sup>2</sup> 282,565   | 437,804   | 245,514 |
| 35421 | Punching, shearing, bending, and forming machines.....  | <sup>3</sup> 88,046  | <sup>3</sup> 63,460    | <sup>3</sup> 65,749    | <sup>3</sup> 67,145    | <sup>3</sup> 65,560    | <sup>3</sup> 64,094    | 61,922    | 34,791  |
| 35422 | Presses, including forging presses.....   | <sup>3</sup> 135,996 | <sup>3</sup> 109,555   | <sup>3</sup> 111,383   | <sup>3</sup> 104,971   | <sup>3</sup> 84,573    | <sup>3</sup> 76,501    | 217,369   | 97,855  |
| 35423 | Other metal-forming machine tools, including forging machines.....  | 71,683               | 122,821                | 113,934                | 108,639                | 96,904                 | 60,791                 | 89,093    | 66,147  |
| 35424 | Parts for metal-forming machine tools and rebuilt metal-forming machinery.....  | 118,220              | 90,258                 | 86,437                 | 94,889                 | 75,267                 | 78,190                 | 66,029    | 39,078  |
| 35420 | Metal-forming machine tools, n.s.k.....   | 20,666               | (4,785)                | (4,242)                | (3,642)                | (3,920)                | 2,989                  | 3,391     | 7,643   |
| 3544- | Special dies and tools.....   | 1,608,135            | 1,850,487              | 1,509,200              | 1,751,237              | 1,541,745              | 1,320,389              | 1,181,461 | 402,893 |
| 35441 | Special dies and tools, die sets, jigs, and fixtures.....   | 1,251,706            | <sup>4</sup> 1,620,211 | <sup>4</sup> 1,302,996 | <sup>4</sup> 1,542,151 | <sup>4</sup> 1,361,578 | <sup>4</sup> 1,157,343 | 1,082,828 | 378,922 |
| 35442 | Industrial molds <sup>5</sup> .....   | 220,561              | 230,276                | 206,204                | 209,086                | 180,167                | 163,046                | 98,633    | 23,971  |
| 35440 | Special dies and tools, n.s.k.....  | 135,868              | ( <sup>4</sup> )       | ( <sup>4</sup> )       | ( <sup>4</sup> )       | ( <sup>4</sup> )       | ( <sup>4</sup> )       | -         | -       |
| 3545- | Machine tool accessories.....   | 731,716              | 704,595                | 590,479                | 603,672                | 564,028                | 470,197                | 541,031   | 324,423 |
| 35451 | Small cutting tools for machine tools and metalworking machinery.....   | 464,432              | 467,163                | 385,243                | 400,641                | 371,209                | 301,209                | 291,042   | 204,778 |
| 35452 | Precision measuring tools.....  | 87,998               | 76,789                 | 61,836                 | 63,238                 | 60,430                 | 60,871                 | 110,033   | 36,421  |
| 35453 | Other attachments and accessories for machine tools and metalworking machinery..                                      | 152,570              | 129,688                | 109,587                | 116,083                | 103,048                | 96,168                 | 139,956   | 83,224  |
| 35450 | Machine tool accessories and measuring devices, n.s.k.....  | 26,716               | (30,955)               | (33,813)               | (23,710)               | (29,341)               | 11,940                 | -         | -       |
| 3548- | Metalworking machinery, n.e.c.....  | 701,906              | 659,816                | 605,795                | 620,542                | 598,061                | 580,161                | 399,493   | (NA)    |
| 35481 | Rolling-mill machinery and equipment.....   | 222,211              | 226,347                | 221,538                | 239,920                | 213,324                | 252,164                | 143,512   | 96,074  |
| 35482 | Power-driven hand tools, including parts and attachments.....   | 319,881              | 286,355                | 261,181                | 253,682                | 249,072                | 210,628                | 170,460   | 112,198 |
| 35483 | Acetylene welding and cutting apparatus....   | 54,648               | 49,639                 | 41,664                 | 42,309                 | 39,340                 | 38,088                 | 26,822    | 26,777  |
| 35484 | Automotive maintenance equipment.....   | 47,691               | 49,751                 | 45,221                 | 46,403                 | 53,220                 | 44,183                 | 44,088    | (NA)    |
| 35485 | Metalworking machinery, except machine tools, n.e.c.....  | 36,564               | 29,127                 | 19,183                 | 21,172                 | 23,256                 | 17,627                 | 14,611    | 16,874  |
| 35480 | Metalworking machinery, n.e.c., n.s.k.....  | 20,911               | (18,597)               | (17,008)               | (17,056)               | (19,848)               | 17,471                 | -         | (NA)    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>These figures represent the sum of 5-digit product class data obtained from Current Industrial Reports Series M35W "Metalworking Machinery" and from the census of manufactures or the annual survey of manufactures.

<sup>3</sup>Source: Current Industrial Reports Series M35W, "Metalworking Machinery."

<sup>4</sup>Product class 35440 included with product class 35441 for 1958-1962.

<sup>5</sup>Excludes industrial molds made and used in the same establishment.

TABLE 6D Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area  | Value of shipments |                  | Product class and geographic area  | Value of shipments |                         | Product class and geographic area  | Value of shipments |                  |
|--|--------------------|------------------|--|--------------------|-------------------------|--|--------------------|------------------|
|  | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958                    |  | 1963 <sup>1</sup>  | 1958             |
| <b>BORING MACHINES (35411)</b>   |                    |                  | <b>MILLING MACHINES (35416)</b>  |                    |                         | <b>PUNCHING, SHEARING, BENDING, AND FORMING MACHINES (35421)</b>             |                    |                  |
| United States, total....   | 66,342             | 52,791           | United States, total....   | 112,724            | 89,406                  | United States, total....   | 92,542             | 68,443           |
| Northeast.....   | 23,053             | 16,652           | New England.....   | 21,694             | 17,434                  | New England.....   | 7,219              | 5,938            |
| Connecticut.....   | 16,618             | 10,015           | Connecticut.....   | 17,523             | ( <sup>2</sup> )        | Connecticut.....   | 5,679              | 5,484            |
| East North Central.....  | 42,062             | 36,139           | Middle Atlantic.....   | 3,709              | ( <sup>2</sup> )        | Middle Atlantic.....   | 20,508             | 12,732           |
| Michigan.....  | 15,434             | ( <sup>2</sup> ) | East North Central.....  | 83,986             | 70,434                  | New York.....  | 7,856              | 8,801            |
| All other divisions.....   | 1,227              | -                | Illinois.....  | 16,468             | 15,925                  | Pennsylvania.....  | 11,784             | 2,866            |
|  |                    |                  | Michigan.....  | 5,213              | ( <sup>2</sup> )        | East North Central.....  | 52,951             | 41,657           |
|  |                    |                  | Wisconsin.....   | 31,790             | 20,895                  | Ohio.....  | 27,446             | 20,110           |
| <b>DRILLING MACHINES (35412)</b>   | 1963 <sup>1</sup>  |                  | Pacific.....   | 2,089              | ( <sup>2</sup> )        | Indiana.....   | 1,991              | ( <sup>2</sup> ) |
| United States, total....   |                    | 55,278           | California.....  | 2,089              | ( <sup>2</sup> )        | Illinois.....  | 14,173             | 15,235           |
| New England.....   |                    | 8,475            | All other divisions.....   | 1,246              | ( <sup>2</sup> )        | Michigan.....  | 8,915              | 2,878            |
| Connecticut.....   |                    | 4,199            |  |                    | West North Central..... | 5,578  | 3,212              |                  |
| Middle Atlantic.....   |                    | 3,493            | <b>OTHER MACHINE TOOLS (INCLUDING THOSE DESIGNED PRIMARILY FOR HOME WORKSHOPS, LABORATORIES, ETC.) (35418)</b> |                    |                         | Minnesota.....   | 3,074              | ( <sup>2</sup> ) |
| New York.....  |                    | 1,982            | United States, total....   | 152,442            | 98,270                  | Missouri.....  | 2,504              | 1,300            |
| North Central.....   |                    | 33,586           | New England.....   | 13,596             | 11,572                  | South and West.....  | 6,286              | 4,904            |
| Ohio.....  |                    | 11,721           | Connecticut.....   | 3,779              | ( <sup>2</sup> )        | California.....  | 2,081              | 1,593            |
| Michigan.....  |                    | 8,055            | Middle Atlantic.....   | 11,168             | 8,037                   | <b>PRESSES, INCLUDING FORGING PRESSES (35422)</b>                            |                    |                  |
| Wisconsin.....   |                    | 8,401            | New York.....  | 4,378              | 4,219                   | United States, total....   | 141,734            | 79,065           |
| South and West.....  |                    | 9,724            | East North Central.....  | 113,070            | 68,626                  | New England.....   | 3,411              | 3,401            |
|  |                    |                  | Ohio.....  | 21,414             | 15,500                  | Connecticut.....   | 2,968              | ( <sup>2</sup> ) |
| <b>GRINDING AND POLISHING MACHINES (EXCLUDING GEAR TOOTH GRINDING, HONING, LAPPING, POLISHING, AND BUFFING MACHINES) (35414)</b> |                    |                  | Indiana.....   | 3,103              | 1,321                   | Middle Atlantic.....   | 21,096             | 17,281           |
| United States, total....   | 144,208            | 91,430           | Illinois.....  | 24,602             | 21,141                  | New York.....  | 11,737             | 14,483           |
| New England.....   | 46,498             | 30,595           | Michigan.....  | 60,719             | 25,112                  | New Jersey.....  | 3,037              | 1,438            |
| Massachusetts.....   | 23,636             | 20,351           | Wisconsin.....   | 3,232              | 5,552                   | Pennsylvania.....  | 6,322              | 1,360            |
| Connecticut.....   | 7,372              | 3,268            | West North Central.....  | 9,255              | 5,509                   | East North Central.....  | 108,642            | 53,896           |
| Middle Atlantic.....   | 21,681             | 12,388           | South.....   | 1,680              | ( <sup>2</sup> )        | Ohio.....  | 29,850             | 19,740           |
| New York.....  | 5,511              | 3,985            | Pacific.....   | 3,673              | 2,288                   | Indiana.....   | 3,537              | 1,105            |
| Pennsylvania.....  | 15,629             | ( <sup>2</sup> ) | California.....  | 3,487              | ( <sup>2</sup> )        | Illinois.....  | 61,371             | 27,934           |
| East North Central.....  | 66,582             | 44,223           | Parts for metal-cutting type machine tools, sold separately, and rebuilt machine tools (35419)                 |                    |                         | Michigan.....  | 11,407             | ( <sup>2</sup> ) |
| Ohio.....  | 30,952             | 22,410           | United States, total....   | 165,517            | 88,742                  | Wisconsin.....   | 2,477              | ( <sup>2</sup> ) |
| Illinois.....  | 17,909             | 10,153           | New England.....   | 33,183             | 25,553                  | West North Central.....  | 2,683              | 915              |
| Michigan.....  | 15,513             | 10,902           | Massachusetts.....   | 9,490              | 9,079                   | South.....   | 2,752              | ( <sup>2</sup> ) |
| Wisconsin.....   | 1,713              | ( <sup>2</sup> ) | Connecticut.....   | 11,140             | 6,889                   | West.....  | 3,150              | ( <sup>2</sup> ) |
| West North Central.....  | 5,359              | 2,809            | Middle Atlantic.....   | 16,437             | 8,030                   | <b>OTHER METAL-FORMING MACHINE TOOLS, INCLUDING FORGING MACHINES (35423)</b> |                    |                  |
| Minnesota.....   | 2,940              | ( <sup>2</sup> ) | New York.....  | 11,097             | 5,152                   | United States, total....   | 71,683             | 60,791           |
| South and West.....  | 4,088              | ( <sup>2</sup> ) | East North Central.....  | 109,100            | 52,422                  | New England.....   | 11,333             | 9,609            |
|  |                    |                  | Ohio.....  | 50,429             | 24,536                  | Connecticut.....   | 7,464              | 8,142            |
| <b>LATHES (35415)</b>  |                    |                  | Indiana.....   | 3,693              | 2,447                   | Middle Atlantic.....   | 12,771             | 12,225           |
| United States, total....   | 163,449            | 98,599           | Illinois.....  | 17,572             | 7,585                   | New York.....  | 6,826              | 5,638            |
| New England.....   | 40,149             | 20,994           | Michigan.....  | 25,438             | 9,496                   | North Central.....   | 38,978             | 33,079           |
| Connecticut.....   | 20,446             | 9,754            | Wisconsin.....   | 11,968             | 8,358                   | Ohio.....  | 21,814             | 21,831           |
| Middle Atlantic.....   | 12,145             | 10,202           | West North Central.....  | 3,942              | 1,676                   | Illinois.....  | 8,693              | 5,925            |
| New York.....  | 11,459             | 9,215            | South and West.....  | 2,855              | ( <sup>2</sup> )        | Michigan.....  | 8,215              | 3,816            |
| East North Central.....  | 110,147            | 66,773           | California.....  | 1,980              | ( <sup>2</sup> )        | South.....   | 1,875              | ( <sup>2</sup> ) |
| Ohio.....  | 84,250             | 48,111           |  |                    | Pacific.....            | 6,726  | ( <sup>2</sup> )   |                  |
| Illinois.....  | 8,417              | 6,610            | <b>PARTS FOR METAL-FORMING MACHINE TOOLS AND REBUILT METAL-FORMING MACHINERY (35424)</b>                       |                    |                         |  |                    |                  |
| Michigan.....  | 4,986              | ( <sup>2</sup> ) | United States, total....   | 118,220            | 78,190                  | United States, total....   | 118,220            | 78,190           |
| All other divisions.....   | 1,008              | ( <sup>2</sup> ) | New England.....   | 9,171              | 8,131                   | New England.....   | 9,171              | 8,131            |
|  |                    |                  | Connecticut.....   | 5,949              | 6,392                   | Connecticut.....   | 5,949              | 6,392            |

See footnotes at end of table.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area   | Value of shipments |                  | Product class and geographic area  | Value of shipments |                  | Product class and geographic area  | Value of shipments |                  |
|---|--------------------|------------------|--|--------------------|------------------|--|--------------------|------------------|
|   | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |
| PARTS FOR METAL-FORMING MACHINE TOOLS AND REBUILT METAL FORMING MACHINERY (35424)—Continued |                    |                  | INDUSTRIAL MOLDS (35442)—Continued                                       |                    |                  | OTHER ATTACHMENTS AND ACCESSORIES FOR MACHINE TOOLS AND METALWORKING MACHINERY (35453) |                    |                  |
| Middle Atlantic.....  | 35,448             | 17,718           | Middle Atlantic.....   | 45,936             | 42,826           | United States, total...  | 152,570            | 96,168           |
| New York.....   | 19,407             | 7,044            | New York.....  | 11,599             | 10,307           | New England.....   | 31,384             | 24,493           |
| New Jersey.....   | 2,324              | 3,216            | New Jersey.....  | 20,759             | 14,491           | Massachusetts.....   | 3,390              | ( <sup>2</sup> ) |
| Pennsylvania.....   | 13,717             | 7,458            | Pennsylvania.....  | 13,578             | 18,028           | Connecticut.....   | 22,013             | 15,126           |
| East North Central.....   | 53,678             | 42,817           | East North Central.....  | 121,399            | 77,285           | Middle Atlantic.....   | 16,179             | 9,201            |
| Ohio.....   | 19,300             | 28,466           | Ohio.....  | 47,537             | 28,592           | New York.....  | 11,976             | 6,317            |
| Illinois.....   | 18,606             | 10,674           | Indiana.....   | 12,906             | 9,544            | New Jersey.....  | 1,606              | 1,264            |
| Michigan.....   | 14,340             | 2,980            | Illinois.....  | 35,348             | 18,680           | Pennsylvania.....  | 2,597              | 1,620            |
| West North Central.....   | 1,549              | 2,507            | Michigan.....  | 22,302             | 17,243           | East North Central.....  | 87,127             | ( <sup>2</sup> ) |
| South.....  | 3,344              | ( <sup>2</sup> ) | Wisconsin.....   | 3,306              | 3,226            | Ohio.....  | 21,187             | 15,071           |
| Pacific.....  | 15,030             | ( <sup>2</sup> ) | West North Central.....  | 4,587              | 2,473            | Indiana.....   | 7,782              | ( <sup>2</sup> ) |
|   |                    |                  | Minnesota.....   | 1,932              | 1,043            | Illinois.....  | 25,361             | 15,472           |
| SPECIAL DIES AND TOOLS, DIE SETS, JIGS, AND FIXTURES (35441)                                |                    |                  | South.....   | 7,605              | ( <sup>2</sup> ) | Michigan.....  | 27,927             | 14,556           |
| United States, total....  | 1,251,706          | 1,157,343        | North Carolina.....  | 1,228              | ( <sup>2</sup> ) | Wisconsin.....   | 4,870              | ( <sup>2</sup> ) |
| New England.....  | 64,120             | 64,134           | Georgia.....   | 2,291              | ( <sup>2</sup> ) | West.....  | 6,199              | ( <sup>2</sup> ) |
| New Hampshire.....  | 2,239              | ( <sup>2</sup> ) | Florida.....   | 1,873              | ( <sup>2</sup> ) | All other divisions.....   | 11,681             | ( <sup>2</sup> ) |
| Massachusetts.....  | 22,168             | 25,702           | West.....  | 17,981             | 18,360           | Tennessee.....   | 1,467              | ( <sup>2</sup> ) |
| Rhode Island.....   | 7,608              | 7,815            | California.....  | 16,077             | 17,065           |  |                    |                  |
| Connecticut.....  | 31,382             | 27,684           |  |                    |                  | ROLLING-MILL MACHINERY AND EQUIPMENT (35481)   |                    |                  |
| Middle Atlantic.....  | 181,247            | 179,918          |  |                    |                  | United States, total....   | 222,211            | 252,164          |
| New York.....   | 61,918             | 65,639           |  |                    |                  | New England.....   | 18,821             | 19,664           |
| New Jersey.....   | 42,824             | 40,883           | SMALL CUTTING TOOLS FOR MACHINE TOOLS AND METALWORKING MACHINERY (35451) |                    |                  | Middle Atlantic.....   | 103,348            | 127,314          |
| Pennsylvania.....   | 76,505             | 73,396           | United States, total....   | 464,432            | 301,209          | Pennsylvania.....  | 101,220            | 125,740          |
| East North Central.....   | 891,328            | 800,480          | New England.....   | 101,322            | 71,252           | East North Central.....  | 88,741             | 85,913           |
| Ohio.....   | 192,856            | 176,362          | Vermont.....   | 16,203             | 9,151            | Ohio.....  | 73,997             | 72,245           |
| Indiana.....  | 66,131             | 53,792           | Massachusetts.....   | 54,372             | 41,037           | All other divisions.....   | 11,301             | ( <sup>2</sup> ) |
| Illinois.....   | 102,270            | 101,303          | Connecticut.....   | 21,080             | 14,544           |  |                    |                  |
| Michigan.....   | 497,591            | 437,333          | Middle Atlantic.....   | 57,729             | 37,232           | POWER-DRIVEN HAND TOOLS, INCLUDING PARTS AND ATTACHMENTS (35482)                       |                    |                  |
| Wisconsin.....  | 32,480             | 31,690           | New York.....  | 18,030             | 8,847            | United States, total....   | 319,881            | 210,628          |
| West North Central.....   | 30,063             | 23,079           | New Jersey.....  | 7,426              | 4,325            | New England.....   | 19,869             | 13,484           |
| Minnesota.....  | 7,492              | 6,648            | Pennsylvania.....  | 32,273             | 24,060           | Middle Atlantic.....   | 74,068             | 54,879           |
| Iowa.....   | 6,078              | 4,372            | East North Central.....  | 283,277            | 178,083          | East North Central.....  | 140,551            | ( <sup>2</sup> ) |
| Missouri.....   | 14,963             | 9,610            | Ohio.....  | 62,315             | 39,995           | Ohio.....  | 27,362             | 17,877           |
| Kansas.....   | 1,084              | ( <sup>2</sup> ) | Indiana.....   | 2,889              | 1,358            | Illinois.....  | 78,018             | 59,777           |
| South Atlantic.....   | 13,486             | 17,368           | Illinois.....  | 52,971             | 35,708           | Michigan.....  | 20,319             | 15,260           |
| Maryland.....   | 1,978              | 7,480            | Michigan.....  | 160,584            | 98,605           | Wisconsin.....   | 14,214             | 9,491            |
| Virginia.....   | 1,048              | ( <sup>2</sup> ) | Wisconsin.....   | 4,518              | 2,417            | West North Central.....  | 14,435             | ( <sup>2</sup> ) |
| Georgia.....  | 3,196              | 2,767            | West North Central.....  | 3,887              | 2,471            | South.....   | 64,306             | ( <sup>2</sup> ) |
| Florida.....  | 5,412              | 4,294            | South.....   | 11,136             | ( <sup>2</sup> ) | Pacific.....   | 6,652              | ( <sup>2</sup> ) |
| East South Central.....   | 7,896              | 7,128            | Kentucky.....  | 3,408              | ( <sup>2</sup> ) |  |                    |                  |
| Kentucky.....   | 2,388              | ( <sup>2</sup> ) | West.....  | 7,081              | ( <sup>2</sup> ) | ACETYLENE WELDING AND CUTTING APPARATUS (35483)  |                    |                  |
| Tennessee.....  | 3,707              | 4,017            |  |                    |                  | United States, total....   |                    | 54,648           |
| Alabama.....  | 1,393              | 1,773            | PRECISION MEASURING TOOLS (35452)  |                    |                  | Northeast.....   |                    | 27,773           |
| West South Central.....   | 6,567              | 6,623            | United States, total....   | 87,998             | 60,871           | East North Central.....  |                    | 8,962            |
| Arkansas.....   | 1,140              | ( <sup>2</sup> ) | New England.....   | 38,733             | 29,996           | Ohio.....  |                    | 4,268            |
| Texas.....  | 4,837              | 5,135            | Massachusetts.....   | 16,071             | 13,119           | West North Central.....  |                    | 5,412            |
| Mountain.....   | 2,429              | 4,595            | Connecticut.....   | 7,767              | 7,487            | South.....   |                    | 1,556            |
| Colorado.....   | 1,026              | ( <sup>2</sup> ) | Middle Atlantic.....   | 6,420              | 4,751            | Pacific.....   |                    | 10,945           |
| Pacific.....  | 54,570             | 54,018           | New York.....  | 5,821              | 4,453            | California.....  |                    | 10,945           |
| California.....   | 53,705             | 52,711           | North Central.....   | 40,163             | 23,422           |  |                    |                  |
| INDUSTRIAL MOLDS (35442)  |                    |                  | Ohio.....  | 14,578             | ( <sup>2</sup> ) |  |                    |                  |
| United States, total....  | 220,561            | 163,046          | Illinois.....  | 5,531              | 2,660            |  |                    |                  |
| New England.....  | 23,053             | 17,207           | Michigan.....  | 16,283             | 8,267            |  |                    |                  |
| Massachusetts.....  | 15,066             | 11,503           | Pacific.....   | 1,633              | 1,985            |  |                    |                  |
| Connecticut.....  | 6,961              | 4,416            | All other divisions.....   | 1,049              | ( <sup>2</sup> ) |  |                    |                  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported.

<sup>1</sup>For the specified product class shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 35411, Massachusetts, Ohio, and Wisconsin; 35412, Massachusetts, Rhode Island, Indiana, Illinois, Kentucky, and California; 35414, Vermont, Rhode Island, South Dakota, Maryland, and Texas; 35415, Vermont, Rhode Island, Indiana, and Wisconsin; 35416, Massachusetts, Rhode Island, New York, and Ohio; 35418, New Hampshire, Massachusetts, New Jersey, Pennsylvania, and Minnesota; 35419, Vermont, Rhode Island, Pennsylvania, and Minnesota; 35421, Massachusetts and North Carolina; 35422, Minnesota, Maryland, Texas, and California; 35423, Massachusetts, New Jersey, Pennsylvania, and California; 35424, Maine, Maryland, Washington, and California; 35442, Missouri and Washington; 35451, New Hampshire, Rhode Island, Minnesota, Missouri, Tennessee, Arkansas, and California; 35452, Vermont, Rhode Island, Minnesota, and California; 35453, Rhode Island, Missouri, Texas, and California; 35481, Massachusetts, Connecticut, New York, Indiana, Michigan, Delaware, and West Virginia; 35482, Massachusetts, Connecticut, New York, Pennsylvania, Iowa, Missouri, Delaware, Maryland, South Carolina, Texas, and California; 35483, New York, New Jersey, Pennsylvania, Illinois, Michigan, Minnesota, and Missouri.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

TABLE 7A. Materials by Kind: 1963 and 1958

| Code   | Material   | Unit of measure               | 1963                                       |                          | 1958     |                          | 1963                                       |                          | 1958     |                          |
|--------|--|-------------------------------|--|--------------------------|----------|--------------------------|--|--------------------------|----------|--------------------------|
|        |  |                               | Quantity                                   | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) | Quantity                                   | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
|        |  |                               | INDUSTRY 3541.—METAL-CUTTING MACHINE TOOLS |                          |          |                          | INDUSTRY 3542.—METAL-FORGING MACHINE TOOLS |                          |          |                          |
|        | Materials, parts, containers, and supplies, total.....   |                               | (X)  | 334,002                  | (X)      | 192,497                  | (X)  | 144,149                  | (X)      | 111,608                  |
|        | Mill shapes and forms (except castings):   |                               |  |                          |          |                          |  |                          |          |                          |
|        | Carbon steel:  |                               |  |                          |          |                          |  |                          |          |                          |
| 331011 | Bars and bar shapes.....   | Short tons..                  | 37,391                                     | 10,485                   | 16,937   | 4,551                    | 23,264                                     | 6,159                    | 15,159   | 3,602                    |
| 331012 | Sheet and strip.....   | ..do.....                     | 7,734                                      | 1,388                    | 3,655    | 645                      | 3,632                                      | 1,124                    | 2,655    | 564                      |
| 331013 | Plates.....  | ..do.....                     | 20,023                                     | 3,461                    | 9,535    | 1,575                    | 86,506                                     | 13,008                   | 55,290   | 7,903                    |
| 331015 | Structural shapes.....   | ..do.....                     | 3,612                                      | 1,087                    | 2,165    | 624                      | 2,027                                      | 403                      | 1,885    | 387                      |
| 331017 | Wire and wire products.....  | ..do.....                     | (NA)                                       | 87                       |          |                          | (NA)                                       | 71                       |          |                          |
| 331019 | All other carbon steel mill shapes and forms.....  | ..do.....                     | 4,827                                      | 1,690                    | 1,720    | 654                      | 556  | 299                      | 2,291    | 810                      |
|        | Alloy steel (except stainless):  |                               |  |                          |          |                          |  |                          |          |                          |
| 331021 | Bars and bar shapes.....   | ..do.....                     | 17,591                                     | 6,906                    | 11,370   | 4,514                    | 3,978                                      | 2,836                    | 3,289    | 1,839                    |
| 331029 | All other alloy steel mill shapes and forms.....   | ..do.....                     | 3,472                                      | 2,199                    | 1,488    | 774                      | 1,787                                      | 926                      | 291      | 183                      |
| 331031 | Stainless steel.....   | ..do.....                     | 454  | 756                      | 403      | 644                      | 585  | 699                      | 159      | 246                      |
|        | Copper and copper-base alloy:  |                               |  |                          |          |                          |  |                          |          |                          |
| 335728 | Bar wire (for electrical conduction).....  | 1,000 lbs...                  | 87   | 95                       | (NA)     | (NA)                     |  |                          | (NA)     | (NA)                     |
| 335790 | Insulated wire and cable.....  | 1,000 lbs. copper content.... | 1,024                                      | 812                      | 403      | 402                      | 252  | 172                      | 47       | 56                       |
| 335102 | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                           | 1,000 lbs...                  | 427  | 373                      |          |                          | 210  | 214                      |          |                          |
| 335123 | Plate, sheet, and strip, including military cups and discs.....                                      | ..do.....                     | 392  | 310                      | 576      | 420                      | 97   | 107                      | 151      | 105                      |
| 335127 | Pipe and tube.....   | ..do.....                     | 389  | 276                      |          |                          | 69   | 54                       |          |                          |
|        | Aluminum and aluminum base alloy:  |                               |  |                          |          |                          |  |                          |          |                          |
| 335202 | Sheet, plate and foil.....   | ..do.....                     | 1,093                                      | 840                      | 580      | 348                      | 393  | 265                      |          |                          |
| 335205 | Extruded shapes, including extruded rod, bar, tube, etc.....   | ..do.....                     | 182  | 147                      |          |                          | 57   | 56                       | 373      | 220                      |
| 335209 | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder welded tubing, etc.)..... | ..do.....                     | 120  | 98                       | 214      | 148                      | (NA)                                       | 88                       |          |                          |
| 331051 | Pig iron, excluding silvery iron.....  | Short tons..                  | 16,921                                     | 1,093                    | 8,284    | 554                      | 3,969                                      | 275                      | 5,801    | 392                      |
| 999811 | Iron and steel scrap (excluding home scrap).....   | ..do.....                     | 21,633                                     | 1,006                    | 7,967    | 348                      | 18,770                                     | 706                      | 10,513   | 469                      |
|        | Castings (rough and semi-finished): <sup>1</sup>   |                               |  |                          |          |                          |  |                          |          |                          |
| 332011 | Iron (gray and malleable)....  | ..do.....                     | 98,480                                     | 39,760                   | 64,015   | 23,620                   | 23,470                                     | 9,652                    | 30,032   | 9,984                    |
| 332300 | Steel.....   | ..do.....                     | 6,567                                      | 4,493                    | 1,748    | 1,323                    | 9,692                                      | 4,916                    | 15,235   | 8,132                    |
| 336100 | Aluminum and aluminum-base alloy.....  | 1,000 lbs...                  | 2,478                                      | 2,552                    | 1,650    | 1,333                    | 865  | 601                      | 273      | 332                      |
| 336200 | Copper and copper-base alloy.....  | ..do.....                     | 2,068                                      | 1,885                    | 1,558    | 1,278                    | 1,730                                      | 1,639                    | 1,589    | 1,221                    |
| 339100 | Iron and steel forgings <sup>1</sup> .....   | Short tons..                  | 4,624                                      | 3,632                    | 4,723    | 3,245                    | 7,842                                      | 4,805                    | 5,156    | 3,172                    |
|        | Electric motors and generators <sup>1</sup>  |                               |  |                          |          |                          |  |                          |          |                          |
|        | Fractional horsepower electric motors (under 1 hp.):   |                               |  |                          |          |                          |  |                          |          |                          |
| 362110 | Timing motors, synchronous and subsynchronous.....   | Number.....                   | 12,226                                     | 1,189                    | 19,402   | 905                      | (NA)                                       | 214                      | (NA)     | 226                      |
| 362115 | Other fractional horsepower electric motors.....   | ..do.....                     | 93,190                                     | 3,537                    | 34,183   | 1,404                    | 7,277                                      | 354                      | 14,117   | 762                      |
| 362120 | Integral horsepower motors and generators (1 hp. and over).....                                      | ..do.....                     | 67,167                                     | 11,271                   | 40,240   | 8,106                    | 17,416                                     | 5,767                    | 12,031   | 4,688                    |
|        | Bearings:  |                               |  |                          |          |                          |  |                          |          |                          |
| 356218 | Ball.....  | ..do.....                     | (X)  | 6,528                    | (X)      | 6,260                    | (X)  | 609                      | (X)      | 1,588                    |
| 356228 | Roller.....  | ..do.....                     | (X)  | 3,880                    |          |                          | (X)  | 1,256                    |          |                          |
| 970099 | All other materials and components, parts, containers, and supplies consumed.....                    | ..do.....                     | (X)  | 187,522                  | (X)      | 112,700                  | (X)  | 71,314                   | (X)      | 58,204                   |
| 976000 | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....                                | ..do.....                     | (X)  | 34,644                   | (X)      | 16,122                   | (X)  | 15,560                   | (X)      | 6,523                    |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | Unit of measure                 | 1963                                  |                          | 1958     |                          | 1963                                    |                          | 1958               |                          |
|--------|---|---------------------------------|---------------------------------------|--------------------------|----------|--------------------------|---|--------------------------|--------------------|--------------------------|
|        |   |                                 | Quantity                              | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) | Quantity                                | Delivered cost (\$1,000) | Quantity           | Delivered cost (\$1,000) |
|        |   |                                 | INDUSTRY 3544.—SPECIAL DIES AND TOOLS |                          |          |                          | INDUSTRY 3545.—MACHINE TOOL ACCESSORIES |                          |                    |                          |
|        | Materials, parts, containers, and supplies, total.....  |                                 | (X)                                   | 281,516                  | (X)      | 217,315                  | (X)                                     | 188,599                  | (X)                | 114,880                  |
|        | Mill shapes and forms (except castings):  |                                 |                                       |                          |          |                          |   |                          |                    |                          |
|        | Carbon steel:   |                                 |                                       |                          |          |                          |   |                          |                    |                          |
| 331011 | Bar and bar shapes.....   | Short tons..                    | 64,308                                | 21,917                   | 32,137   | 12,523                   | 32,907                                  | 8,962                    | 18,738             | 5,467                    |
| 331012 | Sheet and strip.....  | ..do.....                       | 45,049                                | 7,934                    | 21,286   | 4,089                    | 1,793                                   | 604                      | 991                | 367                      |
| 331013 | Plates.....   | ..do.....                       | 66,201                                | 14,346                   | 41,677   | 8,904                    | 2,105                                   | 725                      | 2,697              | 653                      |
| 331015 | Structural shapes.....  | ..do.....                       | 6,053                                 | 1,657                    | 3,324    | 968                      | 881                                     | 282                      | ( <sup>4</sup> )   | ( <sup>4</sup> )         |
| 331017 | Wire and wire products....  | ..do.....                       | 449                                   | 326                      | 314      | 193                      | 469                                     | 181                      | 205                | 118                      |
| 331019 | All other carbon steel mill shapes and forms.....   | ..do.....                       | 8,658                                 | 3,498                    | 4,012    | 1,919                    | 3,025                                   | 1,304                    | <sup>4</sup> 2,311 | <sup>4</sup> 710         |
|        | Alloy steel (except stainless):   |                                 |                                       |                          |          |                          |   |                          |                    |                          |
| 331021 | Bar and bar shapes.....   | ..do.....                       | 15,960                                | 19,417                   | 11,561   | 11,139                   | 14,955                                  | 28,732                   | 10,744             | 19,452                   |
| 331029 | All other alloy steel mill shapes and forms.....  | ..do.....                       | 7,791                                 | 5,296                    | 4,077    | 2,220                    | 5,246                                   | 7,963                    | 1,941              | 3,551                    |
| 331031 | Stainless steel.....  | ..do.....                       | 1,765                                 | 2,347                    | 868      | 1,408                    | 123                                     | 226                      | 170                | 235                      |
|        | Copper and copper-base alloy:   |                                 |                                       |                          |          |                          |   |                          |                    |                          |
| 335728 | Bar wire (for electrical conduction).....   | 1,000 lbs... }                  | (NA)                                  | 155                      | 155      | 154                      | 49                                      | 54                       | 130                | 79                       |
| 335790 | Insulated wire and cable... }   | 1,000 lbs. copper content.... } |                                       |                          | (D)      | (D)                      |   |                          |                    |                          |
| 335102 | Rod, bar, and mechanical wire.....  | 1,000 lbs... }                  | 1,002                                 | 1,087                    |          |                          |   |                          |                    |                          |
| 335123 | Plate, sheet, and strip, including cups and discs.. }   | ..do..... }                     | 702                                   | 743                      | 2,041    | 1,191                    | 290                                     | 274                      | 210                | 255                      |
| 335127 | Pipe and tube.....  | ..do..... }                     | 195                                   | 175                      |          |                          |   |                          |                    |                          |
|        | Aluminum and aluminum base alloy:   |                                 |                                       |                          |          |                          |   |                          |                    |                          |
| 335202 | Sheet, plate, and foil....  | ..do.....                       | 2,277                                 | 1,655                    | 2,124    | 1,404                    | 286                                     | 94                       | 161                | 165                      |
| 335205 | Extruded shapes, including rod, bar, pipe, tube, etc.   | ..do.....                       | 1,509                                 | 1,029                    |          |                          |   |                          |                    |                          |
| 335209 | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, tubing, etc.).... | ..do.....                       | 1,029                                 | 493                      | 486      | 310                      | 1,447                                   | 1,128                    | 109                | 93                       |
| 331051 | Pig iron, excluding silvery iron.....   | Short tons..                    | 1,310                                 | 88                       | 39,432   | 2,495                    | (NA)                                    | (NA)                     | 2,783              | 214                      |
| 999811 | Iron and steel scrap (excluding home scrap).....  | ..do.....                       | 16,292                                | 512                      | (D)      | (D)                      | (NA)                                    | (NA)                     | 628                | 27                       |
|        | Castings (rough and semi-finished): <sup>1</sup>  |                                 |                                       |                          |          |                          |   |                          |                    |                          |
| 332011 | Iron (gray and malleable)....   | ..do.....                       | 40,303                                | 12,883                   | 32,642   | 12,487                   | 12,887                                  | 5,632                    | 5,956              | 2,426                    |
| 332300 | Steel.....  | ..do.....                       | 7,680                                 | 4,789                    | 4,086    | 2,441                    | 573                                     | 600                      | 503                | 375                      |
| 336100 | Aluminum and aluminum-base alloy.....   | 1,000 lbs... }                  | 3,207                                 | 1,910                    | 1,044    | 714                      | 792                                     | 764                      | 1,239              | 1,204                    |
| 336200 | Copper and copper-base alloy.   | ..do..... }                     | 770                                   | 696                      | 743      | 583                      | 142                                     | 121                      | 135                | 141                      |
| 339100 | Iron and steel forgings <sup>1</sup> .....  | Short tons..                    | 1,085                                 | 1,220                    | 1,501    | 1,557                    | 1,268                                   | 1,277                    | 1,076              | 1,137                    |
|        | Electric motors and generators <sup>1</sup> :   |                                 |                                       |                          |          |                          |   |                          |                    |                          |
|        | Fractional horsepower electric motors (under 1 hp.):  |                                 |                                       |                          |          |                          |   |                          |                    |                          |
| 362110 | Timing motors, synchronous and subsynchronous.....  | Number..... }                   | 3,320                                 | 108                      | (NA)     | 94                       | (D)                                     | (D)                      | 5,877              | 165                      |
| 362115 | Other fractional horsepower electric motors.....  | ..do..... }                     | 2,312                                 | 111                      |          |                          | 13,005                                  | 384                      | 7,212              | 226                      |
| 362120 | Integral horsepower motors and generators (1 hp. and over).....                               | ..do..... }                     | 1,548                                 | 457                      | 881      | 172                      | 4,430                                   | 1,096                    | 2,787              | 355                      |
|        | Bearings:   |                                 |                                       |                          |          |                          |   |                          |                    |                          |
| 356218 | Ball.....   | ..... }                         | (X)                                   | 448                      | (X)      | (D)                      | (X)                                     | 836                      | (X)                | 560                      |
| 356228 | Roller.....   | ..... }                         | (X)                                   | 637                      |          |                          | (X)                                     | 216                      |                    |                          |
| 970099 | All other materials and components, parts, containers, and supplies consumer.....             | .....                           | (X)                                   | 85,925                   | (X)      | 77,372                   | (X)                                     | 98,328                   | (X)                | 65,556                   |
| 976000 | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....                         | .....                           | (X)                                   | 89,657                   | (X)      | 72,978                   | (X)                                     | 28,816                   | (X)                | 11,349                   |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure            | 1963     |                          | 1958     |                          |
|---|---|----------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                            | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3548.—METALWORKING MACHINERY, N.E.C. |   |                            |          |                          |          |                          |
|   | Materials, part, containers, and supplies, total.....   |                            | (X)      | 279,508                  | (X)      | 198,035                  |
|   | Mill shapes and forms (except castings):  |                            |          |                          |          |                          |
|   | Carbon steel:   |                            |          |                          |          |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....            | 27,176   | 5,670                    | 16,714   | 3,950                    |
| 331012  | Sheet and strip.....  | ..do.....                  | 20,207   | 3,549                    | 8,667    | 1,748                    |
| 331013  | Plates.....   | ..do.....                  | 54,296   | 8,475                    | 40,412   | 5,579                    |
| 331015  | Structural shapes.....  | ..do.....                  | 11,530   | 2,051                    | 10,190   | 1,694                    |
| 331017  | Wire and wire products.....   | ..do.....                  | 2,328    | 901                      | 496      | 381                      |
| 331019  | All other carbon steel mill shapes and forms.....   | ..do.....                  | 6,540    | 1,224                    | 14,701   | 2,111                    |
|   | Alloy steel (except stainless)  |                            |          |                          |          |                          |
| 331021  | Bars and bar shapes.....  | ..do.....                  | 12,266   | 4,554                    | 6,677    | 2,981                    |
| 331029  | All other alloy steel mill shapes and forms.....  | ..do.....                  | 3,614    | 2,236                    | 1,525    | 633                      |
| 331031  | Stainless steel.....  | ..do.....                  | 229      | 614                      | 113      | 159                      |
|   | Copper and copper-base alloy:   |                            |          |                          |          |                          |
| 335728  | Bare wire (for electrical conduction).....  | 1,000 lbs.....             | 705      | 591                      | 1,258    | 715                      |
| 335790  | Insulated wire and cable.....   | 1,000 lbs. copper content. | 2,183    | 2,900                    | 1,858    | 1,624                    |
| 335102  | Rod, bar, and mechanical wire, including extruded and or drawn shapes.....                            | 1,000 lbs.....             | 4,442    | 2,702                    | 4,565    | 2,663                    |
| 335123  | Plate, sheet, and strip, including military cups and discs.....                                       | ..do.....                  | 107      | 83                       |          |                          |
| 335127  | Pipe and tube.....  | ..do.....                  | 602      | 403                      |          |                          |
|   | Aluminum and aluminum-base alloy:   |                            |          |                          |          |                          |
| 335202  | Sheet, plate and foil.....  | ..do.....                  | 726      | 601                      | 360      | 314                      |
| 335205  | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                                       | ..do.....                  | 108      | 71                       | 527      | 387                      |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                  | 2,172    | 1,109                    |          |                          |
| 331051  | Pig iron, excluding silvery iron.....   | Short tons.....            | 14,611   | 853                      | 15,338   | 959                      |
| 999811  | Iron and steel scrap (excluding home scrap).....  | ..do.....                  | 36,507   | 1,542                    | 52,171   | 2,147                    |
|   | Castings (rough and semifinished): <sup>1</sup>   |                            |          |                          |          |                          |
| 332011  | Iron (gray and malleable).....  | ..do.....                  | 26,259   | 9,053                    | 11,520   | 4,479                    |
| 332300  | Steel.....  | ..do.....                  | 20,639   | 12,013                   | 17,574   | 8,918                    |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....             | 12,388   | 11,051                   | 9,536    | 8,142                    |
| 336200  | Copper and copper-base alloy.....   | ..do.....                  | 3,001    | 1,987                    | 2,723    | 2,307                    |
| 339100  | Iron and steel forgings <sup>1</sup> .....  | Short tons.....            | 6,076    | 4,474                    | 6,572    | 4,027                    |
|   | Electric motors and generators: <sup>1</sup>  |                            |          |                          |          |                          |
|   | Fractional horsepower electric motors (under 1 hp.):  |                            |          |                          |          |                          |
| 362110  | Timing motors, synchronous and subsynchronous.....  | Number.....                | 188,726  | 1,968                    | 948,432  | 6,160                    |
| 362115  | Other fractional horsepower electric motors.....  | ..do.....                  | 363,636  | 4,813                    |          |                          |
| 362120  | Integral horsepower motors and generators (1 hp. and over).....                                       | ..do.....                  | 7,320    | 3,682                    | 3,585    | 1,257                    |
|   | Bearings:   |                            |          |                          |          |                          |
| 356218  | Ball.....   | .....                      | (X)      | 6,136                    | (X)      | 5,576                    |
| 356228  | Roller.....   | .....                      | (X)      | 4,117                    |          |                          |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                     | .....                      | (X)      | 151,998                  | (X)      | 127,070                  |
| 976000  | Materials, parts, containers and supplies, n.s.k. <sup>2</sup> .....                                  | .....                      | (X)      | 28,087                   | (X)      | 2,054                    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Listed below are quantities of the specified materials produced and consumed into products at the same establishment.

| Code   | Material  | Unit of measure | Industry |        |        |      |      |      |           |
|--------|---|-----------------|----------|--------|--------|------|------|------|-----------|
|        |   |                 | 3541     |        | 3542   | 3544 | 3545 | 3548 |           |
|        |   |                 | 1963     | 1958   | 1958   | 1963 | 1963 | 1963 |           |
|        | Castings (rough and semifinished):                                |                 |          |        |        |      |      |      |           |
| 332011 | Iron (gray and malleable).....                                    | Short tons..... | 33,839   | 14,841 | 10,541 | (NA) | (D)  | (D)  | (D)       |
| 332300 | Steel.....  | ..do.....       | (D)      | (NA)   | (NA)   | (NA) | (D)  | (D)  | (D)       |
| 336100 | Aluminum and aluminum-base alloy.....                             | 1,000 lbs.....  | (NA)     | (NA)   | (NA)   | (D)  | (D)  | (D)  | (D)       |
| 336200 | Copper and copper-base alloy.....                                 | ..do.....       | (NA)     | (NA)   | (NA)   | (NA) | -    | (D)  | (D)       |
| 339100 | Iron and steel forgings.....                                      | Short tons..... | (NA)     | (NA)   | (NA)   | (D)  | (NA) | (D)  | (D)       |
|        | Electric motors and generators:                                   |                 |          |        |        |      |      |      |           |
|        | Fractional horsepower electric motors (under 1 hp.):              |                 |          |        |        |      |      |      |           |
| 362110 | Timing motors, synchronous and subsynchronous.....                | Number.....     | -        | (NA)   | (NA)   | (D)  | -    | -    | -         |
| 362115 | Fractional horsepower electric motors (excluding timing motors)   | ..do.....       | -        | (NA)   | (NA)   | (D)  | (D)  | (D)  | 2,007,167 |
| 362120 | Integral horsepower motors and generators (1 horsepower and over) | .....           | -        | (NA)   | (NA)   | (D)  | (D)  | (D)  | (D)       |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>2</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual material consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "short forms".

<sup>3</sup>No data are available for 1963 on the quantities of castings, forgings or electric motors and generators produced and consumed in the same establishment.

<sup>4</sup>For 1958, carbon steel structural shapes are included with "All other carbon steel mill shapes and forms".



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item   | Metal-cutting<br>machine<br>tools<br>(SIC 3541) | Metal-forming<br>machine<br>tools<br>(SIC 3542) | Special dies<br>and tools<br>(SIC 3544) | Machine<br>tool<br>accessories<br>(SIC 3545) | Metalworking<br>machinery,<br>n.e.c.<br>(SIC 3548) |
|--|---|---|---|--|--|
| Total cost of purchased fuels and electric energy.....\$1,000..  | 9,706   | 4,046   | 15,412                                  | 9,005  | 6,571  |
| Total cost of purchased fuels.....do....   | 3,680   | 1,612   | 5,734                                   | 2,810  | 3,204  |
| Bituminous coal, lignite, and anthracite:  |   |   |   |  |  |
| Quantity.....1,000 short tons..  | 71  | (S)   | (S)                                     | 11   | 39   |
| Cost.....\$1,000..   | 595   | (S)   | (S)                                     | 128  | 317  |
| Coke and breeze:   |   |   |   |  |  |
| Quantity.....1,000 short tons..  | 5   | (S)   | (S)                                     | -  | (S)  |
| Cost.....\$1,000..   | 164   | (S)   | (S)                                     | -  | (S)  |
| Fuel oil (distillate and residual):  |   |   |   |  |  |
| Quantity.....1,000 barrels of 42 gallons..   | 334   | 196   | (S)                                     | 333  | (S)  |
| Cost.....\$1,000..   | 1,190   | 835   | (S)                                     | 1,180  | (S)  |
| Gas (natural, manufactured, still, blast furnace,<br>and coke oven):   |   |   |   |  |  |
| Quantity.....million cu.ft..   | 1,378   | (S)   | (S)                                     | 1,492  | 3,865  |
| Cost.....\$1,000..   | 1,054   | (S)   | (S)                                     | 1,057  | 2,186  |
| Other fuels.....do....   | 677   | 225   | (S)                                     | 445  | (S)  |
| Electric energy:   |   |   |   |  |  |
| Purchased:   |   |   |   |  |  |
| Quantity.....million kw.-hrs..   | 400   | 164   | 499                                     | 393  | 251  |
| Cost.....\$1,000..   | 6,026   | 2,434   | 9,678                                   | 6,195  | 3,367  |
| Generated less sold.....million kw.-hrs..  | 8   | -   | -                                       | (S)  | (S)  |
| Aggregate horsepower of prime movers and electric motors<br>driven by purchased energy (December 31), total.....1,000 hp.. | 351   | 177   | 466                                     | 293  | 203  |
| Prime movers, total.....do....   | 15  | 5   | 35                                      | 11   | 13   |
| Driving generators.....do....  | 10  | 1   | 20                                      | 7  | 9  |
| Not driving generators.....do....  | 5   | 4   | 15                                      | 4  | 4  |
| Electric motors, total.....do....  | 340   | 172   | 431                                     | 285  | 193  |
| Driven by purchased energy.....do....  | 337   | 172   | 431                                     | 282  | 190  |
| Driven by energy generated at establishment.....do....   | 4   | -   | -                                       | 3  | 4  |
| Aggregate horsepower per 100 production workers.....   | 894   | 961   | 554                                     | 821  | 771  |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3541-                          | METAL-CUTTING MACHINE TOOLS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 801                     | 61,058         | 438,222           | 41,008             | 86,486            | 272,243         | 699,341  | 381,566                     | 1,060,818                    | 28,837                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 549                     | 27,315         | 196,955           | 18,686             | 39,287            | 127,526         | 312,584  | 182,338                     | 491,678                      | 14,961                              |
|                                | 75-89% specialization.....  | 65                      | 10,960         | 77,748            | 6,123              | 12,712            | 37,976          | 108,785  | 62,639                      | 165,321                      | 3,157                               |
| 35411                          | Boring machines (primary product class of estab.).....  | 29                      | 5,069          | 36,896            | 3,493              | 7,403             | 24,071          | 54,127   | 33,184                      | 87,756                       | 3,367                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 8                       | 132            | 1,000             | 109                | 230               | 817             | 1,264  | 864                         | 2,179                        | 27                                  |
| 35412                          | Drilling machines (primary product class of estab.).....  | 35                      | 2,656          | 17,919            | 1,774              | 3,775             | 10,992          | 31,761   | 18,677                      | 49,673                       | 1,236                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 7                       | 396            | 2,620             | 281                | 624               | 1,651           | 4,467  | 2,547                       | 6,928                        | 170                                 |
|                                | 75-89% specialization.....  | 9                       | 956            | 6,540             | 566                | 1,192             | 3,416           | 11,539   | 8,281                       | 19,550                       | 482                                 |
| 35413                          | Gear cutting and finishing machines (primary product class of estab.).....  | 10                      | 4,999          | 35,013            | 3,605              | 7,571             | 22,903          | 52,002   | 19,667                      | 70,050                       | 3,247                               |
| 35414                          | Grinding and polishing machines (excluding gear tooth grinding, honing, lapping, polishing and buffing machines) (primary product class of estab.)..... | 77                      | 8,361          | 58,450            | 5,709              | 12,073            | 35,575          | 92,896   | 44,095                      | 135,486                      | 3,114                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 29                      | 794            | 5,245             | 656                | 1,284             | 4,031           | 8,068  | 6,180                       | 14,504                       | 221                                 |
|                                | 75-89% specialization.....  | 15                      | 1,899          | 12,803            | 1,362              | 2,965             | 8,399           | 22,918   | 10,316                      | 32,996                       | 1,327                               |
| 35415                          | Lathes (primary product class of estab.).....   | 56                      | 16,139         | 115,459           | 10,851             | 22,300            | 74,411          | 189,541  | 94,697                      | 279,655                      | 7,578                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 10                      | 484            | 3,133             | 366                | 770               | 2,053           | 4,468  | 2,370                       | 6,916                        | 122                                 |
|                                | 75-89% specialization.....  | 9                       | 3,621          | 26,236            | 2,442              | 5,008             | 15,864          | 45,938   | 25,039                      | 70,383                       | 2,327                               |
| 35416                          | Milling machines (primary product class of estab.).....   | 37                      | 9,277          | 68,067            | 5,294              | 10,781            | 35,663          | 109,350  | 62,883                      | 167,946                      | 4,128                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 7                       | 227            | 1,679             | 176                | 368               | 1,158           | 3,035  | 1,799                       | 4,742                        | 48                                  |
|                                | 75-89% specialization.....  | 5                       | 2,272          | 17,677            | 1,517              | 3,100             | 10,760          | 28,174   | 15,464                      | 42,728                       | (D)                                 |
| 35418                          | Other machine tools (including those designed primarily for home workshops, laboratories, etc.) (primary product class of estab.)                       | 131                     | 9,360          | 69,856            | 6,254              | 13,853            | 42,076          | 105,489  | 66,942                      | 166,288                      | 3,940                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 72                      | 1,956          | 15,693            | 1,524              | 3,466             | 11,558          | 23,511   | 14,342                      | 37,769                       | 1,109                               |
|                                | 75-89% specialization.....  | 13                      | 920            | 6,433             | 642                | 1,522             | 4,274           | 13,511   | 7,962                       | 20,602                       | 443                                 |
| 35419                          | Parts for metal-cutting type machine tools, sold separately, and rebuilt machine tools (primary product class of estab.)....                            | 58                      | 3,125          | 24,415            | 2,480              | 5,603             | 18,024          | 43,475   | 29,470                      | 71,022                       | 1,371                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 28                      | 631            | 4,034             | 509                | 1,067             | 2,830           | 6,851  | 6,772                       | 13,661                       | 442                                 |
|                                | 75-89% specialization.....  | 5                       | 138            | 938               | 82                 | 171               | 505             | 1,760  | 1,052                       | 2,812                        | 108                                 |
| 3542-                          | METAL-FORMING MACHINE TOOLS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 366                     | 22,078         | 161,669           | 15,782             | 34,633            | 107,381         | 281,287  | 165,376                     | 441,419                      | 10,792                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 247                     | 11,470         | 84,160            | 8,488              | 18,661            | 57,854          | 159,502  | 97,865                      | 253,824                      | 6,897                               |
|                                | 75-89% specialization.....  | 35                      | 4,836          | 36,508            | 3,479              | 7,858             | 25,093          | 57,197   | 34,974                      | 91,373                       | 1,635                               |
| 35421                          | Punching, shearing, bending, and forming machines (primary product class of estab.).....  | 66                      | 4,544          | 32,424            | 3,072              | 6,656             | 19,475          | 56,476   | 32,862                      | 89,394                       | 3,006                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 27                      | 1,106          | 7,822             | 837                | 1,916             | 5,624           | 13,633   | 11,990                      | 25,815                       | 1,172                               |
|                                | 75-89% specialization.....  | 10                      | 1,046          | 7,552             | 785                | 1,733             | 4,998           | 16,786   | 9,159                       | 25,943                       | 766                                 |
| 35422                          | Presses, including forging presses (primary product class of estab.)  | 55                      | 8,336          | 62,712            | 6,008              | 13,598            | 43,482          | 102,157  | 68,472                      | 169,676                      | 3,883                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 25                      | 494            | 3,145             | 409                | 836               | 2,281           | 5,937  | 3,750                       | 9,483                        | 105                                 |
|                                | 75-89% specialization.....  | 10                      | 3,364          | 26,442            | 2,569              | 5,729             | 19,309          | 40,426   | 31,148                      | 69,742                       | 1,526                               |

See footnotes at end of table.



TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 35423                          | Other metal-forming machine tools, including forging machines (primary product class of estab.)                       | 32                      | 3,612          | 25,872            | 2,599              | 5,468             | 16,175          | 51,798   | 28,295                      | 77,332                       | 1,690                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 13                      | 834            | 6,171             | 552                | 1,176             | 3,713           | 12,849   | 6,681                       | 19,003                       | 554                                 |
|                                | 75-89% specialization.....  | 6                       | 243            | 1,690             | 181                | 411               | 1,131           | 3,205  | 3,596                       | 6,677                        | 101                                 |
| 35424                          | Parts for metal-forming machine tools and rebuilt metal-forming machinery (primary product class of estab.).....      | 68                      | 3,590          | 27,087            | 2,701              | 6,003             | 19,402          | 46,341   | 23,392                      | 69,701                       | 1,247                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 34                      | 1,142          | 7,774             | 882                | 1,908             | 5,600           | 13,176   | 7,189                       | 20,393                       | 638                                 |
| 3544-                          | SPECIAL DIES AND TOOLS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 5,896                   | 90,860         | 682,739           | 76,002             | 169,313           | 543,033         | 1,029,338                                      | 373,320                     | 1,388,794                    | 53,343                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 5,053                   | 69,761         | 525,288           | 58,497             | 130,496           | 420,439         | 794,199  | 283,609                     | 1,068,179                    | 42,178                              |
|                                | 75-89% specialization.....  | 205                     | 6,123          | 48,955            | 4,963              | 11,251            | 37,583          | 70,296   | 28,742                      | 96,941                       | 3,095                               |
| 35441                          | Special dies and tools, die sets, jigs, and fixtures (primary product class of estab.).....                           | 3,336                   | 62,689         | 495,003           | 52,229             | 117,795           | 390,707         | 658,006  | 268,928                     | 915,090                      | 35,774                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 2,639                   | 45,410         | 363,466           | 37,949             | 85,758            | 289,233         | 539,637  | 191,987                     | 723,975                      | 25,993                              |
|                                | 75-89% specialization.....  | 265                     | 6,721          | 53,101            | 5,528              | 12,454            | 41,109          | 75,275   | 30,373                      | 103,597                      | 3,763                               |
| 35442                          | Industrial molds (primary product class of estab.).....   | 736                     | 13,902         | 99,901            | 11,778             | 26,131            | 79,982          | 149,322  | 56,469                      | 204,438                      | 8,325                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 584                     | 10,643         | 77,485            | 9,069              | 20,115            | 62,060          | 114,691  | 42,363                      | 156,187                      | 6,274                               |
|                                | 75-89% specialization.....  | 54                      | 759            | 4,966             | 622                | 1,334             | 3,871           | 7,645  | 2,387                       | 9,977                        | 400                                 |
| 3545-                          | MACHINE TOOL ACCESSORIES  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 1,038                   | 46,994         | 312,799           | 34,560             | 72,037            | 208,086         | 559,258  | 234,501                     | 787,338                      | 22,784                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 840                     | 27,057         | 173,852           | 20,927             | 43,275            | 122,371         | 315,373  | 123,908                     | 438,541                      | 12,782                              |
|                                | 75-89% specialization.....  | 59                      | 5,060          | 34,642            | 3,576              | 7,609             | 21,876          | 64,581   | 28,008                      | 90,649                       | 2,785                               |
| 35451                          | Small cutting tools for machine tools and metalworking machinery (primary product class of estab.)                    | 486                     | 32,326         | 217,487           | 23,255             | 49,433            | 146,199         | 392,349  | 167,099                     | 556,179                      | 15,729                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 374                     | 18,187         | 117,488           | 14,303             | 29,398            | 84,243          | 213,296  | 83,558                      | 298,532                      | 8,521                               |
|                                | 75-89% specialization.....  | 45                      | 3,082          | 20,080            | 2,262              | 4,781             | 13,904          | 35,471   | 15,324                      | 50,436                       | 1,610                               |
| 35452                          | Precision measuring tools (primary product class of estab.).....  | 115                     | 5,421          | 35,449            | 3,990              | 8,532             | 23,221          | 55,380   | 19,853                      | 74,247                       | 2,473                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 82                      | 1,786          | 11,226            | 1,429              | 3,046             | 8,092           | 16,597   | 7,064                       | 23,575                       | 691                                 |
|                                | 75-89% specialization.....  | 11                      | 490            | 3,256             | 373                | 768               | 2,148           | 5,474  | 1,469                       | 6,848                        | 304                                 |
| 35453                          | Other attachments and accessories for machine tools and metalworking machinery (primary product class of estab.)..... | 178                     | 7,241          | 48,271            | 5,714              | 10,739            | 29,907          | 89,733   | 39,374                      | 126,849                      | 3,579                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 125                     | 3,219          | 21,474            | 2,313              | 4,861             | 13,491          | 42,229   | 16,973                      | 57,232                       | 1,683                               |
|                                | 75-89% specialization.....  | 18                      | 1,674          | 11,214            | 1,165              | 2,400             | 6,599           | 21,385   | 11,607                      | 32,665                       | 1,395                               |
| 3548-                          | METALWORKING MACHINERY, N.E.C.  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 435                     | 38,012         | 246,242           | 28,257             | 57,094            | 161,837         | 468,435  | 328,357                     | 796,327                      | 20,957                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 318                     | 18,062         | 117,962           | 13,115             | 26,349            | 73,631          | 221,621  | 151,204                     | 376,757                      | 10,186                              |
|                                | 75-89% specialization.....  | 42                      | 12,806         | 78,561            | 9,689              | 19,483            | 54,869          | 166,030  | 106,786                     | 273,090                      | 5,089                               |
| 35481                          | Rolling-mill machinery and equipment (primary product class of estab.).....   | 45                      | 12,532         | 93,244            | 9,836              | 20,004            | 66,468          | 143,302  | 134,135                     | 277,156                      | 10,876                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 24                      | 4,051          | 30,038            | 3,350              | 6,974             | 23,233          | 44,703   | 44,225                      | 89,857                       | 2,965                               |
|                                | 75-89% specialization.....  | 5                       | 4,320          | 31,762            | 3,269              | 6,423             | 21,662          | 49,750   | 44,394                      | 97,330                       | 2,488                               |
| 35482                          | Power-driven hand tools, including parts and attachments (primary product class of estab.).....                       | 85                      | 17,412         | 100,751           | 12,826             | 25,760            | 64,651          | 232,375  | 133,883                     | 365,367                      | 6,067                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 49                      | 7,143          | 42,426            | 5,125              | 10,057            | 24,892          | 97,888   | 53,965                      | 152,002                      | 2,563                               |
|                                | 75-89% specialization.....  | 22                      | 8,521          | 47,894            | 6,327              | 12,912            | 32,746          | 115,281  | 64,610                      | 179,152                      | 2,875                               |

See footnotes at end of table.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization                                    | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 35483                          | Acetylene welding and cutting apparatus (primary product class of estab.).....            | 30                      | 2,589          | 17,683            | 1,765              | 3,480             | 9,955           | 31,141   | 17,577                      | 48,954                       | 1,295                               |
|                                | Establishments with—<br>90% or more specialization....                                    | 21                      | 2,284          | 15,902            | 1,554              | 3,069             | 8,841           | 27,447   | 15,700                      | 43,384                       | 1,202                               |
| 35484                          | Automotive maintenance equipment (primary product class of estab.)                        | 35                      | 1,993          | 11,896            | 1,245              | 2,556             | 6,349           | 24,250   | 18,580                      | 42,707                       | 975                                 |
|                                | Establishments with—<br>90% or more specialization....                                    | 25                      | 1,251          | 7,500             | 774                | 1,527             | 3,687           | 15,691   | 12,730                      | 28,933                       | 533                                 |
| 35485                          | Metalworking machinery, exc. machine tools, n.e.c. (primary product class of estab.)..... | 51                      | 1,930          | 13,798            | 1,343              | 2,806             | 8,297           | 20,699   | 13,739                      | 35,152                       | 762                                 |
|                                | Establishments with—<br>90% or more specialization....                                    | 35                      | 1,028          | 7,343             | 700                | 1,432             | 4,268           | 11,476   | 7,412                       | 19,803                       | 385                                 |
|                                | 75-89% specialization.....  | 6                       | 345            | 2,423             | 264                | 549               | 1,672           | 4,373  | 1,962                       | 6,284                        | 233                                 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.



TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations  | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3541.—METAL-CUTTING MACHINE TOOLS   |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 10                       | -   | -       | 10         | 987                                   | -   | -       | 987        |
| Nonferrous foundry (except die casting).....   | 3                        | 1   | -       | 2          | (D)                                   | -   | -       | (D)        |
| Nonferrous die casting.....  | 3                        | 2   | 1       | -          | 10                                    | (D)                                       | (D)     | -          |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 4                        | 4   | -       | -          | 7                                     | 7   | -       | -          |
| Electroplating and other plating.....  | 14                       | 10  | 4       | -          | 63                                    | 17  | 46      | -          |
| Heat treating of metals.....   | 68                       | 41  | 20      | 7          | 417                                   | 72  | 154     | 191        |
| Automatic screw machine department.....  | 51                       | 29  | 17      | 5          | 340                                   | 56  | 154     | 130        |
| Machine shop.....  | 316                      | 74  | 103     | 139        | 22,515                                | 114                                       | 1,067   | 21,334     |
| Tool and die shop.....   | 101                      | 44  | 33      | 24         | 1,641                                 | 81  | 333     | 1,227      |
| Foundry pattern shop.....  | 36                       | 19  | 12      | 5          | 286                                   | 39  | 122     | 125        |
| Plate or structural fabrication.....   | 50                       | 31  | 15      | 4          | 429                                   | 67  | 148     | 214        |
| Stamping, blanking and forming of metals.....  | 38                       | 28  | 8       | 2          | 163                                   | 39  | (D)     | (D)        |
| Painting, lacquering and enameling on metals.....  | 149                      | 101                                       | 44      | 4          | 663                                   | 148                                       | 410     | 105        |
| INDUSTRY 3542.—METAL-FORMING MACHINE TOOLS   |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 6                        | -   | 1       | 5          | 357                                   | -   | (D)     | (D)        |
| Nonferrous foundry (except die casting).....   | 2                        | 1   | -       | 1          | (D)                                   | (D)                                       | -       | (D)        |
| Nonferrous die casting.....  | 1                        | -   | 1       | -          | (D)                                   | -   | (D)     | -          |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 7                        | 5   | 2       | -          | 27                                    | (D)                                       | (D)     | -          |
| Electroplating and other plating.....  | 3                        | 3   | -       | -          | 6                                     | 6   | -       | -          |
| Heat treating of metals.....   | 30                       | 23  | 6       | 1          | 196                                   | 38  | (D)     | (D)        |
| Automatic screw machine department.....  | 28                       | 17  | 9       | 2          | 217                                   | 26  | (D)     | (D)        |
| Machine shop.....  | 163                      | 32  | 58      | 73         | 7,779                                 | 49  | 641     | 7,089      |
| Tool and die shop.....   | 58                       | 26  | 22      | 10         | 578                                   | 42  | 211     | 325        |
| Foundry pattern shop.....  | 18                       | 13  | 5       | -          | 84                                    | 28  | 56      | -          |
| Plate or structural fabrication.....   | 40                       | 20  | 11      | 9          | 825                                   | 38  | 101     | 686        |
| Stamping, blanking and forming of metals.....  | 38                       | 26  | 11      | 1          | 170                                   | 31  | (D)     | (D)        |
| Painting, lacquering and enameling on metals.....  | 56                       | 50  | 6       | -          | 125                                   | 67  | 58      | -          |
| INDUSTRY 3544.—SPECIAL DIES AND TOOLS  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 3                        | 2   | 1       | -          | 10                                    | (D)                                       | (D)     | -          |
| Nonferrous foundry (except die casting).....   | 26                       | 23  | 2       | 1          | 85                                    | 43  | (D)     | (D)        |
| Nonferrous die casting.....  | 38                       | 21  | 12      | 5          | 361                                   | 43  | 139     | 179        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 13                       | 8   | 4       | 1          | 146                                   | 11  | (D)     | (D)        |
| Electroplating and other plating.....  | 23                       | 19  | 3       | 1          | 81                                    | 27  | (D)     | (D)        |
| Heat treating of metals.....   | 163                      | 150                                       | 10      | 3          | 370                                   | 164                                       | 76      | 130        |
| Automatic screw machine department.....  | 64                       | 57  | 7       | -          | 174                                   | 103                                       | 71      | -          |
| Machine shop.....  | 1,013                    | 359                                       | 492     | 162        | 13,346                                | 559                                       | 4,772   | 8,015      |
| Tool and die shop.....   | 1,799                    | 529                                       | 857     | 413        | 31,244                                | 834                                       | 8,632   | 21,778     |
| Foundry pattern shop.....  | 69                       | 40  | 18      | 11         | 831                                   | 75  | 175     | 581        |
| Plate or structural fabrication.....   | 103                      | 78  | 20      | 5          | 460                                   | 101                                       | 163     | 196        |
| Stamping, blanking and forming of metals.....  | 458                      | 351                                       | 91      | 16         | 1,999                                 | 513                                       | 764     | 722        |
| Painting, lacquering and enameling on metals.....  | 76                       | 72  | 3       | 1          | 132                                   | 75  | (D)     | (D)        |
| INDUSTRY 3545.—MACHINE TOOL ACCESSORIES  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 4                        | 2   | -       | 2          | (D)                                   | (D)                                       | -       | (D)        |
| Nonferrous foundry (except die casting).....   | 4                        | 4   | -       | -          | 9                                     | 9   | -       | -          |
| Nonferrous die casting.....  | 4                        | 3   | 1       | -          | 15                                    | (D)                                       | (D)     | -          |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 17                       | 10  | 5       | 2          | 109                                   | 16  | (D)     | (D)        |
| Electroplating and other plating.....  | 31                       | 25  | 5       | 1          | 114                                   | 40  | (D)     | (D)        |
| Heat treating of metals.....   | 144                      | 92  | 39      | 13         | 917                                   | 154                                       | 325     | 438        |
| Automatic screw machine department.....  | 74                       | 57  | 12      | 5          | 332                                   | 113                                       | 104     | 115        |
| Machine shop.....  | 304                      | 78  | 105     | 121        | 11,505                                | 112                                       | 1,131   | 10,262     |
| Tool and die shop.....   | 146                      | 50  | 62      | 34         | 1,973                                 | 62  | 610     | 1,301      |
| Foundry pattern shop.....  | 7                        | 5   | 1       | 1          | 38                                    | (D)                                       | (D)     | (D)        |
| Plate or structural fabrication.....   | 13                       | 8   | 5       | -          | 52                                    | 14  | 38      | -          |
| Stamping, blanking and forming of metals.....  | 49                       | 33  | 11      | 5          | 484                                   | 51  | 107     | 326        |
| Painting, lacquering and enameling on metals.....  | 53                       | 46  | 5       | 2          | 182                                   | 59  | (D)     | (D)        |

See footnotes at end of table.

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963—Continued

| Metalworking operations  | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3548.—METALWORKING MACHINERY, N.E.C.  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 5                        | -   | 1       | 4          | 958                                   | -   | (D)     | (D)        |
| Nonferrous foundry (except die casting).....   | 6                        | 5   | -       | 1          | 56                                    | (D)                                       | -       | (D)        |
| Nonferrous die casting.....  | 8                        | 4   | 1       | 3          | 112                                   | (D)                                       | (D)     | 100        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 12                       | 7   | 3       | 2          | 109                                   | 14  | (D)     | (D)        |
| Electroplating and other plating.....  | 10                       | 7   | 3       | -          | 34                                    | 12  | 22      | -          |
| Heat treating of metals.....   | 43                       | 30  | 9       | 4          | 350                                   | 49  | 81      | 220        |
| Automatic screw machine department.....  | 45                       | 19  | 19      | 7          | 561                                   | 40  | 200     | 321        |
| Machine shop.....  | 167                      | 41  | 45      | 81         | 10,549                                | 84  | 452     | 10,013     |
| Tool and die shop.....   | 69                       | 34  | 24      | 11         | 736                                   | 64  | 225     | 447        |
| Foundry pattern shop.....  | 11                       | 7   | 3       | 1          | 91                                    | 18  | (D)     | (D)        |
| Plate or structural fabrication.....   | 46                       | 21  | 10      | 15         | 1,281                                 | 46  | 95      | 1,140      |
| Stamping, blanking and forming of metals.....  | 42                       | 34  | 2       | 6          | 344                                   | (D)                                       | (D)     | 278        |
| Painting, lacquering and enameling on metals.....  | 84                       | 77  | 5       | 2          | 204                                   | 114                                       | (D)     | (D)        |

Note: Very small establishments were not requested to report their metalworking operations and, in some instances, a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production-worker employment on the last line of the table below:

| Item  | INDUSTRY |       |       |       |       |
|---|----------|-------|-------|-------|-------|
|   | 3541     | 3542  | 3544  | 3545  | 3548  |
| Total number of establishments in the industry.....   | 801      | 366   | 5,896 | 1,038 | 435   |
| Number of establishments which reported one or more of the specified operations.....                              | 390      | 195   | 2,603 | 435   | 212   |
| Percent of industry production workers in these establishments.....   | 90-95    | 85-90 | 75-80 | 80-85 | 85-90 |
| Number of establishments which reported "none" of the operations apply.....                                       | 26       | 6     | 191   | 79    | 18    |
| Percent of industry production workers in these establishments.....   | 0-5      | 0-5   | 0-5   | 5-10  | 0-5   |
| Percent of industry production workers in establishments which completed the metalworking operations inquiry..... | 95-100   | 85-90 | 75-80 | 85-90 | 90-95 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishment.



## SPECIAL INDUSTRY MACHINERY, EXCEPT METALWORKING MACHINERY

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3551—Food Products Machinery
- 3552—Textile Machinery
- 3553—Woodworking Machinery
- 3554—Paper Industries Machinery
- 3555—Printing Trades Machinery and Equipment
- 3559—Special Industry Machinery, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3551—FOOD PRODUCTS MACHINERY

This industry comprises establishments primarily engaged in manufacturing machinery for use by the food products and beverage manufacturing industries in the preparation, canning, or packaging of food products; and parts and attachments for such machinery. Establishments primarily engaged in manufacturing industrial refrigeration machinery are classified in Group 358. For a detailed list of products of industry 3551, refer to table 6A, product codes 3551111 to 3551381.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the food products machinery industry in 1963 totaled \$641 million. This amount included shipments of food products machinery (primary products) valued at \$451 million, shipments of other products (secondary products) valued at \$72 million, and miscellaneous receipts (including significant sales of products bought and resold), at \$118 million.

This industry's shipments of food products machinery in 1963 represented 86 percent of its total product shipments. The industry specialization ratio in 1958 was 87 percent. Secondary products shipped by this industry in 1963 include Special Industry Machinery (\$20 million), and General Industrial Machinery, N.E.C. (\$11 million).

Shipments of food products machinery by this industry in 1963 represented 87 percent of all shipments of these products (\$517 million) by all industries. In 1958 the coverage ratio was 84 percent. Another industry shipping food products machinery was industry 3559, Special Industry Machinery, \$20 million.

#### 3552—TEXTILE MACHINERY

This industry comprises establishments primarily engaged in manufacturing machinery for the textile industries, and extra parts, attachments, and accessories. Establishments primarily engaged in manufacturing domestic or industrial sewing machines are classified in industry 3636. For a detailed list of products of industry 3552, refer to table 6A, product codes 3552113 to 3552298.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Textile Machinery Industry in 1963 totaled \$543 million. This amount included shipments of textile-industries machinery (primary products) valued at \$468 million, shipments of other products (secondary products) valued at \$38 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$37 million.

This industry's shipments of textile-industries machinery in 1963 represented 93 percent of its total product shipments. The industry specialization ratio in 1958 was 87 percent. Secondary products shipped by this industry in 1963 include all other gray iron castings \$4 million, metal stampings \$2 million, food products machinery \$3 million, printing trades machinery \$3 million and other special industry machinery \$5 million.

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 55 percent of the total industry shipments are represented by plants specializing in textile machinery; and 40 percent in parts and attachments for textile machinery.

Shipments of textile-industries machinery by this industry in 1963 represented 94 percent of all shipments of these products (\$499 million) by all industries. In 1958 the coverage ratio was also 94 percent.

#### 3553—WOODWORKING MACHINERY

This industry comprises establishments primarily engaged in manufacturing machinery for sawmills, planing mills, cabinet and furniture makers, pattern makers, and veneer workers, establishments primarily engaged in manufacturing hand tools such as planes, axes, drawknives, and hand saws are classified in Group 342; and portable power driven hand tools in industry 3548. For a detailed list of products of industry 3553, refer to table 6A, product codes 3553112 to 3553298.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Woodworking Machinery Industry in 1963 totaled \$253 million. This amount included shipments of woodworking machinery (pri-



mary products), valued at \$179 million, shipments of other products (secondary products) valued at \$52 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$22 million.

This industry's shipments of woodworking machinery in 1963 represented 77 percent of its total product shipments. The industry specialization ratio in 1958 was 78 percent. Secondary products shipped by this industry in 1963 include farm machinery and equipment \$3 million, and grinding and polishing machines \$2 million.

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 85 percent of the total industry shipments are represented by plants specializing in woodworking machines, except home workshops.

Shipments of woodworking machinery of this industry in 1963 represented 81 percent of all shipments of these products (\$221 million) by all industries. In 1958 the coverage ratio was 86 percent. Another industry shipping woodworking machinery (primary products) was industry 3541, Metal-Cutting Machine Tools, \$9 million.

The production index for the primary products of the industry increased to 111 in 1963 from the 1958 level of 99. The unit value index for 1963 was 119 compared to 108 in 1958. Both indexes were computed on a basis of 1954 - 100.

#### 3554--PAPER INDUSTRIES MACHINERY

This industry comprises establishments primarily engaged in manufacturing machinery for the paper-pulp, paper, and paper-product industries. Establishments primarily engaged in manufacturing printing trades machinery are classified in industry 3555. For a detailed list of products of industry 3554, refer to table 6A, product codes 3554011 to 3554081.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Paper Industries Machinery Industry in 1963 totaled \$404 million. This amount included shipments of paper industries machinery (primary products), valued at \$313 million, shipments of other products (secondary products) valued at \$42 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$49 million.

This industry's shipments of paper industries machinery in 1963 represented 88 percent of its total product shipments. The industry specialization ratio in 1958 was 93 percent. Secondary products shipped by this industry in 1963 includes special industry machinery n.e.c. (\$14 million), and all other gray iron castings (\$4 million).

Shipments of paper industries machinery of this industry in 1963 represented 90 percent of all shipments of these products (\$348 million) by all industries. In 1958 the coverage ratio was 91 percent. Another industry shipping paper industries machinery (primary products) was industry 3559, Special Industry Machines, N.E.C., \$11 million.

The production index for the primary products of the industry increased to 202 in 1963 from the 1958 level of 144. The unit value index for 1963 was 98 compared to 111 in 1958. Both indexes were computed on a basis of 1954 - 100.

### 3555—PRINTING TRADES MACHINERY AND EQUIPMENT

This industry comprises establishments primarily engaged in manufacturing machinery and equipment used by the printing and bookbinding trades. Establishments primarily engaged in manufacturing textile printing machinery are classified in industry 3552. For a detailed list of products of industry 3555, refer to table 6A, product codes 3555111 to 3555298.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Printing Trades Machinery Industry in 1963 totaled \$448 million. This amount included shipments of printing trades machinery (primary products), valued at \$369 million, shipments of other products (secondary products) valued at \$18 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$61 million.

This industry's shipments of printing trades machinery in 1963 represented 95 percent of its total product shipments. The industry specialization ratio in 1958 was also 95 percent. Secondary products shipped by this industry in 1963 include fabricated rubber products, n.e.c. (\$4 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 40 percent of the total industry shipments are represented by plants specializing in printing presses and 55 percent in other printing trades machinery.

Shipments of printing trades machinery by this industry in 1963 represented 92 percent of all shipments of these products (\$403 million) by all industries. In 1958 the coverage ratio was 91 percent.

The production index for the primary products of the industry decreased to 141 in 1963 from the 1958 level of 118. The unit value index for 1963 was 123 compared to 100 in 1958. Both indexes were computed on a basis of 1954 - 100.

### 3559—SPECIAL INDUSTRY MACHINERY, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing special industry machinery, n.e.c., such as smelting and refining equipment, cement making, clay working, cotton ginning, glass making, hat making, incandescent lamp making, leather working, paint making, rubber working, cigar and cigarette making, tobacco working, shoe making, and stone working machinery. For a detailed list of products of industry 3559, refer to table 6A, product codes 3559111 to 3559593.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Special Industry Machinery, N.E.C., Industry in 1963 totaled \$1,015 million. This amount included shipments of special industry machinery (primary products) valued at \$734 million, shipments of other products (secondary products) valued at \$150 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$130 million.



This industry's shipments of special industry machinery, n.e.c., in 1963 represented 83 percent of its total product shipments. The industry specialization ratio in 1958 was also 83 percent. Secondary products shipped by this industry in 1963 include general industrial machinery, n.e.c., (\$16 million), other industrial food products machinery (\$13 million) and paper industries machinery (\$11 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 15 percent of the total industry shipments are represented by plants specializing in plastics-working machinery; 15 percent in chemical manufacturing industry machinery; and 48 percent in other special industrial machinery.

Shipments of special industry machinery, n.e.c., by this industry in 1963 represented 74 percent of all shipments of these products (\$988 million) by all industries. In 1958 the coverage ratio was 77 percent. Other industries shipping special industry machinery (primary products) includes industry 3551, Food Products Machinery, \$14 million; and industry 3541, Machine Tools, Metal Cutting Type, \$16 million.

### SPECIAL INDUSTRY MACHINERY: SIC 355 Value Added by Manufacture by State: 1963

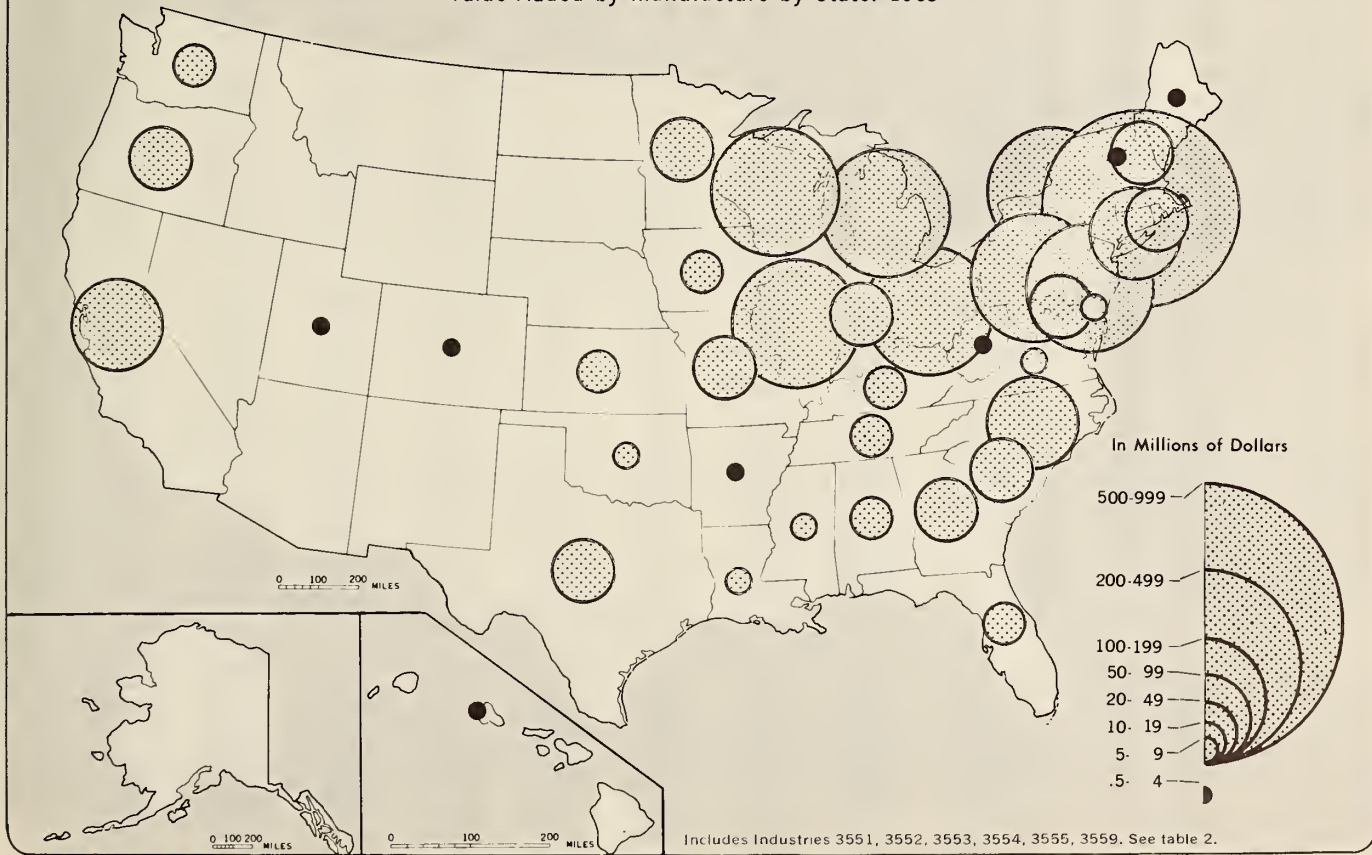


TABLE 1. General Statistics: 1963 and Earlier Years

| Year                                      | Companies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Speci-<br>alization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|-----------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|---|-----------------------------------|------------------------------------|---|--|--|
|   |                       | Total<br>(number) | With 20<br>employ-<br>ees or<br>more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                   |                                    |   |  |  |
| INDUSTRY 3551.—FOOD PRODUCTS MACHINERY    |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                                 | 649                   | 681               | 279  | 31,684            | 205,368              | 21,018             | 43,276               | 118,036            | 380,406   | 255,278                           | 640,507                            | 11,031  | 86   | 87                                       |
| 1962 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 31,943            | 201,469              | 21,689             | 45,586               | 115,085            | 365,150   | 260,775                           | 626,228                            | 11,834  | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 30,935            | 187,928              | 20,912             | 42,328               | 103,830            | 359,651   | 250,465                           | 588,020                            | 10,508  | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 30,519            | 181,317              | 20,323             | 42,734               | 103,582            | 337,845   | 227,842                           | 557,324                            | 8,765   | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 28,680            | 164,956              | 19,146             | 38,778               | 93,403             | 300,593   | 205,870                           | 501,078                            | 9,332   | (NA)   | (NA)                                     |
| 1958.....                                 | 657                   | 672               | 240  | 27,715            | 152,515              | 18,195             | 36,304               | 86,824             | 268,639   | 185,816                           | 456,171                            | 7,801   | 87   | 84                                       |
| 1957 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 32,160            | 167,192              | 22,722             | 45,964               | 100,964            | 256,506   | 169,893                           | 429,709                            | (S)   | (NA)   | (NA)                                     |
| 1956 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 34,130            | 172,950              | 24,329             | 51,153               | 106,332            | 279,485   | 173,492                           | 434,014                            | (S)   | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 31,276            | 148,417              | 22,282             | 46,212               | 93,316             | 242,572   | 140,080                           | 380,905                            | (S)   | (NA)   | (NA)                                     |
| 1954.....                                 | 650                   | 672               | 261  | 33,205            | 152,518              | 23,717             | 49,009               | 98,570             | 261,779   | 168,585                           | 432,200                            | 7,571   | 84   | 86                                       |
| 1953 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 30,763            | 137,301              | 22,183             | (NA)                 | 90,723             | 231,047   | 129,154                           | 360,201                            | (NA)  | (NA)   | (NA)                                     |
| 1952 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 30,704            | 132,965              | 22,220             | (NA)                 | 87,736             | 218,522   | 125,281                           | 343,803                            | (NA)  | (NA)   | (NA)                                     |
| 1951 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 33,973            | 141,729              | 24,938             | (NA)                 | 95,948             | 215,895   | 143,792                           | 359,687                            | (NA)  | (NA)   | (NA)                                     |
| 1950 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 29,796            | 109,231              | 21,373             | (NA)                 | 69,902             | 173,918   | 113,152                           | 287,070                            | (NA)  | (NA)   | (NA)                                     |
| 1949 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 29,187            | 98,236               | 21,530             | (NA)                 | 64,793             | 155,750   | 96,383                            | 252,133                            | (NA)  | (NA)   | (NA)                                     |
| 1947.....                                 | 605                   | 623               | (NA)   | 36,927            | 113,823              | 28,894             | 62,099               | 82,246             | 191,758   | 135,923                           | 327,681                            | (NA)  | 89   | 82                                       |
| 1939 <sup>1</sup> .....                   | (NA)                  | 406               | (NA)   | (NA)              | (NA)                 | 14,155             | (NA)                 | 18,931             | 58,587  | 33,082                            | 91,669                             | (NA)  | (NA)   | (NA)                                     |
| 1937 <sup>1</sup> .....                   | (NA)                  | 323               | (NA)   | (NA)              | (NA)                 | 18,475             | (NA)                 | 26,579             | 74,781  | 39,301                            | 114,082                            | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3552.—TEXTILE MACHINERY          |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                                 | 529                   | 561               | 216  | 36,004            | 196,379              | 26,870             | 56,145               | 129,064            | 314,190   | 232,271                           | 542,684                            | 13,870  | 93   | 94                                       |
| 1962 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 38,678            | 201,660              | 27,573             | 60,730               | 137,676            | 346,974   | 230,736                           | 574,860                            | (15,334)  | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 37,685            | 192,819              | 26,550             | 58,730               | 129,806            | 317,773   | 214,699                           | 530,350                            | (12,962)  | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 39,321            | 188,265              | 28,639             | 61,559               | 131,601            | 325,236   | 219,371                           | 538,480                            | (11,370)  | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 35,766            | 173,594              | 27,627             | 58,194               | 120,553            | 271,336   | 186,898                           | 445,493                            | 6,813   | (NA)   | (NA)                                     |
| 1958.....                                 | 513                   | 553               | 212  | 34,313            | 154,548              | 25,611             | 51,206               | 101,897            | 214,199   | 154,182                           | 376,340                            | 8,508   | 87   | 94                                       |
| 1957 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 38,871            | 171,533              | 29,355             | 60,342               | 117,213            | 256,419   | 140,192                           | 393,794                            | 18,820  | 87   | 95                                       |
| 1956 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 40,858            | 178,744              | 31,511             | 65,146               | 122,067            | 283,416   | 169,937                           | 441,314                            | 12,250  | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 38,579            | 162,641              | 29,866             | 62,437               | 113,821            | 265,131   | 152,177                           | 405,993                            | 9,253   | (NA)   | (NA)                                     |
| 1954.....                                 | 517                   | 535               | 210  | 36,595            | 145,253              | 28,093             | 55,733               | 98,668             | 216,606   | 127,167                           | 347,145                            | 8,528   | 89   | 93                                       |
| 1953 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 38,295            | 154,807              | 20,017             | (NA)                 | 112,012            | 228,361   | 113,847                           | 342,208                            | (NA)  | (NA)   | (NA)                                     |
| 1952 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 44,350            | 174,355              | 34,610             | (NA)                 | 122,996            | 273,923   | 133,066                           | 406,989                            | (NA)  | (NA)   | (NA)                                     |
| 1951 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 56,539            | 214,834              | 45,561             | (NA)                 | 157,020            | 338,685   | 210,488                           | 549,173                            | (NA)  | (NA)   | (NA)                                     |
| 1950 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 50,492            | 178,039              | 39,161             | (NA)                 | 128,675            | 299,119   | 156,665                           | 455,784                            | (NA)  | (NA)   | (NA)                                     |
| 1949 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 49,847            | 166,330              | 39,481             | (NA)                 | 119,673            | 283,570   | 149,192                           | 430,762                            | (NA)  | (NA)   | (NA)                                     |
| 1947.....                                 | 470                   | 489               | (NA)   | 53,583            | 158,446              | 45,393             | 98,607               | 126,142            | 256,436   | 146,949                           | 403,385                            | (NA)  | 95   | 93                                       |
| 1939.....                                 | (NA)                  | 339               | (NA)   | (NA)              | (NA)                 | 22,580             | (NA)                 | 28,461             | 62,033  | 34,876                            | 96,909                             | (NA)  | (NA)   | (NA)                                     |
| 1937 <sup>1</sup> .....                   | (NA)                  | 356               | (NA)   | 29,161            | 42,566               | 25,340             | (NA)                 | 33,139             | 71,883  | 35,546                            | 107,429                            | (NA)  | (NA)   | (NA)                                     |
| 1935.....                                 | (NA)                  | 349               | (NA)   | 22,682            | 29,731               | 19,072             | (NA)                 | 21,246             | 45,715  | 23,131                            | 68,846                             | (NA)  | (NA)   | (NA)                                     |
| 1933.....                                 | (NA)                  | 314               | (NA)   | 21,281            | 23,855               | 18,576             | (NA)                 | 18,737             | 41,945  | 18,378                            | 60,323                             | (NA)  | (NA)   | (NA)                                     |
| 1931.....                                 | (NA)                  | 330               | (NA)   | (NA)              | (NA)                 | 18,808             | (NA)                 | 21,238             | 47,623  | 18,175                            | 65,798                             | (NA)  | (NA)   | (NA)                                     |
| 1929.....                                 | (NA)                  | 376               | (NA)   | 31,263            | 50,497               | 27,019             | (NA)                 | 37,836             | 85,883  | 36,556                            | 122,439                            | (NA)  | (NA)   | (NA)                                     |
| 1927.....                                 | (NA)                  | 367               | (NA)   | 30,220            | 47,398               | 26,154             | (NA)                 | 36,481             | 80,740  | 36,181                            | 116,921                            | (NA)  | (NA)   | (NA)                                     |
| 1925.....                                 | (NA)                  | 379               | (NA)   | 32,329            | 49,003               | 27,869             | (NA)                 | 37,464             | 82,616  | 39,037                            | 121,653                            | (NA)  | (NA)   | (NA)                                     |
| 1923.....                                 | (NA)                  | 428               | (NA)   | 40,041            | 57,086               | 35,672             | (NA)                 | 46,023             | 90,955  | 49,706                            | 140,661                            | (NA)  | (NA)   | (NA)                                     |
| 1921.....                                 | (NA)                  | 421               | (NA)   | 34,469            | 47,129               | 31,025             | (NA)                 | 38,831             | 84,031  | 44,904                            | 128,935                            | (NA)  | (NA)   | (NA)                                     |
| 1919 <sup>5</sup> .....                   | (NA)                  | 432               | (NA)   | 35,772            | 44,627               | 31,823             | (NA)                 | 36,529             | 76,452  | 45,637                            | 122,089                            | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3553.—WOODWORKING MACHINERY      |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                                 | 245                   | 249               | 91   | 12,057            | 72,928               | 8,725              | 17,662               | 45,877             | 146,998   | 110,061                           | 252,762                            | 4,720   | 77   | 81                                       |
| 1962 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 12,307            | 69,562               | 9,099              | 16,888               | 42,175             | 141,060   | 111,528                           | 247,431                            | (4,597)   | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 10,885            | 62,103               | 7,776              | 14,732               | 37,136             | 113,486   | 88,298                            | 213,003                            | (7,608)   | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 11,511            | 62,396               | 8,160              | 15,948               | 38,282             | 128,997   | 92,630                            | 224,357                            | (3,008)   | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 13,096            | 69,320               | 9,145              | 18,422               | 43,591             | 146,418   | 106,818                           | 245,888                            | 5,228   | (NA)   | (NA)                                     |
| 1958.....                                 | 251                   | 257               | 96   | 12,219            | 63,414               | 8,036              | 15,945               | 36,904             | 112,936   | 88,530                            | 214,376                            | 6,924   | 78   | 86                                       |
| 1957 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 11,376            | 55,638               | 8,161              | 16,601               | 37,468             | 108,615   | 74,191                            | 176,578                            | (S)   | 82   | 78                                       |
| 1956 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 12,869            | 62,983               | 9,616              | 19,283               | 43,025             | 133,493   | 84,096                            | 200,727                            | (S)   | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 13,254            | 57,257               | 9,796              | 18,994               | 39,228             | 118,375   | 71,365                            | 183,739                            | (S)   | (NA)   | (NA)                                     |
| 1954.....                                 | 247                   | 249               | 96   | 11,973            | 53,821               | 8,839              | 17,771               | 35,224             | 102,525   | 73,945                            | 178,799                            | 4,329   | 84   | 81                                       |
| 1953 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 15,349            | 65,636               | 11,338             | (NA)                 | 44,397             | 107,075   | 85,108                            | 192,183                            | (NA)  | (NA)   | (NA)                                     |
| 1952 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 13,124            | 56,666               | 10,226             | (NA)                 | 39,850             | 93,075  | 59,398                            | 152,473                            | (NA)  | (NA)   | (NA)                                     |
| 1951 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 14,879            | 61,799               | 11,578             | (NA)                 | 43,816             | 102,956   | 80,218                            | 183,174                            | (NA)  | (NA)   | (NA)                                     |
| 1950 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 13,148            | 48,313               | 10,065             | (NA)                 | 31,915             | 78,158  | 52,834                            | 130,992                            | (NA)  | (NA)   | (NA)                                     |
| 1947.....                                 | (NA)                  | 294               | (NA)   | 16,233            | 50,488               | 13,018             | 27,219               | 36,383             | 90,841  | 62,040                            | 152,881                            | (NA)  | 78   | 77                                       |
| 1939 <sup>2</sup> .....                   | (NA)                  | 148               | (NA)   | (NA)              | (NA)                 | 3,649              | (NA)                 | 4,683              | 12,677  | 7,783                             | 20,460                             | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3554.—PAPER INDUSTRIES MACHINERY |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                                 | 204                   | 217               | 92   | 18,605            | 130,614              | 12,914             | 27,233               | 82,299             | 217,475   | 196,467                           | 403,925                            | 10,348  | 88   | 90                                       |
| 1962.....                                 | (NA)                  | (NA)              | (NA)   | 19,099            | 128,540              | 13,263             | 27,385               | 78,218             | 194,120   | 203,176                           | 398,581                            | (9,637)   | (NA)   | (NA)                                     |
| 1961.....                                 | (NA)                  | (NA)              | (NA)   | 18,610            | 117,943              | 12,726             | 25,381               | 70,377             | 188,003   | 182,299                           | 364,967                            | (9,393)   | (NA)   | (NA)                                     |
| 1960.....                                 | (NA)                  | (NA)              | (NA)   | 18,439            | 117,458              | 12,868             | 27,159               | 73,564             | 191,045   | 202,301                           | 380,011                            | (S)   | (NA)   | (NA)                                     |
| 1959.....                                 | (NA)                  | (NA)              | (NA)   | 16,788            | 97,422               | 12,012             | 24,670               | 60,696             | 150,184   | 167,799                           | 333,310                            | 7,033   | (NA)   | (NA)                                     |
| 1958.....                                 | 192                   | 202               | 97   | 15,713            | 89,881               | 11,356             | 22,727               | 58,198             | 123,758   | 155,610                           | 310,179                            | 4,847   | 93   | 91                                       |
| 1957 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 19,208            | 104,540              | 14,412             | 29,724               | 70,459             | 221,104   | 145,973                           | 332,386                            | 11,811  | 90   | 89                                       |
| 1956 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 17,957            | 97,844               | 13,648             | 29,117               | 66,023             | 182,198   | 131,890                           | 288,343                            | 13,137  | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....                   | (NA)                  | (NA)              | (NA)   | 15,626            | 79,911               | 11,768             | 24,349               | 53,969             | 132,072   | 99,697                            | 224,015                            | 6,962   | (NA)   | (NA)                                     |
| 1954.....                                 | 1                     | 169               | 98   | 15,003            | 73,713               | 11,516             | 23,745               | 50,057             | 109,803   | 92,479                            | 206,951                            | 4,916   | 85   | 86                                       |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spec-<br>ializa-<br>tion<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3554.—PAPER INDUSTRIES MACHINERY—Continued |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1953 <sup>1</sup>                                   | (NA)                       | (NA)              | (NA)   | 13,802            | 66,912               | 10,667             | (NA)                 | 46,610             | 99,682   | 78,867                            | 178,549                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup>                                   | (NA)                       | (NA)              | (NA)   | 15,487            | 71,654               | 11,880             | (NA)                 | 50,781             | 101,775  | 81,581                            | 183,356                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup>                                   | (NA)                       | (NA)              | (NA)   | 15,328            | 67,500               | 11,891             | (NA)                 | 48,213             | 97,581   | 76,153                            | 173,734                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup>                                   | (NA)                       | (NA)              | (NA)   | 12,939            | 51,054               | 9,761              | (NA)                 | 34,279             | 74,415   | 54,376                            | 128,791                            | (NA)  | (NA)  | (NA)                                     |
| 1947  | 144                        | 149               | (NA)   | 17,088            | 57,749               | 13,398             | 29,782               | 41,523             | 81,358   | 69,727                            | 151,085                            | (NA)  | 85  | 89                                       |
| 1939  | (NA)                       | 116               | (NA)   | (NA)              | (NA)                 | 5,570              | (NA)                 | 7,984              | 20,198   | 13,017                            | 33,215                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>3</sup>                                   | (NA)                       | 91                | (NA)   | (NA)              | (NA)                 | 6,813              | (NA)                 | 10,861             | 24,391   | 19,015                            | 43,406                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3555.—PRINTING TRADES MACHINERY            |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963  | 463                        | 490               | 136  | 22,952            | 159,407              | 16,437             | 34,269               | 104,446            | 285,879  | 170,723                           | 448,398                            | 8,911   | 95  | 92                                       |
| 1962  | (NA)                       | (NA)              | (NA)   | 23,648            | 159,928              | 16,546             | 34,405               | 99,948             | 288,542  | 166,575                           | 459,961                            | (13,675)  | (NA)  | (NA)                                     |
| 1961  | (NA)                       | (NA)              | (NA)   | 23,156            | 151,010              | 16,287             | 33,324               | 96,795             | 270,084  | 159,593                           | 420,759                            | 9,596   | (NA)  | (NA)                                     |
| 1960  | (NA)                       | (NA)              | (NA)   | 22,243            | 143,040              | 15,554             | 32,545               | 92,312             | 246,718  | 151,471                           | 399,418                            | 10,233  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup>                                   | (NA)                       | (NA)              | (NA)   | 20,763            | 128,037              | 14,613             | 31,009               | 82,192             | 220,205  | 128,000                           | 342,926                            | 5,824   | (NA)  | (NA)                                     |
| 1958  | 421                        | 442               | 119  | 21,453            | 119,575              | 15,278             | 30,001               | 78,005             | 188,881  | 111,702                           | 309,797                            | 8,496   | 95  | 91                                       |
| 1957  | (NA)                       | (NA)              | (NA)   | 23,150            | 130,589              | 17,038             | 33,569               | 83,823             | 214,068  | 89,297                            | 295,678                            | 7,570   | (NA)  | (NA)                                     |
| 1956  | (NA)                       | (NA)              | (NA)   | 23,985            | 132,712              | 18,111             | 36,941               | 89,524             | 218,496  | 87,626                            | 287,812                            | 8,748   | (NA)  | (NA)                                     |
| 1955  | (NA)                       | (NA)              | (NA)   | 21,763            | 114,368              | 16,150             | 33,149               | 75,869             | 194,344  | 69,809                            | 251,425                            | 7,240   | (NA)  | (NA)                                     |
| 1954  | 342                        | 358               | 109  | 21,960            | 110,679              | 16,416             | 33,027               | 74,515             | 178,966  | 95,538                            | 276,320                            | 6,634   | 95  | 90                                       |
| 1953  | (NA)                       | (NA)              | (NA)   | 19,554            | 98,554               | 15,011             | (NA)                 | 73,743             | 159,791  | 65,797                            | 225,588                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup>                                   | (NA)                       | (NA)              | (NA)   | 23,461            | 113,806              | 17,173             | (NA)                 | 79,428             | 171,233  | 79,270                            | 250,503                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup>                                   | (NA)                       | (NA)              | (NA)   | 24,421            | 110,813              | 18,265             | (NA)                 | 77,548             | 155,797  | 80,370                            | 236,167                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup>                                   | (NA)                       | (NA)              | (NA)   | 22,298            | 87,535               | 16,679             | (NA)                 | 61,219             | 141,855  | 62,073                            | 203,928                            | (NA)  | (NA)  | (NA)                                     |
| 1949  | (NA)                       | (NA)              | (NA)   | 23,512            | 88,352               | 18,271             | (NA)                 | 61,455             | 148,715  | 63,788                            | 212,503                            | (NA)  | (NA)  | (NA)                                     |
| 1947  | 300                        | 327               | (NA)   | 24,880            | 84,750               | 19,684             | 42,739               | 62,919             | 138,915  | 60,447                            | 199,362                            | (NA)  | 95  | 94                                       |
| 1939  | (NA)                       | 254               | (NA)   | (NA)              | (NA)                 | 9,564              | (NA)                 | 14,903             | 41,137   | 15,419                            | 56,556                             | (NA)  | (NA)  | (NA)                                     |
| 1937  | (NA)                       | 230               | (NA)   | 17,191            | 29,851               | 13,716             | (NA)                 | 22,378             | 57,662   | 20,966                            | 78,628                             | (NA)  | (NA)  | (NA)                                     |
| 1935 <sup>6</sup>                                   | (NA)                       | 238               | (NA)   | 12,935            | 20,484               | 9,884              | (NA)                 | 13,582             | 38,429   | 13,131                            | 51,560                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3559.—SPECIAL INDUSTRY MACHINES, N.E.C.    |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963  | 1,074                      | 1,092             | 388  | 50,226            | 330,127              | 34,063             | 70,932               | 199,400            | 572,236  | 443,993                           | 1,015,014                          | 22,533  | 83  | 74                                       |
| 1962  | (NA)                       | (NA)              | (NA)   | 48,936            | 313,576              | 34,012             | 68,296               | 189,315            | 527,639  | 433,886                           | 961,728                            | 17,669  | (NA)  | (NA)                                     |
| 1961  | (NA)                       | (NA)              | (NA)   | 50,666            | 313,986              | 35,008             | 68,914               | 187,384            | 512,486  | 435,167                           | 960,555                            | 20,000  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup>                                   | (NA)                       | (NA)              | (NA)   | 53,448            | 322,993              | 36,780             | 75,549               | 196,961            | 532,552  | 436,730                           | 955,940                            | 21,644  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup>                                   | (NA)                       | (NA)              | (NA)   | 51,253            | 299,238              | 35,255             | 72,538               | 182,948            | 494,794  | 398,324                           | 873,618                            | 17,202  | (NA)  | (NA)                                     |
| 1958 <sup>7</sup>                                   | 1,025                      | 1,048             | 388  | 50,849            | 273,665              | 34,042             | 67,312               | 163,464            | 431,117  | 320,070                           | 761,077                            | 17,449  | 83  | 77                                       |
| 1957  | (NA)                       | (NA)              | (NA)   | 53,986            | 295,328              | 37,627             | 79,340               | 186,546            | 489,144  | 363,274                           | 837,304                            | (S)   | (NA)  | (NA)                                     |
| 1956  | (NA)                       | (NA)              | (NA)   | 53,649            | 287,434              | 38,602             | 82,695               | 186,357            | 512,756  | 331,364                           | 798,888                            | (S)   | (NA)  | (NA)                                     |
| 1955  | (NA)                       | (NA)              | (NA)   | 47,420            | 237,667              | 33,735             | 71,099               | 150,079            | 390,828  | 254,038                           | 622,970                            | 14,541  | (NA)  | (NA)                                     |
| 1954  | 898                        | 917               | 330  | 47,007            | 218,553              | 33,997             | 69,310               | 141,160            | 353,857  | 244,974                           | 625,053                            | 13,742  | 81  | 73                                       |
| 1947 <sup>1</sup>                                   | (NA)                       | 1,185             | (NA)   | 58,610            | 187,727              | 45,156             | (NA)                 | 134,013            | 294,236  | 189,041                           | 483,275                            | (NA)  | 80  | 78                                       |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: **All employees:** For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** For 1947 and prior years figures represent an average of 12 monthly figures. **Value added:** Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. **Cost of materials:** Cost of materials prior to 1954 excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. **Value of shipments:** Value of shipments for years prior to 1954 excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

n.e.c. Not elsewhere classified.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>The figures for 1939 are not entirely comparable with those for earlier years. Value added by manufacture for 1939 on a basis comparable with 1937 was \$58.9 million for "Food-products machinery." No comparable figures are available for "Woodworking machinery" prior to 1939.

<sup>3</sup>"Food-products machinery" and "Paper-industries machinery" were not shown as separate industries prior to 1937, but were included with the industry formerly designated "Machinery, n.e.c."

<sup>4</sup>The figures for "Textile machinery" for 1937 and earlier years are not entirely comparable with those for later years because they include data for establishments reporting roll covering or re-covering as their major activity. Figures for 1937 include 44 such establishments having \$1.1 million total value of products.

<sup>5</sup>"Textile machinery" was not shown as a separate industry prior to 1919, but was included with the industry formerly designated "Foundry and machine shop products."

<sup>6</sup>Prior to 1935, "Printing-trades machinery" was included among the three discontinued industries "Printers' supplies," "Engravers' materials," and "Foundry and machine shop products." Separate figures are, therefore, not available for earlier years.

<sup>7</sup>The 1957 edition of the Standard Industrial Classification redefined industry 3559 to include establishments primarily engaged in manufacturing electric and fuel-fired nonmetallic processing industrial furnaces, ovens, kilns, and lehrs which were formerly classified in industry 3567, Industrial Furnaces and Ovens. The effect of this change in definition is negligible, amounting to less than one percent both in total number of employees and value of shipments for 1958.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>           | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3551.—FOOD PRODUCTS MACHINERY |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                             | 681            | 279                                | 31,684         | 205,368           | 21,018             | 43,276            | 118,036         | 380,406                              | 255,278           | 640,507            | 11,031                    | 27,715           | 268,639                              |
| New England.....                       | 30             | 9                                  | 2,443          | 16,316            | 1,349              | 2,769             | 7,803           | 27,118                               | 13,496            | 41,937             | 567                       | 3,113            | 29,875                               |
| Massachusetts....                      | 18             | 7                                  | 1,768          | 11,827            | 942                | 2,000             | 5,516           | 20,367                               | 9,282             | 29,819             | 381                       | 2,928            | 27,177                               |
| Middle Atlantic....                    | 138            | 47                                 | 4,093          | 25,485            | 2,699              | 5,712             | 14,736          | 45,321                               | 33,488            | 79,277             | 640                       | 4,584            | 37,804                               |
| New York.....                          | 78             | 25                                 | 2,013          | 12,131            | 1,300              | 2,571             | 6,864           | 20,441                               | 16,100            | 36,872             | 223                       | 2,398            | 22,008                               |
| East North Central.                    | 202            | 97                                 | 13,108         | 89,381            | 8,615              | 17,687            | 50,037          | 182,653                              | 109,772           | 295,052            | 5,400                     | 11,583           | 122,537                              |
| Ohio.....                              | 42             | 21                                 | 3,589          | 23,517            | 2,290              | 4,703             | 13,283          | 44,796                               | 33,618            | 75,728             | 1,246                     | 2,127            | 21,829                               |
| Indiana.....                           | 16             | 5                                  | 587            | 3,421             | 507                | 1,007             | 2,723           | 9,363                                | 5,281             | 13,164             | 504                       | 742              | 6,990                                |
| Illinois.....                          | 83             | 43                                 | 4,269          | 28,799            | 2,897              | 5,883             | 16,967          | 52,455                               | 33,790            | 87,555             | 1,848                     | 4,095            | 38,522                               |
| Michigan.....                          | 21             | 11                                 | 2,340          | 18,563            | 1,408              | 2,884             | 8,173           | 29,708                               | 17,510            | 70,688             | 765                       | 2,227            | 32,659                               |
| Wisconsin.....                         | 40             | 17                                 | 2,323          | 15,081            | 1,513              | 3,210             | 8,891           | 26,331                               | 19,573            | 47,917             | 1,037                     | 2,392            | 22,537                               |
| West North Central.                    | 72             | 30                                 | 3,018          | 18,437            | 2,089              | 4,292             | 10,926          | 30,651                               | 25,675            | 54,735             | 868                       | 2,760            | 27,091                               |
| Minnesota.....                         | 19             | 7                                  | 526            | 2,940             | 343                | 671               | 1,692           | 4,929                                | 3,962             | 9,033              | 120                       | 732              | 6,196                                |
| Iowa.....                              | 17             | 10                                 | 1,084          | 6,224             | 754                | 1,464             | 3,729           | 9,251                                | 9,550             | 17,242             | 382                       | 909              | 9,288                                |
| Missouri.....                          | 21             | 8                                  | 928            | 6,237             | 644                | 1,343             | 3,750           | 11,421                               | 6,930             | 18,265             | 158                       | 670              | 6,404                                |
| Kansas.....                            | 10             | 5                                  | 454            | 2,939             | 330                | 775               | 1,698           | 4,913                                | 5,014             | 9,849              | 193                       | 447              | 5,173                                |
| South Atlantic....                     | 60             | 37                                 | 3,883          | 22,588            | 2,698              | 5,637             | 14,475          | 38,392                               | 29,699            | 70,278             | 1,227                     | 2,303            | 19,729                               |
| Maryland.....                          | 15             | 10                                 | 1,349          | 9,147             | 996                | 2,066             | 6,683           | 17,600                               | 12,356            | 31,849             | 280                       | 1,078            | 10,682                               |
| Georgia.....                           | 15             | 10                                 | 921            | 4,711             | 669                | 1,434             | 2,969           | 7,030                                | 14,372            | 13,262             | 132                       | 648              | 5,287                                |
| Florida.....                           | 17             | 10                                 | 905            | 5,057             | 521                | 1,090             | 2,541           | 8,284                                | 5,458             | 13,690             | 410                       | 277              | 1,252                                |
| East South Central.                    | 12             | 4                                  | 378            | 2,674             | 222                | 462               | 1,380           | 5,764                                | 2,296             | 7,405              | 38                        | 153              | 1,657                                |
| Kentucky.....                          | 7              | 4                                  | 357            | 2,551             | 206                | 429               | 1,280           | 5,595                                | 2,182             | 7,136              | 32                        | 130              | 1,623                                |
| West South Central.                    | 37             | 13                                 | 1,197          | 7,151             | 811                | 1,630             | 3,528           | 11,603                               | 10,131            | 22,017             | 1,011                     | 596              | 4,824                                |
| Louisiana.....                         | 4              | 2                                  | 153            | 905               | 117                | 260               | 629             | 1,451                                | 1,281             | 2,882              | (D)                       | 212              | 1,675                                |
| Texas.....                             | 22             | 7                                  | 856            | 5,424             | 565                | 1,112             | 2,338           | 8,639                                | 7,709             | 16,525             | 831                       | 281              | 2,475                                |
| West.....                              | 130            | 42                                 | 3,564          | 23,336            | 2,535              | 5,087             | 15,151          | 38,904                               | 30,721            | 69,806             | 1,280                     | 2,623            | 25,122                               |
| Washington.....                        | 14             | 5                                  | 241            | 1,432             | 190                | 370               | 1,115           | 2,056                                | 1,615             | 3,634              | 30                        | 104              | 952                                  |
| California.....                        | 99             | 31                                 | 2,660          | 17,495            | 1,828              | 3,712             | 11,178          | 29,333                               | 24,565            | 54,594             | 1,058                     | 2,214            | 21,449                               |
| INDUSTRY 3552.—TEXTILE MACHINERY       |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                             | 561            | 216                                | 36,004         | 196,379           | 26,870             | 56,145            | 129,064         | 314,190                              | 232,271           | 542,684            | 13,870                    | 34,313           | 214,199                              |
| New England.....                       | 138            | 58                                 | 14,260         | 82,268            | 10,131             | 21,510            | 52,327          | 132,277                              | 92,006            | 221,990            | 5,971                     | 16,367           | 98,328                               |
| Vermont.....                           | 9              | 4                                  | 211            | 745               | 162                | 353               | 607             | 1,392                                | 951               | 2,355              | 17                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Massachusetts....                      | 84             | 36                                 | 9,794          | 57,252            | 6,949              | 14,375            | 35,803          | 88,937                               | 68,658            | 156,626            | 4,236                     | 10,178           | 56,971                               |
| Rhode Island.....                      | 28             | 10                                 | 2,250          | 13,238            | 1,467              | 3,185             | 7,606           | 26,475                               | 15,125            | 39,624             | 1,238                     | 1,893            | 15,139                               |
| Middle Atlantic....                    | 171            | 51                                 | 8,707          | 51,426            | 6,836              | 13,815            | 36,547          | 73,054                               | 50,436            | 122,381            | 3,548                     | 8,357            | 55,338                               |
| New York.....                          | 62             | 16                                 | 1,134          | 6,861             | 908                | 1,851             | 4,960           | 12,329                               | 8,011             | 20,072             | 256                       | 931              | 8,297                                |
| New Jersey.....                        | 56             | 13                                 | 1,387          | 8,503             | 1,073              | 2,256             | 5,738           | 12,786                               | 11,650            | 25,022             | 597                       | 1,372            | 11,319                               |
| Pennsylvania.....                      | 53             | 22                                 | 6,186          | 36,062            | 4,855              | 9,708             | 25,849          | 47,939                               | 30,775            | 77,287             | 2,695                     | 6,054            | 35,722                               |
| East North Central.                    | 19             | 4                                  | 1,020          | 6,017             | 584                | 1,223             | 3,352           | 8,901                                | 5,959             | 15,093             | 566                       | 1,044            | 7,482                                |
| Ohio.....                              | 5              | 2                                  | 102            | 625               | 70                 | 149               | 307             | 904                                  | 876               | 2,004              | 17                        | 121              | 1,024                                |
| West North Central.                    | 5              | 1                                  | 42             | 197               | 31                 | 66                | 126             | 314                                  | 375               | 690                | 11                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South.....                             | 219            | 102                                | 11,936         | 56,265            | 9,261              | 19,477            | 36,573          | 99,251                               | 83,188            | 181,832            | 3,754                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| North Carolina...                      | 117            | 55                                 | 5,278          | 25,178            | 3,972              | 8,451             | 15,496          | 44,373                               | 34,613            | 78,210             | 1,401                     | 4,017            | 23,455                               |
| South Carolina...                      | 48             | 25                                 | 4,811          | 22,133            | 3,781              | 7,943             | 14,855          | 38,356                               | 37,666            | 76,459             | 1,554                     | 2,773            | 17,235                               |
| Georgia.....                           | 32             | 13                                 | 1,133          | 5,372             | 951                | 1,952             | 3,704           | 8,801                                | 7,681             | 16,357             | 569                       | 984              | 6,237                                |
| West.....                              | 9              | -                                  | 39             | 206               | 27                 | 54                | 139             | 393                                  | 307               | 698                | 20                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| INDUSTRY 3553.—WOODWORKING MACHINERY   |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                             | 249            | 91                                 | 12,057         | 72,928            | 8,725              | 17,662            | 45,877          | 146,998                              | 110,061           | 252,762            | 4,720                     | 12,219           | 112,936                              |
| New England.....                       | 20             | 5                                  | 511            | 3,098             | 348                | 726               | 1,817           | 4,339                                | 2,825             | 7,401              | 77                        | 1,592            | 11,170                               |
| Middle Atlantic....                    | 25             | 8                                  | 986            | 6,245             | 618                | 1,204             | 3,343           | 8,563                                | 6,684             | 15,281             | 295                       | 1,068            | 11,038                               |
| New York.....                          | 13             | 4                                  | 211            | 1,338             | 168                | 340               | 917             | 2,056                                | 1,121             | 3,234              | 65                        | 187              | 1,205                                |
| East North Central.                    | 74             | 31                                 | 3,247          | 21,309            | 2,372              | 5,004             | 14,133          | 40,955                               | 29,916            | 69,960             | 1,303                     | 3,985            | 33,759                               |
| Ohio.....                              | 11             | 3                                  | 352            | 2,552             | 262                | 584               | 1,611           | 4,820                                | 4,561             | 9,491              | 140                       | 666              | 6,965                                |
| Indiana.....                           | 9              | 6                                  | 260            | 1,556             | 180                | 374               | 1,009           | 3,064                                | 2,825             | 5,856              | 129                       | 223              | 2,149                                |
| Illinois.....                          | 18             | 6                                  | 1,046          | 5,989             | 731                | 1,533             | 3,925           | 12,645                               | 6,702             | 19,459             | 167                       | 1,405            | 9,179                                |
| Michigan.....                          | 21             | 8                                  | 918            | 7,098             | 691                | 1,464             | 4,721           | 12,601                               | 10,330            | 21,827             | 706                       | 741              | 6,307                                |
| Wisconsin.....                         | 15             | 8                                  | 671            | 4,114             | 508                | 1,049             | 2,867           | 7,825                                | 5,498             | 13,327             | 161                       | 950              | 9,159                                |
| West North Central.                    | 12             | 7                                  | 985            | 6,269             | 733                | 1,502             | 4,203           | 10,773                               | 9,582             | 20,299             | 874                       | 271              | 2,283                                |
| South Atlantic....                     | 16             | 8                                  | 985            | 4,506             | 664                | 1,282             | 2,512           | 22,125                               | 12,567            | 33,744             | 455                       | 678              | 11,789                               |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                     | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3553.—WOODWORKING MACHINERY—Continued   |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| East South Central                               | 13             | 6                                  | 837            | 3,178             | 648                | 1,248             | 2,239           | 8,137                                | 7,670             | 16,043             | 255                       | 1,139            | 8,866                                |
| Tennessee.....                                   | 5              | 2                                  | 335            | 1,042             | 267                | 508               | 805             | 1,806                                | 2,220             | 4,045              | 66                        | 585              | 2,786                                |
| West South Central                               | 11             | 5                                  | 365            | 1,966             | 325                | 555               | 1,532           | 4,185                                | 3,147             | 7,408              | 119                       | 207              | 2,496                                |
| Mountain.....                                    | 3              | -                                  | 13             | 55                | 11                 | 23                | 48              | 92                                   | 112               | 209                | 5                         | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pacific.....                                     | 75             | 21                                 | 4,128          | 26,302            | 3,006              | 6,118             | 16,050          | 47,829                               | 37,558            | 82,417             | 1,337                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Washington.....                                  | 20             | 7                                  | 649            | 4,651             | 474                | 907               | 3,067           | 6,424                                | 6,050             | 12,069             | 84                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Oregon.....                                      | 29             | 11                                 | 1,082          | 7,240             | 765                | 1,522             | 4,258           | 18,082                               | 11,065            | 29,191             | 427                       | 829              | 9,036                                |
| California.....                                  | 26             | 3                                  | 2,397          | 14,411            | 1,767              | 3,689             | 8,725           | 23,323                               | 20,443            | 41,157             | 826                       | 1,881            | 17,405                               |
| INDUSTRY 3554.—PAPER INDUSTRIES MACHINERY        |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                       | 217            | 92                                 | 18,605         | 130,614           | 12,914             | 27,233            | 82,299          | 217,475                              | 196,467           | 403,925            | 10,349                    | 15,713           | 123,758                              |
| New England.....                                 | 46             | 22                                 | 4,518          | 31,340            | 2,802              | 6,257             | 16,196          | 52,584                               | 38,462            | 90,446             | 2,250                     | 3,623            | 30,785                               |
| New Hampshire.....                               | 6              | 3                                  | 1,392          | 9,090             | 874                | 1,947             | 4,429           | 16,559                               | 9,451             | 26,169             | 1,077                     | 1,273            | 11,694                               |
| Massachusetts.....                               | 29             | 16                                 | 2,592          | 19,050            | 1,623              | 3,687             | 10,106          | 32,874                               | 25,304            | 57,324             | 1,147                     | 2,209            | 18,126                               |
| Middle Atlantic....                              | 83             | 30                                 | 5,803          | 41,794            | 3,650              | 7,730             | 23,777          | 72,728                               | 57,805            | 126,978            | 2,506                     | 4,820            | 40,132                               |
| New York.....                                    | 41             | 12                                 | 2,544          | 18,162            | 1,570              | 3,305             | 10,239          | 32,048                               | 28,707            | 59,527             | 1,099                     | 2,326            | 17,861                               |
| New Jersey.....                                  | 21             | 9                                  | 1,869          | 14,149            | 1,180              | 2,475             | 8,045           | 24,786                               | 19,447            | 41,682             | 557                       | 1,528            | 13,586                               |
| Pennsylvania.....                                | 21             | 9                                  | 1,390          | 9,483             | 900                | 1,950             | 5,493           | 15,894                               | 9,651             | 25,769             | 850                       | 966              | 6,685                                |
| East North Central                               | 48             | 26                                 | 6,931          | 48,370            | 5,415              | 10,986            | 35,620          | 78,674                               | 89,359            | 162,548            | 4,570                     | 5,537            | 39,659                               |
| Ohio.....  | 12             | 7                                  | 1,425          | 10,372            | 838                | 1,928             | 6,078           | 17,225                               | 13,587            | 31,112             | 686                       | 1,307            | 8,925                                |
| Wisconsin.....                                   | 24             | 15                                 | 5,286          | 36,668            | 4,400              | 8,698             | 28,586          | 59,258                               | 74,287            | 127,714            | 3,833                     | 4,001            | 28,738                               |
| West North Central                               | 7              | 1                                  | 86             | 749               | 70                 | 171               | 564             | 1,098                                | 483               | 1,542              | 99                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South.....                                       | 21             | 8                                  | 777            | 4,908             | 593                | 1,345             | 3,563           | 6,876                                | 7,275             | 14,174             | 763                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pacific.....                                     | 12             | 5                                  | 490            | 3,453             | 384                | 744               | 2,579           | 5,515                                | 8,237             | 8,237              | 161                       | 410              | 4,020                                |
| INDUSTRY 3555.—PRINTING TRADES MACHINERY         |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                       | 490            | 136                                | 22,952         | 159,407           | 16,437             | 34,269            | 104,446         | 285,879                              | 170,723           | 448,398            | 8,911                     | 21,453           | 188,881                              |
| New England.....                                 | 43             | 14                                 | 1,973          | 12,859            | 1,400              | 3,041             | 8,168           | 23,574                               | 13,810            | 36,036             | 1,184                     | 1,892            | 14,221                               |
| Connecticut.....                                 | 14             | 7                                  | 934            | 6,120             | 671                | 1,407             | 4,012           | 12,281                               | 5,309             | 16,528             | 489                       | 799              | 6,561                                |
| Middle Atlantic....                              | 190            | 53                                 | 9,681          | 68,255            | 7,215              | 14,931            | 46,770          | 119,920                              | 64,827            | 183,153            | 2,256                     | 10,746           | 91,807                               |
| New York.....                                    | 105            | 23                                 | 5,356          | 38,066            | 3,973              | 8,227             | 26,679          | 71,696                               | 30,154            | 101,314            | 1,166                     | 6,130            | 55,061                               |
| New Jersey.....                                  | 58             | 17                                 | 2,419          | 17,770            | 1,776              | 3,733             | 11,951          | 28,519                               | 21,481            | 48,252             | 414                       | 2,531            | 22,908                               |
| Pennsylvania.....                                | 27             | 13                                 | 1,906          | 12,419            | 1,466              | 2,971             | 8,140           | 19,705                               | 13,192            | 33,587             | 676                       | 2,085            | 13,838                               |
| East North Central                               | 129            | 45                                 | 8,694          | 61,990            | 6,215              | 13,075            | 40,685          | 110,119                              | 70,102            | 175,851            | 4,464                     | 7,613            | 72,299                               |
| Ohio.....  | 35             | 10                                 | 2,548          | 16,562            | 1,942              | 3,926             | 11,623          | 35,040                               | 23,579            | 57,213             | 1,169                     | 1,953            | 20,218                               |
| Illinois.....                                    | 65             | 28                                 | 5,388          | 40,929            | 3,722              | 8,001             | 26,209          | 65,904                               | 41,888            | 105,287            | 2,692                     | 5,137            | 47,215                               |
| Michigan.....                                    | 18             | 6                                  | 626            | 3,569             | 470                | 984               | 2,404           | 7,622                                | 3,728             | 11,106             | 582                       | 393              | 3,785                                |
| West North Central                               | 36             | 5                                  | 893            | 5,353             | 442                | 871               | 2,060           | 9,699                                | 9,153             | 18,706             | 324                       | 357              | 3,156                                |
| Missouri.....                                    | 16             | 3                                  | 534            | 3,423             | 220                | 426               | 1,010           | 5,591                                | 6,450             | 12,012             | (D)                       | 114              | 900                                  |
| South Atlantic....                               | 19             | 2                                  | 136            | 793               | 96                 | 205               | 450             | 1,530                                | 842               | 2,368              | 24                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| East South Central                               | 9              | 2                                  | 224            | 1,422             | 172                | 331               | 962             | 2,375                                | 2,368             | 4,644              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Kentucky.....                                    | 4              | 2                                  | 198            | 1,285             | 150                | 288               | 856             | 2,037                                | 2,240             | 4,174              | 132                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West South Central                               | 13             | 3                                  | 287            | 2,100             | 198                | 427               | 1,201           | 8,071                                | 3,354             | 10,618             | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Texas.....                                       | 10             | 3                                  | 248            | 1,932             | 175                | 397               | 1,131           | 7,558                                | 3,152             | 9,906              | 236                       | 131              | 1,252                                |
| West.....  | 51             | 12                                 | 1,064          | 6,635             | 699                | 1,388             | 4,150           | 10,601                               | 6,267             | 17,022             | 277                       | 404              | 3,878                                |
| California.....                                  | 46             | 11                                 | 1,010          | 6,275             | 655                | 1,302             | 3,952           | 9,802                                | 6,043             | 16,011             | 271                       | 386              | 3,809                                |
| INDUSTRY 3559.—SPECIAL INDUSTRY MACHINES, N.E.C. |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                       | 1,092          | 388                                | 50,226         | 330,127           | 34,063             | 70,932            | 199,400         | 572,236                              | 443,933           | 1,015,014          | 22,533                    | 50,849           | 431,117                              |
| New England.....                                 | 123            | 39                                 | 8,008          | 53,246            | 5,499              | 10,939            | 32,933          | 84,447                               | 55,794            | 141,480            | 3,521                     | 6,941            | 57,413                               |
| Massachusetts.....                               | 72             | 26                                 | 5,104          | 32,977            | 3,424              | 6,734             | 20,390          | 46,995                               | 28,907            | 78,285             | 2,169                     | 4,163            | 31,659                               |
| Rhode Island.....                                | 7              | 2                                  | 204            | 1,047             | 161                | 318               | 771             | 1,425                                | 717               | 2,144              | 131                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Connecticut.....                                 | 33             | 8                                  | 2,509          | 18,258            | 1,764              | 3,612             | 11,051          | 34,842                               | 25,391            | 59,108             | 1,188                     | 2,327            | 23,276                               |
| Middle Atlantic....                              | 272            | 104                                | 12,999         | 88,373            | 8,530              | 17,950            | 51,810          | 150,175                              | 104,123           | 255,002            | 5,784                     | 14,707           | 118,381                              |
| New York.....                                    | 88             | 23                                 | 3,884          | 26,856            | 2,610              | 5,285             | 16,366          | 48,594                               | 28,182            | 75,391             | 1,068                     | 5,898            | 45,984                               |
| New Jersey.....                                  | 105            | 50                                 | 5,058          | 32,893            | 3,401              | 7,355             | 19,837          | 56,331                               | 42,360            | 99,658             | 2,495                     | 4,331            | 38,928                               |
| Pennsylvania.....                                | 79             | 31                                 | 4,057          | 28,624            | 2,519              | 5,310             | 15,607          | 45,250                               | 33,581            | 79,953             | 2,221                     | 4,478            | 33,469                               |
| East North Central                               | 334            | 141                                | 16,902         | 113,231           | 11,764             | 24,734            | 70,846          | 203,317                              | 171,721           | 376,402            | 6,462                     | 16,107           | 148,802                              |
| Ohio.....  | 123            | 58                                 | 8,242          | 55,512            | 5,795              | 12,132            | 35,438          | 96,474                               | 77,095            | 173,526            | 2,530                     | 8,076            | 69,856                               |
| Indiana.....                                     | 29             | 9                                  | 1,960          | 12,656            | 1,331              | 2,708             | 7,597           | 21,203                               | 13,957            | 34,969             | 1,235                     | 1,741            | 14,427                               |
| Illinois.....                                    | 89             | 30                                 | 2,869          | 19,644            | 1,957              | 4,079             | 12,181          | 34,767                               | 25,294            | 60,191             | 1,052                     | 2,672            | 28,721                               |
| Michigan.....                                    | 68             | 34                                 | 3,005          | 19,859            | 2,129              | 4,653             | 12,596          | 39,512                               | 46,725            | 87,502             | 1,457                     | 2,882            | 28,859                               |
| Wisconsin.....                                   | 25             | 10                                 | 826            | 5,560             | 552                | 1,162             | 3,034           | 11,361                               | 8,650             | 20,214             | 191                       | 736              | 6,939                                |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                               | 1963           |                           |               |          |                    |           |           |                                      |                   |                    | 1958                      |                  |                                      |
|--|----------------|---------------------------|---------------|----------|--------------------|-----------|-----------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                           | All employees |          | Production workers |           |           | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total          | With 20 employees or more | Total         | Payroll  | Total              | Man-hours | Wages     |                                      |                   |                    |                           |                  |                                      |
| (number)   | (number)       | (number)                  | (\$1,000)     | (number) | (1,000)            | (\$1,000) | (\$1,000) | (\$1,000)                            | (\$1,000)         | (\$1,000)          | (number)                  | (\$1,000)        |                                      |
| INDUSTRY 3559.—SPECIAL INDUSTRY MACHINES, N.E.C.—Continued |                |                           |               |          |                    |           |           |                                      |                   |                    |                           |                  |                                      |
| West North Central.  | 48             | 18                        | 1,352         | 7,900    | 897                | 1,871     | 4,624     | 15,738                               | 11,420            | 26,579             | 2,000                     | 1,620            | 11,142                               |
| Minnesota.....   | 11             | 5                         | 303           | 1,963    | 243                | 489       | 1,447     | 3,506                                | 1,286             | 4,702              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Iowa.....  | 13             | 6                         | 460           | 2,594    | 382                | 802       | 1,890     | 4,946                                | 3,686             | 8,588              | (D)                       | 376              | 3,310                                |
| Missouri.....  | 15             | 3                         | 360           | 2,053    | 126                | 253       | 629       | 3,547                                | 4,811             | 8,006              | (D)                       | 825              | 3,824                                |
| South Atlantic.....  | 58             | 24                        | 3,837         | 25,435   | 2,470              | 5,279     | 12,519    | 38,660                               | 33,307            | 71,517             | 2,444                     | 3,993            | 28,341                               |
| Virginia.....  | 5              | 3                         | 175           | 1,009    | 131                | 260       | 600       | 1,641                                | 1,190             | 2,942              | (D)                       | 435              | 1,729                                |
| North Carolina...  | 9              | 3                         | 606           | 3,000    | 470                | 1,021     | 2,024     | 5,201                                | 3,815             | 9,227              | 123                       | 347              | 2,646                                |
| Georgia.....   | 14             | 7                         | 816           | 4,287    | 574                | 1,231     | 2,330     | 8,768                                | 5,740             | 14,062             | 385                       | 1,020            | 8,498                                |
| Florida.....   | 11             | 1                         | 246           | 1,522    | 151                | 343       | 717       | 3,286                                | 2,811             | 5,971              | 70                        | 192              | 803                                  |
| East South Central.  | 30             | 12                        | 1,451         | 8,096    | 1,098              | 2,201     | 5,557     | 17,509                               | 12,347            | 26,398             | 439                       | 1,126            | 8,943                                |
| Tennessee.....   | 14             | 4                         | 328           | 1,825    | 267                | 544       | 1,414     | 3,242                                | 1,705             | 4,940              | 256                       | 225              | 2,035                                |
| Alabama.....   | 5              | 3                         | 868           | 4,803    | 656                | 1,319     | 3,205     | 10,109                               | 6,375             | 14,370             | 75                        | 774              | 5,485                                |
| West South Central.  | 64             | 19                        | 2,847         | 15,526   | 1,854              | 4,043     | 9,126     | 27,373                               | 26,253            | 53,377             | 983                       | 3,159            | 27,726                               |
| Oklahoma.....  | 13             | 3                         | 332           | 1,973    | 248                | 503       | 1,274     | 3,677                                | 3,030             | 6,626              | 118                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Texas.....   | 46             | 12                        | 2,253         | 12,529   | 1,404              | 3,103     | 7,169     | 21,037                               | 20,660            | 41,894             | 765                       | 2,648            | 24,604                               |
| Mountain.....  | 12             | 2                         | 244           | 1,545    | 60                 | 112       | 1,393     | 1,512                                | 5,323             | 7,463              | 105                       | 3,196            | 30,369                               |
| Pacific.....   | 151            | 29                        | 2,586         | 16,775   | 1,891              | 3,803     | 10,592    | 33,505                               | 23,645            | 56,796             | 792                       |                  |                                      |
| Oregon.....  | 12             | 2                         | 330           | 2,221    | 234                | 475       | 1,491     | 4,197                                | 3,496             | 7,643              | 40                        | 254              | 3,062                                |
| California.....  | 125            | 24                        | 1,882         | 12,041   | 1,413              | 2,837     | 7,644     | 25,000                               | 16,287            | 40,994             | 691                       | 2,634            | 22,836                               |

- Represents zero.

(D) Withheld to avoid disclosing figures for individual companies.

n.e.c. Not elsewhere classified.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3551, Food Products Machinery: New England—Maine, 1 (1-19); Vermont, 2 (1-19); Rhode Island, 1 (1-19); Connecticut, 8 (645); Middle Atlantic—New Jersey, 24 (343); Pennsylvania, 36 (1737); West North Central—North Dakota, 1 (1-19); South Dakota, 1 (1-19); Nebraska, 3 (1-19); South Atlantic—Delaware, 1 (1-19); Virginia, 8 (394); North Carolina, 4 (250-499); East South Central—Tennessee, 2 (1-19); Alabama, 1 (1-19); Mississippi, 2 (1-19); West South Central—Arkansas, 4 (20-99); Oklahoma, 7 (104); Mountain—Idaho, 1 (1-19); Colorado, 3 (100-249); Arizona, 1 (1-19); Utah, 2 (100-249); Nevada, 1 (1-19); Pacific—Oregon, 6 (118); Hawaii, 1 (100-249).

SIC 3552, Textile Machinery: New England—Maine, 5 (450); New Hampshire, 5 (1,465); Connecticut, 7 (20-99); East North Central—Illinois, 7 (866); Michigan, 3 (1-19); Wisconsin, 4 (20-99); West North Central—Minnesota, 1 (1-19); Iowa, 2 (1-19); Missouri, 1 (20-99); Nebraska, 1 (1-19); South Atlantic—Delaware, 1 (20-99); Virginia, 3 (20-99); Florida, 4 (20-99); East South Central—Kentucky, 4 (100-249); Tennessee, 4 (399); Alabama, 4 (100); West South Central—Louisiana, 1 (1-19); Texas, 1 (1-19); Mountain—Utah, 1 (1-19); Pacific—Washington, 1 (1-19); Oregon, 1 (1-19); California, 6 (20-99).

SIC 3553, Woodworking Machinery: New England—Maine, 3 (1-19); New Hampshire, 3 (20-99); Massachusetts, 13 (397); Connecticut, 1 (1-19); Middle Atlantic—New Jersey, 3 (261); Pennsylvania, 9 (514); West North Central—Minnesota, 7 (873); Missouri, 5 (112); South Atlantic—Virginia, 1 (1-19); West Virginia, 1 (1-19); North Carolina, 10 (794); South Carolina, 1 (1-19); Georgia, 3 (185); East South Central—Kentucky, 3 (1-19); Alabama, 2 (100-249); Mississippi, 3 (250-499); West South Central—Arkansas, 3 (20-99); Louisiana, 1 (100-249); Texas, 7 (100-249); Mountain—Colorado, 1 (1-19); New Mexico, 1 (1-19); Utah, 1 (1-19).

SIC 3554, Paper Industries Machinery: New England—Maine, 3 (20-99); Rhode Island, 4 (473); Connecticut, 4 (1-19); East North Central—Indiana, 4 (109); Illinois, 4 (20-99); Michigan, 4 (20-99); West North Central—Minnesota, 3 (20-99); Missouri, 2 (1-19); Kansas, 2 (1-19); South Atlantic—Maryland, 4 (461); Virginia, 2 (100-249); West Virginia, 1 (1-19); South Carolina, 1 (1-19); Florida, 5 (20-99); East South Central—Kentucky, 1 (20-99); Alabama, 3 (20-99); West South Central—Arkansas, 1 (20-99); Louisiana, 2 (20-99); Oklahoma, 1 (1-19); Pacific—Washington, 1 (250-499); Oregon, 2 (20-99); California, 8 (196).

SIC 3555, Printing Trades Machinery: New England—New Hampshire, 4 (455); Vermont, 1 (1-19); Massachusetts, 21 (578); Rhode Island, 3 (1-19); East North Central—Indiana, 3 (20-99); Wisconsin, 8 (106); West North Central—Minnesota, 10 (108); Iowa, 5 (20-99); Nebraska, 3 (1-19); Kansas, 2 (100-249); South Atlantic—Maryland, 7 (20-99); District of Columbia, 1 (1-19); North Carolina, 5 (1-19); Georgia, 5 (20-99); Florida, 1 (1-19); East South Central—Tennessee, 3 (1-19); Alabama, 2 (1-19); West South Central—Louisiana, 1 (1-19); Oklahoma, 2 (20-99); Mountain—Colorado, 1 (1-19); New Mexico, 1 (20-99); Arizona, 2 (1-19); Pacific—Oregon, 1 (1-19).

SIC 3559, Special Industry Machines, N.E.C.: New England—Maine, 5 (20-99); New Hampshire, 3 (1-19); Vermont, 3 (128); West North Central—North Dakota, 2 (20-99); South Dakota, 1 (1-19); Kansas, 6 (197); South Atlantic—Delaware, 5 (500-999); Maryland, 7 (1,135); District of Columbia, 1 (1-19); West Virginia, 3 (20-99); South Carolina, 3 (20-99); East South Central—Kentucky, 9 (100-249); Mississippi, 2 (1-19); West South Central—Arkansas, 1 (20-99); Louisiana, 4 (100-249); Mountain—Idaho, 1 (20-99); Colorado, 5 (176); Arizona, 4 (20-99); Utah, 2 (20-99); Pacific—Washington, 13 (250-499); Hawaii, 1 (1-19).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.



TABLE 3. Detailed Statistics: 1963

| Item   | Food products<br>machinery<br>(SIC 3551) | Textile<br>machinery<br>(SIC 3552) | Woodworking<br>machinery<br>(SIC 3553) | Paper industries<br>machinery<br>(SIC 3554) | Printing trades<br>machinery<br>(SIC 3555) | Special industry<br>machines, n.e.c.<br>(SIC 3559) |
|--|--|------------------------------------|--|---|--|--|
| Primary product specialization ratio <sup>1</sup> .....        | .86                                      | .93                                | .77                                    | .88   | .95  | .83  |
| Coverage ratio <sup>2</sup> .....                              | .87                                      | .94                                | .81                                    | .90   | .92  | .74  |
| Establishments, total.....number..                             | 681                                      | 561                                | 249                                    | 217   | 490  | 1,092  |
| With 1 to 19 employees.....do....                              | 402                                      | 345                                | 158                                    | 125   | 354  | 704  |
| With 20 to 99 employees.....do....                             | 203                                      | 156                                | 67                                     | 51  | 86   | 285  |
| With 100 employees or more.....do....                          | 76                                       | 60                                 | 24                                     | 41  | 50   | 103  |
| Proprietors and working partners.....do....                    | 226                                      | 195                                | 90                                     | 49  | 151  | 400  |
| All employees (average for the year).....do....                | 31,684                                   | 36,004                             | 12,057                                 | 18,605                                      | 22,952                                     | 50,226   |
| Payroll (all employees), total for year.....\$1,000..          | 205,368                                  | 196,379                            | 72,928                                 | 130,614                                     | 159,407                                    | 330,127  |
| Production workers:  |  |                                    |  |   |  |  |
| Average for the year.....number..                              | 21,018                                   | 26,870                             | 8,725                                  | 12,914                                      | 16,437                                     | 34,063   |
| March.....do....   | 20,750                                   | 27,001                             | 8,451                                  | 12,786                                      | 16,903                                     | 33,818   |
| May.....do....   | 21,114                                   | 26,989                             | 8,388                                  | 12,913                                      | 16,173                                     | 33,612   |
| August.....do....  | 21,011                                   | 27,078                             | 8,834                                  | 12,731                                      | 15,931                                     | 34,016   |
| November.....do....  | 21,197                                   | 26,412                             | 9,228                                  | 13,226                                      | 16,742                                     | 33,805   |
| Man-hours.....1,000..  | 43,276                                   | 56,145                             | 17,662                                 | 27,233                                      | 34,269                                     | 70,932   |
| January-March.....do....                                       | 10,804                                   | 14,169                             | 4,425                                  | 6,693                                       | 8,899                                      | 17,768   |
| April-June.....do....  | 11,104                                   | 14,343                             | 4,496                                  | 6,882                                       | 8,882                                      | 18,332   |
| July-September.....do....                                      | 10,355                                   | 13,382                             | 4,467                                  | 6,634                                       | 7,727                                      | 17,195   |
| October-December.....do....                                    | 11,013                                   | 14,251                             | 4,274                                  | 7,024                                       | 8,761                                      | 17,637   |
| Wages.....\$1,000..  | 118,036                                  | 129,064                            | 45,877                                 | 82,299                                      | 104,446                                    | 199,400  |
| Cost of materials, etc., total.....do....                      | 255,278                                  | 232,271                            | 110,061                                | 196,467                                     | 170,723                                    | 443,933  |
| Materials, parts, containers, and supplies consumed.....do.... | 204,807                                  | 209,812                            | 94,429                                 | 165,618                                     | 123,152                                    | 353,869  |
| Cost of resales.....do....                                     | 35,443                                   | 12,946                             | 9,379                                  | 22,729                                      | 36,978                                     | 58,568   |
| Fuels consumed.....do....                                      | 1,636                                    | 2,516                              | 941                                    | 1,324                                       | 977  | 3,579  |
| Electric energy:   |  |                                    |  |   |  |  |
| Purchased:   |  |                                    |  |   |  |  |
| Quantity.....million kw.-hrs..                                 | 160                                      | 202                                | 100                                    | 122   | 101  | 324  |
| Cost.....\$1,000..   | 2,673                                    | 3,006                              | 1,375                                  | 1,896                                       | 1,821                                      | 5,096  |
| Generated less sold.....million kw.-hrs..                      | -  | 7                                  | (D)                                    | (D)   | -  | (D)  |
| Contract work.....\$1,000..                                    | 10,719                                   | 3,991                              | 3,937                                  | 4,900                                       | 7,795                                      | 20,781   |
| Value of shipments (including resales), total.....do....       | 640,507                                  | 542,684                            | 252,762                                | 403,925                                     | 448,398                                    | 1,015,014  |
| Value of resales.....do....                                    | 44,426                                   | 17,716                             | 13,427                                 | 29,487                                      | 47,965                                     | 75,739   |
| Value added by manufacture, adjusted.....do....                | 380,406                                  | 314,190                            | 146,998                                | 217,475                                     | 285,879                                    | 572,236  |
| Manufacturers' inventories:                                    |  |                                    |  |   |  |  |
| Beginning of year, total.....do....                            | 156,779                                  | 132,424                            | 47,246                                 | 93,401                                      | 121,987                                    | 240,723  |
| Finished products.....do....                                   | 59,299                                   | 39,657                             | 15,306                                 | 15,222                                      | 39,544                                     | 85,502   |
| Work-in-process.....do....                                     | 58,206                                   | 51,577                             | 20,610                                 | 53,119                                      | 59,073                                     | 88,482   |
| Materials, supplies, fuel, etc.....do....                      | 39,274                                   | 41,190                             | 11,330                                 | 25,060                                      | 23,370                                     | 66,739   |
| End of year, total.....do....                                  | 154,082                                  | 135,260                            | 57,582                                 | 103,239                                     | 129,233                                    | 238,295  |
| Finished products.....do....                                   | 56,195                                   | 41,940                             | 16,678                                 | 17,674                                      | 43,566                                     | 85,539   |
| Work-in-process.....do....                                     | 56,487                                   | 53,071                             | 23,535                                 | 60,684                                      | 63,255                                     | 89,599   |
| Materials, supplies, fuel, etc.....do....                      | 41,400                                   | 40,249                             | 17,369                                 | 24,881                                      | 22,412                                     | 63,156   |
| Expenditures for plant and equipment, total.....do....         | 11,925                                   | 15,180                             | 5,748                                  | 11,948                                      | 9,625                                      | 24,663   |
| New, total.....do....  | 11,031                                   | 13,870                             | 4,720                                  | 10,349                                      | 8,911                                      | 22,533   |
| New structures and additions to plant.....do....               | 3,004                                    | 2,815                              | 1,641                                  | 3,142                                       | 1,273                                      | 5,903  |
| New machinery and equipment.....do....                         | 8,027                                    | 11,055                             | 3,079                                  | 7,207                                       | 7,638                                      | 16,630   |
| Used plant and equipment.....do....                            | 894                                      | 1,310                              | 1,028                                  | 1,599                                       | 714  | 2,130  |
| Selected operating ratios:                                     |  |                                    |  |   |  |  |
| Payroll/Total employment.....                                  | 6,482                                    | 5,454                              | 6,049                                  | 7,020                                       | 6,945                                      | 6,573  |
| Production workers/Total employment.....                       | .66                                      | .75                                | .72                                    | .69   | .72  | .68  |
| Man-hours/Production workers.....                              | 2,058                                    | 2,090                              | 2,024                                  | 2,109                                       | 2,085                                      | 2,082  |
| Production worker wages/Man-hours.....                         | 2.73                                     | 2.30                               | 2.60                                   | 3.02  | 3.05                                       | 2.81   |
| Cost of materials and payrolls/Total value of shipments.....   | .72                                      | .79                                | .72                                    | .81   | .74  | .76  |
| Cost of materials/Total value of shipments.....                | .40                                      | .43                                | .44                                    | .49   | .38  | .44  |
| Adjusted value added/Total employment.....                     | 12,006                                   | 8,727                              | 12,192                                 | 11,689                                      | 12,415                                     | 11,393   |
| Salaries and wages/Adjusted value added.....                   | .54                                      | .63                                | .50                                    | .60   | .56  | .58  |

Note: Detail figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. n.e.c. Not elsewhere classified.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3551.—FOOD PRODUCTS MACHINERY            |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                       | 681                   | 202                                | 105              | 95                 | 142                | 61                 | 53                   | 14                   | 8                    | 1                        | -                        |
| All employees:                                    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                  | 31,684                | 398                                | 717              | 1,327              | 4,610              | 4,350              | 7,791                | 5,134                | <u>7,357</u>         | (D)                      | -                        |
| Payroll.....\$1,000..                             | 205,368               | 2,065                              | 4,059            | 8,370              | 28,580             | 26,836             | 48,815               | 33,783               | <u>52,860</u>        | (D)                      | -                        |
| Value added, adjusted.....do....                  | 380,406               | 4,548                              | 7,355            | 15,654             | 47,407             | 50,795             | 88,289               | 54,158               | <u>112,200</u>       | (D)                      | -                        |
| Value of shipments.....do....                     | 640,507               | 8,502                              | 12,826           | 28,279             | 81,331             | 88,744             | 155,304              | 95,761               | <u>169,760</u>       | (D)                      | -                        |
| Capital expenditures, new....do....               | 11,031                | 132                                | 161              | 359                | 1,066              | 1,555              | 2,957                | 2,517                | <u>2,284</u>         | (D)                      | -                        |
| INDUSTRY 3552.—TEXTILE MACHINERY                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                       | 561                   | 159                                | 92               | 94                 | 116                | 40                 | 34                   | 15                   | 4                    | 5                        | 2                        |
| All employees:                                    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                  | 36,004                | 295                                | 627              | 1,334              | 3,651              | 2,869              | 5,482                | 5,101                | 2,589                | <u>14,056</u>            | (D)                      |
| Payroll.....\$1,000..                             | 196,379               | 1,470                              | 2,948            | 6,821              | 18,864             | 14,323             | 29,505               | 29,177               | 12,865               | <u>80,406</u>            | (D)                      |
| Value added, adjusted.....do....                  | 314,190               | 2,039                              | 5,589            | 11,808             | 31,220             | 24,813             | 48,729               | 45,841               | 24,917               | <u>119,234</u>           | (D)                      |
| Value of shipments.....do....                     | 542,684               | 4,702                              | 9,397            | 21,896             | 52,904             | 44,205             | 85,950               | 86,900               | 37,184               | <u>199,546</u>           | (D)                      |
| Capital expenditures, new....do....               | 13,870                | 125                                | 192              | 379                | 1,188              | 611                | 2,041                | 1,932                | 1,153                | <u>6,249</u>             | (D)                      |
| INDUSTRY 3553.—WOODWORKING MACHINERY              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                       | 249                   | 72                                 | 47               | 39                 | 40                 | 27                 | 15                   | 7                    | 1                    | 1                        | -                        |
| All employees:                                    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                  | 12,057                | 110                                | 321              | 593                | 1,240              | 1,835              | 2,520                | <u>5,438</u>         | (D)                  | (D)                      | -                        |
| Payroll.....\$1,000..                             | 72,928                | 800                                | 1,640            | 3,303              | 7,386              | 11,645             | 16,097               | <u>32,057</u>        | (D)                  | (D)                      | -                        |
| Value added, adjusted.....do....                  | 146,998               | 2,025                              | 3,230            | 7,153              | 12,131             | 20,110             | 23,193               | <u>126,167</u>       | (D)                  | (D)                      | -                        |
| Value of shipments.....do....                     | 252,762               | 4,243                              | 6,072            | 13,002             | 21,684             | 38,420             | 43,174               | <u>126,167</u>       | (D)                  | (D)                      | -                        |
| Capital expenditures, new....do....               | 4,720                 | 95                                 | 94               | 234                | 290                | 1,242              | 726                  | <u>2,039</u>         | (D)                  | (D)                      | -                        |
| INDUSTRY 3554.—PAPER INDUSTRIES MACHINERY         |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                       | 217                   | 53                                 | 32               | 40                 | 36                 | 15                 | 19                   | 16                   | 5                    | -                        | 1                        |
| All employees:                                    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                  | 18,605                | 103                                | 215              | 566                | 1,208              | 1,025              | 3,171                | 5,528                | <u>6,789</u>         | -                        | (D)                      |
| Payroll.....\$1,000..                             | 130,614               | 667                                | 1,237            | 3,494              | 7,867              | 6,829              | 22,438               | 39,877               | <u>48,205</u>        | -                        | (D)                      |
| Value added, adjusted.....do....                  | 217,475               | 922                                | 2,057            | 6,339              | 12,508             | 10,632             | 37,422               | 66,622               | <u>80,973</u>        | -                        | (D)                      |
| Value of shipments.....do....                     | 403,925               | 1,784                              | 3,309            | 9,688              | 22,196             | 18,933             | 68,022               | 116,581              | <u>163,412</u>       | -                        | (D)                      |
| Capital expenditures, new....do....               | 10,349                | 57                                 | 68               | 211                | 451                | 475                | 1,526                | 3,266                | <u>4,295</u>         | -                        | (D)                      |
| INDUSTRY 3555.—PRINTING TRADES MACHINERY          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                       | 490                   | 191                                | 86               | 77                 | 62                 | 24                 | 26                   | 15                   | 8                    | 1                        | -                        |
| All employees:                                    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                  | 22,952                | 360                                | 605              | 1,103              | 1,945              | 1,528              | 4,223                | 5,208                | <u>7,980</u>         | (D)                      | -                        |
| Payroll.....\$1,000..                             | 159,407               | 2,188                              | 3,532            | 6,998              | 12,693             | 9,814              | 28,445               | 35,880               | <u>59,857</u>        | (D)                      | -                        |
| Value added, adjusted.....do....                  | 285,879               | 5,244                              | 6,458            | 12,920             | 23,468             | 20,331             | 51,016               | 61,711               | <u>104,731</u>       | (D)                      | -                        |
| Value of shipments.....do....                     | 448,398               | 8,255                              | 10,081           | 20,788             | 38,933             | 32,139             | 76,126               | 101,755              | <u>160,321</u>       | (D)                      | -                        |
| Capital expenditures, new....do....               | 8,911                 | 149                                | 147              | 337                | 526                | 490                | 2,068                | 1,935                | <u>3,259</u>         | (D)                      | -                        |
| INDUSTRY 3559.—SPECIAL INDUSTRY MACHINERY, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                       | 1,092                 | 324                                | 191              | 189                | 189                | 96                 | 62                   | 23                   | 12                   | 6                        | -                        |
| All employees:                                    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                  | 50,226                | 611                                | 1,287            | 2,589              | 6,022              | 6,538              | 9,453                | 8,003                | 7,847                | 7,876                    | -                        |
| Payroll.....\$1,000..                             | 330,127               | 3,221                              | 7,206            | 15,361             | 38,519             | 42,711             | 60,204               | 53,333               | 54,244               | 55,328                   | -                        |
| Value added, adjusted.....do....                  | 572,236               | 6,867                              | 13,629           | 28,840             | 68,179             | 77,435             | 100,038              | 10,468               | 89,515               | 80,314                   | -                        |
| Value of shipments.....do....                     | 1,015,014             | 12,908                             | 23,319           | 48,963             | 123,540            | 132,835            | 190,948              | 194,965              | 152,061              | 135,475                  | -                        |
| Capital expenditures, new....do....               | 22,533                | 310                                | 511              | 983                | 2,285              | 2,502              | 6,770                | 2,881                | 2,656                | 3,636                    | -                        |

- Represents zero. (D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.  
n.e.c. Not elsewhere classified.



TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                       | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           | A  | B                  | C                | D                  | E                      | F                                    | G                                  | H                     | I                        |                               |
| 3551      | Food products machinery.....1963..             | 640,507            | 450,556          | 71,860             | 118,091                | 86                                   | 517,304                            | 450,556               | 66,748                   | 87                            |
|           | 1958..   | 456,171            | 334,764          | 51,725             | 69,682                 | 87                                   | 399,846                            | 334,764               | 65,082                   | 84                            |
| 3552      | Textile machinery.....1963..                   | 542,684            | 467,902          | 37,869             | 36,913                 | 93                                   | 499,096                            | 467,902               | 31,194                   | 94                            |
|           | 1958..   | 376,340            | 304,233          | 45,058             | 27,049                 | 87                                   | 322,239                            | 304,233               | 18,006                   | 94                            |
| 3553      | Woodworking machinery.....1963..               | 252,762            | 178,873          | 52,281             | 21,608                 | 77                                   | 220,822                            | 178,873               | 41,949                   | 81                            |
|           | 1958..   | 214,376            | 149,808          | 42,438             | 22,130                 | 78                                   | 174,489                            | 149,808               | 24,681                   | 86                            |
| 3554      | Paper industries machinery.....1963..          | 403,925            | 312,775          | 41,922             | 49,228                 | 88                                   | 347,552                            | 312,775               | 34,777                   | 90                            |
|           | 1958..   | 310,179            | 253,624          | 19,442             | 37,113                 | 93                                   | 280,106                            | 253,624               | 26,482                   | 91                            |
| 3555      | Printing trades machinery.....1963..           | 448,398            | 369,476          | 17,710             | 61,212                 | 95                                   | 403,215                            | 369,476               | 33,739                   | 92                            |
|           | 1958..   | 309,797            | 249,845          | 14,650             | 45,302                 | 95                                   | 273,301                            | 249,844               | 23,457                   | 91                            |
| 3559      | Special industry machines,<br>n.e.c.....1963.. | 1,015,014          | 734,336          | 150,390            | 130,288                | 83                                   | 988,355                            | 734,336               | 254,019                  | 74                            |
|           | 1958..   | 761,077            | 558,163          | 114,704            | 88,210                 | 83                                   | 726,212                            | 557,938               | 168,274                  | 77                            |

NOTE: See Introduction for an explanation of terms used.

n.e.c. Not elsewhere classified.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c)

miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                 | Class of products and miscellaneous receipts              | All industries | Food products machinery (SIC 3551) | Special industry machines, n.e.c. (SIC 3559) | Other industries |
|----------------------------------|---|----------------|------------------------------------|--|------------------|
| FOOD PRODUCTS MACHINERY INDUSTRY |   |                |                                    |  |                  |
|                                  | Total shipments receipts of the industry.....             | (X)            | 640,507                            | (X)  | (X)              |
|                                  | Primary products, total,.....                             | 517,304        | 450,556                            | 20,032                                       | 46,716           |
| 35511                            | Dairy and milk products plant machinery and equipment.... | 71,589         | 62,117                             | 490  | 18,982           |
| 35512                            | Commercial food-products machinery.....                   | 117,638        | 100,843                            | 6,307  | 10,486           |
| 35513                            | Other industrial food-products machinery.....             | 300,481        | 260,224                            | 13,235                                       | 227,022          |
| 35510                            | Food-products machinery, n.s.k.....                       | 27,596         | 27,370                             | -  | 226              |
|                                  | Secondary products, total.....                            | (X)            | 71,860                             | (X)  | (X)              |
| 3443-                            | Fabricated plate work.....                                | (X)            | 3,537                              | (X)  | (X)              |
| 3535-                            | Conveyors and conveying equipment.....                    | (X)            | 2,190                              | (X)  | (X)              |
| 3542-                            | Metal forming machine tools.....                          | (X)            | 4,467                              | (X)  | (X)              |
| 3559-                            | Special industry machinery.....                           | (X)            | 319,859                            | (X)  | (X)              |
| 35690                            | General industrial machinery, n.e.c.....                  | (X)            | 10,678                             | (X)  | (X)              |
| 3589-                            | Service industry machines, n.e.c.....                     | (X)            | 2,134                              | (X)  | (X)              |
|                                  | Other secondary products.....                             | (X)            | 428,995                            | (X)  | (X)              |
|                                  | Miscellaneous receipts, total.....                        | (X)            | 118,091                            | (X)  | (X)              |
|                                  | Contract and commission work.....                         | (X)            | 5,704                              | (X)  | (X)              |
|                                  | Sales of products bought and resold.....                  | (X)            | 44,426                             | (X)  | (X)              |
|                                  | Installation work by manufacturing.....                   | (X)            | 5,995                              | (X)  | (X)              |
|                                  | Scrap and salable refuse and repair work.....             | (X)            | 16,221                             | (X)  | (X)              |
|                                  | Other.....  | (X)            | 45,745                             | (X)  | (X)              |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963—Continued

| Prod. class code                      | Class of products and miscellaneous receipts            | All industries | Textile machinery (SIC 3552)      | Other industries    | Prod. class code  | Class of products and miscellaneous receipts                        | All industries                        | Wood-working machinery (SIC 3553)    | Other industries     |
|---------------------------------------|---|----------------|-----------------------------------|---------------------|---|---|---------------------------------------|--------------------------------------|----------------------|
| <b>TEXTILE MACHINERY INDUSTRY</b>     |   |                |                                   |                     | <b>WOODWORKING MACHINERY INDUSTRY—Continued</b>         |   |                                       |                                      |                      |
|                                       | Total shipments and receipts of the industry.....       | (X)            | 542,684                           | (X)                 | Miscellaneous receipts—Continued                        |   |                                       |                                      |                      |
|                                       | Primary products, total.....                            | 499,096        | 467,902                           | 31,194              | Sales of products bought and resold..... (X) 13,427 (X) |   |                                       |                                      |                      |
| 35521                                 | Textile machinery.....                                  | 252,569        | 241,900                           | <sup>5</sup> 10,669 | Repair work..... (X) 2,571 (X)                          |   |                                       |                                      |                      |
| 35522                                 | Parts and attachments for textile machinery.....        | 232,122        | 211,661                           | <sup>6</sup> 20,461 | Other miscellaneous receipts..... (X) 1,444 (X)         |   |                                       |                                      |                      |
| 35520                                 | Textile machinery, n.s.k.....                           | 14,405         | 14,341                            | 64                  |   |   |                                       |                                      |                      |
|                                       | Secondary products, total.....                          | (X)            | 37,869                            | (X)                 |   | All industries  | Paper industries machinery (SIC 3554) | Other industries                     |                      |
| 33214                                 | All other gray iron castings.....                       | (X)            | 4,463                             | (X)                 |   |   |                                       |                                      |                      |
| 3461-                                 | Metal stampings.....                                    | (X)            | 2,026                             | (X)                 |   |   |                                       |                                      |                      |
| 3551-                                 | Food products machinery.....                            | (X)            | 3,056                             | (X)                 |   |   |                                       |                                      |                      |
| 3555-                                 | Printing trades machinery.....                          | (X)            | 3,157                             | (X)                 |   |   |                                       |                                      |                      |
| 35595                                 | Other special industry machinery..                      | (X)            | 5,266                             | (X)                 |   |   |                                       |                                      |                      |
|                                       | Other secondary products.....                           | (X)            | <sup>7</sup> 19,901               | (X)                 | <b>PAPER INDUSTRIES MACHINERY INDUSTRY</b>              |   |                                       |                                      |                      |
|                                       | Miscellaneous receipts, total.....                      | (X)            | 36,913                            | (X)                 |   |   |                                       |                                      |                      |
|                                       | Contract and commission work.....                       | (X)            | 6,725                             | (X)                 | 35540   | Total shipments and receipts of the industry.....                   | (X)                                   | 403,925                              | (X)                  |
|                                       | Sales of products bought and resold.....                | (X)            | 17,716                            | (X)                 |   | Paper industries machinery.....                                     | 347,552                               | 312,775                              | <sup>11</sup> 34,777 |
|                                       | Repair work.....  | (X)            | 5,480                             | (X)                 |   | Secondary products, total.....                                      | (X)                                   | 41,922                               | (X)                  |
|                                       | Installation work by manufacturing plant employees..... | (X)            | 2,734                             | (X)                 | 33214   | All other gray iron castings.....                                   | (X)                                   | 4,095                                | (X)                  |
|                                       | Other.....  | (X)            | 4,258                             | (X)                 | 3559-   | Special industry machinery, n.e.c.....                              | (X)                                   | 14,404                               | (X)                  |
|                                       |   |                |                                   |                     |   | Other secondary products.....                                       | (X)                                   | <sup>12</sup> 23,423                 | (X)                  |
|                                       |   |                |                                   |                     |   | Miscellaneous receipts, total.....                                  | (X)                                   | 49,228                               | (X)                  |
|                                       |   |                |                                   |                     |   | Contract and commission work.....                                   | (X)                                   | 3,542                                | (X)                  |
|                                       |   |                |                                   |                     |   | Sales of products bought and resold.....                            | (X)                                   | 29,487                               | (X)                  |
|                                       |   |                |                                   |                     |   | Other (chiefly sales of scrap and salable refuse and repair work).. | (X)                                   | 16,199                               | (X)                  |
|                                       |   |                |                                   |                     |   |   |                                       |                                      |                      |
|                                       |   | All industries | Wood-working machinery (SIC 3553) | Other industries    |   |   |                                       |                                      |                      |
| <b>WOODWORKING MACHINERY INDUSTRY</b> |   |                |                                   |                     |   |   |                                       |                                      |                      |
|                                       | Total shipments and receipts of the industry.....       | (X)            | 252,762                           | (X)                 |   |   | All industries                        | Printing trades machinery (SIC 3555) | Other industries     |
|                                       | Primary products, total.....                            | 220,822        | 178,873                           | 41,949              |   |   |                                       |                                      |                      |
| 35531                                 | Woodworking machines, except home workshop.....         | 185,987        | 157,506                           | <sup>8</sup> 28,481 |   |   |                                       |                                      |                      |
| 35532                                 | Woodworking machines for home workshop.....             | 28,990         | 15,726                            | <sup>9</sup> 13,264 |   |   |                                       |                                      |                      |
| 35530                                 | Woodworking machines, n.s.k.....                        | 5,845          | 5,641                             | 204                 |   |   |                                       |                                      |                      |
|                                       | Secondary products, total.....                          | (X)            | 52,281                            | (X)                 | 35551   | Total shipments and receipts of the industry.....                   | (X)                                   | 448,398                              | (X)                  |
| 3522-                                 | Farm machinery and equipment.....                       | (X)            | 3,061                             | (X)                 |   | Primary products, total.....  | 403,215                               | 369,476                              | 33,739               |
| 35414                                 | Grinding and polishing machines...                      | (X)            | 2,101                             | (X)                 | 35552   | Printing presses.....   | 137,602                               | 131,747                              | <sup>13</sup> 5,855  |
| 35418                                 | Other machine tools.....                                | (X)            | 8,118                             | (X)                 | 35550   | Other printing trades machinery...                                  | 243,848                               | 216,751                              | <sup>14</sup> 27,097 |
| 35595                                 | Other special industry machinery and equipment.....     | (X)            | 2,461                             | (X)                 |   | Printing trades machinery, n.s.k..                                  | 21,765                                | 20,978                               | 787                  |
|                                       | Other secondary products.....                           | (X)            | <sup>10</sup> 36,540              | (X)                 | 3069-   | Secondary products, total.....                                      | (X)                                   | 17,710                               | (X)                  |
|                                       | Miscellaneous receipts, total.....                      | (X)            | 21,608                            | (X)                 |   | Fabricated rubber products, n.e.c.                                  | (X)                                   | 3,703                                | (X)                  |
|                                       | Contract and commission work.....                       | (X)            | 4,166                             | (X)                 |   | Other secondary products.....                                       | (X)                                   | <sup>15</sup> 14,007                 | (X)                  |
|                                       |   |                |                                   |                     |   | Miscellaneous receipts, total.....                                  | (X)                                   | 61,212                               | (X)                  |
|                                       |   |                |                                   |                     |   | Contract and commission work.....                                   | (X)                                   | 2,363                                | (X)                  |
|                                       |   |                |                                   |                     |   | Sales of products bought and resold.....                            | (X)                                   | 47,965                               | (X)                  |
|                                       |   |                |                                   |                     |   | Other (chiefly sales of scrap and salable refuse and repair work).. | (X)                                   | 10,884                               | (X)                  |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code | Class of products and miscellaneous receipts                | All industries | Special industry machines, n.e.c. (SIC 3559) | Other industries | Prod. class code | Class of products and miscellaneous receipts                         | All industries | Special industry machines, n.e.c. (SIC 3559) | Other industries |
|------------------|---|----------------|--|------------------|------------------|--|----------------|--|------------------|
|                  | SPECIAL INDUSTRY MACHINES INDUSTRY                          |                |  |                  |                  | SPECIAL INDUSTRY MACHINES INDUSTRY—Continued                         |                |  |                  |
|                  | Total shipments and receipts of the industry.....           | (X)            | 1,015,014                                    | (X)              |                  | Secondary products—Continued   |                |  |                  |
|                  | Primary products, total.....                                | 988,355        | 734,336                                      | 254,019          | 35512            | Commercial food products machinery.....                              | (X)            | 6,307  | (X)              |
| 35591            | Chemical manufacturing industry machinery.....              | 152,371        | 106,863                                      | 164,508          | 35513            | Other industrial food products machinery.....                        | (X)            | 13,235                                       | (X)              |
| 35592            | Foundry machinery.....                                      | 89,569         | 78,447                                       | 171,122          | 35540            | Paper industries machinery and parts and attachments.....            | (X)            | 11,172                                       | (X)              |
| 35593            | Plastics-working machinery.....                             | 137,082        | 103,214                                      | 183,868          | 35690            | General industrial machinery, n.e.c.....                             | (X)            | 15,854                                       | (X)              |
| 35594            | Rubber-working machinery.....                               | 76,759         | 66,608                                       | 191,151          | 35990            | Carburetors, pistons, and other machine shop products.....           | (X)            | 2,998  | (X)              |
| 35595            | Other special industrial machinery                          | 500,225        | 347,358                                      | 201,522          |                  | Other secondary products.....  | (X)            | 21,793                                       | (X)              |
| 35590            | Special industrial machinery, n.s.k.....                    | 32,349         | 31,846                                       | 503              |                  | Miscellaneous receipts, total.....                                   | (X)            | 130,288                                      | (X)              |
|                  | Secondary products, total.....                              | (X)            | 150,390                                      | (X)              |                  | Contract work.....   | (X)            | 21,587                                       | (X)              |
| 33214            | All other gray iron castings.....                           | (X)            | 3,892  | (X)              |                  | Miscellaneous receipts (repair installation, and sales of scrap)     | (X)            | 32,962                                       | (X)              |
| 34432            | Fabricated steel plate, including stacks and weldments..... | (X)            | 2,454  | (X)              |                  | Sales of products bought and resold without further manufacture..... | (X)            | 75,739                                       | (X)              |
| 34990            | Fabricated metal products, n.e.c..                          | (X)            | 3,781  | (X)              |                  |  |                |  |                  |
| 35423            | Other metal forming machine tools.                          | (X)            | 8,451  | (X)              |                  |  |                |  |                  |
| 35442            | Industrial molds.....                                       | (X)            | 2,859  | (X)              |                  |  |                |  |                  |

- Represents zero. (X) Not applicable.

n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>The following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: 3443, Boiler Shop Products, and 3522, Farm Machinery and Equipment.<sup>2</sup>The following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing individual company figures: 3532, Mining Machinery and Equipment.<sup>3</sup>Includes chemical manufacturing industries machinery and equipment (product class 35591) valued at \$13,511 thousand.<sup>4</sup>Includes the following product class which totaled \$2 million or more but is withheld to avoid disclosing individual company figures: 3554, Paper Industries Machinery.<sup>5</sup>The following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3541, Metal-Cutting Machine Tools, and 3559, Special Industry Machines, N.E.C.<sup>6</sup>The following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3531, Construction Machinery, and 3717, Motor Vehicles and Parts.<sup>7</sup>Includes the following product classes which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: 34990, Fabricated metal products, n.e.c., and 35790, Addressing, dictating, duplicating and other office machines, n.e.c.<sup>8</sup>Includes \$9,157 thousand shipped by industry 3541, Metal-Cutting Machine Tools. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3522, Farm Machinery and Equipment; 3531, Construction Machinery; and, 3542, Metal-Forming Machine Tools.<sup>9</sup>The following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing figures for individual companies: industry 3621, Motors and Generators.<sup>10</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 33214, All other gray iron castings; 35422, Special industrial fasteners; 35195, Outboard motors; 35197, Parts and accessories for internal combustion engines; and, 37176, Parts and accessories for passenger cars, trucks and buses shipped to other than motor vehicle manufacturers.<sup>11</sup>Includes \$11,217 thousand shipped by industry 3559, Special Industry Machines, N.E.C. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: industry 3315, Steel Wire Drawing, Etc.; industry 3551, Food Products Machinery; and, industry 3731, Ship Building and Repairing.<sup>12</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 34819, Other fabricated wire products, not produced by wire drawers; 35551, Printing presses; 35663, Other mechanical power-transmission equipment; and 35690, General industrial machinery, n.e.c.<sup>13</sup>The following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3552, Textile Machinery, and 3554, Paper Industries Machinery.<sup>14</sup>Includes \$5,543 thousand shipped by industry 3069, Rubber Products, N.E.C. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3011, Tires and Inner Tubes, 3551, Copper Rolling and Drawing, and 3622, Industrial Controls, 3572, Typewriters.<sup>15</sup>Includes the following product classes which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: 3552, Textile Machinery, and 35790, Office machines, n.e.c.<sup>16</sup>Includes shipments for the specified amounts (in thousands) for the following industries: \$2,996 by industry 3443, Boiler Shop Products; \$13,511 by industry 3551, Food Products Machinery. In addition, the following industries each shipped \$2 million or more, but are withheld to avoid disclosing figures for individual companies: 3536, Hoists, Cranes and Monorails; 3554, Paper Industries Machinery; 3567, Industrial Furnaces and Ovens; and 3742, Railroad and Street Cars.<sup>17</sup>Over \$2 million was shipped by industry 3541, Metal-Cutting Machine Tools. The exact figure is withheld to avoid disclosing data for individual companies.<sup>18</sup>Includes \$16,489 thousand from industry 3541, Metal-Cutting Machine Tools. In addition, over \$2 million was shipped by industry 3554, Paper Industries Machinery.<sup>19</sup>Over \$2 million was shipped by industry 3544, Special Dies and Tools. The exact figure is withheld to avoid disclosing data for individual companies.<sup>20</sup>Includes shipments for the specified amounts (in thousands) for the following industries: \$4,676 by industry 3443, Boiler Shop Products; \$5,227 by industry 3535, Elevators and Moving Stairways; \$4,040 by industry 3548, Metalworking Machinery; \$3,243 by industry 3551, Food Products Machinery; \$5,266 by industry 3552, Textile Machinery; \$2,461 by industry 3553, Woodworking Machinery; \$9,843 by industry 3567, Industrial Furnaces and Ovens; \$2,007 by industry 3569, General Industry Machines, N.E.C.; \$3,010 by industry 3599, Miscellaneous Machinery; and, \$3,984 by industry 3731, Ship Building and Repairing. In addition each of the following industries reported more than \$2 million: 1999, Ordnance and Accessories, N.E.C.; 3211, Flat Glass, 3356, Rolling and Drawing, N.E.C.; 3532, Mining Machinery and Equipment; 3545, Machine Tool Accessories; 3585, Refrigeration Machinery; 3586, Measuring and Dispensing Pumps; 3641, Electric Lamps; 3661, Telephone; Telegraph Apparatus; 3674, Semiconductors; 3861, Photographic Equipment.<sup>21</sup>Includes shipments of over \$2 million for each of the following product classes: 32914, Metal abrasives; 33220, Malleable iron castings; 35414, Grinding and polishing machines; 35422, Presses including forging presses; 35521, Textile machinery; 35642, Dust collection, air purification equipment and air washers; 37292, Guided missile components and subassemblies, n.e.c.; and, 38213, Industrial process instruments.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product  | Unit of measure | Total shipments including interplant transfers |                 |                  |                     |
|--------------|--|-----------------|--|-----------------|------------------|---------------------|
|              |  |                 | 1963   |                 | 1958             |                     |
|              |  |                 | Quantity                                       | Value (\$1,000) | Quantity         | Value (\$1,000)     |
| 3551- --     | FOOD PRODUCTS MACHINERY, TOTAL.....  |                 | (X)  | 517,304         | (X)              | 399,846             |
| 35511 --     | Dairy and milk product plant machinery and equipment, including dairy bottling machines, total.....  |                 | (X)  | 71,589          | (X)              | 64,611              |
| 35511 11     | Fluid milk bottling filling, packaging and capping machines (glass, paper and other materials).....  |                 | (X)  | 13,166          | (X)              | 9,154               |
| 35511 12     | Butter, cheese, dry milk, and ice cream packaging machines.....  | No. of units.   | 718  | 4,772           | (X)              | ( <sup>1</sup> )    |
| 35511 13     | Uncasers and casers.....   | ..do.....       | 347  | 4,685           | (X)              | ( <sup>1</sup> )    |
| 35511 14, 16 | Washing, sterilizing, capping, and other dairy bottling machines.....  |                 | (X)  | 3,923           | (X)              | 6,849               |
| 35511 43     | Pasteurizers.....  | No. of units.   | 497  | 3,921           | (NA)             | 6,244               |
| 35511 51     | Homogenizers.....  | ..do.....       | 288  | 1,842           | 398              | 2,613               |
| 35511 73     | Ice cream freezers.....  | ..do.....       | 4,955  | 11,789          | (NA)             | 2,947               |
| 35511 83     | Butter and cheese processing plant machinery and equipment.....  | ..do.....       | 755  | 3,266           | (NA)             | 1,966               |
| 35511 91     | Dry milk processing plant machinery and equipment.....   | ..do.....       | 58   | 4,642           |                  |                     |
| 35511 98     | Other dairy and milk products processing plants machinery and equipment, including cream separators (capacity over 1,500 pounds per hour).....   |                 | (X)  | 18,193          | (X)              | 132,261             |
| 35511 00     | Dairy and milk products plant machinery and equipment, including dairy bottling machines, n.s.k.....   |                 | (X)  | 1,390           | (X)              | 2,577               |
| 35512 --     | Commercial food-products machinery, total <sup>2</sup> .....   |                 | (X)  | 117,638         | (X)              | 100,980             |
| 35512 11     | Slicers.....   | No. of units.   | 20,511   | 9,774           | 21,849           | 7,472               |
| 35512 21     | Choppers, grinders, cutters, dicers, and similar machines.....   | ..do.....       | 35,174   | 15,134          | 34,584           | 11,527              |
| 35512 25     | Tenderizers.....   | ..do.....       | 6,131  | 1,053           | 7,943            | 1,315               |
| 35512 31     | Mixers and whippers (except drink mixers).....   | ..do.....       | 13,706   | 10,956          | 10,739           | 7,487               |
| 35512 41     | Parts and attachments for commercial food-preparation machines.....  |                 | (X)  | 10,080          | (X)              | 4,995               |
| 35512 51     | Other commercial food-preparation machines, power-driven.....  |                 | (X)  | 12,705          | (X)              | 8,474               |
| 35512 61     | Bakery machinery and equipment:  |                 |  |                 |                  |                     |
|              | Dough mixers.....  | No. of units.   | 5,476  | 3,508           | (NA)             | 6,584               |
|              | Bake ovens:  |                 |  |                 |                  |                     |
| 35512 71     | Traveling tray.....  | ..do.....       | 106  | 4,584           | 274              | 5,126               |
| 35512 75     | Other.....   | ..do.....       | 1,373  | 5,230           | 560              | 3,085               |
| 35512 81     | Slicing machines <sup>3</sup> .....  | ..do.....       | 1,405  | 2,422           | 747              | 1,176               |
| 35512 85     | Wrapping machines <sup>3</sup> .....   | ..do.....       | 314  | 4,568           | 231              | 2,979               |
| 35512 87     | Continuous bread making equipment.....   |                 | (X)  | 4,318           |                  |                     |
| 35512 91     | Other bakery machinery and equipment.....  |                 | (X)  | 28,597          | (X)              | 25,890              |
| 35512 00     | Commercial food products machinery, n.s.k.....   |                 | (X)  | 4,709           | (X)              | 14,870              |
| 35513 --     | Other industrial food-products machinery, including parts and attachments for all types of industrial food products machinery, total.....  |                 | (X)  | 300,481         | (X)              | 210,790             |
| 35513 11     | Meat- and poultry-packing plant machinery and equipment, including killing, dehairing, stuffing, cooking, rendering, cutting, pressing, grinding, chopping, and canning machines, etc..... |                 | (X)  | 32,696          | (X)              | 26,439              |
|              | Fruit- and vegetable-canning and packing machinery:  |                 |  |                 |                  |                     |
| 35513 23     | Preparation machinery.....   |                 | (X)  | 17,018          | (X)              | 12,556              |
| 35513 25     | Wrapping, filling and sealing machinery.....   |                 | (X)  | 6,685           | (X)              | 8,640               |
| 35513 27     | Packing machinery.....   | No. of units.   | 759  | 5,539           | (X)              | 12,857              |
| 35513 29     | All other fruit- and vegetable-canning machinery.....  |                 | (X)  | 12,765          |                  |                     |
|              | Flour mill and grain mill machinery:   |                 |  |                 |                  |                     |
| 35513 33     | Packing and packaging machinery.....   |                 | (X)  | 32,637          | (X)              | 35,244              |
| 35513 39     | Other flour mill and grain mill machinery.....   |                 |  |                 |                  |                     |
|              | Sugar plant machinery, including cane and beet mills, crushers, pulverizers, crystalizers, granulators, etc:   |                 |  |                 |                  |                     |
| 35513 43     | Packing and packaging machinery.....   |                 | (X)  | 13,783          | (X)              | 18,617              |
| 35513 49     | Other sugar-plant machinery.....   |                 | (X)  | 11,265          |                  |                     |
|              | Other industrial food products machinery:  |                 |  |                 |                  |                     |
| 35513 53     | Packing and packaging machinery.....   |                 | (X)  | 30,884          | (X)              | 29,069              |
| 35513 59     | Other industrial food products machinery.....  |                 | (X)  | 37,731          |                  |                     |
|              | Bottling machinery for foods (except dairy products), liquor, beer, wine, and other beverages:   |                 |  |                 |                  |                     |
| 35513 65     | Filling, capping and labeling machines.....  | No. of units.   | 1,798  | 27,401          | <sup>4</sup> 658 | 48,686              |
| 35513 66     | Uncasers and casers.....   | ..do.....       | 445  | 3,452           | (X)              | ( <sup>5</sup> )    |
| 35513 67     | Bottle washers and sterilizers.....  | ..do.....       | 380  | 11,409          | 225              | 8,009               |
| 35513 61, 69 | Carbonators (beverage bottling) and other food bottling machinery except dairy.....  |                 | (X)  | 15,121          | (X)              | <sup>5</sup> 19,120 |
| 35513 81     | Parts and attachments for industrial food-products machinery.....  |                 | (X)  | 33,161          | (X)              | 19,434              |
| 35513 00     | Other industrial food products machinery, including parts and attachments for all types of industrial food products machinery, n.s.k.....  |                 | (X)  | 8,934           | (X)              | 12,119              |
| 35510 00     | Food products machinery, n.s.k.....  |                 | (X)  | 27,596          | (X)              | 23,465              |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure            | Total shipments including interplant transfers |                 |          |                 |
|--------------|--|----------------------------|--|-----------------|----------|-----------------|
|              |  |                            | 1963   |                 | 1958     |                 |
|              |  |                            | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 3552- --     | TEXTILE-INDUSTRIES MACHINERY, TOTAL.....   |                            | (X)  | 499,096         | (X)      | 322,239         |
| 35521 --     | Textile machinery, total.....  |                            | (X)  | 252,569         | (X)      | 143,720         |
|              | Fiber-to-fabric textile machinery (except parts, attachments, and accessories):  |                            |  |                 |          |                 |
|              | Cleaning and opening machinery:  |                            |  |                 |          |                 |
| 35521 13     | Picker machines.....   | Number.....                | 791  | 2,838           | 618      | 1,989           |
| 35521 19     | Garnetting and other.....  | ..do.....                  | 271  | 1,465           | (NA)     | 2,565           |
| 35521 22     | Carding machines.....  | ..do.....                  | 451  | 3,311           | 265      | 2,422           |
| 35521 32     | Combing machines.....  | ..do.....                  | (6)  | (6)             | 236      | 2,774           |
| 35521 36     | Drawing and roving frames.....   | ..do.....                  | 1,701  | 16,289          | 1,168    | 11,057          |
|              | Spinning and twisting frames:  |                            |  |                 |          |                 |
| 35521 42     | Spinning frames.....   | ..do.....                  | 2,636  | 29,101          | 852      | 11,172          |
| 35521 46     |  | Total no. of spindles..... | 756,346  | (X)             | 166,840  | (X)             |
| 35521 47     | Twisting frames.....   | Number.....                | 711  | 11,979          | 552      | 7,874           |
| 35521 48     |  | Total no. of spindles..... | 85,885   | (X)             | 72,313   | (X)             |
|              | Yarn preparing machines:   |                            |  |                 |          |                 |
| 35521 51     | Winding machines (skein, spool, bobbin, quill, cone, etc.)...  | Number.....                | 1,016  | 13,830          | 409      | 5,641           |
| 35521 53     | Other yarn-preparing machines (beaming, warping, warp tying, warp drawing-in, splashing, etc.).....  | .....                      | (X)  | 6,509           | (X)      | 8,821           |
| 35521 55     | Other fiber-to-fabric machinery.....   | .....                      | (X)  | 619,241         | (X)      | 4,183           |
|              | Fabric machinery (except parts, attachments, and accessories):   |                            |  |                 |          |                 |
|              | Power looms (including looms operating without shuttle):   |                            |  |                 |          |                 |
| 35521 64     | Cotton and synthetic broadlooms, except carpet.....  | Number of looms            | (7)  | (7)             | (NA)     | 10,620          |
| 35521 68     | All other power looms.....   | ..do.....                  |  |                 |          |                 |
|              | Knitting machines:   |                            |  |                 |          |                 |
| 35521 72     | Hosiery (circular and full fashioned).....   | Number.....                | 5,655  | 22,011          | 5,184    | 20,486          |
| 35521 75     | Other knitting machines.....   | ..do.....                  | 1,660  | 17,216          | 964      | 6,892           |
| 35521 84     | Other fabric machinery (including lace, embroidery, braiding, and tufting machinery, and hand looms).....  | .....                      | (NA)   | 746,199         | (X)      | 4,525           |
| 35521 85     | Bleaching, dyeing, and finishing machinery.....  | .....                      | (X)  | 28,080          | (X)      | 11,127          |
| 35521 87     | Machinery for drying stocks, yarns, cloth, etc.....  | .....                      | (X)  | 7,950           | (X)      | 4,419           |
| 35521 98     | Other textile industries machinery, n.e.c., (except parts, attachments, and accessories).....  | .....                      | (X)  | 23,503          | (X)      | 17,759          |
| 35521 00     | Textile machinery, n.s.k.....  | .....                      | (X)  | 3,047           | (X)      | 9,394           |
| 35522 --     | Parts and attachments for textile machinery.....   | .....                      | (X)  | 232,122         | (X)      | 168,737         |
|              | Textile-industries machinery, parts, attachments, and accessories:   |                            |  |                 |          |                 |
| 35522 11     | Textile machinery turnings and shapes (bobbins, shuttles, spools, picker sticks, etc.).....  | .....                      | (X)  | 38,196          | (X)      | 23,939          |
|              | Parts, attachments, and accessories for fiber-to-fabric machinery:   |                            |  |                 |          |                 |
| 35522 22     | Card clothing.....   | 1,000 sq. ft...            | 1,912  | 9,330           | 1,747    | 7,121           |
| 35522 31     | Other parts, attachments, and accessories for fiber-to-fabric machinery, except card clothing.....   | .....                      | (X)  | 47,425          | (X)      | 38,980          |
| 35522 41     | Parts, attachments, and accessories for power looms.....   | .....                      | (X)  | 66,210          | (X)      | 38,588          |
| 35522 45     | Parts, attachments, and accessories for knitting machines, excluding needles.....  | .....                      | (X)  | 10,677          | (X)      | 11,168          |
| 35522 53     | Parts, attachments, and accessories for fabric machinery (except parts, attachments, and accessories for power looms and knitting machines)..... | .....                      | (X)  | 6,808           | (X)      | 7,730           |
| 35522 71     | Parts, attachments, and accessories for bleaching, dyeing, and finishing machinery.....  | .....                      | (X)  | 7,655           | (X)      | 6,135           |
| 35522 98     | Textile-industries machinery parts, attachments, and accessories, n.e.c.....   | .....                      | (X)  | 40,585          | (X)      | 26,240          |
| 35522 00     | Parts and attachments for textile machinery, n.s.k.....  | .....                      | (X)  | 5,236           | (X)      | 8,836           |
| 35520 00     | Textile-industries machinery, including parts and attachments, n.s.k.....  | .....                      | (X)  | 14,405          | (X)      | 9,782           |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                 |          |                 |
|--------------|---|-----------------|--|-----------------|----------|-----------------|
|              |   |                 | 1963   |                 | 1958     |                 |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 3553--       | WOODWORKING MACHINERY, TOTAL.....   |                 | (X)  | 220,822         | (X)      | 174,489         |
| 35531--      | Woodworking machinery (except machinery designed primarily for home work shops, garages, and service shops), total.....   |                 | (X)  | 185,987         | (X)      | 145,078         |
| 35531 12     | Sawmill equipment.....  |                 | (X)  | 22,398          | (X)      | 15,780          |
| 35531 15     | Veneer and plywood-making; wood box and crate-making machinery..  |                 | (X)  | 13,828          | (X)      | 7,954           |
| 35531 62     | Sawing machines (except sawmill equipment and chain saws):  |                 |  |                 |          |                 |
|              | Quantity reported.....  | No. of units..  | 22,774   | 9,415           | 39,635   | 10,744          |
|              | Quantity not reported.....  |                 | (X)  | 1,878           | -        | -               |
| 35531 67     | Chain saws.....   | No. of units..  | 392,766  | 45,963          | 329,164  | 43,867          |
| 35531 71     | Jointers, matchers, molders, mortisers, shapers, and tenoners (except power-driven hand-held tools).....  |                 | (NA)   | 11,326          | (NA)     | 8,221           |
| 35531 81     | Parts, attachments, and accessories for woodworking machinery (sold separately).....  |                 | (X)  | 53,769          | (X)      | 38,521          |
| 35531 98     | Other woodworking machinery (except power-driven hand-held tools), including lathes, planing machines, and surfacing machines, except hand-held, n.s.k.....                                   |                 | (X)  | 25,662          | (X)      | 12,515          |
| 35531 00     | Woodworking machinery (except machinery designed primarily for home workshops, garages, and service shops), including parts, attachments, and accessories.....                                |                 | (X)  | 1,748           | (X)      | 7,476           |
| 35532--      | Woodworking machinery (designed primarily for home workshops, garages, and service shops) (excluding power-driven hand tools), total  |                 | (X)  | 28,990          | (X)      | 25,685          |
| 35532 21     | Saws, including circular:   |                 |  |                 |          |                 |
|              | Quantity reported.....  | No. of units..  | 196,953  | 17,555          | 249,251  | 14,439          |
|              | Quantity not reported.....  |                 | (X)  | 1,969           | -        | -               |
| 35532 81     | Parts, attachments, and accessories for machine tools and wood-working machines designed primarily for home workshops, etc. (sold separately) (except parts for power-driven hand tools)...   |                 | (X)  | 3,595           | (X)      | 3,116           |
| 35532 98     | Other machine tools and woodworking machines designed primarily for home workshops, etc. (except power-driven hand tools), including lathes, drilling machines, jointers, planers and shapers |                 | (X)  | 5,871           | (X)      | 6,693           |
| 35532 00     | Woodworking machinery (designed primarily for home workshops, garages, and service shops) (excluding power-driven hand tools), n.s.k.....   |                 | (X)  | -               | (X)      | 1,437           |
| 35530 00     | Woodworking machinery, n.s.k.....   |                 | (X)  | 5,845           | (X)      | 3,726           |
| 3554--       | PAPER-INDUSTRIES MACHINERY, TOTAL.....  |                 | (X)  | 347,552         | (X)      | 280,106         |
| 35540 11     | Pulp- and paper-industries machinery (new):   |                 |  |                 |          |                 |
|              | Wood preparation equipment (including barkers, chippers, knotters, splitters, chipscreens, etc.).....   |                 | (X)  | 2,170           | (X)      | 1,826           |
|              | Pulp mill machinery:  |                 |  |                 |          |                 |
| 35540 21     | Grinders.....   | No. of units..  | 325  | 7,431           | 99       | 2,879           |
| 35540 25     | Deckers, thickeners, wet lap machines, bleaching equipment, pulp screens, washers, and savealls.....  |                 | (X)  | 21,022          |          |                 |
| 35540 29     | Other pulp mill machinery including digesters and recovery room equipment.....  |                 | (X)  | 6,216           | (X)      | 18,564          |
|              | Paper mill machinery:   |                 |  |                 |          |                 |
| 35540 31     | Beaters, jordans, and other stock preparation.....  |                 | (X)  | 20,329          | (X)      | 15,179          |
|              | Paper machines:   |                 |  |                 |          |                 |
| 35540 41     | Fourdriniers including yankee machines.....   | No. of units..  | 45   | 49,519          | 39       | 63,201          |
| 35540 45     | Calenders including super calenders.....  | ..do.....       | 49   | 5,999           | 10       | 2,131           |
| 35540 43     | Cylinders.....  |                 |  |                 |          |                 |
| 35540 49     | Other paper machinery, including forming and finishing machinery, but excluding calenders.....  |                 | (X)  | 41,802          | (X)      | 38,600          |
|              | Paper and paperboard converting equipment:  |                 |  |                 |          |                 |
| 35540 51     | Bagmaking machines including shipping sack machines.....  | No. of units..  | 817  | 9,007           | 1,236    | 13,334          |
| 35540 52     | Envelope making machines.....   | ..do.....       |  |                 |          |                 |
| 35540 53     | Corrugated boxmaking machines.....  | ..do.....       | 1,234  | 24,696          | 1,265    | 17,634          |
| 35540 54     | Box, carton, and shipping container making machines (except corrugated box machines).....   | ..do.....       | 1,025  | 13,080          | 840      | 6,850           |
| 35540 56     | Toilet roll and napkin making machines.....   | ..do.....       | 129  | 7,012           | 125      | 3,230           |
| 35540 59     | Other paper and paperboard converting equipment, including drum, can, and tube making machines.....   |                 | (X)  | 32,890          | (X)      | 19,025          |
|              | Rebuilt pulp- and paper-industries machinery:   |                 |  |                 |          |                 |
| 35540 71     | Rebuilt paper machines including fourdriniers, yankees, cylinders, and forming machines.....  |                 | (X)  | 51,126          | (X)      | 16,872          |
| 35540 75     | Other rebuilt pulp- and paper-industries machinery.....   |                 | (X)  | 1,973           | (X)      | 3,257           |
| 35540 81     | Parts and attachments for pulp mill, paper mill, and paper converting machinery and equipment (sold separately).....  |                 | (X)  | 44,851          | (X)      | 43,329          |
| 35540 00     | Paper-industries machinery, n.s.k.....  |                 | (X)  | 8,429           | (X)      | 14,195          |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure              | Total shipments including interplant transfers |                 |          |                 |         |
|--------------|---|------------------------------|--|-----------------|----------|-----------------|---------|
|              |   |                              | 1963   |                 | 1958     |                 |         |
|              |   |                              | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |         |
| 3555--       | PRINTING TRADES MACHINERY AND EQUIPMENT, TOTAL.....   |                              | (X)  | 403,215         | (X)      | 273,301         |         |
| 35551--      | Printing presses, total.....  |                              | (X)  | 137,602         | (X)      | 94,200          |         |
|              | Presses:  |                              |  |                 |          |                 |         |
|              | Letterpress (typographical, relief):  |                              |  |                 |          |                 |         |
|              | Sheet-fed:  |                              |  |                 |          |                 |         |
| 35551 11     | Platen.....   | No. of complete presses..... | }  | 682             | 2,212    | 1,131           | 3,899   |
| 35551 12     | High speed cylinder (job) up to and including 22" by 28", including verticals.....  | .....do.....                 |  |                 |          |                 |         |
| 35551 13     | Cylinder presses over 22" by 28".....   | .....do.....                 |  |                 |          |                 |         |
| 35551 15     | Rotary letterpress.....   | .....do.....                 | }  | 31              | 797      | 152             | 6,533   |
|              | Roll or web-fed:  |                              |  |                 |          |                 |         |
| 35551 18     | Rotary letterpress.....   | .....do.....                 | }  | 235             | 29,754   | 82              | 7,664   |
| 35551 19     | Newspaper high-speed rotary and flat-bed and high-speed platen.....   | .....do.....                 |  |                 |          |                 |         |
|              | Offset lithographic:  |                              |  |                 |          |                 |         |
|              | Sheet-fed:  |                              |  |                 |          |                 |         |
|              | Single color:   |                              |  |                 |          |                 |         |
| 35551 23     | Up to and including 23" by 30".....   | .....do.....                 | }  | 535             | 7,343    | 831             | 22,736  |
| 35551 26     | Over 23" by 30".....  | .....do.....                 |  |                 |          |                 |         |
| 35551 27     | Multicolor.....   | .....do.....                 |  | 275             | 27,837   |                 |         |
|              | Web-fed:  |                              |  |                 |          |                 |         |
| 35551 30     | Publication (newspaper, etc.) type.....   | .....do.....                 | }  | 358             | 31,653   | 203             | 10,723  |
| 35551 31     | All other.....  | .....do.....                 |  |                 |          |                 |         |
| 35551 32     | Gravure, sheet-fed and web-fed.....   | .....do.....                 |  | 42              | 6,563    | 64              | 8,057   |
| 35551 41     | Other printing presses, including proof and rebuilt.....  |                              | (NA)   | 15,439          |          | (NA)            | 10,355  |
| 35551 00     | Printing presses, n.s.k.....  |                              | (X)  | 740             |          | (X)             | -       |
| 35552--      | Other printing trades machinery, including parts and attachments, total.....  |                              | (X)  | 243,848         |          | (X)             | 155,662 |
|              | Typesetting machinery and equipment (excluding justifying typewriters):   |                              |  |                 |          |                 |         |
| 35552 55     | Matrices, including matrices for hot metal machines and photo typesetting.....  |                              | (X)  | 17,783          |          | (X)             | 13,284  |
| 35552 52     | Photographic typesetting machines.....  | No. of units.....            | }  | 3,189           | 13,347   | (NA)            | 21,084  |
| 35552 53, 59 | Typesetting and typesetting machines, including hot metal (excluding photographic) and other typesetting equipment, including tape perforators, operating units, etc., but excluding cameras..... |                              |  |                 |          |                 |         |
| 35552 61     | Electrotyping machinery and equipment.....  |                              | (X)  | 7,708           |          | (X)             | 1,630   |
| 35552 63     | Stereotyping machinery and equipment.....   |                              | (X)  | 7,708           |          | (X)             | 3,829   |
| 35552 65     | Photoengraving and lithographing platemaking equipment (except cameras).....  |                              | (X)  | 5,836           |          | (X)             | 4,599   |
| 35552 66     | Paper cutting machines.....   |                              | (X)  | 7,681           |          | (X)             | 19,912  |
| 35552 68     | Bookbinding machinery and equipment, including folding, gathering, inserting, ruling, etc. (exclude paper cutting machines).....  |                              | (X)  | 21,787          |          | (X)             | 19,912  |
| 35552 69     | Engravers' materials and equipment, including metal plates, wood blocks, lithographic stones, etc.....  |                              | (X)  | 11,138          |          | (X)             | 6,353   |
|              | Other printing machinery and equipment, including parts, attachments and accessories for printing trades machinery and equipment (sold separately):   |                              |  |                 |          |                 |         |
| 35552 72     | Ink rollers and printers' rolls and platens.....  |                              | (X)  | 28,192          |          | (X)             | 20,403  |
| 35552 75     | Foundry type, rules, leads, slugs, borders, and ornaments.....  |                              | (X)  | 4,510           |          | (X)             | 4,524   |
| 35552 81     | Parts, attachments, and accessories for printing trades machinery and equipment (sold separately).....  |                              | (X)  | 42,177          |          | (X)             | 33,830  |
| 35552 98     | Other printing machinery and equipment.....   |                              | (X)  | 52,681          |          | (X)             | 26,214  |
| 35552 00     | Other printing trades machinery, including parts and attachments, n.s.k.....  |                              | (X)  | 1,849           |          | (X)             | -       |
| 35550 00     | Printing trades machinery and equipment, n.s.k.....   |                              | (X)  | 21,765          |          | (X)             | 23,439  |
| 3559--       | SPECIAL INDUSTRY MACHINERY, TOTAL.....  |                              | (X)  | 988,355         |          | (X)             | 726,212 |
| 35591 11     | Chemical manufacturing industries machinery and equipment and parts.....  |                              | (X)  | 152,371         |          | (X)             | 118,458 |
| 35592--      | Foundry machinery and equipment, excluding patterns and molds, total.....   |                              | (X)  | 89,569          |          | (X)             | 52,639  |
| 35592 31     | Molding machines.....   | No. of units.....            | }  | 1,240           | 15,523   | 1,261           | 13,693  |
| 35592 51     | Blast cleaning equipment.....   |                              |  |                 |          |                 |         |
| 35592 98     | Other foundry machinery, including core-making machines and parts for foundry machinery and equipment.....  |                              | (X)  | 50,683          |          | (X)             | 36,519  |
| 35592 00     | Foundry machinery and equipment, excluding patterns and molds, n.s.k.....   |                              | (X)  | 469             |          | (X)             | 2,427   |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure | Total shipments including interplant transfers |                 |          |                 |
|--------------|--|-----------------|--|-----------------|----------|-----------------|
|              |  |                 | 1963   |                 | 1958     |                 |
|              |  |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
|              | SPECIAL INDUSTRY MACHINERY, TOTAL—Continued  |                 |  |                 |          |                 |
| 35593 --     | Plastics-working machinery and equipment, excluding patterns and molds, total.....   |                 | (X)  | 137,082         | (X)      | 50,818          |
| 35593 11     | Compression molding machines.....  | No. of units... | 795  | 4,761           | 203      | 2,502           |
| 35593 31     | Extrusion molding machines.....  | do.....         | 1,062  | 18,576          | 549      | 7,407           |
| 35593 51     | Injection molding machines.....  | do.....         | 2,511  | 54,827          | 829      | 20,416          |
| 35593 98     | Other plastics-working machinery and equipment, including parts for plastics-working machinery.....  |                 | (X)  | 58,488          | (X)      | 16,894          |
| 35593 00     | Plastics-working machinery and equipment, excluding patterns and molds, n.s.k.....   |                 | (X)  | 430             | (X)      | 3,599           |
| 35594 --     | Rubber-working machinery and equipment, excluding tire molds, total.....   |                 | (X)  | 76,759          | (X)      | 53,870          |
| 35594 11     | Banbury and mill-mixing machinery and warming-up machinery.....  |                 | (X)  | 8,328           | (X)      | 8,335           |
| 35594 31     | Extruding machines.....  | No. of units... | 378  | 3,615           | (S)      | 4,017           |
| 35594 41     | Vulcanizing presses.....   | do.....         | 969  | 19,177          | 556      | 9,828           |
| 35594 51     | Tire-building equipment (except tire molds).....   |                 | (X)  | 7,477           | (X)      | 5,987           |
| 35594 71     | Tire recapping and repairing machinery and equipment, including recapping vulcanizers.....   |                 | (X)  | 15,422          | (X)      | 15,038          |
| 35594 98     | Other rubber-working machinery including calendering machines and parts for rubber-working machinery, but excluding tire molds.....  |                 | (X)  | 21,621          | (X)      | 6,255           |
| 35594 00     | Rubber-working machinery and equipment, excluding tire molds, n.s.k.....   |                 | (X)  | 1,119           | (X)      | 4,410           |
| 35595 --     | Other special industry machinery and equipment, total <sup>8</sup> .....   |                 | (X)  | 500,225         | (X)      | 414,691         |
| 35595 11     | Petroleum refinery machinery and equipment, including parts.....   |                 | (X)  | 36,466          | (X)      | 20,672          |
|              | Tobacco manufacturing machinery and equipment:   |                 |  |                 |          |                 |
| 35595 31     | Cigarette-making machines and cigar-making machines.....   | No. of units... | 762  | 5,301           | (X)      | 14,895          |
| 35595 33     | Cigar, cigarette and tobacco packaging and wrapping machines..   | do.....         |  |                 |          |                 |
| 35595 39     | Other tobacco manufacturing machinery and equipment and parts.....   | (X)             |  |                 |          |                 |
| 35595 41     | Clayworking machinery and equipment and parts (brick, tile, and ceramics).....   |                 | (X)  | 11,436          | (X)      | 10,575          |
| 35595 43     | Cement-making machinery and equipment and parts, other than cement kilns.....  |                 | (X)  | 8,537           | (X)      | 3,827           |
|              | Concrete-products machinery and equipment:   |                 |  |                 |          |                 |
| 35595 45     | Concrete-block machines.....   | No. of units... | 345  | 5,358           | (NA)     | 6,660           |
| 35595 49     | Other concrete-products machinery and equipment and parts, including concrete-pipe making machines.....  |                 | (X)  | 27,819          | (X)      | 16,434          |
|              | Glass-making machinery and equipment:  |                 |  |                 |          |                 |
| 35595 51     | Bottle-forming machines.....   | No. of units... | 229  | 10,760          | (NA)     | 10,938          |
| 35595 55     | Other glass-making machinery and equipment and parts except lehrs.....   |                 | (X)  | 25,159          | (X)      | 10,504          |
| 35595 62     | Shoemaking and repairing machinery and equipment and parts, including sole stitching machines.....   |                 | (X)  | 26,798          | (X)      | 24,174          |
| 35595 73     | Cotton-ginning machinery and equipment and parts.....  |                 | (X)  | 41,088          | (X)      | 40,987          |
| 35595 81     | Metal cleaning, degreasing, finishing, and drying machinery and equipment and parts.....   |                 | (X)  | 47,240          | (X)      | 27,446          |
| 35595 85     | Electronic tube-making machinery and equipment and parts.....  |                 | (X)  | 9,109           | (X)      | 7,969           |
| 35595 89     | Other special industrial machinery and equipment and parts (including incandescent lamp-making, paint making, stone-working, hatmaking, leatherworking, jewelers', pharmaceutical, ammunition and explosives loading machinery and equipment, etc.)..... |                 | (X)  | 171,280         | (X)      | 187,636         |
| 35595 91     | Electric nonmetallic processing industrial furnaces and ovens, including kilns and lehrs.....  |                 | (X)  | 8,980           | (X)      | 2,485           |
| 35595 92     | Fuel fired kilns (cement, wood, and chemical processing).....  | No. of units... | 380  | 21,949          | (NA)     | 14,606          |
| 35595 93     | Other nonmetallic processing industrial furnaces and ovens and parts, including kilns and lehrs.....   |                 | (X)  | 10,495          | (X)      | 4,859           |
| 35595 00     | Other special industry machinery and equipment, n.s.k.....   |                 | (X)  | 24,771          | (X)      | 10,024          |
| 35590 00     | Special industry machinery, n.s.k.....   |                 | (X)  | 32,349          | (X)      | 35,736          |

- Represents zero. (NA) Not available. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

(X) Not applicable.

<sup>1</sup>Figures for "Butter, cheese, dry milk and ice cream packaging machines" and "Uncasers and casers" are included with "Other dairy and milk products processing plant machinery and equipment."

<sup>2</sup>Includes power-driven machines for use by hotels, restaurants, institutions, meat markets, butcher shops, food-product stores, and similar commercial organizations.

<sup>3</sup>For combination slicing and wrapping machines the number and value of slicing units are included with slicing machines and the number and value of wrapping units with wrapping machines.

<sup>4</sup>For 1958 "Labeling machines" are included with "Other food bottling machinery, except dairy."

<sup>5</sup>Figures for "Uncasers and casers" are included with "Carbonators and other food bottling machinery, except dairy."

<sup>6</sup>Data for combing machines (product code 3552132) are included with data for other fiber-to-fabric machinery (product code 3552155).

<sup>7</sup>Data for power looms (product codes 3552164 and 3552168) are included with data for other fabric machinery (product code 3552184).

<sup>8</sup>Some equipment in this product class may be leased rather than sold outright. For leased equipment, estimates of the value of products produced were reported. These estimates approximate the value of the products had they been sold outright and are based on market values of the products, tax or insurance valuations, etc.



TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products, Shipped by All Producers: 1963 and 1958

| Product code | Product and year                                    | Indexes (1954 = 100) |            |
|--------------|---|----------------------|------------|
|              |   | Production           | Unit value |
| 355          | Special industry machinery <sup>1</sup> .....1963.. | (1)                  | (1)        |
|              | 1958..  | (1)                  | (1)        |
| 3551         | Food products machinery <sup>1</sup> .....1963..    | (1)                  | (1)        |
|              | 1958..  | (1)                  | (1)        |
| 35512        | Commercial food products machinery.....1963..       | 98                   | 136        |
|              | 1958..  | 98                   | 117        |
| 3552         | Textile machinery <sup>1</sup> .....1963..          | (1)                  | (1)        |
|              | 1958..  | (1)                  | (1)        |
| 35521        | Textile machinery.....1963..                        | 134                  | 131        |
|              | 1958..  | 83                   | 120        |
| 3553         | Woodworking machinery.....1963..                    | 111                  | 119        |
|              | 1958..  | 99                   | 108        |
| 3554         | Paper industries machinery.....1963..               | 202                  | 98         |
|              | 1958..  | 144                  | 111        |
| 3555         | Printing trades machinery.....1963..                | 141                  | 123        |
|              | 1958..  | 118                  | 100        |
| 3559         | Special industry machinery <sup>1</sup> .....1963.. | (1)                  | (1)        |
|              | 1958..  | (1)                  | (1)        |
| 35593        | Plastics-working machinery and equipment.....1963.. | 287                  | 126        |
|              | 1958..  | 97                   | 139        |

<sup>1</sup>Not shown pending further review of data covering product classes for which indexes are not shown.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments, 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class  | 1963    | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958    | 1954      | 1947    |
|-------|--|---------|-------------------|-------------------|-------------------|-------------------|---------|-----------|---------|
| 3551- | Food products machinery.....   | 517,304 | 500,739           | 460,586           | 458,197           | 435,935           | 399,846 | 371,408   | 335,928 |
| 35511 | Dairy and milk products plant machinery and equipment.....                       | 71,589  | 67,242            | 60,617            | 59,101            | 61,193            | 64,611  | 81,267    | 62,060  |
| 35512 | Commercial food-products machinery.....  | 117,638 | 118,415           | 118,838           | 123,670           | 113,371           | 100,980 | 88,158    | 82,256  |
| 35513 | Other industrial food products machinery, including parts and attachments.....   | 300,481 | 284,697           | 257,338           | 251,198           | 234,234           | 210,790 | 197,517   | 191,612 |
| 35510 | Food products machinery, n.s.k.....  | 27,596  | (S)               | (S)               | (S)               | (S)               | 23,465  | 4,466     | -       |
| 3552- | Textile machinery.....   | 499,096 | 532,027           | 488,523           | 493,662           | 399,592           | 322,239 | 304,053   | 391,829 |
| 35521 | Textile machinery.....   | 252,569 | 282,803           | 264,722           | 269,600           | 200,665           | 143,720 | 143,315   | 245,984 |
| 35522 | Parts and attachments for textile machinery                                      | 232,122 | 218,270           | 205,272           | 205,710           | 184,476           | 168,737 | 160,738   | 141,456 |
| 35520 | Textile machinery, n.s.k.....  | 14,405  | (S)               | (S)               | (S)               | (S)               | 9,782   | -         | 4,389   |
| 3553- | Woodworking machinery.....   | 220,822 | 203,335           | 171,362           | 179,110           | 186,980           | 174,489 | 163,431   | 151,379 |
| 35531 | Woodworking machines (except home workshop) including parts and attachments..... | 185,987 | 174,054           | 141,845           | 151,415           | 154,699           | 145,078 | 136,208   | 128,853 |
| 35532 | Woodworking machines for home workshop, including parts and attachments.....     | 28,990  | 28,646            | 28,374            | 27,086            | 28,432            | 25,685  | 27,223    | 22,526  |
| 33530 | Woodworking machines, n.s.k.....   | 5,845   | (S)               | (S)               | (S)               | (S)               | 3,726   | -         | -       |
| 35540 | Paper industries machinery.....  | 347,552 | 369,810           | 333,801           | 348,447           | 299,676           | 280,106 | 176,172   | 134,713 |
| 3555- | Printing trades machinery.....   | 403,215 | 399,518           | 365,566           | 352,740           | 301,912           | 273,301 | } 228,774 | 195,112 |
| 35551 | Printing presses.....  | 137,602 | 149,972           | 127,655           | 122,600           | 105,963           | 94,201  |           |         |
| 35552 | Other printing trades machinery including parts and attachments.....             | 243,848 | 217,481           | 209,792           | 204,879           | 167,386           | 155,662 |           |         |
| 35550 | Printing-trades machinery, n.s.k.....  | 21,765  | (S)               | (S)               | (S)               | (S)               | 23,939  |           |         |
| 3559- | Special industry machinery.....  | 988,355 | 1,002,688         | 910,824           | 924,476           | 797,518           | 726,212 | 604,535   | 462,202 |
| 35591 | Chemical manufacturing industries machinery                                      | 152,371 | 129,848           | 141,829           | 137,339           | 104,518           | 118,458 | 102,794   | 87,375  |
| 35592 | Foundry machinery.....   | 89,569  | 75,886            | 59,460            | 69,811            | 60,509            | 52,639  | 62,480    | 34,431  |
| 35593 | Plastics-working machinery.....  | 137,082 | 113,302           | 91,276            | 91,264            | 80,118            | 50,818  | 37,610    | 19,666  |
| 35594 | Rubber-working machinery.....  | 76,759  | 87,845            | 80,432            | 90,350            | 66,314            | 53,870  | 52,521    | 46,445  |
| 35595 | Other special-industrial machinery.....  | 500,225 | 565,768           | 512,428           | 512,025           | 456,546           | 414,691 | 319,968   | 226,133 |
| 35590 | Special industrial machinery, n.s.k.....   | 32,349  | (S)               | (S)               | (S)               | (S)               | 35,736  | 10,269    | 25,674  |

- Represents zero. n.s.k. Not specified by kind.

(S) Withheld because data did not meet publication standards on the basis of consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.



**TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958**

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area                                    | Value of shipments |         | Product class and geographic area                                 | Value of shipments |         | Product class and geographic area   | Value of shipments |         |
|--|--------------------|---------|---|--------------------|---------|---|--------------------|---------|
|  | 1963 <sup>1</sup>  | 1958    |   | 1963 <sup>1</sup>  | 1958    |   | 1963 <sup>1</sup>  | 1958    |
| <b>DAIRY AND MILK PRODUCTS PLANT MACHINERY AND EQUIPMENT (35511)</b> |                    |         | <b>OTHER INDUSTRIAL FOOD PRODUCTS MACHINERY (35513)—Continued</b> |                    |         | <b>WOODWORKING MACHINERY (EXCEPT HOME WORKSHOPS) (35531)—Continued</b>          |                    |         |
| United States, total.....  | 71,589             | 64,611  | West North Central.....   | 22,620             | 20,889  | Middle Atlantic.....  | 9,161              | 6,850   |
| New England.....   | 1,491              | 1,689   | Minnesota.....  | 2,395              | 4,210   | Pennsylvania.....   | 5,024              | 3,377   |
| Middle Atlantic.....   | 8,644              | 12,539  | Iowa.....   | 6,218              | 4,891   | East North Central.....   | 57,354             | 44,523  |
| New York.....  | 5,148              | 10,834  | Missouri.....   | 9,998              | 7,017   | Ohio.....   | 10,583             | 7,080   |
| Pennsylvania.....  | 3,465              | (Z)     | South Atlantic.....   | 34,049             | 20,833  | Indiana.....  | 3,874              | 2,176   |
| East North Central.....  | 40,152             | 33,163  | Maryland.....   | 14,521             | 10,642  | Illinois.....   | 23,347             | 17,619  |
| Illinois.....  | 15,796             | 8,495   | Virginia.....   | 2,427              | (Z)     | Michigan.....   | 8,428              | 6,615   |
| Wisconsin.....   | 12,334             | 13,257  | North Carolina.....   | 2,412              | (Z)     | Wisconsin.....  | 11,122             | 11,033  |
| West North Central.....  | 11,621             | 12,975  | Georgia.....  | 9,846              | 5,112   | West North Central.....   | 7,066              | 3,128   |
| South.....   | 3,016              | 2,693   | Florida.....  | 4,843              | 4,394   | Minnesota.....  | 4,715              | (Z)     |
| West.....  | 6,665              | 1,552   | East South Central.....   | 5,582              | 1,966   | Missouri.....   | 2,351              | (Z)     |
| <b>COMMERCIAL FOOD PRODUCTS MACHINERY (35512)</b>                    |                    |         | West South Central.....   | 12,579             | 4,198   | South Atlantic.....   | 32,746             | 19,374  |
| United States, total.....  | 117,638            | 100,980 | Louisiana.....  | 1,854              | 1,380   | Georgia.....  | 2,094              | (Z)     |
| New England.....   | 5,649              | 7,902   | Texas.....  | 9,695              | 1,478   | East South Central.....   | 9,793              | 11,119  |
| Massachusetts.....   | 3,040              | (Z)     | Mountain.....   | 5,217              | 2,267   | Tennessee.....  | 2,433              | 2,867   |
| Middle Atlantic.....   | 20,289             | 15,303  | Pacific.....  | 32,821             | 26,158  | Alabama.....  | 1,904              | (Z)     |
| New York.....  | 11,014             | 5,748   | Washington.....   | 1,852              | 1,165   | Mississippi.....  | 5,456              | (Z)     |
| New Jersey.....  | 1,557              | 1,727   | California.....   | 27,792             | 24,209  | West South Central.....   | 5,692              | 3,098   |
| Pennsylvania.....  | 7,718              | 7,828   | <b>TEXTILE MACHINERY (35521)</b>                                  |                    |         | West.....   | 59,350             | 44,024  |
| East North Central.....  | 65,775             | 56,550  | United States, total.....   | 252,569            | 143,720 | Oregon.....   | 21,380             | 13,355  |
| Ohio.....  | 27,952             | 20,665  | New England.....  | 100,826            | 70,788  | <b>PRINTING PRESSES (35551)</b>   |                    |         |
| Indiana.....   | 7,785              | 5,882   | Massachusetts.....  | 74,378             | 33,519  | United States, total.....   | 137,602            | 94,201  |
| Illinois.....  | 11,777             | 15,101  | Rhode Island.....   | 15,216             | 10,580  | New England.....  | 14,705             | 7,530   |
| Michigan.....  | 15,072             | 11,633  | Middle Atlantic.....  | 57,809             | 35,032  | Middle Atlantic.....  | 31,794             | 37,607  |
| Wisconsin.....   | 3,269              | 3,269   | New York.....   | 14,123             | 9,168   | New York.....   | 12,419             | (Z)     |
| West North Central.....  | 7,982              | 6,934   | New Jersey.....   | 10,699             | 6,687   | New Jersey.....   | 9,859              | 17,441  |
| Minnesota.....   | 2,333              | 1,376   | Pennsylvania.....   | 32,987             | 19,177  | Pennsylvania.....   | 9,516              | (Z)     |
| Missouri.....  | 3,507              | 2,853   | North Central.....  | 11,551             | 9,173   | North Central.....  | 80,700             | 49,064  |
| South Atlantic.....  | 6,438              | 4,318   | South and West.....   | 82,383             | 28,727  | Wisconsin.....  | 3,220              |         |
| East South Central.....  | 1,288              | 1,575   | North Carolina.....   | 34,481             | 13,344  | East South Central.....   | 5,444              |         |
| West South Central.....  | 2,316              | 1,568   | South Carolina.....   | 32,735             | 7,428   | West.....   | 4,959              |         |
| Texas.....   | 1,999              | (Z)     | Georgia.....  | 9,829              | 3,886   | <b>OTHER PRINTING TRADES MACHINERY, INCLUDING PARTS AND ATTACHMENTS (35552)</b> |                    |         |
| West.....  | 7,901              | 6,830   | <b>PARTS AND ATTACHMENTS FOR TEXTILE MACHINERY (35522)</b>        |                    |         | United States, total.....   | 243,848            | 155,662 |
| California.....  | 6,614              | 5,546   | U.S. total.....   | 232,122            | 168,737 | New England.....  | 26,188             | 14,830  |
| <b>OTHER INDUSTRIAL FOOD PRODUCTS MACHINERY (35513)</b>              |                    |         | New England.....  | 93,547             | 75,009  | Massachusetts.....  | 16,430             | 9,209   |
| United States, total.....  | 300,481            | 210,790 | Maine.....  | 1,726              | 7,169   | Connecticut.....  | 7,515              | (Z)     |
| New England.....   | 31,988             | 24,706  | Vermont.....  | 1,298              | 1,802   | Middle Atlantic.....  | 112,118            | 78,809  |
| Massachusetts.....   | 22,931             | 17,882  | Massachusetts.....  | 61,356             | 49,532  | New York.....   | 63,626             | 47,787  |
| Middle Atlantic.....   | 46,418             | 39,886  | Rhode Island.....   | 20,593             | 8,349   | New Jersey.....   | 28,104             | 19,161  |
| New York.....  | 22,580             | 20,476  | Middle Atlantic.....  | 43,373             | 33,653  | Pennsylvania.....   | 20,388             | 11,861  |
| New Jersey.....  | 7,020              | 3,081   | New York.....   | 3,575              | 2,752   | East North Central.....   | 73,151             | 49,221  |
| Pennsylvania.....  | 16,818             | 16,329  | New Jersey.....   | 12,162             | 10,409  | Ohio.....   | 20,100             | 15,001  |
| East North Central.....  | 109,207            | 69,887  | Pennsylvania.....   | 27,636             | 20,492  | Illinois.....   | 40,697             | 28,492  |
| Ohio.....  | 31,260             | 15,730  | North Central.....  | 14,269             | 6,088   | Michigan.....   | 8,396              | 4,384   |
| Indiana.....   | 6,776              | 4,854   | South and West.....   | 80,933             | 53,987  | Wisconsin.....  | 3,785              | (Z)     |
| Illinois.....  | 41,945             | 27,512  | North Carolina.....   | 30,822             | 20,316  | West North Central.....   | 11,471             | 2,341   |
| Michigan.....  | 4,940              | 3,502   | South Carolina.....   | 38,279             | 23,519  | Missouri.....   | 8,206              | (Z)     |
| Wisconsin.....   | 24,284             | 18,289  | Georgia.....  | 7,906              | 7,677   | South.....  | 12,442             | 5,903   |
| <b>WOODWORKING MACHINERY (EXCEPT HOME WORKSHOPS) (35531)</b>         |                    |         | United States, total.....   | 185,987            | 145,078 | Pacific.....  | 8,478              | 4,558   |
| United States, total.....  | 300,481            | 210,790 | New England.....  | 4,825              | 12,962  | California.....   | 7,784              | 4,468   |
| New England.....   | 31,988             | 24,706  | Massachusetts.....  | 3,265              | 5,863   |   |                    |         |

See footnotes at end of table.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area                                     | Value of shipments |         | Product class and geographic area   | Value of shipments |        | Product class and geographic area                      | Value of shipments 1963 <sup>1</sup> |
|---|--------------------|---------|---|--------------------|--------|--|--------------------------------------|
|   | 1963 <sup>1</sup>  | 1958    |   | 1963 <sup>1</sup>  | 1958   |  |                                      |
| CHEMICAL MANUFACTURING INDUSTRIES MACHINERY AND EQUIPMENT (35591)     |                    |         | PLASTICS-WORKING MACHINERY AND EQUIPMENT EXCLUDING PATTERNS AND MOLDS (35593) |                    |        | OTHER SPECIAL INDUSTRY MACHINERY AND EQUIPMENT (35595) |                                      |
| United States, total.....   | 152,371            | 118,458 | United States, total.....   | 137,082            | 50,818 | United States, total.....                              | 500,225                              |
| New England.....  | 8,691              | 7,907   | New England.....  | 43,914             | 18,203 | New England.....                                       | 61,574                               |
| Middle Atlantic.....  | 67,689             | 56,507  | Massachusetts.....  | 14,244             | 6,918  | Maine.....   | 2,565                                |
| New York.....   | 25,222             | 19,946  | Connecticut.....  | 16,484             | 6,333  | Massachusetts.....                                     | 43,300                               |
| New Jersey.....   | 17,652             | 11,522  | Middle Atlantic.....  | 36,024             | 12,189 | Connecticut.....                                       | 12,904                               |
| Pennsylvania.....   | 24,815             | 25,039  | New York.....   | 4,776              | 3,195  | Middle Atlantic.....                                   | 134,281                              |
| North Central.....  | 44,285             | 31,355  | New Jersey.....   | 24,695             | 6,665  | New York.....  | 33,088                               |
| Ohio.....   | 23,531             | 16,228  | Pennsylvania.....   | 6,553              | 2,331  | New Jersey.....  | 44,565                               |
| Illinois.....   | 12,960             | 10,530  | North Central.....  | 52,485             | 18,733 | Pennsylvania.....                                      | 56,628                               |
| Michigan.....   | 5,456              | 3,488   | Ohio.....   | 34,455             | 14,285 | East North Central.....                                | 159,297                              |
| South and West.....   | 31,706             | 22,689  | Michigan.....   | 5,354              | 1,637  | Ohio.....  | 33,281                               |
| California.....   | 2,228              | 3,167   | Wisconsin.....  | 2,030              | (Z)    | Indiana.....   | 16,698                               |
| FOUNDRY MACHINERY AND EQUIPMENT, EXCLUDING PATTERNS AND MOLDS (35592) |                    |         | South and West.....   | 4,661              | (?)    | Illinois.....  | 42,065                               |
| United States, total.....   | 89,569             | 52,639  | California.....   | 1,949              | 1,208  | Michigan.....  | 51,246                               |
| Northeast.....  | 9,078              | 4,098   | RUBBER-WORKING MACHINERY AND EQUIPMENT, EXCLUDING TIRE MOLDS (35594)          |                    |        | Wisconsin.....   | 16,007                               |
| Pennsylvania.....   | 7,809              | 3,353   | United States, total.....   | 76,759             | 54,095 | West North Central.....                                | 23,823                               |
| North Central.....  | 63,723             | 38,137  | Northeast.....  | 15,340             | 13,938 | Minnesota.....   | 7,935                                |
| Ohio.....   | 18,913             | 8,442   | New York.....   | 2,163              | (Z)    | Iowa.....  | 6,003                                |
| Illinois.....   | 16,514             | 13,282  | Pennsylvania.....   | 3,204              | 2,439  | Kansas.....  | 4,957                                |
| Michigan.....   | 8,735              | (?)     | East North Central.....   | 49,760             | 27,056 | South Atlantic.....                                    | 27,329                               |
| Wisconsin.....  | 4,857              | 3,760   | Ohio.....   | 46,558             | 23,526 | Maryland.....  | 5,074                                |
| South and West.....   | 16,768             | 10,404  | West North Central.....   | 1,076              | 1,250  | North Carolina.....                                    | 7,405                                |
| California.....   | 3,953              | (?)     | South and West.....   | 10,583             | 11,851 | Georgia.....   | 7,015                                |
|   |                    |         | California.....   | 8,232              | 10,035 | Florida.....   | 7,760                                |
|   |                    |         |   |                    |        | East South Central.....                                | 16,086                               |
|   |                    |         |   |                    |        | Kentucky.....  | 5,601                                |
|   |                    |         |   |                    |        | West South Central.....                                | 43,389                               |
|   |                    |         |   |                    |        | Louisiana.....   | 3,763                                |
|   |                    |         |   |                    |        | Oklahoma.....  | 4,056                                |
|   |                    |         |   |                    |        | Texas.....   | 35,057                               |
|   |                    |         |   |                    |        | West.....  | 34,446                               |
|   |                    |         |   |                    |        | Washington.....  | 7,885                                |
|   |                    |         |   |                    |        | Oregon.....  | 5,356                                |
|   |                    |         |   |                    |        | California.....  | 20,343                               |

(Z) Less than \$1 million reported.

<sup>1</sup>For the specific product classes, shipments of \$1 million or more were reported for the states listed, but the exact figures are withheld to avoid disclosures of individual company figures: 35511, Ohio, Michigan, Minnesota, Iowa, Missouri, and Virginia; 35512, Connecticut, Kansas, Virginia, Georgia, and Kentucky; 35513, Connecticut, Kansas, Kentucky, Colorado, and Oregon; 35521, Maine, New Hampshire, Ohio, Illinois, and Tennessee; 35522, New Hampshire, Ohio, Illinois, Michigan, and Tennessee; 35531, New Hampshire, New York, New Jersey, North Carolina, South Carolina, Louisiana, Texas, Washington, and California; 35551, New Hampshire, Massachusetts, Connecticut, Ohio, Illinois, Michigan, Missouri, Kansas, Kentucky, Texas, New Mexico, and California; 35552, Rhode Island, Kansas, Virginia, North Carolina, and Kentucky; 35591, Massachusetts, Connecticut, Delaware, Maryland, Virginia, North Carolina, Kentucky, Tennessee, and Texas; 35592, Indiana and Maryland; 35593, New Hampshire and Indiana; 35594, Connecticut, New Jersey, Indiana, and North Carolina; 35595, Rhode Island, Missouri, Delaware, Virginia, and Alaska.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code  | Material  | Unit of measure             | 1963     |                          | 1958     |                          |
|---|---|-----------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                             | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3551.—FOOD PRODUCTS MACHINERY      |   |                             |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....  |                             | (X)      | 204,807                  | (X)      | 152,418                  |
|   | Mill shapes and forms (except castings):  |                             |          |                          |          |                          |
|   | Carbon steel:   |                             |          |                          |          |                          |
| 331011                                      | Bars and bar shapes.....  | Short tons.....             | 26,494   | 6,713                    | 30,574   | 4,738                    |
| 331012                                      | Sheet and strip.....  | ..do.....                   | 35,337   | 5,927                    | 31,214   | 4,466                    |
| 331013                                      | Plates.....   | ..do.....                   | 18,427   | 2,906                    | 21,940   | 2,338                    |
| 331015                                      | Structural shapes.....  | ..do.....                   | 12,227   | 2,159                    | 7,245    | 1,303                    |
| 331019                                      | All other carbon steel mill shapes and forms.....   | ..do.....                   | 6,420    | 2,059                    | 2,685    | 748                      |
| 331020                                      | Alloy steel (except stainless).....   | ..do.....                   | 4,061    | 1,583                    | 3,685    | 1,579                    |
| 331031                                      | Stainless steel.....  | ..do.....                   | 10,393   | 13,183                   | 8,315    | 11,448                   |
|   | Copper and copper-base alloy:   |                             |          |                          |          |                          |
| 335728                                      | Bare wire (for electrical conduction).....  | 1,000 lbs.....              | 491      | 281                      | 1,995    | 563                      |
| 335790                                      | Insulated wire and cable.....   | 1,000 lbs. (copper content) | 77       | 48                       |          |                          |
| 335102                                      | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.....              | 688      | 370                      | 1,314    | 989                      |
| 335123                                      | Plate, sheet, and strip (including military cups and discs)....                                       | ..do.....                   | 207      | 129                      |          |                          |
| 335127                                      | Pipe and tube.....  | ..do.....                   | 950      | 698                      |          |                          |
|   | Aluminum and aluminum-base alloy:   |                             |          |                          |          |                          |
| 335202                                      | Sheet, plate, and foil.....   | ..do.....                   | 2,167    | 1,189                    | 251      | 217                      |
| 335205                                      | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)                                       | ..do.....                   | 686      | 400                      |          |                          |
| 335209                                      | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                   | 799      | 417                      |          |                          |
|   | Castings (rough and semi-finished): <sup>1</sup>  |                             |          |                          |          |                          |
| 332011                                      | Iron (gray and malleable).....  | Short tons.....             | 23,567   | 9,627                    | 18,357   | 6,726                    |
| 332300                                      | Steel.....  | ..do.....                   | 5,294    | 3,798                    | 7,668    | 2,209                    |
| 336100                                      | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....              | 3,984    | 3,371                    | 2,849    | 2,252                    |
| 336200                                      | Copper and copper-base alloy.....   | ..do.....                   | 2,080    | 1,557                    | 2,900    | 2,206                    |
|   | Electrical motors and generators:   |                             |          |                          |          |                          |
| 362115                                      | Fractional horsepower electric motors (under 1 hp.) (excluding timing motors).....                    | Number.....                 | 85,678   | 3,033                    | 66,085   | 2,042                    |
| 362120                                      | Integral horsepower motors and generators (1 hp. and over)....  | ..do.....                   | 51,251   | 8,745                    | 24,421   | 5,028                    |
|   | Bearings:   |                             |          |                          |          |                          |
| 356218                                      | Ball.....   | .....                       | (X)      | 2,279                    | (X)      | 1,835                    |
| 356228                                      | Roller.....   | .....                       | (X)      | 1,818                    |          |                          |
| 970099                                      | All other materials and components, parts, containers, and supplies consumed.....                     | .....                       | (X)      | 89,905                   | (X)      | 72,098                   |
| 976000                                      | Materials, etc., n.s.k. <sup>2</sup> .....  | .....                       | (X)      | 42,612                   | (X)      | 28,389                   |
| INDUSTRY 3552.—TEXTILE INDUSTRIES MACHINERY |   |                             |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....  |                             | (X)      | 209,812                  | (X)      | 136,984                  |
|   | Mill shapes and forms (except castings):  |                             |          |                          |          |                          |
|   | Carbon steel:   |                             |          |                          |          |                          |
| 331011                                      | Bars and bar shapes.....  | Short tons.....             | 41,487   | 10,080                   | 29,473   | 6,982                    |
| 331012                                      | Sheet and strip.....  | ..do.....                   | 24,379   | 5,391                    | 16,621   | 3,574                    |
| 331015                                      | Structural shapes.....  | ..do.....                   | 9,526    | 1,914                    | 8,067    | 1,457                    |
| 331017                                      | Wire and wire products.....   | ..do.....                   | 5,965    | 4,992                    | 5,132    | 3,611                    |
| 331019                                      | All other carbon steel mill shapes and forms.....   | ..do.....                   | 3,190    | 1,306                    | 5,541    | 1,402                    |
| 331020                                      | Alloy steel (except stainless).....   | ..do.....                   | 2,127    | 1,149                    | 2,555    | 1,423                    |
| 331031                                      | Stainless steel.....  | ..do.....                   | 2,653    | 4,792                    | 1,769    | 2,823                    |
|   | Copper and copper-alloy:  |                             |          |                          |          |                          |
| 335728                                      | Bare wire (for electrical conduction).....  | 1,000 lbs.....              | 190      | 152                      | (NA)     | (NA)                     |
| 335790                                      | Insulated wire and cable.....   | 1,000 lbs. (copper content) |          |                          |          |                          |
| 335102                                      | Rod, bar, and mechanical wire (including extruded and/or drawn shapes.....                            | 1,000 lbs.....              | 710      | 335                      | (NA)     | (NA)                     |
| 335123                                      | Plate, sheet, and strip (including military cups and discs)....                                       | ..do.....                   | 1,127    | 617                      | (NA)     | (NA)                     |
| 335127                                      | Pipe and tube.....  | ..do.....                   | 1,226    | 851                      | (NA)     | (NA)                     |
|   | Aluminum and aluminum-base alloy:   |                             |          |                          |          |                          |
| 335202                                      | Sheet, plate, and foil.....   | ..do.....                   | 1,156    | 857                      | 2,110    | 643                      |
| 335205                                      | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)                                       | ..do.....                   | 1,446    | 1,099                    |          |                          |
| 335209                                      | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                   | 1,619    | 943                      |          |                          |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure                | 1963     |                             | 1958     |                             |
|---|---|--------------------------------|----------|-----------------------------|----------|-----------------------------|
|   |   |                                | Quantity | Delivered cost<br>(\$1,000) | Quantity | Delivered cost<br>(\$1,000) |
| INDUSTRY 3552.—TEXTILE-INDUSTRIES MACHINERY—Continued |   |                                |          |                             |          |                             |
| 331051  | Primary metal and scrap:  |                                |          |                             |          |                             |
| 999811  | Pig iron excluding silvery iron.....  | Short tons.....                | 21,449   | 1,436                       | 16,961   | 1,074                       |
|   | Iron and steel scrap (excluding home scrap).....  | ..do.....                      | 17,589   | 1,063                       | 12,059   | 515                         |
| Castings (rough and semi-finished): <sup>1</sup>      |   |                                |          |                             |          |                             |
| 332011  | Iron (gray and malleable).....  | ..do.....                      | 57,548   | 22,006                      | 25,351   | 9,108                       |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                 | 2,105    | 1,943                       | 1,555    | 1,370                       |
| 362120  | Integral horsepower electric motors and generators (1 hp. and over) <sup>1</sup> .....                | Number.....                    | 24,992   | 4,433                       | 17,124   | 2,483                       |
| Bearings:   |   |                                |          |                             |          |                             |
| 356218  | Ball.....   | .....                          | (X)      | 5,528                       | (X)      | 3,188                       |
| 356228  | Roller.....   | .....                          | (X)      | 894                         |          |                             |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                     | .....                          | (X)      | 116,664                     | (X)      | 84,936                      |
| 976000  | Materials, etc., n.s.k. <sup>2</sup> .....  | .....                          | (X)      | 21,367                      | (X)      | 11,570                      |
| INDUSTRY 3553.—WOODWORKING MACHINERY                  |   |                                |          |                             |          |                             |
|   | Materials, parts, containers, and supplies, total.....  | .....                          | (X)      | 94,429                      | (X)      | 76,883                      |
| Mill shapes and forms (except castings):              |   |                                |          |                             |          |                             |
| Carbon steel:   |   |                                |          |                             |          |                             |
| 331011  | Bars and bar shapes.....  | Short tons.....                | 19,343   | 4,399                       | 9,095    | 2,273                       |
| 331012  | Sheet and strip.....  | ..do.....                      | 17,669   | 4,674                       | 11,914   | 2,131                       |
| 331013  | Plates.....   | ..do.....                      | 10,284   | 1,890                       | 9,288    | 1,044                       |
| 331019  | All other carbon steel mill shapes and forms.....   | ..do.....                      | 4,722    | 1,515                       | 5,818    | 1,193                       |
| 331020  | Alloy steel (except stainless).....   | ..do.....                      | 3,110    | 2,685                       | 2,497    | 1,488                       |
| 331031  | Stainless steel.....  | ..do.....                      | 173      | 602                         | 102      | 121                         |
| Copper and copper-base alloy:                         |   |                                |          |                             |          |                             |
| 335728  | Bare wire (for electrical conduction).....  | 1,000 lbs.....                 | 162      | 161                         | 94       | 116                         |
| 335790  | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content) | 36       | 40                          | 118      | 94                          |
| 335102  | Rod, bar, and mechanical wire including extruded and/or drawn shapes.....                             | 1,000 lbs.....                 | 126      | 208                         | 95       | 176                         |
| 335123  | Plate, sheet, and strip (including military cups and discs).....                                      | ..do.....                      |          |                             |          |                             |
| 335127  | Pipe and tube.....  | ..do.....                      |          |                             |          |                             |
| Aluminum and aluminum-base alloy:                     |   |                                |          |                             |          |                             |
| 335202  | Sheet, plate, and foil.....   | ..do.....                      | 60       | 116                         | 74       | 49                          |
| 335205  | Extruded shapes (including extruded rod, bar, pipe, tube; etc.).....                                  | ..do.....                      | 300      | 327                         | 746      | 298                         |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                      | 916      | 446                         |          |                             |
| Castings (rough and semi-finished): <sup>1</sup>      |   |                                |          |                             |          |                             |
| 332011  | Iron (gray and malleable).....  | Short tons.....                | 12,038   | 4,361                       | 11,221   | 3,492                       |
| 332300  | Steel.....  | ..do.....                      | 1,829    | 1,530                       | 2,128    | 1,251                       |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                 | 2,835    | 3,324                       | 4,717    | 1,886                       |
| 336200  | Copper and copper-base alloy.....   | ..do.....                      | 174      | 189                         | 101      | 576                         |
| 339100  | Iron and steel forgings.....  | Short tons.....                | 1,265    | 1,370                       | 479      | 882                         |
| Electric motors and generators:                       |   |                                |          |                             |          |                             |
| Fractional horsepower electric motors (under 1 hp.):  |   |                                |          |                             |          |                             |
| 362110  | Timing motors, synchronous and sub-synchronous.....   | Number.....                    | 4,604    | 65                          | 3,818    | 88                          |
| 362115  | Other fractional horsepower electric motors (under 1 hp.) (excluding timing motors).....              | ..do.....                      | 6,929    | 235                         | 33,016   | 1,080                       |
| 362120  | Integral horsepower motors and generators (1 hp. and over).....                                       | ..do.....                      | 38,926   | 2,901                       | 7,336    | 1,572                       |
| Bearings:   |   |                                |          |                             |          |                             |
| 356218  | Ball.....   | .....                          | (X)      | 1,711                       | (X)      | 1,738                       |
| 356228  | Roller.....   | .....                          | (X)      | 788                         |          |                             |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                     | .....                          | (X)      | 45,222                      | (X)      | 46,975                      |
| 976000  | Materials, etc., n.s.k. <sup>2</sup> .....  | .....                          | (X)      | 15,670                      | (X)      | 8,360                       |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code                                      | Material  | Unit of measure             | 1963     |                          | 1958     |                          |
|---|---|-----------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                             | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3554.—PAPER INDUSTRIES MACHINERY |   |                             |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....  |                             | (X)      | 165,618                  | (X)      | 133,212                  |
|   | Mill shapes and forms (except castings):  |                             |          |                          |          |                          |
|   | Carbon steel:   |                             |          |                          |          |                          |
| 331011                                    | Bars and shapes.....  | Short tons.....             | 19,848   | 4,847                    | 9,353    | 2,241                    |
| 331013                                    | Plates.....   | ..do.....                   | 21,866   | 3,691                    | 11,129   | 1,896                    |
| 331019                                    | All other carbon steel mill shapes and forms.....   | ..do.....                   | 7,212    | 1,990                    | 12,347   | 5,842                    |
| 331020                                    | Alloy steel (except stainless).....   | ..do.....                   | 2,386    | 1,090                    | 3,169    | 1,530                    |
| 331031                                    | Stainless steel.....  | ..do.....                   | 5,185    | 9,654                    | 3,757    | 6,710                    |
|   | Copper and copper-base alloy:   |                             |          |                          |          |                          |
| 335728                                    | Bare wire (for electrical conduction).....  | 1,000 lbs.....              | (D)      | (D)                      |          |                          |
| 335790                                    | Insulated wire and cable.....   | 1,000 lbs. (copper content) | (D)      | (D)                      |          |                          |
| 335102                                    | Rod, bar, and mechanical wire including extruded and/or drawn shapes.....                             | 1,000 lbs.....              | 2,293    | 3,255                    | 3,436    | 4,736                    |
| 335123                                    | Plate, sheet, and strip (including military cups and discs).....                                      | ..do.....                   | 1,157    | 2,240                    |          |                          |
| 335127                                    | Pipe and tube.....  | ..do.....                   | 596      | 323                      |          |                          |
|   | Aluminum and aluminum-base alloy:   |                             |          |                          |          |                          |
| 335202                                    | Sheet, plate, and foil.....   | ..do.....                   |          |                          |          |                          |
| 335205                                    | Extruded shapes (including extruded rod, bar, pipe, tube, etc.).....                                  | ..do.....                   | 442      | 299                      | (NA)     | (NA)                     |
| 335209                                    | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                   |          |                          |          |                          |
|   | Primary metals and scrap:   |                             |          |                          |          |                          |
| 331051                                    | Pig iron, excluding silvery iron.....   | Short tons.....             | 50,442   | 2,884                    | 58,741   | 3,647                    |
| 999811                                    | Iron and steel scrap (excluding home scrap).....  | ..do.....                   | 13,906   | 986                      | 17,516   | 1,116                    |
|   | Castings (rough and semi-finished): <sup>1</sup>  |                             |          |                          |          |                          |
| 332011                                    | Iron (gray malleable).....  | ..do.....                   | 15,558   | 6,250                    | 24,996   | 9,900                    |
| 332300                                    | Steel.....  | ..do.....                   | 2,939    | 2,615                    | 2,729    | 2,408                    |
| 336100                                    | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....              | 452      | 465                      | (NA)     | (NA)                     |
| 336200                                    | Copper and copper-base alloy.....   | ..do.....                   | 1,191    | 778                      | 978      | 750                      |
| 362120                                    | Integral horsepower electric motors and generators (1 hp. and over)                                   | Number.....                 | 8,344    | 5,433                    | 8,924    | 5,190                    |
|   | Bearings:   |                             |          |                          |          |                          |
| 356218                                    | Ball.....   | ..do.....                   | (X)      | 3,220                    | (X)      | 3,415                    |
| 356228                                    | Roller.....   | ..do.....                   | (X)      | 905                      |          |                          |
| 970099                                    | All other materials and components, parts, containers, and supplies consumed.....                     |                             | (X)      | 103,250                  | (X)      | 77,816                   |
| 973000                                    | Materials, etc., n.s.k. <sup>2</sup> .....  |                             | (X)      | 11,443                   | (X)      | 6,015                    |
| INDUSTRY 3555.—PRINTING TRADES MACHINERY  |   |                             |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....  |                             | (X)      | 123,152                  | (X)      | 82,552                   |
|   | Mill shapes and forms (except castings):  |                             |          |                          |          |                          |
|   | Carbon steel:   |                             |          |                          |          |                          |
| 331011                                    | Bars and bar shapes.....  | Short tons.....             | 18,215   | 5,057                    | (NA)     | (NA)                     |
| 331012                                    | Sheet and strip.....  | ..do.....                   | 2,401    | 527                      | (NA)     | (NA)                     |
| 331013                                    | Plates.....   | ..do.....                   | 2,530    | 642                      | (NA)     | (NA)                     |
| 331015                                    | Structural shapes.....  | ..do.....                   | 1,736    | 449                      | (NA)     | (NA)                     |
| 331017                                    | Wire and wire products.....   | ..do.....                   | (NA)     | 37                       | (NA)     | (NA)                     |
| 331019                                    | All other carbon steel mill shapes and forms.....   | ..do.....                   | 1,834    | 807                      | (NA)     | (NA)                     |
|   | Alloy steel (except stainless):   |                             |          |                          |          |                          |
| 331021                                    | Bars and bar shapes.....  | ..do.....                   | 1,799    | 776                      | (NA)     | (NA)                     |
| 331029                                    | All other alloy steel mill shapes and forms.....  | ..do.....                   | 442      | 166                      | (NA)     | (NA)                     |
| 331031                                    | Stainless steel.....  | ..do.....                   | 413      | 904                      | (NA)     | (NA)                     |
|   | Copper and copper-base alloy:   |                             |          |                          |          |                          |
| 335790                                    | Insulated wire and cable.....   | 1,000 lbs. (copper content) | 53       | 16                       | (NA)     | (NA)                     |
| 335102                                    | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.....              | 395      | 241                      |          |                          |
| 335123                                    | Plate, sheet, and strip (including military cups and discs).....                                      | ..do.....                   | 2,590    | 1,255                    | 1,511    | 1,377                    |
| 335127                                    | Pipe and tube.....  | ..do.....                   | 200      | 138                      |          |                          |
|   | Aluminum and aluminum-base alloy:   |                             |          |                          |          |                          |
| 335202                                    | Sheet, plate, and foil.....   | ..do.....                   | 3,221    | 1,623                    | (NA)     | 282                      |
| 335205                                    | Extruded shapes (including extruded rod, bar, pipe, tube, etc.).....                                  | ..do.....                   | 649      | 458                      |          |                          |
| 335209                                    | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                   | 188      | 149                      | (NA)     | 327                      |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | Unit of measure                  | 1963     |                          | 1958     |                          |
|--|---|----------------------------------|----------|--------------------------|----------|--------------------------|
|  |   |                                  | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3555.—PRINTING TRADES MACHINERY—Continued |   |                                  |          |                          |          |                          |
| 331051   | Primary metals and scrap:   |                                  |          |                          |          |                          |
| 999811   | Pig iron, excluding silvery iron.....   | Short tons.....                  | (D)      | (D)                      | 2,223    | 187                      |
|  | Iron and steel scrap (excluding home scrap).....  | ..do.....                        | 1,000    | 44                       | 2,810    | 218                      |
| Castings (rough and semi-finished): <sup>1</sup>   |   |                                  |          |                          |          |                          |
| 332011   | Iron (gray and malleable).....  | ..do.....                        | 33,214   | 13,466                   | 25,656   | 10,302                   |
| 336100   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                   | 1,945    | 2,100                    | 1,195    | 1,303                    |
| 336200   | Copper and copper-base alloy.....   | ..do.....                        | 718      | 675                      | 1,005    | 762                      |
| Electrical motors and generators: <sup>1</sup>     |   |                                  |          |                          |          |                          |
| 362115   | Fractional horsepower electric motors (under 1 hp.) excluding timing motors.....                      | Number.....                      | 29,623   | 1,092                    | 17,002   | 474                      |
| 362120   | Integral horsepower motors and generators (1 hp. and over).....                                       | ..do.....                        | 9,037    | 4,471                    | 5,775    | 1,620                    |
| Bearings:  |   |                                  |          |                          |          |                          |
| 356218   | Ball.....   | .....                            | (X)      | 1,892                    | (X)      | (NA)                     |
| 356228   | Roller.....   | .....                            | (X)      | 1,115                    | (X)      | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....                     | .....                            | (X)      | 58,145                   | (X)      | 54,110                   |
| 973000   | Materials, containers, supplies, n.s.k. <sup>2</sup> .....  | .....                            | (X)      | 26,907                   | (X)      | 11,590                   |
| INDUSTRY 3559.—SPECIAL INDUSTRY MACHINES, N.E.C.   |   |                                  |          |                          |          |                          |
|  | Materials, parts, containers, and supplies, total.....  | .....                            | (X)      | 355,869                  | (X)      | 259,751                  |
| Mill shapes and forms (except castings):           |   |                                  |          |                          |          |                          |
| Carbon steel:                                      |   |                                  |          |                          |          |                          |
| 331011   | Bars and bar shapes.....  | Short tons.....                  | 52,799   | 11,447                   | 35,466   | 7,524                    |
| 331012   | Sheet and strip.....  | ..do.....                        | 34,426   | 6,326                    | 35,155   | 6,141                    |
| 331013   | Plates.....   | ..do.....                        | 73,908   | 12,670                   | 71,611   | 11,979                   |
| 331015   | Structural shapes.....  | ..do.....                        | 23,359   | 4,268                    | 18,762   | 3,304                    |
| 331017   | Wire and wire products.....   | ..do.....                        | 3,764    | 1,617                    | 3,814    | 1,170                    |
| 331019   | All other carbon steel mill shapes and forms.....   | ..do.....                        | 16,354   | 3,569                    | 7,902    | 2,260                    |
| Alloy steel (except stainless):                    |   |                                  |          |                          |          |                          |
| 331021   | Bars and bar shapes.....  | ..do.....                        | 8,663    | 4,083                    | 4,388    | 1,605                    |
| 331029   | All other alloy steel mill shapes and forms.....  | ..do.....                        | 4,535    | 1,704                    | 2,595    | 1,513                    |
| 331031   | Stainless steel.....  | ..do.....                        | 8,204    | 11,979                   | 7,422    | 10,886                   |
| Copper and copper-base alloy:                      |   |                                  |          |                          |          |                          |
| 335728   | Bare wire (for electric conduction).....  | 1,000 lbs.....                   | 559      | 472                      | 82       | 107                      |
| 335790   | Insulated wire and cable.....   | 1,000 lbs. (copper content)..... |          |                          | 276      | 264                      |
| 335102   | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.....                   | 1,501    | 1,053                    | 4,002    | 2,892                    |
| 335123   | Plate, sheet, and strip, (including military cups and discs).....                                     | ..do.....                        | 1,233    | 865                      |          |                          |
| 335127   | Pipe and tube.....  | ..do.....                        | 2,028    | 1,502                    |          |                          |
| Aluminum and aluminum-base alloy:                  |   |                                  |          |                          |          |                          |
| 335202   | Sheet, plate, and foil.....   | ..do.....                        | 1,856    | 1,043                    | 1,676    | 1,185                    |
| 335205   | Extruded shapes (including extruded rod, bar, pipe, tube, etc.).....                                  | ..do.....                        | 1,334    | 980                      | 1,978    | 1,799                    |
| 335209   | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                        | 2,265    | 931                      |          |                          |
| Primary metals and scrap:                          |   |                                  |          |                          |          |                          |
| 331051   | Pig iron, excluding silvery iron.....   | Short tons.....                  | 21,339   | 1,701                    | 19,092   | 1,297                    |
| 999811   | Iron and steel scrap (excluding home scrap).....  | ..do.....                        | 69,525   | 2,050                    | 39,183   | 1,383                    |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material   | Unit of measure | 1963     |                          | 1958     |                          |
|---|--|-----------------|----------|--------------------------|----------|--------------------------|
|   |  |                 | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3559.—SPECIAL INDUSTRY MACHINES,<br>N.E.C.—Continued |  |                 |          |                          |          |                          |
| 332011  | Castings (rough and semi-finished): <sup>1</sup>                                   |                 |          |                          |          |                          |
|   | Iron (gray and malleable).....   | Short tons..... | 33,358   | 14,254                   | 24,717   | 8,230                    |
| 332300  | Steel.....   | ...do.....      | 19,815   | 11,767                   | 14,361   | 8,224                    |
| 336100  | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....  | 3,861    | 3,299                    | 2,615    | 2,641                    |
| 336200  | Copper and copper-base alloy.....  | ...do.....      | 1,962    | 2,005                    | 2,152    | 1,644                    |
| 362115  | Electrical motors and generators: <sup>1</sup>                                     |                 |          |                          |          |                          |
|   | Fractional horsepower electric motors (under 1 hp.) (excluding timing motors)..... | Number.....     | 53,466   | 2,124                    | 40,161   | 1,500                    |
| 362120  | Integral horsepower motors and generators (1 hp. and over).....                    | ...do.....      | 51,116   | 11,211                   | 24,197   | 6,633                    |
| 356218  | Bearings:  |                 |          |                          |          |                          |
|   | Ball.....  | .....           | (X)      | 3,003                    | (X)      | 3,824                    |
| 356228  | Roller.....  | .....           | (X)      | 2,448                    |          |                          |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....  | .....           | (X)      | 178,360                  | (X)      | 139,918                  |
| 976000  | Materials, etc., n.s.k. <sup>2</sup> .....   | .....           | (X)      | 59,138                   | (X)      | 31,828                   |

(D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. n.s.k. Not specified by kind. (X) Not applicable.  
<sup>1</sup>In addition, the following quantities were produced and consumed at the same establishment:

| Code   | Item   | Unit of measure | Industry 3551 |       | Industry 3552 |        | Industry 3553 |        | Industry 3554 |       | Industry 3555 |        | Industry 3559 |      |
|--------|--|-----------------|---------------|-------|---------------|--------|---------------|--------|---------------|-------|---------------|--------|---------------|------|
|        |  |                 | 1963          | 1963  | 1958          | 1963   | 1958          | 1963   | 1958          | 1963  | 1958          | 1963   | 1963          | 1958 |
| 332011 | Castings (rough and semi-finished):  |                 |               |       |               |        |               |        |               |       |               |        |               |      |
|        | Iron (gray and malleable).....   | Short tons      | 4,871         | 6,118 | 2,348         | 11,118 | 4,187         | 31,351 | 33,491        | 3,281 | 12,773        | 17,135 |               |      |
| 332300 | Steel.....   | ...do.....      | (NA)          | (NA)  | (NA)          | 1,191  | (NA)          | (D)    | (NA)          | (NA)  | 134           | (NA)   |               |      |
| 336100 | Aluminum and aluminum-base alloy.....  | 1,000 lbs.      | 338           | 419   | (NA)          | (D)    | (NA)          | (D)    | (NA)          | 92    | 1,640         | (NA)   |               |      |
| 336200 | Copper and copper-base alloy.....  | ...do.....      | (D)           | (NA)  | (NA)          | (D)    | (NA)          | (D)    | (NA)          | (D)   | 173           | (NA)   |               |      |
| 362115 | Electric motors and generators:  |                 |               |       |               |        |               |        |               |       |               |        |               |      |
|        | Fractional horsepower electric motors (under 1 hp.) (excluding timing motors)..... | Number....      | (D)           | (NA)  | (NA)          | (D)    | (NA)          | (NA)   | (NA)          | 533   | 208           | (NA)   |               |      |
| 362120 | Integral horsepower motors and generators (1 hp. and over).....                    | ...do.....      | (D)           | 45    | (NA)          | (D)    | (NA)          | (D)    | (NA)          | (D)   | (D)           | (NA)   |               |      |

Data for iron and steel forgings and timing motors synchronous and subsynchronous for industry 3553 are withheld to avoid disclosing figures for individual companies.

<sup>2</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested, and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

TABLE 7B. Fuels and Electric Energy Consumed, and Horsepower Rating of Power Equipment: 1962

| Item  | Food products machinery (SIC 3551) | Textile machinery (SIC 3552) | Woodworking machinery (SIC 3553) | Paper industries machinery (SIC 3554) | Painting trades machinery (SIC 3555) | Special industry machines, n.e.c. (SIC 3559) |
|---|------------------------------------|------------------------------|----------------------------------|---------------------------------------|--------------------------------------|--|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 4,835                              | 5,716                        | 1,816                            | 3,263                                 | 3,103                                | 8,513  |
| Total cost of purchased fuels.....do....  | 1,896                              | 2,750                        | 703                              | 1,404                                 | 1,134                                | 3,579  |
| Bituminous coal, lignite, and anthracite:   |                                    |                              |                                  |                                       |                                      |  |
| Quantity.....1,000 short tons..   | (S)                                | 52                           | (S)                              | (S)                                   | (S)                                  | 13   |
| Cost.....\$1,000..  | (S)                                | 571                          | (S)                              | (S)                                   | (S)                                  | 125  |
| Coke and breeze:  |                                    |                              |                                  |                                       |                                      |  |
| Quantity.....1,000 short tons..   | (S)                                | 4                            | (S)                              | (S)                                   | (S)                                  | 7  |
| Cost.....\$1,000..  | (S)                                | 120                          | (S)                              | (S)                                   | (S)                                  | 216  |
| Fuel oil (distillate and residual):   |                                    |                              |                                  |                                       |                                      |  |
| Quantity.....1,000 barrels of 42 gallons..  | 133                                | 448                          | 28                               | 137                                   | 166                                  | 316  |
| Cost.....\$1,000..  | 550                                | 1,419                        | 106                              | 546                                   | 671                                  | 1,135  |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |                                    |                              |                                  |                                       |                                      |  |
| Quantity.....million cu. ft..   | 829                                | 642                          | 486                              | 650                                   | 433                                  | 2,232  |
| Cost.....\$1,000..  | 638                                | 398                          | 307                              | 465                                   | 316                                  | 1,401  |
| Other fuels.....do....  | 527                                | 242                          | 61                               | 182                                   | 73                                   | 702  |
| Electric energy:  |                                    |                              |                                  |                                       |                                      |  |
| Purchased:  |                                    |                              |                                  |                                       |                                      |  |
| Quantity.....million kw.-hrs..  | 155                                | 206                          | 90                               | 136                                   | 109                                  | 295  |
| Cost.....\$1,000..  | 2,939                              | 2,966                        | 1,113                            | 1,859                                 | 1,969                                | 4,934  |
| Generated less sold.....million kw.-hrs..   | (S)                                | 21                           | -                                | (S)                                   | -                                    | 10   |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 138                                | 182                          | 44                               | 122                                   | 109                                  | 275  |
| Prime movers, total.....do....  | 8                                  | 23                           | 3                                | 11                                    | 3                                    | 28   |
| Driving generators.....do....   | 3                                  | 18                           | 1                                | 2                                     | 2                                    | 16   |
| Not driving generators.....do....   | 5                                  | 5                            | 2                                | 9                                     | 1                                    | 12   |
| Electric motors, total.....do....   | 130                                | 178                          | 42                               | 112                                   | 107                                  | 257  |
| Driven by purchased energy.....do....   | 130                                | 159                          | 42                               | 112                                   | 106                                  | 246  |
| Driven by energy generated at establishment.....do....  | (Z)                                | 19                           | -                                | -                                     | 1                                    | 11   |
| Aggregate horsepower per 100 production workers.....  | 636                                | 660                          | 484                              | 920                                   | 659                                  | 809  |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

-Represents zero. (Z) Less than 500 hp.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); cost of fuel less than \$50 thousand; quantity of electric energy less than 5 million kw.-hrs.; to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

n.e.c. Not elsewhere classified.



**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3551-                          | FOOD PRODUCTS MACHINERY  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 681                     | 31,684         | 205,368           | 21,018             | 43,276            | 118,036         | 380,406  | 255,278                     | 640,507                      | 11,031                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 554                     | 19,446         | 125,121           | 13,043             | 26,750            | 72,609          | 243,890  | 157,280                     | 405,563                      | 7,030                               |
|                                | 75-89% specialization.....   | 31                      | 3,504          | 22,827            | 2,173              | 4,361             | 12,177          | 39,943   | 25,622                      | 64,222                       | 662                                 |
| 35511                          | Dairy and milk products plant machinery and equipment (primary product class of estab.).....                       | 66                      | 4,318          | 28,196            | 2,872              | 5,488             | 14,996          | 68,356   | 40,017                      | 110,923                      | 1,393                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 47                      | 2,271          | 16,448            | 1,475              | 2,830             | 8,189           | 49,977   | 20,604                      | 73,819                       | 991                                 |
|                                | 75-89% specialization.....   | 5                       | 492            | 2,707             | 366                | 709               | 1,821           | 3,549  | 7,949                       | 10,583                       | 39                                  |
| 35512                          | Commercial food-products machinery (primary product class of estab.).....  | 165                     | 6,982          | 44,450            | 4,686              | 9,708             | 26,235          | 77,993   | 52,000                      | 128,966                      | 2,470                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 122                     | 4,314          | 26,487            | 3,005              | 6,166             | 16,752          | 50,715   | 30,713                      | 80,631                       | 1,562                               |
|                                | 75-89% specialization.....   | 18                      | 606            | 3,674             | 348                | 682               | 1,724           | 5,754  | 5,006                       | 10,894                       | 105                                 |
| 35513                          | Other industrial food products machinery.....  | 276                     | 18,685         | 123,419           | 12,202             | 25,462            | 70,568          | 216,545  | 151,037                     | 370,808                      | 6,730                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 186                     | 8,292          | 53,272            | 5,583              | 11,766            | 31,402          | 94,175   | 70,723                      | 165,939                      | 2,935                               |
|                                | 75-89% specialization.....   | 27                      | 3,267          | 22,259            | 1,956              | 3,996             | 11,456          | 40,097   | 19,580                      | 59,473                       | 734                                 |
| 3552-                          | TEXTILE MACHINERY  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 561                     | 36,004         | 196,379           | 26,870             | 56,145            | 129,064         | 314,190  | 232,271                     | 542,684                      | 13,870                              |
|                                | Establishment with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 500                     | 24,721         | 133,138           | 18,454             | 38,925            | 86,856          | 227,927  | 174,630                     | 400,865                      | 9,916                               |
|                                | 75-89% specialization.....   | 19                      | 5,670          | 31,551            | 4,100              | 8,362             | 20,139          | 43,711   | 33,106                      | 76,775                       | 1,063                               |
| 35521                          | Textile Machinery (primary product class of estab.).....   | 164                     | 21,015         | 119,218           | 15,072             | 31,757            | 75,301          | 186,011  | 125,359                     | 309,177                      | 7,257                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 91                      | 2,635          | 14,638            | 1,969              | 4,261             | 9,562           | 27,888   | 21,564                      | 48,855                       | 1,119                               |
|                                | 75-89% specialization.....   | 28                      | 4,521          | 23,755            | 3,213              | 6,721             | 13,798          | 41,988   | 35,102                      | 77,357                       | 1,054                               |
| 35522                          | Parts and attachments for textile machinery (primary product class of estab.).....                                 | 235                     | 13,687         | 71,179            | 10,738             | 22,196            | 49,298          | 117,452  | 101,169                     | 217,124                      | 6,246                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 180                     | 5,385          | 25,413            | 4,358              | 9,073             | 17,475          | 42,579   | 34,209                      | 76,624                       | 1,815                               |
|                                | 75-89% specialization.....   | 25                      | 2,144          | 11,481            | 1,709              | 3,295             | 8,191           | 15,994   | 13,269                      | 29,194                       | 744                                 |
| 3553-                          | WOODWORKING MACHINERY  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 249                     | 12,057         | 72,928            | 8,725              | 17,662            | 45,877          | 146,998  | 110,061                     | 252,762                      | 4,720                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 200                     | 4,731          | 27,727            | 3,365              | 6,614             | 17,456          | 64,457   | 45,063                      | 108,164                      | 1,699                               |
|                                | 75-89% specialization.....   | 12                      | 1,601          | 10,253            | 1,148              | 2,424             | 6,170           | 25,102   | 14,616                      | 40,047                       | 673                                 |
| 35531                          | Woodworking machinery (except homeworkshop) including parts and attachments (primary product class of estab.)..... | 149                     | 10,199         | 61,261            | 7,378              | 14,879            | 37,984          | 126,396  | 93,352                      | 216,902                      | 3,980                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 108                     | 3,603          | 22,114            | 2,542              | 5,031             | 13,707          | 51,163   | 34,774                      | 84,556                       | 1,301                               |
|                                | 75-89% specialization.....   | 12                      | 1,065          | 6,601             | 793                | 1,685             | 4,263           | 11,770   | 10,136                      | 22,271                       | 351                                 |
| 35532                          | Woodworking machinery for homeworkshop including parts and attachments (primary product class of estab.).....      | 16                      | 1,572          | 10,173            | 1,132              | 2,384             | 6,781           | 17,552   | 14,188                      | 30,139                       | 576                                 |

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3554-                          | PAPER INDUSTRIES MACHINERY  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 217                     | 18,605         | 130,614           | 12,914             | 27,233            | 82,299          | 217,475  | 196,467                     | 403,925                      | 10,349                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 181                     | 13,135         | 93,668            | 9,490              | 19,551            | 62,067          | 154,075  | 153,916                     | 299,595                      | 7,095                               |
|                                | 75-89% specialization.....  | 10                      | 756            | 6,041             | 506                | 1,244             | 3,677           | 10,066   | 7,226                       | 16,763                       | 370                                 |
| 3555-                          | PRINTING TRADES MACHINERY   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 490                     | 22,952         | 159,407           | 16,437             | 34,269            | 104,446         | 285,879  | 170,723                     | 448,398                      | 8,911                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 438                     | 19,290         | 135,057           | 13,637             | 28,427            | 87,256          | 240,067  | 144,871                     | 375,686                      | 7,763                               |
|                                | 75-89% specialization.....  | 16                      | 2,275          | 14,715            | 1,770              | 3,473             | 10,840          | 30,706   | 17,325                      | 49,012                       | 966                                 |
| 35551                          | Printing presses (primary product class of estab.).....   | 44                      | 9,404          | 69,378            | 6,618              | 14,126            | 45,831          | 115,642  | 75,054                      | 186,645                      | 4,459                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 26                      | 3,320          | 22,938            | 2,435              | 5,124             | 16,033          | 42,565   | 22,034                      | 63,103                       | 1,405                               |
|                                | 75-89% specialization.....  | 5                       | 3,059          | 23,149            | 2,201              | 4,525             | 15,772          | 32,753   | 20,326                      | 50,724                       | 1,634                               |
| 35552                          | Other printing trades machinery including parts and attachments (primary product class of estab.) | 206                     | 12,352         | 83,197            | 8,955              | 18,399            | 53,784          | 157,011  | 88,889                      | 240,730                      | 4,048                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 158                     | 8,115          | 55,001            | 5,829              | 11,898            | 35,096          | 100,938  | 53,573                      | 149,667                      | 2,482                               |
|                                | 75-89% specialization.....  | 20                      | 2,102          | 14,194            | 1,653              | 3,296             | 10,274          | 31,252   | 17,067                      | 49,128                       | 920                                 |
| 3559-                          | SPECIAL INDUSTRY MACHINES N.E.C...  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 1,092                   | 50,226         | 330,127           | 34,063             | 70,932            | 199,400         | 572,236  | 433,933                     | 1,015,014                    | 22,533                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 887                     | 28,448         | 183,519           | 19,439             | 40,478            | 109,696         | 320,304  | 271,330                     | 592,861                      | 14,329                              |
|                                | 75-89% specialization.....  | 48                      | 5,082          | 35,493            | 3,121              | 6,454             | 19,768          | 58,756   | 44,799                      | 102,676                      | 1,838                               |
| 35591                          | Chemical manufacturing industries machinery (primary product class of estab.).....                | 79                      | 7,629          | 52,163            | 4,737              | 9,869             | 28,113          | 87,577   | 62,627                      | 149,732                      | 2,906                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 43                      | 1,652          | 13,774            | 1,074              | 2,195             | 6,905           | 20,882   | 18,363                      | 37,825                       | 801                                 |
|                                | 75-89% specialization.....  | 10                      | 1,291          | 9,435             | 677                | 1,365             | 4,243           | 16,032   | 10,142                      | 26,397                       | 730                                 |
| 35592                          | Foundry machinery (primary product class of estab.).....  | 70                      | 5,161          | 35,169            | 3,405              | 7,388             | 20,086          | 65,255   | 44,276                      | 109,234                      | 1,796                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 51                      | 1,959          | 13,702            | 1,300              | 2,963             | 7,748           | 27,758   | 17,108                      | 44,622                       | 461                                 |
|                                | 75-89% specialization.....  | 8                       | 1,270          | 8,462             | 753                | 1,598             | 4,319           | 12,894   | 13,001                      | 25,843                       | 396                                 |
| 35593                          | Plastics working machinery (primary product class of estab.)....                                  | 95                      | 7,399          | 52,532            | 4,899              | 10,461            | 31,098          | 92,070   | 72,979                      | 163,333                      | 3,931                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 59                      | 1,842          | 12,037            | 1,187              | 2,529             | 6,644           | 18,381   | 19,640                      | 38,109                       | 1,292                               |
|                                | 75-89% specialization.....  | 8                       | 664            | 4,615             | 386                | 807               | 2,503           | 9,930  | 9,409                       | 18,884                       | 367                                 |
| 35594                          | Rubber working machinery (primary product class of estab.).....                                   | 35                      | 3,162          | 21,451            | 2,197              | 4,569             | 14,081          | 37,976   | 37,227                      | 76,433                       | 1,067                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 22                      | 2,146          | 13,940            | 1,595              | 3,288             | 9,234           | 26,637   | 22,249                      | 49,964                       | 580                                 |
| 35595                          | Other special industrial machinery (primary product class of estab.)                              | 492                     | 24,487         | 155,903           | 17,002             | 35,043            | 96,635          | 265,579  | 212,442                     | 478,604                      | 11,860                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 375                     | 14,878         | 91,914            | 10,215             | 20,945            | 56,104          | 164,216  | 135,240                     | 299,429                      | 8,068                               |
|                                | 75-89% specialization.....  | 42                      | 3,171          | 22,682            | 2,159              | 4,537             | 13,642          | 31,363   | 29,261                      | 62,634                       | 1,874                               |

n.e.c. Not elsewhere classified.



TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations                           | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|---|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|   | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|   |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3551.—FOOD PRODUCTS MACHINERY            |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....                              | 11                       | 2   | 4       | 5          | 323                                   | (D)                                       | (D)     | 281        |
| Nonferrous foundry (except die casting).....      | 9                        | 6   | 2       | 1          | 54                                    | 17  | (D)     | (D)        |
| Heat treating of metals.....                      | 34                       | 29  | 5       | -          | 100                                   | 52  | 48      | -          |
| Automatic screw machine department.....           | 27                       | 20  | 4       | 3          | 135                                   | 27  | 33      | 75         |
| Machine shop.....                                 | 297                      | 95  | 126     | 76         | 6,342                                 | 186                                       | 1,246   | 4,910      |
| Tool and die shop.....                            | 59                       | 41  | 15      | 3          | 273                                   | 68  | 114     | 91         |
| Foundry pattern shop.....                         | 30                       | 25  | 5       | -          | 87                                    | 39  | 48      | -          |
| Plate or structural fabrication.....              | 148                      | 50  | 57      | 41         | 2,298                                 | 107                                       | 493     | 1,698      |
| Stamping, blanking and forming of metals.....     | 126                      | 76  | 42      | 8          | 733                                   | 161                                       | 360     | 212        |
| Painting, lacquering and enameling on metals..... | 187                      | 169                                       | 17      | 1          | 398                                   | 248                                       | (D)     | (D)        |
| INDUSTRY 3552.—TEXTILE MACHINERY                  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....                              | 18                       | 2   | 2       | 14         | 1,079                                 | (D)                                       | (D)     | 1,049      |
| Nonferrous foundry (except die casting).....      | 10                       | 3   | 3       | 4          | 117                                   | 7   | 19      | 91         |
| Heat treating of metals.....                      | 66                       | 44  | 18      | 4          | 354                                   | 62  | 156     | 136        |
| Automatic screw machine department.....           | 50                       | 23  | 16      | 11         | 595                                   | 43  | 142     | 410        |
| Machine shop.....                                 | 234                      | 64  | 88      | 82         | 9,282                                 | 89  | 851     | 8,342      |
| Tool and die shop.....                            | 60                       | 32  | 20      | 8          | 769                                   | 54  | 197     | 518        |
| Foundry pattern shop.....                         | 34                       | 27  | 5       | 2          | 159                                   | 52  | (D)     | (D)        |
| Plate or structural fabrication.....              | 73                       | 43  | 18      | 12         | 750                                   | 87  | 172     | 491        |
| Stamping, blanking and forming of metals.....     | 93                       | 49  | 26      | 18         | 1,209                                 | 86  | 251     | 872        |
| Painting, lacquering and enameling on metals..... | 102                      | 87  | 11      | 4          | 351                                   | 118                                       | 92      | 141        |
| INDUSTRY 3553.—WOODWORKING MACHINERY              |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....                              | 13                       | 4   | 6       | 3          | 310                                   | 10  | 54      | 246        |
| Nonferrous foundry (except die casting).....      | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Nonferrous die casting.....                       | 3                        | 1   | 1       | 1          | 72                                    | (D)                                       | (D)     | (D)        |
| Forging.....                                      | 3                        | 3   | -       | -          | 5                                     | 5   | -       | -          |
| Electroplating and other plating.....             | 5                        | 1   | 3       | 1          | 89                                    | (D)                                       | (D)     | (D)        |
| Heat treating of metals.....                      | 20                       | 17  | 3       | -          | 74                                    | 38  | 36      | -          |
| Automatic screw machine department.....           | 17                       | 14  | 2       | 1          | 67                                    | 23  | (D)     | (D)        |
| Machine shop.....                                 | 119                      | 31  | 45      | 43         | 3,274                                 | 50  | 467     | 2,757      |
| Tool and die shop.....                            | 31                       | 20  | 10      | 1          | 247                                   | 40  | (D)     | (D)        |
| Foundry pattern shop.....                         | 18                       | 17  | 1       | -          | 32                                    | (D)                                       | (D)     | -          |
| Plate or structural fabrication.....              | 51                       | 18  | 26      | 7          | 431                                   | 26  | 242     | 163        |
| Stamping, blanking and forming of metals.....     | 31                       | 18  | 12      | 1          | 212                                   | 27  | (D)     | (D)        |
| Painting, lacquering and enameling on metals..... | 80                       | 70  | 8       | 2          | 219                                   | 83  | (D)     | (D)        |
| INDUSTRY 3554.—PAPER INDUSTRIES MACHINERY         |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....                              | 11                       | 1   | 3       | 7          | 733                                   | (D)                                       | (D)     | 697        |
| Nonferrous foundry (except die casting).....      | 9                        | 7   | 1       | 1          | 46                                    | (D)                                       | (D)     | (D)        |
| Heat treating of metals.....                      | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Automatic screw machine department.....           | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Machine shop.....                                 | 102                      | 21  | 31      | 50         | 7,779                                 | 22  | 330     | 7,427      |
| Tool and die shop.....                            | 19                       | 10  | 8       | 1          | 105                                   | 25  | (D)     | (D)        |
| Foundry pattern shop.....                         | 25                       | 17  | 6       | 2          | 131                                   | 26  | (D)     | (D)        |
| Plate or structural fabrication.....              | 36                       | 19  | 9       | 8          | 592                                   | 29  | 88      | 475        |
| Stamping, blanking and forming of metals.....     | 2                        | 2   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Painting, lacquering and enameling on metals..... | 45                       | 41  | 4       | -          | 84                                    | 58  | 26      | -          |
| INDUSTRY 3555.—PRINTING TRADES MACHINERY          |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....                              | 6                        | -   | 2       | 4          | 145                                   | -   | (D)     | (D)        |
| Nonferrous foundry (except die casting).....      | 5                        | 3   | 1       | 1          | 51                                    | (D)                                       | (D)     | (D)        |
| Heat treating of metals.....                      | 27                       | 20  | 7       | -          | 84                                    | 30  | 54      | -          |
| Automatic screw machine department.....           | 14                       | 11  | 1       | 2          | 139                                   | 18  | (D)     | (D)        |
| Machine shop.....                                 | 125                      | 26  | 47      | 52         | 7,135                                 | 65  | 468     | 6,602      |
| Tool and die shop.....                            | 31                       | 12  | 18      | 1          | 255                                   | 26  | (D)     | (D)        |
| Foundry pattern shop.....                         | 15                       | 9   | 6       | -          | 82                                    | 18  | 64      | -          |
| Plate or structural fabrication.....              | 31                       | 18  | 9       | 4          | 250                                   | 34  | 61      | 155        |
| Stamping, blanking and forming of metals.....     | 25                       | 17  | 5       | 3          | 323                                   | 33  | 38      | 252        |
| Painting, lacquering and enameling on metals..... | 68                       | 51  | 15      | 2          | 249                                   | 90  | (D)     | (D)        |

See footnotes at end of table.

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963—Continued

| Metalworking operations                           | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|---|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|   | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|   |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3559.—SPECIAL INDUSTRY MACHINES, N.E.C.  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....                              | 24                       | 2   | 7       | 15         | 1,081                                 | (D)                                       | (D)     | 1,000      |
| Nonferrous foundry (except die casting).....      | 21                       | 11  | 7       | 3          | 201                                   | 24  | 60      | 117        |
| Forging.....                                      | 7                        | 4   | 2       | 1          | 115                                   | 9   | (D)     | (D)        |
| Electroplating and other plating.....             | 17                       | 13  | 4       | -          | 56                                    | 18  | 38      | -          |
| Galvanizing and other hot dip coating.....        | 5                        | 4   | 1       | -          | 12                                    | (D)                                       | (D)     | -          |
| Heat treating of metals.....                      | 62                       | 51  | 10      | 1          | 177                                   | 83  | (D)     | (D)        |
| Automatic screw machine department.....           | 27                       | 20  | 7       | -          | 92                                    | 33  | 59      | -          |
| Machine shop.....                                 | 421                      | 135                                       | 148     | 138        | 11,911                                | 256                                       | 1,406   | 10,249     |
| Tool and die shop.....                            | 80                       | 44  | 27      | 9          | 592                                   | 75  | 248     | 269        |
| Foundry pattern shop.....                         | 50                       | 44  | 5       | 1          | 151                                   | 71  | (D)     | (D)        |
| Plate or structural fabrication.....              | 223                      | 91  | 85      | 47         | 3,614                                 | 180                                       | 847     | 2,587      |
| Stamping, blanking and forming of metals.....     | 101                      | 54  | 34      | 13         | 957                                   | 96  | 324     | 537        |
| Painting, lacquering and enameling on metals..... | 224                      | 198                                       | 23      | 3          | 535                                   | 271                                       | 204     | 60         |

Note: Very small establishments were not requested to report their metalworking operations and in some instances a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production worker employment on the last line of the table below.

| Item  | Industry |       |       |        |       |       |
|---|----------|-------|-------|--------|-------|-------|
|   | 3551     | 3552  | 3553  | 3554   | 3555  | 3559  |
| Total number of establishments in the industry.....   | 681      | 561   | 249   | 217    | 490   | 1,092 |
| Number of establishments which reported one or more of the specified operations.....                          | 353      | 261   | 143   | 125    | 162   | 537   |
| Percent of industry production workers in these establishments.....   | 80-85    | 80-85 | 90-95 | 90-95  | 80-85 | 85-90 |
| Number of establishments which reported "none" of the operations apply.....                                   | 14       | 43    | 5     | 10     | 54    | 31    |
| Percent of industry production workers in these establishments.....   | 0-5      | 0-5   | 0-5   | 0-5    | 0-5   | 0-5   |
| Percent of industry production workers in establishments which completed metalworking operations inquiry..... | 80-85    | 80-85 | 90-95 | 95-100 | 85-90 | 85-90 |

- Represents zero. n.e.c. Not elsewhere classified.

(D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishment.



## GENERAL INDUSTRIAL MACHINERY AND EQUIPMENT

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3561—Pumps, Air and Gas Compressors, and Pumping Equipment
- 3562—Ball and Roller Bearings
- 3564—Blowers, Exhaust and Ventilating Fans
- 3565—Industrial Patterns
- 3566—Mechanical Power Transmission Equipment, Except Ball and Roller Bearings
- 3567—Industrial Process Furnaces and Ovens
- 3569—General Industrial Machinery and Equipment, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3561—PUMPS, AIR AND GAS COMPRESSORS, AND PUMPING EQUIPMENT

This industry comprises establishments primarily engaged in manufacturing pumps, compressors, and pumping equipment for general industrial use. Establishments primarily engaged in manufacturing measuring and dispensing pumps for gasoline service station use are classified in industry 3586; and ice making, refrigerating, and air conditioning units in industry 3585. For a detailed list of products of industry 3561, refer to table 6A, product codes 3561101 to 3561611.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Pumps and Compressors Industry totaled \$1,419 million. This amount included shipments of pumps and compressors (primary products) valued at \$1,070 million, shipments of other products (secondary products) valued at \$186 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$163 million.

This industry's shipments of pumps and compressors represented 85 percent of its total product shipments. The industry specialization ratio in 1958 was 87 percent. Secondary

products shipped by this industry in 1963 include other metal valves and fittings (\$22 million), and parts and accessories for internal combustion engines (\$12 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 29 percent of the total industry shipments are represented by plants specializing in industrial pumps, except fluid power; and 27 percent in air and gas compressors, except refrigeration.

Shipments of pumps and compressors by this industry represented 86 percent of all shipments of these products (\$1,249 million) by all industries. In 1958 the coverage ratio was 85 percent. Other industries shipping pumps and compressors (primary products) include industry 3519, Internal Combustion Engines, \$26 million; and industry 3494, Valves and Pipe Fittings, \$16 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3561, e.g., Domestic water systems and pumps, 93 percent; and Hydraulic fluid power pumps and motors, 76 percent.

The production index for the primary products of the industry increased to 147 in 1963 from the 1958 level of 101. The unit value index for 1963 was 95 compared to 113 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3562—BALL AND ROLLER BEARINGS

This industry comprises establishments primarily engaged in manufacturing ball and roller bearings and parts. Establishments primarily engaged in manufacturing bearings, except ball and roller, are classified in industry 3566. For a detailed list of products of industry 3562, refer to table 6A, product codes 3562111 to 3562451.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Ball and Roller Bearings Industry totaled \$999 million. This amount included shipments of ball and roller bearings (primary products) valued at \$946 million, shipments of other products (secondary products) valued at \$32 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$21 million.

This industry's shipments of ball and roller bearings represented 97 percent of its total product shipments. The industry specialization ratio in 1958 was 98 percent. Secondary products shipped by this industry in 1963 include power transmission equipment (\$5 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 48 percent of the total industry shipments are represented by plants specializing in roller bearings, complete; and 42 percent in ball bearings, complete.

Shipments of ball and roller bearings by this industry represented 98 percent of all shipments of these products (\$961 million) by all industries. In 1958 the coverage ratio was also 98 percent. Other industries shipping ball and roller bearings include industry 3566, Power Transmission Equipment, \$12 million.



### 3564—BLOWERS, EXHAUST AND VENTILATING FANS

This industry comprises establishments primarily engaged in manufacturing blowers, and exhaust and ventilating fans for general industrial, commercial, and household use. Establishments primarily engaged in manufacturing complete air conditioning units are classified in industry 3585, and free air circulating fans for use on desks, pedestals, or wall brackets in industry 3634. For a detailed list of products of industry 3564, refer to table 6A, product codes 3564111 to 3564255.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Blowers and Fans Industry totaled \$315 million. This amount included shipments of blowers and fans (primary products) valued at \$237 million, shipments of other products (secondary products) valued at \$51 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$28 million.

This industry's shipments of blowers and fans represented 83 percent of its total product shipments. The industry specialization ratio in 1958 was also 83 percent. Secondary products shipped by this industry in 1963 includes nonelectric heating equipment (\$9 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 69 percent of the total industry shipments are represented by plants specializing in industrial fans and blowers; and 24 percent in dust collection, air purification equipment, and air washers.

Shipments of blowers and fans by this industry represented 79 percent of all shipments of these products (\$299 million) by all industries. In 1958 the coverage ratio was also 79 percent. Other industries shipping blowers and fans include industry 3585, Refrigeration Machinery, \$12 million; and industry 3444, Sheet Metal Work, \$8 million.

### 3565—INDUSTRIAL PATTERNS

This industry comprises establishments primarily engaged in manufacturing industrial patterns. For a detailed list of products of industry 3565, refer to table 6A, product codes 3565011 to 3565098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Industrial Patterns Industry totaled \$141 million. This amount included shipments of industrial patterns (primary products) valued at \$128 million, shipments of other products (secondary products) valued at \$6 million, and miscellaneous receipts at \$7 million.

This industry's shipments of industrial patterns represented 96 percent of its total product shipments. The industry specialization ratio in 1958 was 95 percent.

Shipments of industrial patterns by this industry represented 80 percent of all shipments of these products (\$160 million) by all industries. In 1958 the coverage ratio was 74 percent. Other industries shipping industrial patterns (primary products) include industry 3321, Gray Iron Foundries, \$10 million; and industry 3323, Steel Foundries, \$6 million.

### 3566—MECHANICAL POWER TRANSMISSION EQUIPMENT, EXCEPT BALL AND ROLLER BEARINGS

This industry comprises establishments primarily engaged in manufacturing mechanical power transmission equipment and parts for industrial machinery. Establishments primarily engaged in manufacturing automotive, tank, and tractor power transmission equipment are classified in industry 3714 (census industry 3717); aircraft power transmission equipment in industry 3729; and ball and roller bearings in industry 3562. For a detailed list of products of industry 3566, refer to table 6A, product codes 3566115 to 3566398.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Power Transmission Equipment Industry totaled \$889 million. This amount included shipments of power transmission equipment (primary products) valued at \$696 million, shipments of other products (secondary products) valued at \$130 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$63 million.

This industry's shipments of mechanical power transmission equipment represented 84 percent of its total product shipments. The industry specialization ratio in 1958 was 83 percent. Secondary products shipped by this industry in 1963 include motor vehicles and parts (\$30 million), and conveyors (\$19 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 37 percent of the total industry shipments are represented by plants specializing in speed changers, industrial high-speed drives and gears.

Shipments of power transmission equipment by this industry represented 79 percent of all shipments of these products (\$883 million) by all industries. In 1958 the coverage ratio was also 79 percent. Other industries shipping mechanical power transmission equipment (primary products) include industry 3717, Motor Vehicles and Parts, \$34 million; and industry 3621, Motors and Generators, \$22 million.

### 3567—INDUSTRIAL PROCESS FURNACES AND OVENS

This industry comprises establishments primarily engaged in manufacturing industrial process furnaces, ovens, induction and dielectric heating equipment, and related devices. For a detailed list of products of industry 3567, refer to table 6A, product codes 3567111 to 3567391.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Industrial Furnaces and Ovens Industry totaled \$279 million. This amount included shipments of industrial furnaces and ovens (primary products) valued at \$202 million, shipments of other products (secondary products) valued at \$40 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$37 million.

This industry's shipments of industrial furnaces and ovens represented 83 percent of its total product shipments. The industry specialization ratio in 1958 was 85 percent. Secondary products shipped by this industry in 1963 include special industry machines, n.e.c. (\$15 million).



While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 41 percent of the total industry shipments are represented by plants specializing in high frequency induction and dielectric heating equipment and 34 percent in fuel-fired industrial furnaces and ovens, metal processing.

Shipments of industrial furnaces and ovens by this industry represented 85 percent of all shipments of these products (\$238 million) by all industries. In 1958 the coverage ratio was 83 percent.

The production index for the primary products of the industry increased to 126 in 1963 from the 1958 level of 91. The unit value index for 1963 was 111 compared to 114 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3569—GENERAL INDUSTRIAL MACHINERY AND EQUIPMENT, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing machinery, equipment, and components for general industrial use, and for which no special classification is provided. Machine shops primarily engaged in producing machine and equipment parts, usually on a job or order basis, are classified in industry 3599. For a detailed list of products of industry 3569, refer to table 6A, product codes 3569012 to 3569098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the General Industry Machines, N.E.C., Industry totaled \$691 million. This amount included shipments of general industry machines, n.e.c., (primary products) valued at \$463 million, shipments of other products (secondary products) valued at \$93 million, and miscellaneous receipts (mainly receipts for research and development) at \$136 million.

This industry's shipments of general industry machines, n.e.c., represented 83 percent of its total product shipments (primary and secondary). The industry specialization ratio in 1958 was 87 percent. Secondary products shipped by this industry in 1963 include nonelectric heating equipment (\$15 million) and metalworking machines, n.e.c. (\$8 million).

Shipments of general industry machines, n.e.c., by this industry represented 70 percent of all shipments of these products (\$664 million) by all industries. In 1958 the coverage ratio was 74 percent. Other industries shipping general industry machinery, n.e.c. (primary products) include industry 3559, Special Industry Machines, N.E.C., \$16 million; and industry 3599, Miscellaneous Machinery, \$13 million.

**GENERAL INDUSTRIAL MACHINERY: SIC 356**  
 Value Added by Manufacture by State: 1963

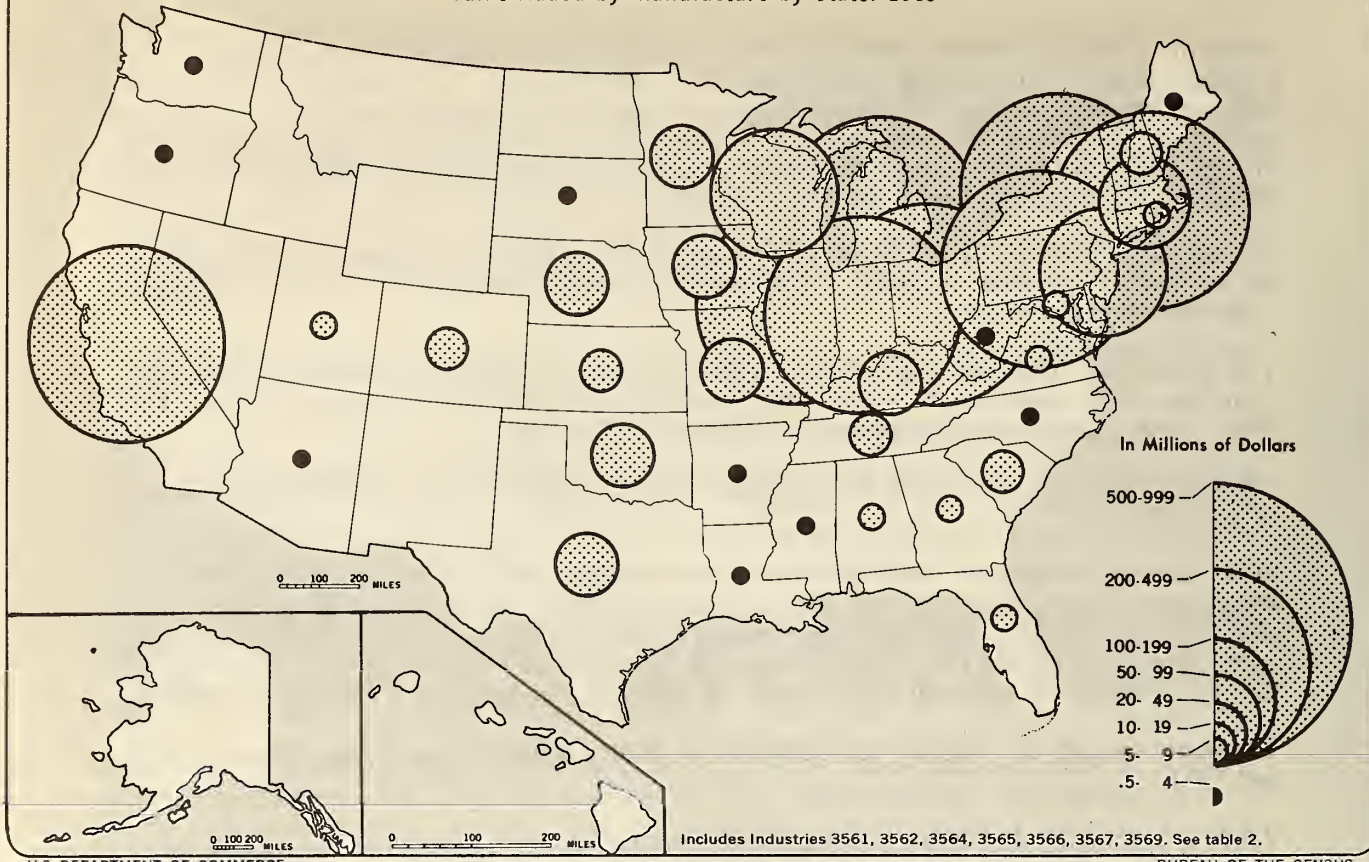




TABLE 1. General Statistics: 1963 and Earlier Years

| Year  | Compan-<br>ies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spec-<br>ializa-<br>tion<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3561.—PUMPS AND COMPRESSORS        |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 589                        | 642               | 267  | 61,322            | 395,769              | 38,934             | 80,825               | 224,721            | 768,787  | 660,549                           | 1,419,081                          | 28,417  | 85  | 86                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 61,609            | 383,325              | 38,180             | 78,648               | 214,398            | 681,380  | 601,994                           | 1,296,653                          | 24,672  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 59,415            | 353,585              | 37,005             | 75,601               | 196,187            | 636,007  | 569,392                           | 1,229,662                          | 18,480  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 62,806            | 360,813              | 39,716             | 80,543               | 206,072            | 674,077  | 603,031                           | 1,275,082                          | 26,133  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 59,398            | 330,516              | 38,134             | 76,380               | 188,592            | 623,976  | 580,712                           | 1,207,558                          | 23,883  | (NA)  | (NA)                                     |
| 1958.....                                   | 530                        | 582               | 243  | 60,042            | 321,509              | 37,407             | 74,975               | 180,146            | 542,037  | 535,221                           | 1,114,053                          | 24,678  | 87  | 85                                       |
| 1957 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 62,105            | 317,730              | 40,799             | 83,472               | 188,579            | 589,595  | 518,080                           | 1,091,719                          | 29,877  | 86  | 83                                       |
| 1956 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 59,507            | 295,413              | 40,505             | 84,206               | 183,524            | 576,470  | 485,832                           | 1,029,401                          | 25,005  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 60,562            | 286,231              | 41,152             | 84,353               | 177,358            | 565,597  | 440,767                           | 963,036                            | 17,967  | (NA)  | (NA)                                     |
| 1954.....                                   | 463                        | 496               | 237  | 60,324            | 272,632              | 41,269             | 82,859               | 168,613            | 495,471  | 460,547                           | 974,810                            | 18,015  | 82  | 78                                       |
| 1953 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 61,269            | 273,140              | 42,350             | 90,035               | 181,588            | 481,639  | 440,924                           | 922,563                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 60,992            | 260,461              | 42,947             | 91,443               | 175,424            | 475,041  | 410,404                           | 885,445                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 58,674            | 237,535              | 41,883             | 89,628               | 160,811            | 407,324  | 393,184                           | 800,508                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 44,016            | 155,104              | 30,500             | 60,740               | 99,308             | 268,416  | 232,170                           | 500,586                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 44,714            | 149,401              | 30,888             | 62,036               | 95,455             | 261,833  | 228,355                           | 490,188                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                   | 425                        | 448               | 237  | 56,142            | 172,857              | 41,413             | 85,505               | 119,763            | 291,658  | 1279,555                          | 571,213                            | 14,631  | 81  | 85                                       |
| 1939.....                                   | (NA)                       | 369               | (NA)   | (NA)              | (NA)                 | (NA)               | (NA)                 | 27,480             | 84,780   | 57,034                            | 141,814                            | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> .....                     | (NA)                       | 310               | (NA)   | (NA)              | (NA)                 | (NA)               | (NA)                 | 30,910             | 83,297   | 60,749                            | 144,046                            | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3562.—BALL AND ROLLER BEARINGS     |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 93                         | 125               | 93   | 52,316            | 348,700              | 42,003             | 85,970               | 263,022            | 627,694  | 372,267                           | 998,784                            | 39,243  | 97  | 98                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 53,397            | 348,048              | 42,458             | 84,964               | 249,621            | 623,505  | 345,394                           | 962,726                            | 32,881  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 50,288            | 306,430              | 39,584             | 76,779               | 215,375            | 530,444  | 291,615                           | 824,134                            | 32,269  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 54,113            | 315,114              | 42,562             | 84,132               | 225,751            | 547,608  | 315,842                           | 865,331                            | 44,862  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 53,707            | 325,313              | 43,373             | 91,561               | 243,186            | 599,776  | 358,661                           | 920,049                            | 35,488  | (NA)  | (NA)                                     |
| 1958.....                                   | 86                         | 107               | 81   | 46,439            | 241,160              | 35,757             | 67,323               | 169,117            | 407,744  | 231,314                           | 649,640                            | 34,303  | 98  | 98                                       |
| 1957 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 54,506            | 279,668              | 43,889             | 85,802               | 205,375            | 277,374  | 753,556                           | 36,312                             | 98  | 97  | 98                                       |
| 1956 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 55,441            | 278,613              | 45,166             | 92,745               | 214,101            | 467,706  | 286,762                           | 742,120                            | 38,528  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 52,650            | 263,527              | 43,185             | 92,678               | 204,922            | 422,846  | 275,876                           | 681,119                            | 27,452  | (NA)  | (NA)                                     |
| 1954.....                                   | 83                         | 102               | 81   | 49,720            | 214,088              | 39,974             | 78,233               | 159,813            | 329,393  | 207,624                           | 543,622                            | 27,828  | 98  | 98                                       |
| 1953 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 58,503            | 251,056              | 48,772             | 99,627               | 197,633            | 401,370  | 231,429                           | 632,799                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 59,803            | 239,855              | 50,204             | 102,983              | 191,139            | 396,614  | 217,988                           | 614,602                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 59,644            | 239,127              | 51,048             | 111,663              | 198,352            | 388,475  | 237,258                           | 625,733                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 48,256            | 173,022              | 40,854             | 85,973               | 140,942            | 282,397  | 171,159                           | 453,556                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 42,527            | 132,766              | 35,320             | 67,185               | 103,836            | 213,479  | 121,768                           | 335,247                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                   | 78                         | 94                | 74   | 52,174            | 153,333              | 45,075             | 91,323               | 125,711            | 259,060  | 106,524                           | 365,584                            | 21,872  | 94  | 96                                       |
| 1939 <sup>3</sup> .....                     | (NA)                       | 58                | (NA)   | (NA)              | (NA)                 | (NA)               | (NA)                 | 27,219             | 77,497   | 27,989                            | 105,486                            | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3564.—BLOWERS AND FANS             |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 225                        | 237               | 97   | 15,244            | 94,090               | 10,733             | 21,616               | 57,776             | 180,801  | 135,733                           | 315,285                            | 6,979   | 83  | 79                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 14,722            | 93,582               | 9,832              | 20,423               | 51,749             | 169,245  | 140,182                           | 306,971                            | (7,678)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 14,432            | 88,915               | 9,650              | 19,508               | 49,714             | 155,094  | 131,581                           | 286,192                            | 5,162   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 14,593            | 88,498               | 9,849              | 19,701               | 49,907             | 153,772  | 125,294                           | 280,495                            | 5,996   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 15,540            | 88,640               | 10,493             | 21,203               | 50,466             | 154,584  | 132,876                           | 285,564                            | 4,504   | (NA)  | (NA)                                     |
| 1958.....                                   | 199                        | 207               | 104  | 15,947            | 82,457               | 10,980             | 21,356               | 50,322             | 145,050  | 121,646                           | 271,629                            | 5,569   | 83  | 79                                       |
| 1954.....                                   | 208                        | 214               | 106  | 18,125            | 80,850               | 13,724             | 27,349               | 54,033             | 153,366  | 124,415                           | 279,693                            | 5,873   | 83  | 76                                       |
| 1953 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 16,384            | 76,098               | 12,174             | 26,489               | 51,135             | 143,384  | 87,253                            | 230,637                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 14,450            | 63,864               | 10,588             | 22,680               | 42,859             | 124,517  | 74,866                            | 199,383                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 15,293            | 63,485               | 11,168             | 23,914               | 41,031             | 121,409  | 75,289                            | 196,698                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 12,048            | 43,604               | 8,961              | 20,682               | 28,493             | 78,803   | 55,533                            | 134,336                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 12,940            | 44,290               | 10,009             | 20,818               | 29,448             | 80,883   | 55,423                            | 136,306                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                   | 187                        | 192               | 93   | 14,794            | 44,202               | 11,087             | 23,389               | 30,329             | 84,429   | 56,287                            | 140,716                            | 3,551   | 75  | 78                                       |
| 1939.....                                   | (NA)                       | 89                | (NA)   | (NA)              | (NA)                 | (NA)               | (NA)                 | 5,563              | 17,474   | 12,168                            | 29,642                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> .....                     | (NA)                       | 42                | (NA)   | (NA)              | (NA)                 | (NA)               | (NA)                 | 5,845              | 17,534   | 12,731                            | 30,265                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3565.—INDUSTRIAL PATTERNS          |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 1,206                      | 1,209             | 106  | 9,914             | 75,605               | 8,685              | 17,710               | 64,877             | 112,587  | 29,167                            | 140,696                            | 3,794   | 96  | 80                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 9,459             | 67,024               | 8,584              | 15,963               | 56,552             | 98,293   | 22,175                            | 119,682                            | (961)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 8,877             | 59,066               | 8,095              | 14,452               | 49,139             | 85,457   | 21,534                            | 106,360                            | (1,483)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 9,148             | 63,794               | 8,402              | 15,411               | 53,665             | 93,034   | 22,339                            | 116,486                            | (S)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 9,430             | 61,444               | 8,581              | 16,183               | 51,809             | 88,270   | 23,141                            | 110,406                            | (S)   | (NA)  | (NA)                                     |
| 1958 <sup>4</sup> .....                     | 1,170                      | 1,174             | 96   | 8,870             | 54,746               | 7,683              | 13,950               | 45,370             | 78,108   | 20,726                            | 98,343                             | 3,214   | 95  | 74                                       |
| INDUSTRY 3566.—POWER TRANSMISSION EQUIPMENT |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 498                        | 532               | 272  | 46,670            | 303,314              | 34,400             | 71,101               | 203,941            | 555,710  | 345,058                           | 888,641                            | 26,444  | 84  | 79                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 43,642            | 281,744              | 31,393             | 64,632               | 182,756            | 494,926  | 300,869                           | 787,631                            | (32,026)  | (X)   | (X)                                      |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 40,042            | 244,846              | 28,768             | 57,754               | 157,287            | 429,021  | 252,271                           | 682,644                            | 17,225  | (X)   | (X)                                      |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 41,829            | 249,780              | 30,324             | 61,371               | 161,757            | 431,082  | 257,050                           | 691,915                            | 23,021  | (X)   | (X)                                      |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 44,186            | 255,613              | 32,248             | 64,551               | 168,433            | 470,903  | 283,326                           | 739,948                            | 21,908  | (X)   | (X)                                      |
| 1958 <sup>4</sup> .....                     | 449                        | 470               | 236  | 41,782            | 226,101              | 29,762             | 57,537               | 143,812            | 384,372  | 230,817                           | 630,303                            | 26,842  | (X)   | 79                                       |

See footnotes at end of table.

TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3567.—INDUSTRIAL FURNACES AND OVENS     |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 229                        | 238               | 93   | 12,118            | 83,738               | 6,782              | 13,963               | 38,731             | 143,009  | 137,732                           | 279,058                            | 4,561   | 83  | 85                                       |
| 1962 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 11,082            | 72,328               | 6,169              | 13,017               | 33,705             | 117,549  | 121,176                           | 238,045                            | 2,308   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 10,725            | 69,908               | 5,897              | 12,688               | 31,470             | 115,711  | 107,904                           | 225,125                            | (2,746)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 11,276            | 70,999               | 6,349              | 13,464               | 33,457             | 124,769  | 129,565                           | 259,795                            | 2,139   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 10,956            | 65,107               | 6,395              | 13,299               | 31,622             | 114,596  | 113,044                           | 222,463                            | (S)   | (NA)  | (NA)                                     |
| 1958 <sup>4</sup> .....                          | 197                        | 201               | 89   | 10,288            | 57,394               | 5,774              | 11,671               | 26,859             | 96,450   | 101,814                           | 204,835                            | 2,853   | 85  | 83                                       |
| INDUSTRY 3569.—GENERAL INDUSTRY MACHINES, N.E.C. |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 754                        | 777               | 277  | 35,559            | 240,816              | 20,332             | 40,869               | 109,354            | 424,084  | 272,709                           | 691,280                            | 15,102  | 83  | 70                                       |
| 1962 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 33,027            | 219,059              | 19,161             | 36,714               | 92,943             | 284,354  | 314,938                           | 609,430                            | (20,353)  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 30,646            | 200,595              | 17,243             | 33,881               | 86,223             | 256,854  | 297,415                           | 572,232                            | 20,087  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 29,468            | 185,762              | 16,597             | 33,369               | 82,121             | 261,558  | 252,254                           | 549,910                            | 18,738  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 28,901            | 175,567              | 16,889             | 33,248               | 80,523             | 306,859  | 207,556                           | 496,245                            | 20,225  | (NA)  | (NA)                                     |
| 1958 <sup>4</sup> .....                          | 568                        | 584               | 209  | 28,014            | 159,915              | 16,068             | 31,784               | 75,622             | 281,423  | 189,847                           | 458,280                            | 17,347  | 87  | 74                                       |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: **All employees:** For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** For 1947 and prior years figures represent an average of 12 monthly figures. **Value added:** Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. **Cost of materials:** Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. **Value of shipments:** Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>"Pumps and Compressors" were formerly included with the discontinued classification "Pumps (hand and power), pumping equipment, and air compressors." Separate figures are, therefore, not available prior to 1937.

<sup>3</sup>No comparable figures are available for earlier years.

<sup>4</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification. Accordingly, the data for 1958-1963 are not comparable with those for earlier years.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>            | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3561.—PUMPS AND COMPRESSORS    |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                              | 642            | 267                                | 61,322         | 395,769           | 38,934             | 80,825            | 224,721         | 768,787                              | 660,549           | 1,419,081          | 28,417                    | 60,042           | 542,037                              |
| New England.....                        | 30             | 16                                 | 4,176          | 26,000            | 2,523              | 5,286             | 14,279          | 52,413                               | 29,902            | 82,045             | 1,754                     | 3,594            | 30,682                               |
| Massachusetts....                       | 18             | 10                                 | 2,304          | 13,631            | 1,443              | 3,034             | 8,257           | 23,995                               | 16,534            | 40,894             | 1,107                     | 1,678            | 12,766                               |
| Middle Atlantic....                     | 124            | 52                                 | 19,239         | 125,689           | 12,288             | 25,227            | 73,414          | 220,421                              | 223,364           | 443,979            | 7,684                     | 19,384           | 162,390                              |
| New York.....                           | 40             | 15                                 | 8,768          | 56,422            | 5,484              | 11,251            | 32,031          | 99,377                               | 107,616           | 209,280            | 3,436                     | 9,570            | 78,082                               |
| New Jersey.....                         | 39             | 15                                 | 5,976          | 39,228            | 4,113              | 8,206             | 25,598          | 69,564                               | 73,519            | 144,612            | 2,314                     | 5,409            | 45,824                               |
| Pennsylvania....                        | 45             | 22                                 | 4,495          | 30,039            | 2,691              | 5,770             | 15,785          | 51,480                               | 42,229            | 90,087             | 1,934                     | 4,405            | 38,484                               |
| East North Central.                     | 197            | 92                                 | 22,318         | 146,619           | 14,236             | 29,961            | 82,503          | 286,775                              | 221,440           | 500,081            | 11,450                    | 24,839           | 226,783                              |
| Ohio.....                               | 49             | 27                                 | 8,965          | 58,214            | 5,650              | 11,675            | 32,031          | 103,966                              | 80,829            | 182,139            | 5,040                     | 9,004            | 77,768                               |
| Indiana.....                            | 23             | 9                                  | 2,315          | 13,549            | 1,502              | 3,061             | 7,789           | 27,551                               | 25,711            | 52,618             | 1,188                     | 2,341            | 21,314                               |
| Illinois.....                           | 54             | 25                                 | 6,252          | 41,543            | 4,012              | 8,976             | 23,775          | 97,633                               | 64,645            | 158,403            | 3,044                     | 5,751            | 67,708                               |
| Michigan.....                           | 37             | 15                                 | 1,883          | 12,614            | 1,216              | 2,484             | 6,762           | 23,954                               | 16,803            | 40,771             | 986                       | 4,116            | 24,814                               |
| Wisconsin.....                          | 34             | 16                                 | 2,903          | 20,699            | 1,856              | 3,765             | 11,367          | 33,671                               | 33,452            | 66,150             | 1,192                     | 3,627            | 35,179                               |
| West North Central.                     | 42             | 18                                 | 4,067          | 25,198            | 2,715              | 5,522             | 15,667          | 65,397                               | 41,826            | 105,623            | 1,502                     | 3,001            | 27,788                               |
| Iowa.....                               | 9              | 3                                  | 812            | 5,079             | 487                | 1,058             | 2,817           | 9,748                                | 6,351             | 15,940             | 323                       | 662              | 5,523                                |
| Missouri.....                           | 9              | 5                                  | 1,202          | 7,374             | 828                | 1,631             | 4,750           | 14,874                               | 15,023            | 29,777             | 216                       | 820              | 8,245                                |
| South Atlantic.....                     | 36             | 10                                 | 698            | 3,392             | 491                | 997               | 2,031           | 7,393                                | 5,267             | 12,664             | 491                       | 550              | 2,939                                |
| Georgia.....                            | 6              | 3                                  | 373            | 1,812             | 241                | 471               | 924             | 4,090                                | 2,517             | 6,580              | 119                       | 150              | 1,068                                |
| Florida.....                            | 20             | 6                                  | 272            | 1,347             | 212                | 453               | 958             | 2,894                                | 2,236             | 5,164              | 358                       | 277              | 1,355                                |
| East South Central.                     | 12             | 3                                  | 635            | 3,576             | 477                | 1,000             | 2,412           | 5,618                                | 5,862             | 11,287             | 395                       | 362              | 2,636                                |
| West South Central.                     | 70             | 32                                 | 3,869          | 22,869            | 2,628              | 5,390             | 12,859          | 51,101                               | 50,025            | 100,001            | 2,842                     | 2,620            | 27,079                               |
| Oklahoma.....                           | 22             | 13                                 | 1,517          | 8,933             | 990                | 1,939             | 4,846           | 17,365                               | 15,935            | 34,620             | 2,078                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Texas.....                              | 42             | 16                                 | 2,073          | 12,647            | 1,438              | 3,076             | 7,306           | 30,739                               | 28,253            | 56,762             | 741                       | 1,323            | 14,903                               |
| Mountain.....                           | 13             | 5                                  | 448            | 3,084             | 220                | 545               | 1,402           | 7,561                                | 9,629             | 17,184             | 86                        | 341              | 4,972                                |
| Pacific.....                            | 118            | 39                                 | 5,872          | 39,342            | 3,356              | 6,897             | 20,154          | 72,108                               | 73,234            | 146,217            | 2,213                     | 5,351            | 56,768                               |
| California.....                         | 111            | 38                                 | 5,834          | 39,113            | 3,335              | 6,857             | 20,025          | 71,674                               | 72,672            | 145,243            | 2,207                     | 5,318            | 56,464                               |
| INDUSTRY 3562.—BALL AND ROLLER BEARINGS |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                              | 125            | 93                                 | 52,316         | 348,700           | 42,003             | 85,970            | 263,022         | 627,694                              | 372,267           | 998,784            | 39,243                    | 46,439           | 407,744                              |
| New England.....                        | 26             | 23                                 | 17,017         | 104,540           | 13,856             | 28,144            | 78,629          | 182,052                              | 68,675            | 254,264            | 9,875                     | 15,460           | 129,767                              |
| Connecticut.....                        | 18             | 16                                 | 15,078         | 93,864            | 12,292             | 24,874            | 71,004          | 165,473                              | 64,329            | 233,006            | 9,252                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Middle Atlantic....                     | 40             | 27                                 | 13,546         | 94,526            | 10,564             | 21,755            | 69,600          | 165,398                              | 99,066            | 262,174            | 10,846                    | 12,095           | 113,221                              |
| New York.....                           | 15             | 10                                 | 4,460          | 27,713            | 3,391              | 7,055             | 19,912          | 46,293                               | 28,216            | 74,055             | 4,255                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| North Central.....                      | 38             | 29                                 | 20,028         | 136,173           | 16,117             | 32,922            | 103,347         | 259,919                              | 192,054           | 451,917            | 14,932                    | 18,432           | 162,235                              |
| Illinois.....                           | 9              | 7                                  | 2,704          | 19,489            | 1,968              | 4,220             | 13,405          | 33,900                               | 25,562            | 61,347             | 1,096                     | 1,680            | 19,515                               |
| Michigan.....                           | 9              | 5                                  | 4,298          | 31,034            | 3,661              | 7,603             | 25,443          | 54,997                               | 30,354            | 85,347             | 4,078                     | 3,796            | 37,289                               |
| South.....                              | 11             | 8                                  | 1,157          | 9,590             | 997                | 2,102             | 8,534           | 15,488                               | 10,367            | 23,481             | 3,037                     | 253              | 1,526                                |
| Pacific.....                            | 10             | 6                                  | 568            | 3,871             | 469                | 1,047             | 2,912           | 4,837                                | 2,105             | 6,948              | 553                       | 199              | 995                                  |
| California.....                         | 10             | 6                                  | 568            | 3,871             | 469                | 1,047             | 2,912           | 4,837                                | 2,105             | 6,948              | 553                       | 199              | 995                                  |
| INDUSTRY 3564.—BLOWERS AND FANS         |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                              | 237            | 97                                 | 15,244         | 94,090            | 10,733             | 21,616            | 57,776          | 180,801                              | 135,733           | 315,285            | 6,979                     | 15,947           | 145,050                              |
| New England.....                        | 16             | 6                                  | 2,296          | 14,718            | 1,575              | 3,118             | 8,944           | 22,349                               | 18,495            | 40,820             | 1,667                     | 2,559            | 21,823                               |
| Middle Atlantic....                     | 42             | 21                                 | 3,677          | 23,057            | 2,632              | 5,456             | 13,851          | 40,991                               | 30,960            | 70,776             | 1,943                     | 4,051            | 36,424                               |
| New York.....                           | 18             | 8                                  | 2,131          | 12,976            | 1,646              | 3,374             | 8,881           | 23,186                               | 14,537            | 37,295             | 1,510                     | 2,162            | 20,341                               |
| New Jersey.....                         | 11             | 7                                  | 860            | 6,129             | 432                | 884               | 2,329           | 9,578                                | 11,470            | 20,218             | 348                       | 1,099            | 8,193                                |
| Pennsylvania....                        | 13             | 6                                  | 686            | 3,952             | 554                | 1,198             | 2,641           | 8,227                                | 4,953             | 13,263             | 85                        | 790              | 7,890                                |
| East North Central.                     | 83             | 40                                 | 5,779          | 35,244            | 3,885              | 7,822             | 20,541          | 72,862                               | 53,251            | 126,646            | 2,262                     | 6,064            | 53,728                               |
| Ohio.....                               | 21             | 10                                 | 1,559          | 9,748             | 1,013              | 2,045             | 5,578           | 19,780                               | 14,992            | 35,330             | 459                       | 1,528            | 15,214                               |
| Indiana.....                            | 13             | 6                                  | 1,274          | 6,937             | 825                | 1,603             | 3,997           | 12,725                               | 9,480             | 22,058             | 683                       | 1,087            | 7,781                                |
| Illinois.....                           | 26             | 10                                 | 1,147          | 6,487             | 832                | 1,669             | 3,808           | 15,735                               | 12,331            | 28,740             | 501                       | 1,154            | 10,014                               |
| Michigan.....                           | 14             | 8                                  | 1,485          | 10,183            | 989                | 2,015             | 6,074           | 19,529                               | 14,579            | 33,629             | 448                       | 2,019            | 18,832                               |
| Wisconsin.....                          | 9              | 6                                  | 314            | 1,889             | 226                | 490               | 1,084           | 5,093                                | 1,869             | 6,889              | 171                       | 276              | 1,887                                |
| West North Central.                     | 13             | 5                                  | 492            | 3,145             | 297                | 572               | 1,674           | 4,724                                | 3,724             | 8,975              | 135                       | 469              | 4,127                                |
| Minnesota.....                          | 5              | 4                                  | 439            | 2,852             | 257                | 490               | 1,440           | 4,194                                | 3,080             | 7,799              | 131                       | 311              | 2,640                                |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                 | 1963              |                                       |                   |                      |                    |                      |                    |                                      |                   |                    | 1958                      |                  |                                      |
|--|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3564.—BLOWERS AND FANS—Continued    |                   |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           |                  |                                      |
| South.....                                   | 46                | 13                                    | 1,555             | 8,787                | 1,313              | 2,558                | 6,974              | 23,867                               | 17,749            | 41,078             | 689                       | 1,575            | 17,598                               |
| Florida.....                                 | 9                 | 1                                     | 139               | 692                  | 98                 | 217                  | 422                | 1,135                                | 1,091             | 2,167              | 34                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Texas.....                                   | 13                | 2                                     | 129               | 674                  | 105                | 214                  | 521                | 1,347                                | 1,185             | 2,517              | 32                        | 230              | 1,647                                |
| Mountain.....                                | 7                 | -                                     | 43                | 201                  | 29                 | 52                   | 122                | 314                                  | 418               | 714                | 15                        | 22               | 221                                  |
| Pacific.....                                 | 30                | 12                                    | 1,402             | 8,938                | 1,002              | 2,038                | 5,670              | 15,694                               | 11,136            | 26,276             | 268                       | 1,207            | 11,129                               |
| California.....                              | 25                | 11                                    | 1,335             | 8,577                | 956                | 1,944                | 5,432              | 15,103                               | 10,775            | 25,335             | 229                       | 1,059            | 10,172                               |
| INDUSTRY 3565.—INDUSTRIAL PATTERNS           |                   |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           |                  |                                      |
| Total.....                                   | 1,209             | 106                                   | 9,914             | 75,605               | 8,685              | 17,710               | 64,877             | 112,587                              | 29,167            | 140,696            | 3,794                     | 8,870            | 78,108                               |
| New England.....                             | 99                | 7                                     | 602               | 4,305                | 503                | 1,026                | 3,446              | 5,830                                | 1,458             | 7,230              | 146                       | 516              | 4,132                                |
| Massachusetts.....                           | 53                | 5                                     | 363               | 2,596                | 311                | 622                  | 2,098              | 3,392                                | 803               | 4,137              | 95                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Connecticut.....                             | 30                | 1                                     | 164               | 1,169                | 127                | 278                  | 886                | 1,692                                | 516               | 2,207              | 32                        | 163              | 1,438                                |
| Middle Atlantic.....                         | 234               | 12                                    | 1,476             | 8,905                | 1,294              | 2,517                | 7,749              | 14,418                               | 3,634             | 17,985             | 364                       | 1,608            | 12,502                               |
| New York.....                                | 84                | 6                                     | 645               | 3,847                | 555                | 1,079                | 3,198              | 6,472                                | 1,676             | 8,153              | 137                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| North Central.....                           | 649               | 77                                    | 6,628             | 54,252               | 5,834              | 12,035               | 46,632             | 80,122                               | 19,879            | 99,144             | 1,984                     | 5,768            | 51,979                               |
| Indiana.....                                 | 45                | 6                                     | 449               | 3,658                | 386                | 757                  | 3,063              | 5,108                                | 6,749             | 166                | 363                       | 3,415            | 3,415                                |
| Illinois.....                                | 118               | 10                                    | 944               | 6,756                | 830                | 1,603                | 5,964              | 10,392                               | 2,956             | 13,274             | 242                       | 836              | 7,783                                |
| Michigan.....                                | 187               | 36                                    | 3,009             | 27,732               | 2,654              | 5,835                | 23,743             | 40,718                               | 8,709             | 48,893             | 963                       | 2,342            | 22,269                               |
| Missouri.....                                | 27                | 4                                     | 271               | 1,844                | 245                | 469                  | 1,604              | 2,816                                | 917               | 3,679              | 103                       | 197              | 1,999                                |
| South Atlantic.....                          | 25                | 1                                     | 126               | 608                  | 110                | 208                  | 524                | 1,047                                | 343               | 1,313              | 99                        | 153              | 978                                  |
| East South Central.....                      | 24                | 1                                     | 172               | 1,173                | 147                | 304                  | 973                | 1,896                                | 599               | 2,507              | 92                        | 105              | 1,020                                |
| Alabama.....                                 | 13                | 1                                     | 115               | 772                  | 99                 | 215                  | 619                | 1,205                                | 342               | 1,553              | 69                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West South Central.....                      | 30                | 1                                     | 158               | 890                  | 136                | 278                  | 820                | 1,486                                | 417               | 1,916              | 26                        | 102              | 1,016                                |
| Mountain.....                                | 12                | -                                     | 51                | 351                  | 46                 | 83                   | 325                | 519                                  | 129               | 642                | 8                         |                  |                                      |
| Pacific.....                                 | 136               | 7                                     | 701               | 5,121                | 615                | 1,259                | 4,408              | 7,269                                | 2,708             | 9,959              | 1,075                     | 618              | 6,481                                |
| California.....                              | 117               | 5                                     | 590               | 4,288                | 512                | 1,031                | 3,655              | 6,081                                | 2,338             | 8,407              | 1,042                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| INDUSTRY 3566.—POWER TRANSMISSION EQUIPMENT  |                   |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           |                  |                                      |
| Total.....                                   | 532               | 272                                   | 46,670            | 303,314              | 34,400             | 71,101               | 203,941            | 555,710                              | 345,058           | 888,641            | 26,444                    | 41,782           | 384,372                              |
| New England.....                             | 49                | 25                                    | 4,411             | 26,254               | 3,342              | 6,869                | 18,221             | 51,850                               | 25,064            | 75,513             | 1,210                     | 4,035            | 37,233                               |
| Massachusetts.....                           | 30                | 15                                    | 3,392             | 20,291               | 2,538              | 5,112                | 14,087             | 39,166                               | 19,691            | 58,356             | 952                       | 2,863            | 28,019                               |
| Connecticut.....                             | 14                | 8                                     | 932               | 5,494                | 736                | 1,591                | 3,804              | 11,888                               | 5,018             | 15,991             | 238                       | 1,122            | 8,866                                |
| Middle Atlantic.....                         | 103               | 55                                    | 9,336             | 58,453               | 6,611              | 13,580               | 37,522             | 99,686                               | 66,285            | 164,597            | 3,838                     | 10,247           | 80,522                               |
| New York.....                                | 48                | 21                                    | 2,689             | 17,333               | 1,829              | 3,897                | 10,417             | 32,723                               | 17,000            | 49,549             | 981                       | 2,656            | 21,267                               |
| New Jersey.....                              | 22                | 10                                    | 1,253             | 7,707                | 894                | 1,761                | 4,984              | 12,794                               | 8,041             | 20,612             | 492                       | 1,549            | 14,030                               |
| Pennsylvania.....                            | 33                | 24                                    | 5,394             | 33,413               | 3,888              | 7,922                | 22,121             | 54,169                               | 41,244            | 94,436             | 2,365                     | 6,042            | 45,225                               |
| East North Central.....                      | 220               | 128                                   | 25,963            | 175,317              | 19,463             | 40,039               | 120,299            | 327,240                              | 191,862           | 511,454            | 16,045                    | 21,576           | 212,415                              |
| Ohio.....                                    | 50                | 35                                    | 4,186             | 26,743               | 3,137              | 6,717                | 18,445             | 50,404                               | 30,751            | 80,044             | 2,239                     | 3,849            | 37,629                               |
| Indiana.....                                 | 23                | 16                                    | 8,123             | 54,684               | 6,234              | 12,689               | 39,134             | 100,634                              | 51,362            | 150,325            | 4,436                     | 5,835            | 54,775                               |
| Illinois.....                                | 77                | 45                                    | 6,037             | 39,274               | 4,505              | 9,066                | 26,276             | 71,515                               | 46,191            | 116,626            | 2,473                     | 5,789            | 56,748                               |
| Michigan.....                                | 42                | 16                                    | 2,115             | 14,218               | 1,587              | 3,230                | 9,778              | 25,413                               | 16,713            | 41,118             | 1,714                     | 2,380            | 23,316                               |
| Wisconsin.....                               | 28                | 16                                    | 5,502             | 40,398               | 4,000              | 8,337                | 26,666             | 79,274                               | 46,845            | 123,341            | 5,183                     | 3,723            | 39,947                               |
| West North Central.....                      | 40                | 20                                    | 1,695             | 9,905                | 1,317              | 2,677                | 7,054              | 18,291                               | 15,330            | 33,134             | 484                       | 1,098            | 9,498                                |
| Minnesota.....                               | 15                | 8                                     | 578               | 3,516                | 464                | 943                  | 2,577              | 5,851                                | 4,390             | 10,303             | 143                       | 471              | 4,387                                |
| Iowa.....                                    | 5                 | 3                                     | 358               | 1,726                | 288                | 578                  | 1,339              | 3,714                                | 2,535             | 6,018              | 67                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Missouri.....                                | 16                | 7                                     | 541               | 3,475                | 428                | 854                  | 2,480              | 5,958                                | 5,596             | 11,330             | 176                       | 305              | 3,105                                |
| South.....                                   | 42                | 19                                    | 2,955             | 17,572               | 2,068              | 4,537                | 10,628             | 34,073                               | 30,094            | 63,347             | 2,722                     | 2,999            | 25,071                               |
| Virginia.....                                | 4                 | 3                                     | 313               | 1,762                | 275                | 655                  | 1,512              | 3,812                                | 5,808             | 9,498              | 105                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| North Carolina.....                          | 4                 | 3                                     | 116               | 672                  | 88                 | 212                  | 419                | 1,107                                | 254               | 1,371              | 22                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Texas.....                                   | 15                | 6                                     | 751               | 3,925                | 541                | 1,179                | 2,540              | 7,975                                | 5,905             | 13,594             | 349                       | 706              | 4,828                                |
| West.....                                    | 78                | 25                                    | 2,310             | 15,813               | 1,599              | 3,399                | 10,217             | 24,570                               | 16,423            | 40,596             | 2,145                     | 1,827            | 19,633                               |
| California.....                              | 66                | 21                                    | 1,951             | 13,411               | 1,288              | 2,735                | 8,303              | 19,564                               | 13,377            | 32,901             | 1,824                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| INDUSTRY 3567.—INDUSTRIAL FURNACES AND OVENS |                   |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           |                  |                                      |
| Total.....                                   | 238               | 93                                    | 12,118            | 83,738               | 6,782              | 13,963               | 38,731             | 143,009                              | 137,732           | 279,058            | 4,561                     | 10,288           | 96,450                               |
| New England.....                             | 28                | 12                                    | 1,225             | 8,206                | 747                | 1,561                | 4,601              | 13,537                               | 11,087            | 24,430             | 613                       | 978              | 7,399                                |
| Massachusetts.....                           | 19                | 8                                     | 805               | 5,577                | 558                | 1,145                | 3,637              | 9,507                                | 7,058             | 16,319             | 509                       | 707              | 5,284                                |
| Middle Atlantic.....                         | 65                | 26                                    | 4,204             | 28,422               | 2,422              | 4,875                | 13,011             | 50,684                               | 46,803            | 95,601             | 1,317                     | 4,022            | 31,104                               |
| New York.....                                | 21                | 8                                     | 784               | 5,338                | 505                | 1,095                | 2,864              | 8,103                                | 5,223             | 13,200             | 73                        | 651              | 6,570                                |
| New Jersey.....                              | 23                | 8                                     | 1,256             | 7,367                | 884                | 1,659                | 4,694              | 13,501                               | 15,854            | 27,379             | 438                       | 1,230            | 8,200                                |
| Pennsylvania.....                            | 21                | 10                                    | 2,164             | 15,717               | 1,033              | 2,121                | 5,453              | 29,080                               | 25,726            | 55,022             | 806                       | 2,141            | 16,334                               |
| East North Central.....                      | 83                | 39                                    | 5,388             | 38,270               | 2,745              | 5,742                | 16,081             | 64,613                               | 67,856            | 132,840            | 2,109                     | 4,298            | 49,112                               |
| Ohio.....                                    | 27                | 11                                    | 2,136             | 16,860               | 925                | 1,961                | 5,825              | 26,886                               | 33,915            | 60,309             | 1,096                     | 1,501            | 20,229                               |
| Illinois.....                                | 21                | 14                                    | 1,401             | 8,852                | 804                | 1,604                | 4,140              | 16,506                               | 12,413            | 29,018             | 479                       | 1,096            | 10,457                               |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                           | 1963           |                                    |                |                   |                    |                   |                 |  |                             |                              | 1958                                |                        |  |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|------------------------|--|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |                        |  |
| INDUSTRY 3567.—INDUSTRIAL FURNACES AND OVENS—Continued |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| East North Central—Continued                           |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| Michigan.....  | 28             | 10                                 | 647            | 4,404             | 1,417              | 929               | 2,656           | 7,234  | 9,937                       | 17,351                       | 126                                 | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| West North Central.                                    | 10             | 3                                  | 374            | 2,540             | 243                | 504               | 1,332           | 4,764  | 3,695                       | 8,451                        | 57                                  | 525                    | 4,863  |
| Minnesota.....   | 5              | 2                                  | 261            | 1,728             | 160                | 339               | 965             | 3,045  | 3,122                       | 6,158                        | 40                                  | 341                    | 2,676  |
| South.....   | 12             | 2                                  | 136            | 884               | 103                | 240               | 574             | 1,572  | 1,482                       | 3,179                        | 229                                 | 76                     | 458  |
| West.....  | 40             | 11                                 | 811            | 5,416             | 522                | 1,041             | 3,132           | 7,839  | 6,809                       | 14,557                       | 236                                 | 389                    | 3,514  |
| California.....  | 31             | 9                                  | 619            | 4,238             | 393                | 778               | 2,468           | 6,248  | 5,708                       | 11,849                       | 215                                 | 305                    | 2,689  |
| INDUSTRY 3569.—GENERAL INDUSTRY MACHINES, N.E.C.       |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| Total.....   | 777            | 277                                | 35,559         | 240,816           | 20,332             | 40,869            | 109,354         | 424,084  | 272,709                     | 691,280                      | 15,102                              | 28,014                 | 281,423  |
| New England.....                                       | 63             | 27                                 | 3,352          | 20,507            | 2,017              | 4,092             | 10,441          | 55,807   | 24,817                      | 80,678                       | 1,653                               | 5,683                  | 48,638   |
| Massachusetts.....                                     | 32             | 14                                 | 836            | 4,727             | 514                | 1,075             | 2,710           | 7,102  | 5,257                       | 12,846                       | 144                                 | 2,336                  | 21,077   |
| Connecticut.....                                       | 25             | 10                                 | 1,898          | 12,343            | 1,112              | 2,320             | 6,174           | 42,806   | 15,134                      | 57,810                       | 1,422                               | 2,537                  | 20,537   |
| Middle Atlantic....                                    | 210            | 78                                 | 10,080         | 66,751            | 6,001              | 12,159            | 33,923          | 106,091  | 69,466                      | 173,192                      | 4,579                               | 6,532                  | 58,278   |
| New York.....  | 90             | 30                                 | 5,089          | 35,684            | 2,702              | 5,420             | 15,869          | 49,172   | 31,832                      | 81,903                       | 2,363                               | 3,442                  | 28,416   |
| New Jersey.....  | 59             | 22                                 | 1,590          | 9,550             | 1,118              | 2,298             | 5,959           | 19,188   | 12,774                      | 32,494                       | 460                                 | 1,474                  | 13,719   |
| Pennsylvania.....                                      | 61             | 26                                 | 3,401          | 21,517            | 2,181              | 4,441             | 12,095          | 37,731   | 24,860                      | 58,795                       | 1,756                               | 1,616                  | 16,143   |
| East North Central.                                    | 218            | 84                                 | 9,284          | 59,006            | 6,174              | 12,182            | 33,599          | 107,323  | 71,282                      | 180,439                      | 3,249                               | 7,536                  | 76,565   |
| Ohio.....  | 61             | 19                                 | 2,511          | 15,353            | 1,439              | 2,751             | 7,595           | 26,496   | 17,542                      | 44,776                       | 777                                 | 2,133                  | 20,642   |
| Indiana.....   | 15             | 7                                  | 1,274          | 8,055             | 901                | 1,697             | 4,435           | 13,196   | 11,364                      | 23,586                       | 463                                 | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| Illinois.....  | 61             | 24                                 | 1,703          | 11,739            | 1,105              | 2,114             | 6,206           | 23,800   | 12,053                      | 35,953                       | 634                                 | 2,834                  | 30,076   |
| Michigan.....  | 52             | 19                                 | 2,492          | 15,517            | 1,805              | 3,658             | 10,109          | 26,955   | 16,236                      | 44,013                       | 1,036                               | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| Wisconsin.....   | 29             | 15                                 | 1,304          | 8,342             | 924                | 1,962             | 5,254           | 16,876   | 14,087                      | 32,111                       | 339                                 | 1,293                  | 15,842   |
| West North Central.                                    | 48             | 23                                 | 1,713          | 9,189             | 1,197              | 2,473             | 5,336           | 19,098   | 15,447                      | 34,308                       | 912                                 | 868                    | 9,158  |
| Minnesota.....   | 17             | 10                                 | 678            | 3,939             | 460                | 920               | 2,125           | 7,602  | 5,801                       | 13,220                       | 114                                 | 449                    | 3,875  |
| Iowa.....  | 8              | 4                                  | 477            | 2,194             | 361                | 805               | 1,465           | 6,136  | 4,303                       | 10,551                       | 482                                 | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| Missouri.....  | 10             | 2                                  | 114            | 704               | 86                 | 178               | 487             | 949  | 916                         | 1,784                        | 31                                  | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| Kansas.....  | 7              | 4                                  | 177            | 1,146             | 115                | 261               | 608             | 2,339  | 1,795                       | 4,089                        | 83                                  | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| South Atlantic....                                     | 39             | 8                                  | 686            | 3,583             | 502                | 944               | 2,143           | 7,948  | 6,684                       | 13,790                       | 325                                 | 1,307                  | 13,583   |
| North Carolina...                                      | 7              | 2                                  | 122            | 548               | 98                 | 184               | 319             | 1,520  | 1,077                       | 2,570                        | 77                                  | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| Florida.....   | 13             | 2                                  | 105            | 638               | 65                 | 137               | 321             | 1,443  | 1,268                       | 2,632                        | 35                                  | 171                    | 1,151  |
| East South Central.                                    | 22             | 6                                  | 984            | 5,682             | 715                | 1,574             | 3,338           | 10,323   | 10,405                      | 21,132                       | 414                                 | 471                    | 4,469  |
| Alabama.....   | 8              | 1                                  | 108            | 528               | 84                 | 154               | 377             | 897  | 1,733                       | 2,812                        | 50                                  | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| West South Central.                                    | 37             | 11                                 | 818            | 4,723             | 500                | 1,038             | 2,321           | 12,237   | 6,050                       | 18,144                       | 316                                 | 1,014                  | 6,522  |
| Texas.....   | 25             | 7                                  | 404            | 2,089             | 271                | 557               | 1,140           | 5,282  | 2,728                       | 7,965                        | 176                                 | 656                    | 4,018  |
| West.....  | 140            | 40                                 | 8,642          | 71,375            | 3,226              | 6,407             | 18,253          | 105,257  | 68,558                      | 169,597                      | 3,654                               | 4,603                  | 64,210   |
| California.....  | 120            | 34                                 | 8,011          | 67,497            | 2,813              | 5,563             | 15,775          | 95,707   | 61,589                      | 154,818                      | 3,523                               | 4,032                  | 57,665   |

n.e.c. Not elsewhere classified.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3561, Pumps and Compressors: New England—New Hampshire, 1 (20-99); Rhode Island, 4 (250-499); Connecticut, 7 (1,525); West North Central—Minnesota, 11 (454); South Dakota, 1 (1-19); Nebraska, 3 (873); Kansas, 9 (500-999); South Atlantic—Delaware, 1 (1-19); Maryland, 5 (20-99); Virginia, 2 (20-99); West Virginia, 2 (1-19); East South Central—Kentucky, 3 (20-99); Tennessee, 5 (310); Alabama, 1 (100-249); Mississippi, 3 (100-249); West South Central—Arkansas, 3 (261); Louisiana, 3 (1-19); Mountain—Wyoming, 1 (1-19); Colorado, 6 (196); New Mexico, 1 (1-19); Arizona, 2 (20-99); Utah, 2 (100-249); Nevada, 1 (1-19); Pacific—Washington, 3 (1-19); Oregon, 3 (20-99); Hawaii, 1 (1-19).

SIC 3562, Ball and Roller Bearings: New England—New Hampshire, 4 (1,000-2,499); Massachusetts, 4 (250-499); Middle Atlantic—New Jersey, 8 (3,959); Pennsylvania, 17 (5,127); East North Central—Ohio, 9 (10,700); Indiana, 8 (1,000-2,499); Wisconsin, 1 (20-99); West North Central—Missouri, 1 (1-19); Kansas, 1 (20-99); South Atlantic—Virginia, 2 (100-249); North Carolina, 1 (20-99); South Carolina, 4 (455); Florida, 1 (1-19); East South Central—Tennessee, 1 (100-249); West South Central—Oklahoma, 2 (250-499).

SIC 3564, Blowers and Fans: New England—Massachusetts, 10 (1,000-2,499); Connecticut, 6 (1,000-2,499); West North Central—Iowa, 1 (1-19); Missouri, 5 (20-99); Kansas, 2 (1-19); South Atlantic—Delaware, 3 (1-19); North Carolina, 2 (20-99); East South Central—Kentucky, 4 (911); Tennessee, 7 (20-99); Alabama, 2 (100-249); Mississippi, 1 (1-19); West South Central—Arkansas, 1 (20-99); Louisiana, 3 (20-99); Oklahoma, 1 (20-99); Mountain—Colorado, 3 (20-99); Arizona, 3 (1-19); Utah, 1 (1-19); Pacific—Washington, 4 (20-99); Oregon, 1 (1-19).

SIC 3565, Industrial Patterns: New England—Maine, 1 (1-19); New Hampshire, 5 (1-19); Vermont, 1 (1-19); Rhode Island, 9 (20-99); Middle Atlantic—New Jersey, 54 (185); Pennsylvania, 96 (646); East North Central—Ohio, 152 (1,157); Wisconsin, 80 (574); West North Central—Minnesota, 19 (102); Iowa, 8 (20-99); Nebraska, 3 (1-19); Kansas, 10 (20-99); South Atlantic—Delaware, 2 (1-19); Maryland, 4 (20-99); Virginia, 3 (20-99); West Virginia, 3 (20-99); North Carolina, 6 (20-99); South Carolina, 2 (1-19); Georgia, 3 (1-19); Florida, 2 (1-19); East South Central—Kentucky, 6 (1-19); Tennessee, 5 (20-99); West South Central—Louisiana, 2 (1-19); Oklahoma, 8 (20-99); Texas, 20 (1-99); Mountain—Colorado, 9 (20-99); Arizona, 2 (1-19); Utah, 1 (1-19); Pacific—Washington, 9 (20-99); Oregon, 10 (20-99).

SIC 3566, Power Transmission Equipment: New England—Maine, 1 (1-19); Vermont, 2 (20-99); Rhode Island, 2 (20-99); West North Central—Nebraska, 1 (20-99); Kansas, 3 (100-249); South Atlantic—Maryland, 3 (1-19); South Carolina, 2 (100-249); Georgia, 2 (1-19); Florida, 3 (1-19); East South Central—Kentucky, 2 (250-499); Tennessee, 1 (20-99); West South Central—Arkansas, 3 (20-99); Oklahoma, 3 (20-99); Mountain—Colorado, 5 (256); Pacific—Washington, 2 (20-99); Oregon, 5 (20-99).

SIC 3567, Industrial Furnaces and Ovens: New England—New Hampshire, 2 (100-249); Rhode Island, 3 (183); Connecticut, 4 (100-249); East North Central—Indiana, 5 (500-999); Wisconsin, 2 (250-499); West North Central—Iowa, 1 (1-19); Missouri, 3 (100-249); Kansas, 1 (1-19); South Atlantic—Maryland, 1 (1-19); West Virginia, 1 (1-19); North Carolina, 1 (1-19); Florida, 3 (1-19); East South Central—Alabama, 1 (20-99); West South Central—Oklahoma, 1 (1-19); Texas, 4 (20-99); Mountain—Colorado, 1 (100-249); Arizona, 1 (1-19); Utah, 1 (1-19); Pacific—Washington, 5 (20-99); Oregon, 1 (1-19).

SIC 3569, General Industry Machines, N.E.C.: New England—Maine, 1 (100-249); New Hampshire, 2 (250-499); Rhode Island, 3 (177); West North Central—North Dakota, 1 (1-19); South Dakota, 2 (100-249); Nebraska, 3 (149); South Atlantic—Delaware, 1 (1-19); Maryland, 7 (20-99); Virginia, 4 (20-99); West Virginia, 2 (20-99); South Carolina, 2 (20-99); Georgia, 3 (238); East South Central—Kentucky, 5 (250-499); Tennessee, 7 (579); Mississippi, 2 (20-99); West South Central—Arkansas, 3 (20-99); Louisiana, 2 (100-249); Oklahoma, 7 (276); Mountain—Colorado, 2 (20-99); Arizona, 1 (20-99); Utah, 4 (329); Pacific—Washington, 7 (166); Oregon, 6 (20-99).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.

TABLE 3. Detailed Statistics: 1963

| Item   | Pumps and compressors<br>(SIC 3561) | Ball and roller bearings<br>(SIC 3562) | Blowers and fans<br>(SIC 3564) | Industrial patterns<br>(SIC 3565) | Power transmission equipment<br>(SIC 3566) | Industrial furnaces and ovens<br>(SIC 3567) | General industry machines, n.e.c.<br>(SIC 3569) |
|--|-------------------------------------|--|--------------------------------|-----------------------------------|--|---|---|
| Primary product specialization ratio <sup>1</sup> .....        | .85                                 | .97                                    | .83                            | .96                               | .84  | .83   | .83   |
| Coverage ratio <sup>2</sup> .....                              | .86                                 | .98                                    | .79                            | .80                               | .79  | .85   | .70   |
| Establishments, total.....number..                             | 642                                 | 125                                    | 237                            | 1,209                             | 532  | 238   | 777   |
| With 1 to 19 employees.....do....                              | 375                                 | 32                                     | 140                            | 1,103                             | 260  | 145   | 500   |
| With 20 to 99 employees.....do....                             | 140                                 | 31                                     | 60                             | 99                                | 173  | 57  | 206   |
| With 100 employees or more.....do....                          | 127                                 | 62                                     | 37                             | 7                                 | 99   | 36  | 71  |
| Proprietors and working partners.....do....                    | 175                                 | 17                                     | 60                             | 1,008                             | 158  | 59  | 213   |
| All employees (average for the year).....do....                | 61,322                              | 52,316                                 | 15,244                         | 9,914                             | 46,670                                     | 12,118                                      | 35,559  |
| Payroll (all employees), total for year.....\$1,000..          | 395,769                             | 348,700                                | 94,090                         | 75,605                            | 303,314                                    | 83,738                                      | 240,816   |
| Production workers:  |                                     |  |                                |                                   |  |   |   |
| Average for the year.....number..                              | 38,934                              | 42,003                                 | 10,733                         | 8,685                             | 34,400                                     | 6,782                                       | 20,332  |
| March.....do....   | 38,846                              | 42,937                                 | 10,669                         | 8,566                             | 33,595                                     | 6,830                                       | 19,715  |
| May.....do....   | 38,784                              | 42,566                                 | 10,716                         | 8,675                             | 34,328                                     | 6,761                                       | 20,898  |
| August.....do....  | 39,223                              | 41,389                                 | 10,698                         | 8,597                             | 34,609                                     | 6,577                                       | 20,325  |
| November.....do....  | 38,898                              | 41,108                                 | 10,841                         | 8,999                             | 35,058                                     | 6,971                                       | 20,384  |
| Man-hours.....1,000..  | 80,825                              | 85,970                                 | 21,616                         | 17,710                            | 71,101                                     | 13,963                                      | 40,869  |
| January-March.....do....                                       | 19,830                              | 22,076                                 | 5,437                          | 4,393                             | 17,587                                     | 3,562                                       | 9,997   |
| April-June.....do....  | 20,654                              | 22,439                                 | 5,444                          | 4,394                             | 18,130                                     | 3,488                                       | 10,293  |
| July-September.....do....                                      | 19,668                              | 20,184                                 | 5,249                          | 4,357                             | 17,053                                     | 3,268                                       | 10,067  |
| October-December.....do....                                    | 20,673                              | 21,276                                 | 5,486                          | 4,566                             | 18,331                                     | 3,645                                       | 10,512  |
| Wages.....\$1,000..  | 224,721                             | 263,022                                | 57,776                         | 64,877                            | 203,941                                    | 38,731                                      | 109,354   |
| Cost of materials, etc., total.....do....                      | 660,549                             | 372,267                                | 135,733                        | 29,167                            | 345,058                                    | 137,732                                     | 272,709   |
| Materials, parts, containers, and supplies consumed.....do.... | 570,414                             | 343,713                                | 114,795                        | 23,512                            | 290,185                                    | 112,956                                     | 222,504   |
| Cost of resales.....do....                                     | 67,013                              | 11,578                                 | 15,154                         | 525                               | 31,668                                     | 13,892                                      | 16,687  |
| Fuels consumed.....do....                                      | 4,975                               | 4,685                                  | 951                            | 569                               | 4,033                                      | 711   | 1,973   |
| Electric energy:   |                                     |  |                                |                                   |  |   |   |
| Purchased:   |                                     |  |                                |                                   |  |   |   |
| Quantity.....million kw.-hrs..                                 | 434                                 | 683                                    | 81                             | 38                                | 416  | 68  | 326   |
| Cost.....\$1,000..   | 6,263                               | 7,413                                  | 1,381                          | 779                               | 5,951                                      | 1,175                                       | 4,023   |
| Generated less sold.....million kw.-hrs..                      | 24                                  | -                                      | (D)                            | (D)                               | (D)  | (D)   | (D)   |
| Contract work.....\$1,000..                                    | 11,884                              | 4,878                                  | 3,452                          | 3,781                             | 13,221                                     | 9,038                                       | 27,522  |
| Value of shipments (including resales), total.....do....       | 1,419,081                           | 998,784                                | 315,285                        | 140,696                           | 888,641                                    | 279,058                                     | 691,280   |
| Value of resales.....do....                                    | 84,918                              | 13,804                                 | 21,041                         | 1,231                             | 41,631                                     | 18,503                                      | 28,712  |
| Value added by manufacture, adjusted.....do....                | 768,787                             | 627,694                                | 180,801                        | 112,587                           | 555,710                                    | 143,009                                     | 424,084   |
| Manufacturers' inventories:                                    |                                     |  |                                |                                   |  |   |   |
| Beginning of year, total.....do....                            | 341,790                             | 218,913                                | 55,241                         | 7,078                             | 178,486                                    | 37,611                                      | 118,172   |
| Finished products.....do....                                   | 130,542                             | 70,635                                 | 9,268                          | 313                               | 76,915                                     | 6,941                                       | 33,979  |
| Work-in-process.....do....                                     | 142,135                             | 91,348                                 | 22,187                         | 4,727                             | 59,215                                     | 14,444                                      | 42,248  |
| Materials, supplies, fuel, etc.....do....                      | 69,113                              | 56,930                                 | 23,796                         | 2,038                             | 42,356                                     | 16,226                                      | 41,945  |
| End of year, total.....do....                                  | 352,147                             | 219,560                                | 53,318                         | 8,430                             | 190,630                                    | 38,616                                      | 123,420   |
| Finished products.....do....                                   | 137,302                             | 65,903                                 | 9,327                          | 629                               | 80,130                                     | 7,539                                       | 32,268  |
| Work-in-process.....do....                                     | 145,608                             | 97,257                                 | 23,454                         | 5,469                             | 68,127                                     | 15,532                                      | 49,470  |
| Materials, supplies, fuel, etc.....do....                      | 69,237                              | 56,400                                 | 20,537                         | 2,333                             | 42,373                                     | 15,546                                      | 41,682  |
| Expenditures for plant and equipment, total.....do....         | 32,296                              | 41,166                                 | 7,630                          | 4,214                             | 29,131                                     | 5,912                                       | 16,569  |
| New, total.....do....  | 28,417                              | 39,243                                 | 6,979                          | 3,794                             | 26,444                                     | 4,561                                       | 15,102  |
| New structures and additions to plant.....do....               | 5,649                               | 5,806                                  | 2,730                          | 1,333                             | 4,067                                      | 1,969                                       | 4,623   |
| New machinery and equipment.....do....                         | 22,768                              | 33,437                                 | 4,249                          | 2,461                             | 22,377                                     | 2,592                                       | 10,479  |
| Used plant and equipment.....do....                            | 3,879                               | 1,923                                  | 651                            | 420                               | 2,687                                      | 1,351                                       | 1,467   |
| Selected operating ratios:                                     |                                     |  |                                |                                   |  |   |   |
| Payroll/Total employment.....                                  | 6,454                               | 6,665                                  | 6,172                          | 7,626                             | 6,499                                      | 6,910                                       | 6,772   |
| Production workers/Total employment.....                       | .63                                 | .80                                    | .70                            | .88                               | .74  | .56   | .57   |
| Man-hours/Production workers.....                              | 2,076                               | 2,047                                  | 2,014                          | 2,039                             | 2,067                                      | 2,059                                       | 2,010   |
| Production worker wages/Man-hours.....                         | 2.78                                | 3.06                                   | 2.67                           | 3.66                              | 2.87                                       | 2.77  | 2.68  |
| Cost of materials and payrolls/Total value of shipments.....   | .74                                 | .72                                    | .73                            | .74                               | .73  | .79   | .74   |
| Cost of materials/Total value of shipments.....                | .47                                 | .37                                    | .43                            | .21                               | .39  | .49   | .39   |
| Adjusted value added/Total employment.....                     | 12,536                              | 11,998                                 | 11,894                         | 11,356                            | 11,907                                     | 11,801                                      | 11,926  |
| Salaries and wages/Adjusted value added.....                   | .51                                 | .56                                    | .52                            | .67                               | .55  | .58   | .57   |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item   | Establishments, total | Establishments with an average of- |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3561.—PUMPS AND COMPRESSORS             |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 642                   | 198                                | 77               | 100                | 93                 | 47                 | 61                   | 38                   | 17                   | 10                       | 1                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 61,322                | 336                                | 499              | 1,361              | 2,953              | 3,356              | 9,932                | 13,256               | 11,332               | 18,297                   | (D)                      |
| Payroll.....\$1,000..                            | 395,769               | 1,673                              | 2,708            | 7,409              | 18,466             | 20,899             | 61,891               | 84,939               | 73,641               | 124,143                  | (D)                      |
| Value added, adjusted.....do....                 | 768,787               | 3,715                              | 5,423            | 15,331             | 36,659             | 44,762             | 129,437              | 167,692              | 154,906              | 210,862                  | (D)                      |
| Value of shipments.....do....                    | 1,419,081             | 7,455                              | 10,475           | 30,836             | 67,340             | 83,066             | 241,587              | 305,129              | 262,335              | 410,858                  | (D)                      |
| Capital expenditures, new...do....               | 28,417                | 179                                | 205              | 413                | 727                | 1,776              | 4,305                | 6,359                | 5,633                | 8,820                    | (D)                      |
| INDUSTRY 3562.—BALL AND ROLLER BEARINGS          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 125                   | 13                                 | 4                | 15                 | 15                 | 16                 | 20                   | 12                   | 15                   | 10                       | 5                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 52,316                | 45                                 | (D)              | 235                | 542                | 1,143              | 2,863                | 4,107                | 10,513               | 14,783                   | 18,085                   |
| Payroll.....\$1,000..                            | 348,700               | 271                                | (D)              | 1,286              | 3,263              | 6,309              | 17,681               | 30,359               | 69,185               | 103,201                  | 117,145                  |
| Value added, adjusted.....do....                 | 627,694               | 389                                | (D)              | 2,562              | 5,374              | 13,735             | 32,891               | 50,456               | 132,670              | 188,363                  | 201,254                  |
| Value of shipments.....do....                    | 998,784               | 679                                | (D)              | 4,152              | 9,423              | 22,445             | 57,635               | 77,433               | 221,688              | 275,638                  | 329,691                  |
| Capital expenditures, new...do....               | 39,243                | 35                                 | (D)              | 353                | 251                | 3,525              | 3,449                | 4,671                | 7,648                | 9,051                    | 10,260                   |
| INDUSTRY 3564.—BLOWERS AND FANS                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 237                   | 70                                 | 35               | 35                 | 31                 | 29                 | 21                   | 10                   | 4                    | 2                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 15,244                | 128                                | 231              | 459                | 968                | 2,067              | 3,035                | 3,577                | 4,779                | (D)                      | -                        |
| Payroll.....\$1,000..                            | 94,090                | 788                                | 1,212            | 2,615              | 5,789              | 12,091             | 18,261               | 23,058               | 30,276               | (D)                      | -                        |
| Value added, adjusted.....do....                 | 180,801               | 1,513                              | 2,224            | 4,773              | 10,479             | 26,678             | 39,092               | 50,185               | 45,857               | (D)                      | -                        |
| Value of shipments.....do....                    | 315,285               | 3,428                              | 4,415            | 8,563              | 17,196             | 48,201             | 67,590               | 83,256               | 82,636               | (D)                      | -                        |
| Capital expenditures, new...do....               | 6,979                 | 83                                 | 51               | 173                | 360                | 937                | 861                  | 1,885                | 2,629                | (D)                      | -                        |
| INDUSTRY 3565.—INDUSTRIAL PATTERNS               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 1,209                 | 683                                | 238              | 182                | 80                 | 19                 | 6                    | -                    | 1                    | -                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 9,914                 | 1,209                              | 1,555            | 2,425              | 2,327              | 1,236              | 1,162                | -                    | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                            | 75,605                | 7,941                              | 10,667           | 17,378             | 17,888             | 11,051             | 10,680               | -                    | (D)                  | -                        | -                        |
| Value added, adjusted.....do....                 | 112,587               | 16,354                             | 16,496           | 25,504             | 24,028             | 14,711             | 15,494               | -                    | (D)                  | -                        | -                        |
| Value of shipments.....do....                    | 140,696               | 21,640                             | 20,753           | 31,821             | 30,492             | 18,438             | 17,552               | -                    | (D)                  | -                        | -                        |
| Capital expenditures, new...do....               | 3,794                 | 538                                | 365              | 453                | 772                | 1,501              | 165                  | -                    | (D)                  | -                        | -                        |
| INDUSTRY 3566.—POWER TRANSMISSION EQUIPMENT      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 532                   | 129                                | 65               | 66                 | 112                | 61                 | 52                   | 29                   | 10                   | 7                        | 1                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 46,670                | 261                                | 456              | 948                | 3,558              | 4,337              | 8,354                | 10,053               | 6,549                | 12,154                   | (D)                      |
| Payroll.....\$1,000..                            | 303,314               | 1,571                              | 2,686            | 5,764              | 22,282             | 26,525             | 52,669               | 64,359               | 45,488               | 81,970                   | (D)                      |
| Value added, adjusted.....do....                 | 555,710               | 3,111                              | 5,459            | 10,303             | 38,041             | 46,157             | 101,593              | 116,555              | 83,270               | 151,221                  | (D)                      |
| Value of shipments.....do....                    | 888,641               | 5,729                              | 8,184            | 17,362             | 62,388             | 78,044             | 159,944              | 189,344              | 139,340              | 228,306                  | (D)                      |
| Capital expenditures, new...do....               | 26,444                | 230                                | 148              | 403                | 1,778              | 1,500              | 4,705                | 6,665                | 4,144                | 6,871                    | (D)                      |
| INDUSTRY 3567.—INDUSTRIAL FURNACES AND OVENS     |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 238                   | 68                                 | 37               | 40                 | 37                 | 20                 | 25                   | 8                    | 3                    | -                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 12,118                | 100                                | 253              | 577                | 1,068              | 1,474              | 3,656                | 3,008                | 1,982                | -                        | -                        |
| Payroll.....\$1,000..                            | 83,738                | 722                                | 1,855            | 3,927              | 7,174              | 9,718              | 25,421               | 21,437               | 13,484               | -                        | -                        |
| Value added, adjusted.....do....                 | 143,009               | 1,592                              | 3,498            | 6,485              | 11,152             | 18,106             | 40,362               | 37,934               | 23,880               | -                        | -                        |
| Value of shipments.....do....                    | 279,058               | 2,947                              | 6,429            | 13,505             | 22,909             | 33,599             | 80,432               | 72,679               | 46,559               | -                        | -                        |
| Capital expenditures, new...do....               | 4,561                 | 38                                 | 55               | 140                | 156                | 470                | 1,192                | 1,885                | 625                  | -                        | -                        |
| INDUSTRY 3569.—GENERAL INDUSTRY MACHINES, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 777                   | 230                                | 113              | 157                | 131                | 75                 | 49                   | 12                   | 7                    | 2                        | 1                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 35,559                | 452                                | 757              | 2,178              | 4,068              | 5,069              | 7,529                | 4,320                | 4,286                | 6,900                    | (D)                      |
| Payroll.....\$1,000..                            | 240,816               | 2,311                              | 4,349            | 12,581             | 24,530             | 32,219             | 47,565               | 27,201               | 26,758               | 63,302                   | (D)                      |
| Value added, adjusted.....do....                 | 424,084               | 4,675                              | 8,955            | 22,596             | 47,722             | 74,905             | 86,585               | 56,257               | 51,332               | 71,057                   | (D)                      |
| Value of shipments.....do....                    | 691,280               | 8,715                              | 14,820           | 40,079             | 84,210             | 118,637            | 141,470              | 88,487               | 77,449               | 117,413                  | (D)                      |
| Capital expenditures, new...do....               | 15,102                | 213                                | 213              | 838                | 1,414              | 2,716              | 2,740                | 1,748                | 2,044                | 3,176                    | (D)                      |

- Represents zero. n.e.c. Not elsewhere classified.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

<sup>1</sup>Includes capital expenditures for plants under construction but not in operation which constitute a small proportion of the total for the size class.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                           | Value of shipments     |                      |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|------------------------|----------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total                  | Primary products     | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | (\$1,000)              | (\$1,000)            | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           | A  | B                      | C                    | D                  | E                      | F                                    | G                                  | H                     | I                        |                               |
| 3561      | Pumps and compressors.....1963..<br>1958..         | 1,419,081<br>1,114,053 | 1,070,049<br>855,661 | 185,874<br>128,521 | 163,158<br>129,871     | 85<br>87                             | 1,249,219<br>1,015,841             | 1,070,049<br>863,465  | 179,170<br>152,376       | 86<br>85                      |
| 3562      | Ball and roller bearings.....1963..<br>1958..      | 998,784<br>649,640     | 946,318<br>622,896   | 31,702<br>10,654   | 20,764<br>16,090       | 97<br>98                             | 961,032<br>636,777                 | 946,318<br>622,896    | 14,714<br>13,881         | 98<br>98                      |
| 3564      | Blowers and fans.....1963..<br>1958..              | 315,285<br>271,629     | 236,709<br>199,295   | 50,653<br>41,512   | 27,923<br>30,822       | 83<br>83                             | 299,385<br>252,899                 | 236,709<br>199,295    | 62,676<br>53,604         | 79<br>79                      |
| 3565      | Industrial patterns.....1963..<br>1958..           | 140,696<br>98,343      | 127,669<br>90,078    | 5,871<br>4,395     | 7,156<br>3,870         | 96<br>95                             | 159,896<br>121,279                 | 127,669<br>90,078     | 32,227<br>31,201         | 80<br>74                      |
| 3566      | Power transmission equipment.....1963..<br>1958..  | 888,641<br>630,303     | 696,038<br>489,658   | 129,923<br>99,084  | 62,680<br>41,561       | 84<br>83                             | 883,382<br>622,741                 | 696,038<br>489,658    | 187,344<br>133,083       | 79<br>79                      |
| 3567      | Industrial furnaces and ovens.....1963..<br>1958.. | 279,058<br>204,835     | 201,778<br>152,831   | 40,326<br>26,661   | 36,944<br>25,343       | 83<br>85                             | 237,660<br>184,845                 | 201,788<br>152,831    | 35,872<br>32,014         | 85<br>85                      |
| 3569      | General industry machines, n.e.c..1963..<br>1958.. | 691,280<br>458,280     | 462,679<br>344,724   | 92,594<br>52,079   | 136,007<br>61,477      | 83<br>87                             | 664,276<br>467,391                 | 462,679<br>344,724    | 201,597<br>122,667       | 70<br>74                      |

NOTE: See Introduction for an explanation of terms used.





TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code                           | Class of products and miscellaneous receipts                 | All industries | Industrial patterns (SIC 3565)               | Cray iron foundries (SIC 3321)  | Malleable iron foundries (SIC 3322)    | Steel foundries (SIC 3323)  | Aluminum castings (SIC 3361)       | Other industries                             |                                  |                                    |                  |
|--|--|----------------|--|---------------------------------|--|---|------------------------------------|--|----------------------------------|------------------------------------|------------------|
| INDUSTRIAL PATTERNS INDUSTRY               |  |                |  |                                 |  |   |                                    |  |                                  |                                    |                  |
| 35650                                      | Total shipments and receipts of the industry.....            | (X)            | 140,696                                      | (X)                             | (X)                                    | (X)   | (X)                                | (X)  |                                  |                                    |                  |
|  | Industrial patterns.....                                     | 159,896        | 127,669                                      | 9,849                           | 3,264                                  | 5,815   | 5,775                              | 7,524  |                                  |                                    |                  |
|  | Secondary products.....                                      | (X)            | 5,871  | (X)                             | (X)                                    | (X)   | (X)                                | (X)  |                                  |                                    |                  |
|  | Miscellaneous receipts, total.....                           | (X)            | 7,156  | (X)                             | (X)                                    | (X)   | (X)                                | (X)  |                                  |                                    |                  |
|  | Contract and commission work.....                            | (X)            | 2,731  | (X)                             | (X)                                    | (X)   | (X)                                | (X)  |                                  |                                    |                  |
|  | Sales of products bought and resold.....                     | (X)            | 1,231  | (X)                             | (X)                                    | (X)   | (X)                                | (X)  |                                  |                                    |                  |
|  | Other miscellaneous receipts.....                            | (X)            | 3,194  | (X)                             | (X)                                    | (X)   | (X)                                | (X)  |                                  |                                    |                  |
| Prod. class code                           | Class of products and miscellaneous receipts                 | All industries | Power transmission equipment (SIC 3566)      | Other industries                | Prod. class code                       | Class of products and miscellaneous products  | All industries                     | Industrial furnaces and ovens (SIC 3567)     | Other industries                 |                                    |                  |
| POWER TRANSMISSION EQUIPMENT INDUSTRY      |  |                |  |                                 | INDUSTRIAL FURNACES AND OVENS INDUSTRY |   |                                    |  |                                  |                                    |                  |
| 35661                                      | Total shipments and receipts of the industry.....            | (X)            | 888,641                                      | (X)                             |  | Total shipments and receipts of the industry.....   | (X)                                | 279,058                                      | (X)                              |                                    |                  |
| 35662                                      | Primary products.....  | 883,382        | 696,038                                      | 187,344                         | 35671                                  | Primary products.....   | 237,660                            | 201,788                                      | 35,872                           |                                    |                  |
| 35663                                      | Plain bearings.....  | 87,949         | 54,373                                       | 133,576                         | 35672                                  | Electric industrial furnaces and ovens, metal processing.....   | 44,697                             | 42,527                                       | 2,170                            |                                    |                  |
| 35660                                      | Speed changers, industrial high speed drives, and gears..... | 333,331        | 272,832                                      | 1260,499                        | 35673                                  | Fuel-fired industrial furnaces and ovens, metal processing.....                                       | 76,552                             | 65,890                                       | 1510,662                         |                                    |                  |
|  | Other mechanical power transmission equipment.....           | 449,460        | 356,604                                      | 1392,856                        | 35670                                  | High frequency induction and dielectric heating equipment and parts, attachments, and components..... | 109,875                            | 87,608                                       | 1622,267                         |                                    |                  |
|  | Power transmission equipment, n.s.k.....                     | 12,642         | 12,229                                       | 413                             |  | Industrial furnaces and ovens, n.s.k.....   | 6,536                              | 5,763  | 773                              |                                    |                  |
| 33620                                      | Secondary products.....                                      | (X)            | 129,923                                      | (X)                             | 3559-                                  | Secondary products.....   | (X)                                | 40,326                                       | (X)                              |                                    |                  |
| 3535-                                      | Copper and copper-base alloy castings.....                   | (X)            | 2,655  | (X)                             |  | Special industry machines, n.e.c.   | (X)                                | 15,039                                       | (X)                              |                                    |                  |
| 3717-                                      | Conveyors.....   | (X)            | 19,234                                       | (X)                             |  | Other secondary products.....   | (X)                                | 1725,287                                     | (X)                              |                                    |                  |
| 37291                                      | Motor vehicles and parts.....                                | (X)            | 29,625                                       | (X)                             |  | Miscellaneous receipts.....   | (X)                                | 36,944                                       | (X)                              |                                    |                  |
|  | Other aircraft parts and auxiliary equipment.....            | (X)            | 2,847  | (X)                             |  | Contract work.....  | (X)                                | 1,846  | (X)                              |                                    |                  |
|  | Other secondary products.....                                | (X)            | 1475,562                                     | (X)                             |  | Sales of products bought and resold.....  | (X)                                | 18,502                                       | (X)                              |                                    |                  |
|  | Miscellaneous receipts, total.....                           | (X)            | 62,680                                       | (X)                             |  | Receipts for installation.....  | (X)                                | 10,474                                       | (X)                              |                                    |                  |
|  | Contract and commission work.....                            | (X)            | 16,368                                       | (X)                             |  | Receipts for repair work.....   | (X)                                | 3,415  | (X)                              |                                    |                  |
|  | Sales of products bought and resold.....                     | (X)            | 41,631                                       | (X)                             |  | Other miscellaneous receipts.....   | (X)                                | 2,707  | (X)                              |                                    |                  |
|  | Sales of scrap and refuse.....                               | (X)            | 3,028  | (X)                             |  |   |                                    |  |                                  |                                    |                  |
|  | Other miscellaneous receipts.....                            | (X)            | 1,653  | (X)                             |  |   |                                    |  |                                  |                                    |                  |
| Prod. class code                           | Class of products and miscellaneous receipts                 | All industries | General industry machines, n.e.c. (SIC 3569) | Boiler shop products (SIC 3443) | Valves and pipe fittings (SIC 3494)    | Conveyors (SIC 3535)  | Food products machinery (SIC 3551) | Special industry machines, n.e.c. (SIC 3559) | Pumps and compressors (SIC 3561) | Miscellaneous machinery (SIC 3599) | Other industries |
| GENERAL INDUSTRY MACHINES, N.E.C. INDUSTRY |  |                |  |                                 |  |   |                                    |  |                                  |                                    |                  |
| 35690                                      | Total shipments and receipts of the industry.....            | (X)            | 691,280                                      | (X)                             | (X)                                    | (X)   | (X)                                | (X)  | (X)                              | (X)                                | (X)              |
|  | General industrial machines, n.e.c.....                      | 664,276        | 462,679                                      | 12,062                          | 4,548                                  | 5,849   | 10,678                             | 15,854                                       | 10,763                           | 13,285                             | 13128,558        |
| 3423-                                      | Secondary products.....                                      | (X)            | 92,594                                       | (X)                             | (X)                                    | (X)   | (X)                                | (X)  | (X)                              | (X)                                | (X)              |
| 3429-                                      | Hand and edge tools.....                                     | (X)            | 2,110  | (X)                             | (X)                                    | (X)   | (X)                                | (X)  | (X)                              | (X)                                | (X)              |
| 3443-                                      | Hardware, n.e.c.....   | (X)            | 3,043  | (X)                             | (X)                                    | (X)   | (X)                                | (X)  | (X)                              | (X)                                | (X)              |
| 3494-                                      | Boiler shop products.....                                    | (X)            | 15,484                                       | (X)                             | (X)                                    | (X)   | (X)                                | (X)  | (X)                              | (X)                                | (X)              |
| 3542-                                      | Valves and pipe fittings.....                                | (X)            | 2,817  | (X)                             | (X)                                    | (X)   | (X)                                | (X)  | (X)                              | (X)                                | (X)              |
| 3548-                                      | Metal-forming machine tools.....                             | (X)            | 2,586  | (X)                             | (X)                                    | (X)   | (X)                                | (X)  | (X)                              | (X)                                | (X)              |
| 3551-                                      | Metalworking machinery, n.e.c.....                           | (X)            | 6,744  | (X)                             | (X)                                    | (X)   | (X)                                | (X)  | (X)                              | (X)                                | (X)              |
| 3559-                                      | Food products machinery.....                                 | (X)            | 2,296  | (X)                             | (X)                                    | (X)   | (X)                                | (X)  | (X)                              | (X)                                | (X)              |
| 3585-                                      | Special industry machines, n.e.c.....                        | (X)            | 3,975  | (X)                             | (X)                                    | (X)   | (X)                                | (X)  | (X)                              | (X)                                | (X)              |
| 35990                                      | Refrigeration machinery.....                                 | (X)            | 4,379  | (X)                             | (X)                                    | (X)   | (X)                                | (X)  | (X)                              | (X)                                | (X)              |
|  | Carburetors, pistons, and other machine shop products.....   | (X)            | 6,064  | (X)                             | (X)                                    | (X)   | (X)                                | (X)  | (X)                              | (X)                                | (X)              |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963—Continued

| Prod. class code | Class of products and miscellaneous receipts  | All industries | General industry machines, n.e.c. (SIC 3569) | Boiler shop products (SIC 3443) | Valves and pipe fittings (SIC 3494) | Conveyors (SIC 3535) | Food products machinery (SIC 3551) | Special industry machines, n.e.c. (SIC 3559) | Pumps and compressors (SIC 3561) | Miscellaneous machinery (SIC 3599) | Other industries |
|------------------|---|----------------|--|---------------------------------|-------------------------------------|----------------------|------------------------------------|--|----------------------------------|------------------------------------|------------------|
|                  | GENERAL INDUSTRY MACHINES, N.E.C., INDUSTRY—Continued   |                |  |                                 |                                     |                      |                                    |  |                                  |                                    |                  |
|                  | Secondary products—Continued  |                |  |                                 |                                     |                      |                                    |  |                                  |                                    |                  |
| 37175            | Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufacturers..... | (X)            | 6,461  | (X)                             | (X)                                 | (X)                  | (X)                                | (X)  | (X)                              | (X)                                | (X)              |
|                  | Other secondary products.....   | (X)            | 1936,635                                     | (X)                             | (X)                                 | (X)                  | (X)                                | (X)  | (X)                              | (X)                                | (X)              |
|                  | Miscellaneous receipts.....   | (X)            | 136,007                                      | (X)                             | (X)                                 | (X)                  | (X)                                | (X)  | (X)                              | (X)                                | (X)              |
|                  | Contract work.....  | (X)            | 13,996                                       | (X)                             | (X)                                 | (X)                  | (X)                                | (X)  | (X)                              | (X)                                | (X)              |
|                  | Sales of products bought and resold....   | (X)            | 28,712                                       | (X)                             | (X)                                 | (X)                  | (X)                                | (X)  | (X)                              | (X)                                | (X)              |
|                  | Receipts for research and development work.....   | (X)            | 82,671                                       | (X)                             | (X)                                 | (X)                  | (X)                                | (X)  | (X)                              | (X)                                | (X)              |
|                  | Receipts for installation of products...  | (X)            | 2,186  | (X)                             | (X)                                 | (X)                  | (X)                                | (X)  | (X)                              | (X)                                | (X)              |
|                  | Other miscellaneous receipts.....   | (X)            | 8,442  | (X)                             | (X)                                 | (X)                  | (X)                                | (X)  | (X)                              | (X)                                | (X)              |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Includes \$3.9 million shipped by industry 3494, Valves and Pipe Fittings, \$2.5 million by industry 3531, Construction Machinery, and \$6.9 million by industry 3621, Motors and Generators. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3522, Farm Machinery and Equipment; 3561, Pumps and Compressors; 3541, Metal-Cutting Machine Tools; 3586, Measuring and Dispensing Pumps; 3589, Service Industry Machines, N.E.C.; and, 3731, Ship Building and Repairing.

<sup>2</sup>The following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3494, Valves and Pipe Fittings; 3599, Miscellaneous Machinery; and, 3729, Aircraft Equipment, N.E.C.

<sup>3</sup>The following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3443, Boiler Shop Products; 3511, Steam Engines and Turbines; and, 3519, Internal Combustion Engines.

<sup>4</sup>Includes \$2.1 million shipped by industry 3494, Valves and Pipe Fittings; and \$6.7 million by industry 3533, Oil Field Machinery.

<sup>5</sup>Includes \$3.8 million shipped by industry 3533, Oil Field Machinery. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3519, Internal Combustion Engines; 3621, Motors and Generators; 3644, Noncurrent Carrying Devices; and, 3729, Aircraft Equipment, N.E.C.

<sup>6</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 30692, Rubber hose and tubing; 33230, Steel castings; 34336, Other heating equipment (except electric) and parts for nonelectric heating equipment; 35112, Steam, gas, and hydraulic turbine and parts, steam engines and parts; and 35334, Other oil and gas field machinery and tools (except pumps), including water wells.

<sup>7</sup>Includes the following product classes which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 33620, Copper and copper-base alloy castings; 34990, Fabricated metal products, n.e.c.; 35351, Conveyors and conveying equipment (except hoists and farm elevators); and 37175, Parts and accessories for passenger cars, trucks, and busses, shipped to other than motor vehicle manufacturers.

<sup>8</sup>Includes \$6.8 million shipped by industry 3443, Boiler Shop Products, and \$8.9 million by industry 3585, Refrigeration Machinery. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3444, Sheet Metal Work; 3494, Valves and Pipe Fittings; 3599, Miscellaneous Machinery; and 3621, Motors and Generators.

<sup>9</sup>Includes \$4.9 million shipped by industry 3444, Sheet Metal Work, and \$2.9 million by industry 3585, Refrigeration Machinery. In addition, the following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing figures for individual companies: 3559, Special Industry Machines, N.E.C.

<sup>10</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 35663, Other mechanical power transmission equipment; 35851, Heat transfer equipment; 36430, Current carrying wiring devices, including lightning rods; and, 36992, Lamp bulb components (except glass flasks) and electrical products.

<sup>11</sup>Includes \$3.8 million shipped by industry 3362, Brass, Bronze, Copper Castings; \$3.8 million by industry 3562, Ball and Roller Bearings; and \$14.4 million by industry 3717, Motor Vehicles and Parts. In addition, the following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing figures for individual companies: 3722, Aircraft Engines and Parts.

<sup>12</sup>Includes \$3.4 million shipped by industry 3541, Metal-Cutting Machine Tools, and \$21.6 million by industry 3621, Motors and Generators. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3511, Steam Engines and Turbines; 3533, Oil Field Machinery; 3548, Metalworking Machinery, N.E.C.; 3561, Pumps and Compressors; 3717, Motor Vehicles and Parts; 3729, Aircraft Equipment, N.E.C.

<sup>13</sup>Includes \$17.2 million shipped by industry 3717, Motor Vehicles and Parts. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3431, Metal Plumbing Fixtures; 3532, Mining Machinery and Equipment; 3535, Conveyors; 3554, Paper Industries Machinery; 3564, Blowers and Fans; 3722, Aircraft Engines and Parts; and 3821, Mechanical Measuring Devices.

<sup>14</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 33230, Steel castings; 35370, Industrial trucks and tractors; and 35623, Mounted bearings.

<sup>15</sup>The following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing figures for individual companies: 3441, Fabricated Structural Steel.

<sup>16</sup>The following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3446, Architectural Metal Work; 3693, X-Ray Apparatus and Tubes; and 3717, Motor Vehicles and Parts.

<sup>17</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 35322, Crushing, pulverizing, and screening plants, stationary, and 38213, Industrial process instruments.

<sup>18</sup>The following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3079, Plastics Products, N.E.C.; 3296, Mineral Wool; 3444, Sheet Metal Work; 3498, Fabricated Pipe and Fittings; 3522, Farm Machinery and Equipment; 3531, Construction Machinery; 3532, Mining Machinery and Equipment; 3534, Elevators and Moving Stairways; 3541, Metal-Cutting Machine Tools; 3582, Commercial Laundry Equipment; 3585, Refrigeration Machinery; 3621, Motors and Generators; 3731, Ship Building and Repairing; and 3821, Mechanical Measuring Devices.

<sup>19</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 28993, Essential oils, fireworks, and pyrotechnics, chemicals and chemical preparations, n.e.c.; 34612, Job stampings, except automotive.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product  | Total shipments including interplant transfers |                      |                            |                        |
|--------------|--|--|----------------------|----------------------------|------------------------|
|              |  | 1963   |                      | 1958                       |                        |
|              |  | Quantity (number of units)                     | Value (\$1,000)      | Quantity (number of units) | Value (\$1,000)        |
| 3561- --     | PUMPS AND COMPRESSORS, TOTAL <sup>1</sup> .....    | (X)  | 1,249,219            | (X)                        | <sup>1</sup> 1,015,841 |
| 35611 --     | Industrial pumps, except hydraulic fluid power:    |  |                      |                            |                        |
|              | As reported in the census of manufactures.....     | (X)  | <sup>2</sup> 321,896 | (X)                        | 295,373                |
|              | As reported on Census Annual Form MA-35P.....      | (X)  | <sup>2</sup> 320,795 | (X)                        | (NA)                   |
|              | Value of drivers (reported separately).....        | (X)  | <sup>3</sup> 71,822  | (X)                        | (NA)                   |
|              | Reciprocating pumps:                               |  |                      |                            |                        |
| 35611 01     | Direct acting steam driven.....                    | 2,195  | 3,190                | 1,923                      | 4,609                  |
| 35611 03     | Power operated, other than steam.....              | 58,794   | 20,147               | 45,485                     | 16,716                 |
| 35611 07     | Turbine pumps, vertical (including deep well)..... | 21,239   | 31,214               | 18,217                     | 36,310                 |
|              | Centrifugal pumps:                                 |  |                      |                            |                        |
|              | Single stage, single suction, close coupled:       |  |                      |                            |                        |
| 35611 11     | 1/2" discharge outlet and under.....               | 35,372   | 1,443                | 166,882                    | 10,575                 |
| 35611 12     | 3/4" and 1" discharge outlet.....                  | 136,200  | 6,169                |                            |                        |
| 35611 14     | 1-1/4" and 1-1/2" discharge outlet.....            | 111,355  | 8,194                | 58,772                     | 7,295                  |
| 35611 15     | 2" and 2-1/2" discharge outlet.....                | 41,774   | 5,891                | 26,783                     | 5,692                  |
| 35611 16     | 3" and 4" discharge outlet.....                    | 22,897   | 6,527                | 13,144                     | 6,005                  |
| 35611 19     | Over 4" discharge outlet.....                      | 4,212  | 2,800                | 2,614                      | 2,308                  |
|              | Single stage, single suction, frame mounted:       |  |                      |                            |                        |
| 35611 21     | 1/2" discharge outlet and under.....               | 13,567   | 495                  | 129,573                    | 7,180                  |
| 35611 22     | 3/4" and 1" discharge outlet.....                  | 142,070  | 7,184                |                            |                        |
| 35611 23     | 1-1/4" and 1-1/2" discharge outlet.....            | 213,583  | 11,634               | 148,253                    | 11,273                 |
| 35611 24     | 2" and 2-1/2" discharge outlet.....                | 43,008   | 7,776                | 34,515                     | 7,180                  |
| 35611 25     | 3" discharge outlet.....                           | 24,173   | 6,071                | 19,915                     | 5,824                  |
| 35611 26     | 4" to 6" discharge outlet.....                     | 16,329   | 9,485                | 9,117                      | 7,992                  |
| 35611 29     | Over 6" discharge outlet.....                      | 2,072  | 4,819                | 1,244                      | 2,515                  |
|              | Single stage, double suction:                      |  |                      |                            |                        |
| 35611 42     | Under 4" discharge outlet.....                     | 9,896  | 2,685                | 5,460                      | 2,934                  |
| 35611 44     | 4" and 5" discharge outlet.....                    | 4,138  | 3,728                | 4,089                      | 4,969                  |
| 35611 46     | 6" and 7" discharge outlet.....                    | 2,012  | 2,068                | 1,480                      | 2,491                  |
| 35611 48     | 8" and 12" discharge outlet.....                   | 2,145  | 4,756                | 2,004                      | 6,166                  |
| 35611 49     | Over 12" discharge outlet.....                     | 431  | 3,160                | 525                        | 5,289                  |
|              | Multistage (single or double suction):             |  |                      |                            |                        |
| 35611 52     | 1-1/2" discharge outlet and under.....             | 9,495  | 1,546                | 8,273                      | 4,692                  |
| 35611 54     | 2" and 3" discharge outlet.....                    | 3,992  | 5,614                | 2,581                      | 7,685                  |
| 35611 56     | 4" and 5" discharge outlet.....                    | 1,455  | 4,585                | 829                        | 4,909                  |
| 35611 58     | 6" and 7" discharge outlet.....                    | 978  | 4,757                | 535                        | 5,234                  |
| 35611 59     | 8" and over discharge outlet.....                  | 535  | 11,449               | 222                        | 5,098                  |
|              | Propeller and mixed flow:                          |  |                      |                            |                        |
| 35611 62     | 20" and under.....                                 | 1,577  | 3,925                | 1,649                      | 5,910                  |
| 35611 64     | Over 20".....                                      | 538  | 7,023                |                            |                        |
|              | All other centrifugal pumps (including can, etc.): |  |                      |                            |                        |
| 35611 65     | 1-1/2" discharge outlet and under.....             | 136,906  | 3,668                | (NA)                       | 44,889                 |
| 35611 66     | 2" to 6" discharge outlet.....                     | 25,381   | 7,255                |                            |                        |
| 35611 69     | Over 6" discharge outlet.....                      | 2,409  | 10,482               |                            |                        |
|              | Rotary pumps:                                      |  |                      |                            |                        |
|              | 100 p.s.i. and under, designed pressure:           |  |                      |                            |                        |
| 35611 72     | 10 g.p.m. and under, designed capacity.....        | 251,293  | 5,872                | 351,120                    | 5,836                  |
| 35611 73     | 11-299 g.p.m. designed capacity.....               | 93,893   | 8,413                | 122,712                    | 9,041                  |
| 35611 74     | 300 g.p.m. and over, designed capacity.....        | 4,226  | 1,315                | 1,616                      | 1,279                  |
| 35611 75     | 101-250 p.s.i. designed pressure.....              | 153,632  | 10,002               | 117,764                    | 7,040                  |
| 35611 76     | 251-500 p.s.i. designed pressure.....              | 72,524   | 4,301                | 27,000                     | 3,100                  |
| 35611 79     | Over 500 p.s.i. designed pressure.....             | 7,754  | 1,197                | 6,759                      | 1,641                  |
| 35611 98     | Other industrial pumps.....                        | 42,371   | 8,133                | (NA)                       | 20,513                 |
| 35611 00     | Industrial pumps, n.s.k.....                       | (X)  | -                    | (X)                        | 15,183                 |
| 35612 --     | Hydraulic fluid power pumps and motors:            |  |                      |                            |                        |
|              | As reported in the census of manufactures.....     | (X)  | <sup>2</sup> 134,885 | (X)                        | 76,769                 |
|              | As reported on Census Annual Form MA-35P.....      | (X)  | <sup>2</sup> 134,023 | (X)                        | (NA)                   |
|              | Value of drivers (reported separately).....        | (X)  | <sup>3</sup> 7,486   | (X)                        | (NA)                   |
|              | Hydraulic fluid power pumps and motors:            |  |                      |                            |                        |
| 35612 81     | Gear type.....                                     | 974,731  | 35,663               | 519,036                    | 21,292                 |
| 35612 83     | Vane type.....                                     | 4306,210                                       | 421,204              | 829,887                    | 26,756                 |
|              | Piston type:                                       |  |                      |                            |                        |
| 35612 85     | Axial.....   | 88,583   | 38,157               | 42,026                     | 17,744                 |
| 35612 87     | Rotary or radial.....                              | 12,915   | 12,267               |                            |                        |
|              | Vacuum pumps (except laboratory):                  |  |                      |                            |                        |
| 35612 91     | Wet.....   | 32,925   | 9,829                | 18,988                     | 10,977                 |
| 35612 92     | Dry.....   | 75,731   | 9,417                | ( <sup>5</sup> )           | ( <sup>5</sup> )       |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Total shipments including interplant transfers |                      |                               |                     |
|--------------|---|--|----------------------|-------------------------------|---------------------|
|              |   | 1963   |                      | 1958                          |                     |
|              |   | Quantity<br>(number of units)                  | Value<br>(\$1,000)   | Quantity<br>(number of units) | Value<br>(\$1,000)  |
| 35613 --     | Domestic water systems and pumps, including pump jacks and cylinders:<br>As reported in the census of manufactures..... | (X)  | <sup>2</sup> 83,733  | (X)                           | <sup>2</sup> 67,656 |
|              | As reported on Census Forms M35G, total.....  | (X)  | <sup>2</sup> 79,403  | (X)                           | <sup>2</sup> 66,474 |
|              | Domestic water systems:<br>Jet pump systems:<br>Deep well (except submersible):   |  |                      |                               |                     |
| 35613 03     | 1/3 hp. and under.....  | 24,023   | 1,274                | 25,397                        | 1,649               |
| 35613 04     | 1/2 hp.....   | 62,961   | 4,012                | 67,870                        | 5,266               |
| 35613 05     | 3/4-1 hp.....   | 77,529   | 6,332                | 51,203                        | 5,339               |
| 35613 06     | Over 1 hp.....  | 8,881  | 1,217                | 7,939                         | 1,595               |
|              | Shallow well:   |  |                      |                               |                     |
| 35613 07     | 1/3 hp. and under.....  | 160,938  | 8,146                | 134,898                       | 8,178               |
| 35613 08     | 1/2 hp.....   | 53,885   | 3,225                | 35,396                        | 2,510               |
| 35613 09     | 3/4-1 hp.....   | 9,963  | 702                  | 9,812                         | 861                 |
| 35613 11     | Over 1 hp.....  | 3,860  | 383                  | 2,748                         | 289                 |
|              | Convertible jet:  |  |                      |                               |                     |
| 35613 12     | 1/3 hp. and under.....  | 77,586   | 4,510                | 79,031                        | 4,988               |
| 35613 13     | 1/2 hp.....   | 124,615  | 8,236                | 87,217                        | 6,773               |
| 35613 14     | 3/4-1 hp.....   | 50,894   | 4,256                | 19,601                        | 2,017               |
| 35613 15     | Over 1 hp.....  | 2,544  | 356                  | 1,145                         | 219                 |
|              | Nonjet pumps systems (except submersible):<br>Deep well:  |  |                      |                               |                     |
| 35613 16     | Under 1 hp.....   | 8,617  | 807                  | 14,440                        | 1,612               |
| 35613 17     | 1/3 hp.....   | 747  | 136                  | 1,018                         | 176                 |
| 35613 18     | Over 3 hp.....  | 586  | 574                  | 119                           | 184                 |
|              | Shallow well:   |  |                      |                               |                     |
| 35613 21     | Under 250 gph.....  | 40,389   | 2,544                | 872                           | 62                  |
| 35613 22     | 250-499 gph.....  |  |                      | 65,810                        | 4,098               |
| 35613 23     | 500 gph. and over.....  |  |                      | 12,821                        | 1,479               |
|              | Submersible pump systems:   |  |                      |                               |                     |
| 35613 24     | 1/3 hp. and under.....  | 34,392   | 3,513                | 8,673                         | 1,050               |
| 35613 25     | 1/2 hp.....   | 70,994   | 8,182                | 28,816                        | 4,415               |
| 35613 26     | 3/4-1 hp.....   | 67,712   | 10,538               | 30,228                        | 6,227               |
| 35613 27     | Over 1 hp. up to and including 5 hp.....  | 27,602   | 7,664                | 9,916                         | 4,988               |
|              | Domestic hand and windmill pumps:<br>Pitcher.....   | 84,205   | 415                  | 85,127                        | 363                 |
| 35613 33     | Other hand and windmill pumps.....  | 20,332   | 417                  | 25,524                        | 502                 |
| 35613 40     | Pump jacks.....   | 12,299   | 443                  | 14,382                        | 469                 |
| 35613 60     | Cylinders, sold separately.....   | 70,496   | 743                  | 95,827                        | 1,165               |
| 35614 --     | Air and gas-compressors, except refrigeration compressors:<br>As reported in the census of manufactures.....            | (X)  | <sup>2</sup> 292,301 | (X)                           | 260,226             |
|              | As reported on Census Annual Form MA-35P.....   | (X)  | <sup>2</sup> 285,878 | (X)                           | (NA)                |
|              | Value of drivers (reported separately).....   | (X)  | <sup>3</sup> 28,927  | (X)                           | (NA)                |
|              | Air compressors:<br>Stationary:   |  |                      |                               |                     |
| 35614 11     | 1-1/2hp. and under.....   | 113,969  | 9,748                | 91,973                        | 9,349               |
| 35614 12     | Over 1-1/2-5 hp.....  | 38,970   | 11,714               | 37,095                        | 14,584              |
| 35614 13     | 6-15 hp.....  | 13,229   | 9,861                | 8,483                         | 9,453               |
| 35614 15     | 16-100 hp.....  | 7,859  | 27,150               | 5,838                         | 27,950              |
| 35614 16     | 101-250 hp.....   | 1,436  | 16,333               | 818                           | 9,639               |
| 35614 17     | 251-1,000 hp.....   | 255  | 8,211                | 262                           | 11,483              |
| 35614 19     | Over 1,000 hp.....  | 31   | 5,466                | 47                            | 5,894               |
|              | Portable:   |  |                      |                               |                     |
| 35614 31     | Under 75 c.f.m.....   | 60,351   | 9,352                | 47,295                        | 25,639              |
| 35614 32     | 75-150 c.f.m.....   | 6,323  | 18,370               |                               |                     |
| 35614 33     | 151-400 c.f.m.....  | 674  | 5,654                |                               |                     |
| 35614 35     | Over 400 c.f.m.....   | 1,036  | 18,660               |                               |                     |
|              | Gas compressors:<br>Centrifugal and axial.....  | 419  | 27,695               | 639                           | 35,176              |
|              | Reciprocating and rotary:<br>Integral diesel, or gas-engine powered (reciprocating):                                    |  |                      |                               |                     |
| 35614 52     | 250 hp. and under.....  | 344  | <sup>6</sup> 3,100   | 685                           | 4,807               |
| 35614 55     | 251-1,000 hp.....   | 164  | <sup>6</sup> 14,134  | 374                           | 29,244              |
| 35614 57     | Over 1,000 hp.....  | 182  | <sup>6</sup> 43,032  | 177                           | 33,209              |
|              | Other than integral engine powered (reciprocating and rotary):  |  |                      |                               |                     |
| 35614 62     | 250 hp. and under.....  | 1,856  | 6,401                | 275                           | 2,098               |
| 35614 65     | 251-1,000 hp.....   | 269  | 7,954                | 183                           | 14,347              |
| 35614 67     | Over 1,000 hp.....  | 48   | 5,247                |                               |                     |
| 35614 97     | Other compressors <sup>7</sup> .....  | 155,318  | 8,869                | (X)                           | ( <sup>5</sup> )    |
| 35614 00     | Compressors, n.s.k.....   | (X)  | -                    | (X)                           | 3,510               |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Total shipments including interplant transfers |   |   |                                   |
|--------------|---|--|---|---|-----------------------------------|
|              |   | 1963   |   | 1958  |                                   |
|              |   | Quantity<br>(number of units)                  | Value<br>(\$1,000)                      | Quantity<br>(number of units)                                     | Value<br>(\$1,000)                |
| 35615 --     | Pumps and compressors, n.e.c., except refrigeration compressors, total...<br>Products included in the census of manufactures and on Census Annual Form MA-35P:<br>As reported in the census of manufactures <sup>8</sup> .....<br>As reported on Census Form MA-35P.....<br><br>Value of drivers (reported separately)..... | (X)<br>(X)<br>(X)                              | 147,958<br>286,858<br>277,045<br>35,329 | (X)<br>(X)<br>(X)   | 123,889<br>84,373<br>(NA)<br>(NA) |
| 35615 11     | Oil-well and oil-field pumps (except boiler-feed):<br>Subsurface pumps for oil-well pumping.....  | 40,975   | 31,556                                  | (NA)  | 25,539                            |
| 35615 13     | Slush pumps.....  | 152  | 6,041                                   | 714   | 9,091                             |
| 35615 15     | Other oil-well and oil-field pumps.....   | 1,656  | 5,554                                   | (NA)  | 8,779                             |
| 35615 96     | Other pumps (except automotive) (such as oil burner and appliance pumps, fire engine pumps, laboratory pumps, sump pumps, etc.)....   | 1,761,346                                      | 28,565                                  | (NA)  | 940,964                           |
| 35615 31     | Industrial spraying equipment:<br>Power paint-spraying outfits and liquid power sprayers, except agricultural types.....  | (X)  | 54,164                                  | (X)   | 32,397                            |
| 35615 51     | Hand sprayers, except agricultural and flame types.....   | (NA)   | 1,919                                   | 339,402   | 3,466                             |
| 35615 00     | Pumps and compressors, n.s.k.....   | (X)  | 5,017                                   | (X)   | 3,653                             |
| 35616 11     | Parts and attachments for pumps, air and gas compressors, and pumping equipment.....  | (X)  | 250,088                                 | (X)   | 180,166                           |
| 35610 00     | Pumps and compressors, n.s.k.....   | (X)  | 18,358                                  | (X)   | 11,762                            |
|              |   |  |   | Value of total shipments including interplant transfers (\$1,000) |                                   |
|              |   |  |   | 1963  | 1958                              |
| 3562- --     | BALL AND ROLLER BEARINGS, TOTAL.....  |  |   | <sup>10</sup> 961,032   | <sup>10</sup> 636,777             |
| 35621 --     | Ball bearings, complete, total.....   |  |   | <sup>10</sup> 388,197   | <sup>10</sup> 289,073             |
|              | Annular, ground or precision (including self-aligning):   |  |   |   |                                   |
| 35621 11     | Single row conrad, miniature (below 9mm o.d.).....  |  |   | 35,216  | 178,679                           |
| 35621 13     | Single row conrad, other.....   |  |   | 170,852   |                                   |
| 35621 14     | Single row maximum capacity type.....   |  |   | 41,318  | 19,685                            |
| 35621 16     | Double row.....   |  |   | 23,036  | 15,138                            |
| 35621 18     | Angular contact.....  |  |   | 19,572  | 16,841                            |
| 35621 19     | All other ground or precision bearings.....   |  |   | 52,651  | 22,532                            |
| 35621 25     | Annular, unground (including self-aligning).....  |  |   | 8,532   | 8,757                             |
| 35621 33     | Thrust, ground.....   |  |   | 13,855  | 13,305                            |
| 35621 35     | Thrust, unground.....   |  |   | 2,063   |                                   |
| 35621 51     | Other ball bearings.....  |  |   | 17,978  | 14,136                            |
| 35621 00     | Not specified by kind.....  |  |   | 3,124   | -                                 |
| 35622 --     | Roller bearings, complete.....  |  |   | <sup>10</sup> 444,829   | <sup>10</sup> 269,316             |
| 35622 11     | Cylindrical (except thrust).....  |  |   | 64,740  | 52,999                            |
|              | Spherical (including hourglass and barrel but excluding thrust):  |  |   |   |                                   |
| 35622 23     | Single row.....   |  |   | 7,836   | 25,515                            |
| 35622 27     | Double row.....   |  |   | 33,949  |                                   |
| 35622 31     | Taper (except thrust).....  |  |   | 292,563   | 161,144                           |
| 35622 41     | Needle.....   |  |   | 24,346  | 19,109                            |
| 35622 51     | Thrust (all types).....   |  |   | 12,679  | 7,780                             |
| 35622 98     | Other roller bearings.....  |  |   | 6,196   | 2,769                             |
| 35622 00     | Not specified by kind.....  |  |   | 2,520   | -                                 |
| 35623 --     | Mounted bearings, total.....  |  |   | <sup>10</sup> 62,128  | <sup>10</sup> 34,984              |
| 35623 11     | Ball.....   |  |   | <sup>11</sup> 39,346  | <sup>11</sup> 20,654              |
| 35623 51     | Roller.....   |  |   | <sup>12</sup> 22,782  | <sup>12</sup> 14,330              |
| 35624 --     | Parts and components for ball and roller bearings, including balls and rollers, sold separately, total.....   |  |   | <sup>10</sup> 62,540  | <sup>10</sup> 41,069              |
| 35624 11     | Balls.....  |  |   | 27,084  | 18,493                            |
| 35624 31     | Rollers.....  |  |   | 8,347   | 8,253                             |
| 35624 51     | Other antifriction bearing components and parts, including unassembled bearings, cages, housing closures, collars, races, etc.....  |  |   | 26,360  | 14,323                            |
| 35624 00     | Not specified by kind.....  |  |   | 749   | -                                 |
| 35620 00     | Ball and roller bearings, n.s.k.....  |  |   | 3,338   | 2,335                             |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Value of total shipments including interplant transfers (\$1,000) |                                       |
|--------------|---|---|---------------------------------------|
|              |   | 1963  | 1958                                  |
| 3564- --     | BLOWERS AND FANS, TOTAL.....  | 299,385   | 252,899                               |
| 35641 --     | Industrial fans and blowers, including blowers, industrial, exhaust, attic, and ventilating fans, and parts:  |   |                                       |
| 35641 11     | As reported in the census of manufactures <sup>2</sup> .....  | 191,235   | 170,636                               |
|              | As reported on Census Quarterly Form M35H, total <sup>2</sup> .....   | 192,674   | 160,686                               |
|              | Fans and blowers group.....   | 164,173   | 141,009                               |
|              | Axial fans (vaneaxial and tubeaxial), total.....  | 19,450  | 11,150                                |
| 35641 13     | Directly connected to driver.....   | 15,852  | 7,930                                 |
| 35641 15     | Belt driven.....  | 3,598   | 3,220                                 |
|              | Centrifugal fans and blowers, total.....  | 97,789  | 85,690                                |
| 35641 17     | Blower filter units.....  | 3,291   | 2,538                                 |
| 35641 19     | Classes I and II fans.....  | 17,528  | 17,864                                |
| 35641 21     | Classes III and IV fans.....  | 9,294   | 13,772                                |
| 35641 23     | Furnaces and light weight air-conditioning blowers.....   | 9,412   | 13,075                                |
| 35641 25     | Industrial fans, excluding positive displacement blowers and turbo-blowers.....   | 26,087  | 10,132                                |
| 35641 27     | Positive displacement blowers (excluding turbo-blowers).....  | 10,370  | 15,783                                |
| 35641 29     | Turbo-blowers (single stage, single and double-inlet).....  | 11,033  |                                       |
| 35641 31     | Small housed blowers (utility sets).....  | 10,774  | 12,526                                |
|              | Industrial propeller fans.....  | 21,793  | 21,639                                |
| 35641 33     | Directly connected to driver, excluding window-type household exhaust fans, built-in household and kitchen ventilating and exhaust fans, and all free-air circulating fans..... | 8,611   | 11,357                                |
| 35641 35     | Belt driven.....  | 9,261   | 6,785                                 |
| 35641 37     | Penthouses, shutter, guards, and other accessories for industrial propeller fans.....   | 3,921   | 3,497                                 |
| 35641 39     | Parts for industrial fans and blowers.....  | 25,141  | 22,530                                |
|              | Power roof ventilators group.....   | 28,501  | 19,677                                |
| 35641 41     | Axial and propeller type.....   | 14,344  | 7,408                                 |
| 35641 43     | Centrifugal type.....   | 13,754  | 12,175                                |
| 35641 45     | Parts for power roof ventilators.....   | 403   | 94                                    |
| 35642 --     | Dust collection, and air purification equipment and air washers, total.....   | 94,952  | 70,064                                |
|              | Air washers:  |   |                                       |
| 35642 31     | As reported in census of manufactures <sup>2</sup> .....  | 3,881   | 3,250                                 |
|              | As reported on Census Quarterly Form M35H <sup>2</sup> .....  | 3,605   | 2,368                                 |
|              | Dust collection and other air purification equipment:   |   |                                       |
| 35642 53     | Electrostatic precipitation equipment.....  | 21,755  | 66,814                                |
| 35642 55     | Other dust collection and other air purification equipment.....   | 66,540  |                                       |
| 35642 00     | Dust collection and air purification equipment and air washers, n.s.k.....  | 2,776   | -                                     |
| 35640 00     | Blowers and fans, n.s.k.....  | 13,198  | 12,199                                |
| 3565- --     | INDUSTRIAL PATTERNS, TOTAL <sup>13</sup> .....  | 159,896   | 121,279                               |
| 35650 11     | Foundry patterns (wood, metal, etc.).....   | 105,572   | 94,225                                |
| 35650 98     | All other industrial patterns (wood, metal, etc.) (except shoe patterns).....   | 28,108  | 8,798                                 |
| 35650 00     | Industrial patterns, n.s.k.....   | 26,216  | 18,256                                |
|              |   | Total shipments including interplant transfers                    |                                       |
|              |   | 1963  |                                       |
|              |   | Quantity<br>(number of units)                                     | 1958 value <sup>14</sup><br>(\$1,000) |
|              |   | Value<br>(\$1,000)  | (\$1,000)                             |
| 3566- --     | MECHANICAL POWER TRANSMISSION EQUIPMENT, EXCEPT BALL AND ROLLER BEARINGS, TOTAL.....  | (X) 883,382   | 622,741                               |
| 35661 --     | Plain bearings.....   | (X) 87,949  | 67,047                                |
| 35661 15     | Plain bearings and bushings, unmounted, machined, excluding carbon and graphite, all types, except automotive.....  | (X) 77,360  | 59,646                                |
| 35661 51     | Mounted bearings, plain.....  | (X) 10,169  | 4,521                                 |
| 35661 00     | Plain bearings, n.s.k.....  | (X) 420   | 2,880                                 |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Total shipments including interplant transfers |                       |                                       |                       |
|--------------|---|--|-----------------------|---------------------------------------|-----------------------|
|              |   | 1963   |                       | 1958 value <sup>14</sup><br>(\$1,000) |                       |
|              |   | Quantity<br>(number of units)                  | Value<br>(\$1,000)    |                                       |                       |
| 3566- --     | MECHANICAL POWER TRANSMISSION EQUIPMENT, EXCEPT BALL AND ROLLER BEARINGS--Continued   |  |                       |                                       |                       |
| 35662 --     | Speed changers, industrial high speed drives, and gears.....  | (X)  | 333,331               | 234,151                               |                       |
|              | Gears, assembled and unassembled, speed reducers and increasers, mechanical power transmissions, except marine, automobile, truck, bus and aircraft (excludes aircraft, related engine and power take-off gears): |  |                       |                                       |                       |
| 35662 11     | Variable speed changers.....  | 79,462   | 17,138                | 17,901                                |                       |
| 35662 21     | Industrial high speed drives, fixed rates (pitch line velocity 4,000 feet per minute).....  | (NA)   | 12,344                | 18,871                                |                       |
|              | Speed reducers, fixed rates, enclosed (except gear motors):   |  |                       |                                       |                       |
|              | Worm gear speed reducers (except gear motors and shaft mounted speed reducers):   |  |                       |                                       |                       |
| 35662 23     | Above 3 inch center distance.....   | (NA)   | 17,922                | 24,716                                |                       |
| 35662 24     | 3 inch center distance and below.....   | 161,813  | 12,045                |                                       |                       |
| 35662 26     | Shaft mounted speed reducers (excludes shaft mounted gear motors but includes shaft mounted worm gear reducers).....  | 87,228   | 15,475                | 27,280                                |                       |
|              | Parallel, concentric shaft and level gear speed reducers:   |  |                       |                                       |                       |
| 35662 27     | Above 15 inch low speed centers.....  | 8,200  | 16,912                |                                       |                       |
| 35662 28     | 15 inch low speed centers and below.....  | (NA)   | 17,228                |                                       |                       |
|              | Gear motor reducer elements, including shaft mounted gear motors:   |  |                       |                                       |                       |
| 35662 34     | Under 1/8 horsepower.....   | (NA)   | <sup>15</sup> 15,732  | <sup>15</sup> 8,237                   |                       |
| 35662 36     | 1/8 horsepower to but not including 3/4 horsepower.....   | 236,848  | <sup>15</sup> 14,955  | <sup>15</sup> 14,105                  |                       |
| 35662 37     | 3/4 horsepower to and including 5 horsepower.....   | 129,109  | <sup>15</sup> 18,750  | <sup>15</sup> 18,831                  |                       |
| 35662 39     | Over 5 horsepower.....  | 77,383   | <sup>15</sup> 16,747  | <sup>15</sup> 8,946                   |                       |
|              | Gears, pinions and racks, unmounted:  |  |                       |                                       |                       |
| 35662 41     | Fine pitch (20.00 diametral pitch and higher).....  | (X)  | 34,030                | 27,166                                |                       |
| 35662 49     | Other than fine pitch (19.99 diametral pitch and less) excluding aircraft and related engine and power take-off gears but including railway type pinions, and racks.....  | (X)  | 113,004               | 47,191                                |                       |
| 35662 00     | Speed changers, gears and industrial high speed drives, n.s.k.....  | (X)  | 11,049                | 20,907                                |                       |
| 35663 --     | Other mechanical power-transmission equipment.....  | (X)  | 449,460               | 310,418                               |                       |
| 35663 11     | Friction type clutches.....   | (NA)   | 25,473                | 26,281                                |                       |
| 35663 13     | Hydraulic type clutches including hydraulic couplings.....  | (NA)   | 9,697                 | 14,489                                |                       |
|              | Flexible couplings (1 inch nominal bore and over) (except hydraulic):   |  |                       |                                       |                       |
| 35663 21     | Gear type.....  | 68,883   | 10,285                | 22,553                                |                       |
| 35663 22     | Other than gear type.....   | 542,544  | 14,581                |                                       |                       |
| 35663 24     | Flexible couplings (less than 1 inch nominal bore) (except hydraulic)...  | 498,635  | 2,176                 | 26,590                                |                       |
| 35663 25     | Universal joints.....   | 3,204,420                                      | 29,242                |                                       |                       |
| 35663 31     | Chains for sprocket drives.....   | (X)  | 98,922                | 81,622                                |                       |
| 35663 41     | Sprockets.....  | (X)  | 29,019                | 22,308                                |                       |
| 35663 51     | Pulleys.....  | (NA)   | 17,563                | 7,787                                 |                       |
|              | Sheaves:  |  |                       |                                       |                       |
| 35663 61     | Single drive.....   | (NA)   | 5,562                 | 4,289                                 |                       |
| 35663 65     | Multiple drive.....   | (NA)   | 15,252                | 9,456                                 |                       |
| 35663 87     | Railroad car journal bearings.....  | (NA)   | 8,694                 | 10,856                                |                       |
| 35663 91     | Marine gear transmissions (less than 600 horsepower) (includes reversing and speed changing gear drives).....   | (X)  | 11,153                | 77,301                                |                       |
| 35663 98     | Other mechanical power-transmission equipment (except aircraft, automobile, truck, and bus).....  | (X)  | 163,418               |                                       |                       |
| 35663 00     | Other mechanical power-transmission equipment, n.s.k.....   | (X)  | 8,423                 |                                       |                       |
| 35660 00     | Mechanical power-transmission equipment, including bearings, n.s.k.....   | (X)  | 12,642                | 11,125                                |                       |
|              |   | Total shipments including interplant transfers |                       |                                       |                       |
|              |   | 1963   |                       | 1958                                  |                       |
|              |   | Quantity<br>(number of units)                  | Value<br>(\$1,000)    | Quantity<br>(number of units)         | Value<br>(\$1,000)    |
| 3567- --     | INDUSTRIAL PROCESS FURNACES AND OVENS, TOTAL <sup>16</sup> .....  | (X)  | <sup>17</sup> 237,660 | (X)                                   | <sup>17</sup> 184,845 |
| 35671 --     | Electric industrial furnaces and ovens, metal processing, total.....  | (X)  | 44,697                | (X)                                   | 35,665                |
|              | Electric furnaces, excluding induction:   |  |                       |                                       |                       |
| 35671 11     | Metal melting.....  | 202  | 8,051                 | 348                                   | 9,987                 |
| 35671 21     | Metal processing and heat treating (such as annealing, hardening, carburizing, and porcelain enameling furnaces).....   | 3,242  | 25,740                | 2,444                                 | 18,675                |
| 35671 43     | Electric, including infrared industrial ovens.....  | 11,338   | 10,378                | (NA)                                  | 6,019                 |
| 35671 00     | Electric industrial furnaces and ovens, metal processing, n.s.k.....  | (X)  | 528                   | (X)                                   | 984                   |

See footnotes at end of table





TABLE 6A. **Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued**

Footnotes for Table 6A--35E--Continued

<sup>3</sup>The value of drivers was reported only at the product class level. For each product line, value figures exclude, except as noted for codes 3561452-57, the value of drivers (electric motors or prime movers) shipped with that product. Separate data on the value of drivers are not available for product class 35613. See footnote 1 for explanation of reporting such values in 1958.

<sup>4</sup>Does not include hydraulic fluid power pumps for power steering units in passenger automobiles. In 1958 such data are included.

<sup>5</sup>Included with product code 3561596, Other pumps.

<sup>6</sup>Includes the value of drivers.

<sup>7</sup>Includes compressors for air brake systems used in transportation equipment and pneumatic (air) power compressors and motors.

<sup>8</sup>Data reported in the census of manufactures differ from comparable figures reported in Annual Survey MA-35P chiefly due to companies not included in the Annual Survey. In addition, there were minor differences between figures for a few companies reporting in the two surveys.

<sup>9</sup>Represents "Other pumps and compressors" and includes dry vacuum pumps. No separate figures are available for "Other pumps" compared with "Other compressors."

<sup>10</sup>Of these totals, the following figures (in millions of dollars) represent the value of shipments of ball and roller bearings transferred from one plant of a company to another plant of the same company:

| Product code | 1963 | 1958 |
|--------------|------|------|
| 3562-        | 108  | 86   |
| 35621        | 13   | 21   |
| 35622        | } 95 | 65   |
| 35623        |      |      |
| 35624        |      |      |

<sup>11</sup>In 1963 represents 8,043 thousand units; for 1958 represents 4,911 thousand units.

<sup>12</sup>In 1963 represents 934 thousand units; for 1958 represents 771 thousand units.

<sup>13</sup>Excludes captive production of industrial patterns.

<sup>14</sup>No quantity data available for 1958.

<sup>15</sup>Represents the value of gear motor reducer elements only. Does not include the value of electric motors shipped as part of gear motor reducer elements.

<sup>16</sup>Represents shipments of industrial furnaces and ovens produced by manufacturing establishments only. Does not include industrial furnaces and ovens erected at the site by engineering and construction firms which purchase component parts for such furnaces and ovens.

<sup>17</sup>Establishments classified in industry 3567 reported a breakdown of shipments of industrial furnaces and ovens between "Field assembled" and "Factory assembled" installations. For 1963 the total of \$216 million of industrial furnaces and ovens and parts reported by establishments classified in industry 3567, "Field assembled" amounted to \$89 million and "Factory assembled" \$127 million. In 1958 the comparable figures were "Field assembled" \$66 million and "Factory assembled" \$73 million. "Field assembled" represents installations erected at the site by the manufacturer, either using his own labor force or utilizing local labor under the supervision of the manufacturer's factory personnel.



TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year   | Indexes (1954 = 100) |                  |
|--------------|--|----------------------|------------------|
|              |  | Production           | Unit value       |
| 356          | General industrial machinery.....1963..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | .....1958..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 3561         | Pumps and compressors <sup>2</sup> .....1963..                                     | 147                  | 95               |
|              | .....1958..  | 101                  | 113              |
| 35611        | Industrial pumps, except hydraulic fluid power...1963..                            | 142                  | 86               |
|              | .....1958..  | 101                  | 110              |
| 35612        | Hydraulic fluid power pumps and motors.....1963..                                  | 207                  | 91               |
|              | .....1958..  | 112                  | 96               |
| 35613        | Domestic water systems and pumps, including pump<br>jacks and cylinders.....1963.. | 143                  | 89               |
|              | .....1958..  | 98                   | 91               |
| 35614        | Air and gas compressors, except refrigeration<br>compressors.....1963..            | 118                  | 112              |
|              | .....1958..  | 95                   | 125              |
| 3562         | Ball and roller bearings.....1963..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | .....1958..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 3564         | Blowers and fans.....1963..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | .....1958..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 3565         | Industrial patterns.....1963..   | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | .....1958..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 3567         | Industrial process furnaces and ovens <sup>3</sup> .....1963..                     | 126                  | 111              |
|              | .....1958..  | 91                   | 114              |
| 35671        | Electric industrial furnaces and ovens, metal<br>processing.....1963..             | 92                   | 176              |
|              | .....1958..  | 86                   | 114              |
| 35672        | Fuel-fired industrial furnaces and ovens,<br>metal processing.....1963..           | 116                  | 89               |
|              | .....1958..  | 88                   | 114              |
| 3569         | General industrial machinery and equipment, n.e.c...1963..                         | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | .....1958..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |

n.e.c. Not elsewhere classified.

<sup>1</sup>Not shown because comparable quantity data were not obtained for a significant portion of these products.

<sup>2</sup>Adjusted to include pumps and compressors, n.e.c., except refrigerator compressors (product class 35615) and parts and attachments for pumps, air and gas compressors, and pumping equipment (product class 35616).

<sup>3</sup>Adjusted to include product class 35673 (high frequency induction and dielectric heating equipment and parts, attachments and components).

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class  | 1963                   | 1962 <sup>1</sup>      | 1961 <sup>1</sup>      | 1960 <sup>1</sup>      | 1959 <sup>1</sup>      | 1958      | 1954      | 1947    |
|-------|--|------------------------|------------------------|------------------------|------------------------|------------------------|-----------|-----------|---------|
| 3561- | Pumps and compressors.....   | <sup>2</sup> 1,236,503 | <sup>2</sup> 1,161,143 | <sup>2</sup> 1,083,963 | <sup>2</sup> 1,092,572 | <sup>2</sup> 1,068,597 | 1,015,841 | 867,400   | 524,389 |
| 35611 | Industrial pumps, except hydraulic fluid power.....  | <sup>3</sup> 320,795   | <sup>3</sup> 306,431   | <sup>3</sup> 300,315   | <sup>3</sup> 304,740   | 293,292                | 295,373   | } 316,384 | 163,173 |
| 35612 | Hydraulic fluid power pumps and motors.....  | <sup>3</sup> 134,023   | <sup>3</sup> 116,633   | <sup>3</sup> 93,931    | <sup>3</sup> 95,862    | 105,682                | 76,769    |           |         |
| 35613 | Domestic water systems and pumps, including pump jacks and cylinders.....                            | <sup>3</sup> 79,403    | <sup>3</sup> 65,135    | <sup>3</sup> 64,958    | <sup>3</sup> 61,638    | <sup>3</sup> 72,063    | 67,656    | 80,044    | 61,600  |
| 35614 | Air and gas compressors, except refrigeration compressors.....                                       | <sup>3</sup> 285,878   | <sup>3</sup> 289,663   | <sup>3</sup> 276,704   | <sup>3</sup> 290,416   | 264,780                | 260,226   | 220,248   | 130,859 |
| 35615 | Pumps and compressors, n.e.c., except refrigeration compressors.....                                 | 147,958                | 141,806                | 125,482                | 127,952                | 133,478                | 123,889   | 101,148   | 90,703  |
| 35616 | Parts and attachments for pumps, air and gas compressors, and pumping equipment.....                 | 250,088                | 226,935                | 210,239                | 199,052                | 187,581                | 180,166   | 145,022   | 78,054  |
| 35610 | Pumps and compressors, n.s.k.....  | 18,358                 | (14,540)               | (12,334)               | (12,912)               | (11,721)               | 11,762    | 4,554     | -       |
| 3562- | Ball and roller bearings.....  | <sup>2</sup> 961,032   | <sup>2</sup> 937,862   | <sup>2</sup> 799,732   | <sup>2</sup> 836,201   | <sup>2</sup> 904,588   | 636,777   | 533,796   | 352,501 |
| 35621 | Ball bearings, complete.....   | 388,197                | 388,161                | 343,622                | 358,089                | 395,520                | 289,073   | 213,694   | 148,460 |
| 35622 | Roller bearings, complete.....   | 444,829                | 420,986                | 344,143                | 369,854                | 394,257                | 269,316   | 248,430   | 147,569 |
| 35623 | Mounted bearings.....  | 62,128                 | 68,618                 | 60,842                 | 59,421                 | 60,120                 | 34,984    | 25,910    | 18,097  |
| 35624 | Parts and components for ball and roller bearings, including balls and rollers, sold separately..... | 62,540                 | 58,028                 | 49,056                 | 46,774                 | 52,628                 | 41,069    | 45,146    | 37,226  |
| 35620 | Ball and roller bearings, n.s.k.....   | 3,338                  | (2,069)                | (2,069)                | (2,063)                | (2,063)                | 2,335     | 616       | 1,149   |
| 3564- | Blowers and fans.....  | <sup>2</sup> 300,824   | <sup>2</sup> 289,133   | <sup>2</sup> 273,899   | <sup>2</sup> 275,059   | <sup>2</sup> 246,791   | 252,899   | 274,045   | 129,913 |
| 35641 | Industrial fans and blowers.....   | <sup>3</sup> 192,674   | <sup>3</sup> 192,344   | <sup>3</sup> 183,129   | <sup>3</sup> 186,299   | <sup>3</sup> 162,412   | 170,636   | } 274,045 | 129,913 |
| 35642 | Dust collection, air purification equipment and air washers.....                                     | 94,952                 | 83,393                 | 78,199                 | 76,201                 | 73,345                 | 70,064    |           |         |
| 35640 | Blowers and fans, n.s.k.....   | 13,198                 | (13,396)               | 12,571                 | (12,559)               | (11,034)               | 12,199    |           |         |
| 35650 | Industrial patterns, except shoe (of wood, metal, etc.).....   | 159,896                | 147,536                | 122,552                | 139,564                | 126,836                | 121,279   | 127,572   | 53,765  |
| 3566- | Power transmission equipment.....  | 883,382                | 803,854                | 718,115                | 711,034                | 738,979                | 622,741   | 595,019   | 426,713 |
| 35661 | Plain bearings.....  | 87,949                 | 72,634                 | 65,869                 | 72,713                 | 81,472                 | 67,047    | 141,834   | 120,354 |
| 35662 | Speed changers, industrial high speed drives, and gears.....   | 333,331                | 295,522                | 276,197                | 276,305                | 273,379                | 234,151   | 218,193   | 124,614 |
| 35663 | Other mechanical power transmission equipment.....   | 449,460                | 420,398                | 357,122                | 347,727                | 371,088                | 310,418   | 234,992   | 181,745 |
| 35660 | Power transmission equipment, n.s.k.....   | 12,642                 | (15,300)               | (18,927)               | (14,289)               | (13,040)               | 11,125    | -         | -       |
| 3567- | Industrial furnaces and ovens.....   | 237,660                | 193,251                | 185,061                | 214,551                | 197,436                | 184,845   | 154,284   | 84,612  |
| 35671 | Electric industrial furnaces and ovens, metal processing.....  | 44,697                 | 47,065                 | 45,292                 | 46,368                 | 39,948                 | 35,665    | 37,915    | 16,303  |
| 35672 | Fuel-fired industrial furnaces and ovens, metal processing.....                                      | 76,552                 | 59,987                 | 50,977                 | 76,737                 | 65,576                 | 75,456    | 81,919    | 34,362  |
| 35673 | High frequency induction and dielectric heating equipment and parts, attachments and components..... | 109,875                | 78,225                 | 79,012                 | 84,483                 | 85,557                 | 67,652    | 32,553    | 23,215  |
| 35670 | Industrial furnaces and ovens, n.s.k.....  | 6,536                  | (7,974)                | (9,780)                | (6,963)                | (6,355)                | 6,072     | 1,897     | 10,732  |
| 35690 | General industrial machinery, n.e.c.....   | 664,276                | 607,935                | 558,282                | 554,451                | 519,904                | 467,391   | 429,066   | 321,709 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>These totals represent the sum of 5-digit product class data obtained from the Current Industrial Reports Series and the census of manufactures or the annual survey of manufactures.

<sup>3</sup>Sources for the data in these product classes are listed below:

| Product class       | Current Industrial Reports Series |
|---------------------|-----------------------------------|
| 35611, 35612, 35614 | M35P Pumps and compressors        |
| 35613               | M35G Farm pumps                   |
| 35641               | M35H Fan blowers and unit heaters |



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area   | Value of shipments |  | Product class and geographic area  | Value of shipments |                  | Product class and geographic area   | Value of shipments |                  |
|---|--------------------|--|--|--------------------|------------------|---|--------------------|------------------|
|   | 1963 <sup>1</sup>  |  |  | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |
| <b>INDUSTRIAL PUMPS, EXCEPT HYDRAULIC FLUID POWER (35611)</b>                       |                    |  | <b>AIR AND GAS COMPRESSORS, EXCEPT REFRIGERATION COMPRESSORS (35614)—Con.</b>                  |                    |                  | <b>BALL BEARINGS, COMPLETE (35621)</b>  |                    |                  |
| United States, total....  | 321,896            |  | East North Central.....  | 91,971             |                  | United States, total....  | 388,197            | 289,073          |
| New England.....  | 19,680             |  | Ohio.....  | 36,846             |                  | New England.....  | 189,746            | 141,336          |
| Massachusetts.....  | 12,978             |  | Illinois.....  | 31,490             |                  | Middle Atlantic.....  | 100,622            | 78,770           |
| Middle Atlantic.....  | 94,279             |  | Wisconsin.....   | 6,343              |                  | East North Central.....   | 91,622             | ( <sup>2</sup> ) |
| New York.....   | 16,382             |  | West North Central.....  | 3,053              |                  | Indiana.....  | 7,026              | ( <sup>2</sup> ) |
| New Jersey.....   | 48,284             |  | South.....   | 16,411             |                  | South and West.....   | 6,207              | 3,497            |
| Pennsylvania.....   | 29,613             |  | West.....  | 1,377              |                  |   |                    |                  |
| East North Central.....   | 95,897             |  | <b>PUMPS AND COMPRESSORS, N.E.C., EXCEPT REFRIGERATION COMPRESSORS (35615)</b>                 |                    |                  | <b>ROLLER BEARINGS, COMPLETE (35622)</b>  |                    |                  |
| Ohio.....   | 27,242             |  | United States, total....   | 147,958            | 125,476          | United States, total....  | 444,829            | 269,316          |
| Indiana.....  | 11,231             |  | New England.....   | 4,666              | 3,731            | Northeast.....  | 139,903            | 91,543           |
| Illinois.....   | 37,271             |  | Middle Atlantic.....   | 9,983              | 13,214           | Pennsylvania.....   | 35,401             | 28,553           |
| Michigan.....   | 11,148             |  | New Jersey.....  | 3,814              | 2,684            | North Central.....  | 291,200            | 177,773          |
| Wisconsin.....  | 9,005              |  | Pennsylvania.....  | 5,252              | 8,090            | Illinois.....   | 10,604             | 6,858            |
| West North Central.....   | 21,376             |  | East North Central.....  | 71,297             | 56,553           | South and West.....   | 13,707             | (Z)              |
| Minnesota.....  | 3,876              |  | Ohio.....  | 21,790             | 17,935           |   |                    |                  |
| Iowa.....   | 7,847              |  | Indiana.....   | 1,604              | 1,512            | <b>MOUNTED BEARINGS (35623)</b>   |                    |                  |
| Missouri.....   | 1,457              |  | Illinois.....  | 37,652             | 26,338           | United States, total....  |                    | 62,128           |
| South.....  | 22,986             |  | Michigan.....  | 4,447              | 4,835            | Northeast.....  |                    | 18,392           |
| Florida.....  | 1,437              |  | Wisconsin.....   | 5,804              | 5,933            | North Central.....  |                    | 41,251           |
| Arkansas.....   | 1,165              |  | West North Central.....  | 5,935              | 2,040            | Indiana.....  |                    | 22,839           |
| Oklahoma.....   | 4,561              |  | Minnesota.....   | 4,549              | (Z)              | South and West.....   |                    | 2,485            |
| Texas.....  | 6,414              |  | Kansas.....  | 1,066              | ( <sup>2</sup> ) | PARTS AND COMPONENTS FOR BALL AND ROLLER BEARINGS, INCLUDING BALLS AND ROLLERS, SOLD SEPARATELY (35624) |                    |                  |
| Mountain.....   | 9,201              |  | South Atlantic.....  | 2,321              | 1,758            | United States, total....  |                    | 62,540           |
| Pacific.....  | 58,477             |  | Florida.....   | 1,062              | (Z)              | New England.....  |                    | 20,525           |
| <b>HYDRAULIC FLUID POWER PUMPS AND MOTORS (35612)</b>                               |                    |  | East South Central.....  | 1,084              | (Z)              | Middle Atlantic.....  |                    | 18,956           |
| United States, total....  | 134,885            |  | West South Central.....  | 33,631             | ( <sup>2</sup> ) | New Jersey.....   |                    | 4,965            |
| New England.....  | 15,328             |  | Texas.....   | 22,699             | 15,618           | East North Central.....   |                    | 16,252           |
| Middle Atlantic.....  | 7,768              |  | Mountain.....  | 1,007              | (Z)              | Illinois.....   |                    | 2,557            |
| New York.....   | 4,179              |  | Pacific.....   | 18,034             | 25,688           | Indiana.....  |                    | 3,633            |
| New Jersey.....   | 1,746              |  | California.....  | 18,034             | ( <sup>2</sup> ) | South and West.....   |                    | 6,807            |
| Pennsylvania.....   | 1,843              |  | <b>PARTS AND ATTACHMENTS FOR PUMPS, AIR AND GAS COMPRESSORS, AND PUMPING EQUIPMENT (35616)</b> |                    |                  | <b>INDUSTRIAL FANS AND BLOWERS (35641)</b>  |                    |                  |
| East North Central.....   | 56,435             |  | United States, total....   | 250,088            | 180,166          | United States, total....  | 191,235            | 170,636          |
| Ohio.....   | 19,780             |  | New England.....   | 16,810             | 8,774            | New England.....  | 24,816             | 21,507           |
| Michigan.....   | 9,704              |  | Massachusetts.....   | 8,932              | 4,270            | Middle Atlantic.....  | 43,262             | 36,299           |
| Wisconsin.....  | 18,738             |  | Middle Atlantic.....   | 78,908             | 56,000           | New York.....   | 24,160             | 21,074           |
| West North Central.....   | 27,887             |  | New York.....  | 37,071             | 22,739           | New Jersey.....   | 4,761              | 4,612            |
| South.....  | 8,785              |  | New Jersey.....  | 19,214             | 18,981           | Pennsylvania.....   | 14,341             | 10,613           |
| West.....   | 18,682             |  | Pennsylvania.....  | 22,623             | 14,280           | East North Central.....   | 97,360             | 84,822           |
| <b>DOMESTIC WATER SYSTEMS AND PUMPS, INCLUDING PUMP JACKS AND CYLINDERS (35613)</b> |                    |  | East North Central.....  | 82,109             | 68,809           | Ohio.....   | 29,905             | 28,055           |
| United States, total....  | 83,733             |  | Ohio.....  | 29,991             | 20,568           | Indiana.....  | 17,845             | 14,553           |
| East North Central.....   | 41,482             |  | Indiana.....   | 11,783             | 6,706            | Illinois.....   | 21,890             | 19,217           |
| Ohio.....   | 20,022             |  | Illinois.....  | 22,149             | 17,675           | Michigan.....   | 16,599             | 15,713           |
| Indiana.....  | 5,793              |  | Michigan.....  | 10,703             | 17,542           | Wisconsin.....  | 11,121             | 7,284            |
| West North Central.....   | 14,737             |  | Wisconsin.....   | 7,483              | 6,318            | West North Central.....   | 2,531              | 4,333            |
| South Atlantic.....   | 1,196              |  | West North Central.....  | 18,467             | 15,458           | Minnesota.....  | 1,613              | 1,375            |
| West South Central.....   | 10,019             |  | Missouri.....  | 3,906              | 9,031            | South Atlantic.....   | 2,173              | 3,047            |
| Arkansas.....   | 5,966              |  | South Atlantic.....  | 1,962              | (Z)              | East South Central.....   | 3,273              | ( <sup>2</sup> ) |
| Pacific.....  | 6,324              |  | East South Central.....  | 1,966              | 1,233            | West South Central.....   | 4,513              | ( <sup>2</sup> ) |
| All other divisions.....  | 9,975              |  | West South Central.....  | 18,464             | 7,495            | Texas.....  | 1,961              | 1,697            |
| <b>AIR AND GAS COMPRESSORS, EXCEPT REFRIGERATION COMPRESSORS (35614)</b>            |                    |  | Arkansas.....  | 1,173              | ( <sup>2</sup> ) | West.....   | 13,307             | 13,883           |
| United States, total....  | 292,301            |  | Oklahoma.....  | 6,416              | ( <sup>2</sup> ) | California.....   | 12,153             | 12,849           |
| New England.....  | 12,746             |  | Texas.....   | 10,875             | 4,775            |   |                    |                  |
| Middle Atlantic.....  | 166,743            |  | West.....  | 31,402             | ( <sup>2</sup> ) |   |                    |                  |
| New York.....   | 103,639            |  |  |                    |                  |   |                    |                  |
| New Jersey.....   | 17,173             |  |  |                    |                  |   |                    |                  |
| Pennsylvania.....   | 45,931             |  |  |                    |                  |   |                    |                  |

See footnotes at end of table.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area                                   | Value of shipments |                  | Product class and geographic area                                  | Value of shipments |                  | Product class and geographic area  | Value of shipments |                  |
|---|--------------------|------------------|--|--------------------|------------------|--|--------------------|------------------|
|   | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |
| DUST COLLECTION, AIR PURIFICATION EQUIPMENT AND AIR WASHERS (35642) |                    |                  | OTHER MECHANICAL POWER TRANSMISSION EQUIPMENT (35663)              |                    |                  | HIGH FREQUENCY INDUCTION AND DIELECTRIC HEATING EQUIPMENT AND PARTS, ATTACHMENTS, AND COMPONENTS (35673) |                    |                  |
| United States, total....  | 94,952             | 70,064           | United States, total....   | 449,460            | 310,418          | United States, total....   | 109,875            | 67,652           |
| New England.....  | 4,616              | 3,409            | New England.....   | 38,354             | 30,520           | New England.....   | 13,005             | 5,641            |
| Middle Atlantic.....  | 23,112             | 20,938           | Massachusetts.....   | 26,723             | 20,671           | Massachusetts.....   | 8,756              | 3,764            |
| New York.....   | 4,442              | 5,216            | Middle Atlantic.....   | 49,695             | 39,286           | Middle Atlantic.....   | 42,382             | 21,944           |
| New Jersey.....   | 14,248             | ( <sup>2</sup> ) | New York.....  | 17,967             | 10,474           | New York.....  | 10,393             | 6,926            |
| Pennsylvania.....   | 4,422              | 3,226            | New Jersey.....  | 3,798              | 2,829            | New Jersey.....  | 15,648             | 7,551            |
| East North Central.....   | 20,835             | 16,796           | Pennsylvania.....  | 27,930             | 25,983           | Pennsylvania.....  | 16,341             | 7,467            |
| Ohio.....   | 7,304              | 7,694            | East North Central.....  | 291,312            | 195,939          | East North Central.....  | 39,290             | ( <sup>2</sup> ) |
| Michigan.....   | 7,482              | 3,895            | Ohio.....  | 31,203             | 15,551           | Ohio.....  | 17,217             | 7,911            |
| Wisconsin.....  | 1,749              | 1,399            | Indiana.....   | 98,593             | 79,672           | Illinois.....  | 6,584              | 9,735            |
| West North Central.....   | 4,478              | 3,208            | Illinois.....  | 58,219             | 40,158           | Illinois.....  | 5,252              | 3,319            |
| South.....  | 33,549             | 21,925           | Michigan.....  | 32,202             | 31,574           | Michigan.....  | 3,237              | ( <sup>2</sup> ) |
| West.....   | 8,362              | 3,788            | Wisconsin.....   | 71,095             | 28,984           | West North Central.....  | 7,353              | 3,586            |
| PLAIN BEARINGS (35661)  |                    |                  | West North Central.....  | 19,378             | 9,481            | South.....   | 2,085              | ( <sup>2</sup> ) |
| United States, total....  | 87,949             | 67,047           | Minnesota.....   | 5,406              | 4,204            | Alabama.....   | 4,608              | 3,301            |
| Northeast.....  | 16,589             | 6,783            | Missouri.....  | 5,938              | 4,036            | California.....  | 3,539              | 2,459            |
| Massachusetts.....  | 1,134              | ( <sup>2</sup> ) | South.....   | 40,812             | 25,273           | GENERAL INDUSTRIAL MACHINERY, N.E.C. (35690)   |                    |                  |
| Pennsylvania.....   | 9,285              | ( <sup>2</sup> ) | Virginia.....  | 9,445              | ( <sup>2</sup> ) | United States, total....   |                    | 664,276          |
| North Central.....  | 57,215             | ( <sup>2</sup> ) | Texas.....   | 7,234              | 4,492            | New England.....   |                    | 96,219           |
| Ohio.....   | 35,218             | 26,049           | West.....  | 9,909              | 9,919            | Massachusetts.....   |                    | 19,206           |
| Indiana.....  | 10,691             | 10,310           | California.....  | 6,350              | 8,047            | Connecticut.....   |                    | 65,811           |
| Illinois.....   | 3,792              | ( <sup>2</sup> ) | ELECTRIC INDUSTRIAL FURNACES AND OVENS, METAL PROCESSING (35671)   |                    |                  | Middle Atlantic.....   |                    | 185,807          |
| Michigan.....   | 6,094              | 4,349            | United States, total....   |                    | 44,697           | New York.....  |                    | 79,260           |
| South.....  | 1,801              | 1,574            | New England.....   |                    | 5,859            | New Jersey.....  |                    | 34,821           |
| West.....   | 12,344             | ( <sup>2</sup> ) | Massachusetts.....   |                    | 2,628            | Pennsylvania.....  |                    | 71,726           |
| SPEED CHANGERS, INDUSTRIAL HIGH SPEED DRIVES, AND GEARS (35662)     |                    |                  | Middle Atlantic.....   |                    | 9,876            | East North Central.....  |                    | 204,447          |
| United States, total....  | 333,331            | 234,151          | Pennsylvania.....  |                    | 8,930            | Ohio.....  |                    | 54,148           |
| New England.....  | 42,676             | 23,573           | North Central.....   |                    | 27,629           | Indiana.....   |                    | 14,924           |
| Massachusetts.....  | 30,081             | 19,249           | Ohio.....  |                    | 4,095            | Illinois.....  |                    | 60,230           |
| Middle Atlantic.....  | 72,403             | 62,503           | Illinois.....  |                    | 11,786           | Michigan.....  |                    | 37,742           |
| New York.....   | 19,152             | 14,919           | West.....  |                    | 1,333            | Wisconsin.....   |                    | 37,403           |
| New Jersey.....   | 20,169             | 14,929           | FUEL-FIRED INDUSTRIAL FURNACES AND OVENS, METAL PROCESSING (35672) |                    |                  | West North Central.....  |                    | 34,521           |
| Pennsylvania.....   | 33,082             | 32,655           | United States, total....   |                    | 76,552           | Minnesota.....   |                    | 15,186           |
| East North Central.....   | 175,330            | 119,823          | New England.....   |                    | 1,510            | Iowa.....  |                    | 10,117           |
| Ohio.....   | 32,038             | 40,664           | Middle Atlantic.....   |                    | 15,134           | Missouri.....  |                    | 1,860            |
| Indiana.....  | 46,775             | 14,057           | Pennsylvania.....  |                    | 10,807           | Kansas.....  |                    | 3,862            |
| Illinois.....   | 50,219             | 37,295           | East North Central.....  |                    | 53,123           | South Atlantic.....  |                    | 18,932           |
| West North Central.....   | 10,057             | 6,916            | Ohio.....  |                    | 29,947           | Maryland.....  |                    | 5,639            |
| Minnesota.....  | 5,273              | ( <sup>2</sup> ) | Illinois.....  |                    | 6,580            | North Carolina.....  |                    | 3,068            |
| South Atlantic.....   | 2,318              | ( <sup>2</sup> ) | Michigan.....  |                    | 10,952           | Georgia.....   |                    | 4,835            |
| North Carolina.....   | 1,845              | 5,203            | West North Central.....  |                    | 1,477            | Florida.....   |                    | 3,271            |
| West South Central.....   | 5,920              | ( <sup>2</sup> ) | South.....   |                    | 1,687            | East South Central.....  |                    | 17,788           |
| West.....   | 24,627             | 14,155           | West.....  |                    | 3,621            | Alabama.....   |                    | 2,152            |
| California.....   | 19,743             | 10,315           |  |                    |                  | West South Central.....  |                    | 17,085           |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported. n.e.c. Not elsewhere classified.

<sup>1</sup>For the specified product classes shipments of \$1 million or more in 1963 were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 35611, Rhode Island, Connecticut, Kansas, South Carolina, Georgia, Tennessee, Colorado, Utah, Oregon, and California; 35612, Massachusetts, Connecticut, Illinois, Minnesota, Missouri, Nebraska, Kansas, Mississippi, Oklahoma, and California; 35613, New York, Pennsylvania, Illinois, Wisconsin, Iowa, Missouri, Nebraska, Kansas, Oklahoma, Texas, and California; 35614, Massachusetts, Connecticut, Indiana, Michigan, Missouri, Louisiana, Oklahoma, Texas, and California; 35615, Rhode Island and Oklahoma; 35616, Rhode Island, Connecticut, Minnesota, Iowa, Nebraska, Kansas, Georgia, Alabama, and California; 35621, New Hampshire, Connecticut, New York, Pennsylvania, Ohio, Illinois, Michigan, South Carolina, Oklahoma, and California; 35622, Connecticut, New York, New Jersey, Ohio, Indiana, Michigan, Virginia, North Carolina, South Carolina, and California; 35623, Connecticut, New York, Illinois, Kentucky, and California; 35624, Connecticut, New York, Pennsylvania, Ohio, Michigan, Virginia, South Carolina, and Tennessee; 35641, Massachusetts, Connecticut, Florida, Tennessee, Alabama, and Oklahoma; 35642, Massachusetts, Connecticut, Indiana, Illinois, Minnesota, Maryland, North Carolina, Kentucky, and California; 35661, Connecticut, New Jersey, Tennessee, and California; 35662, Connecticut, Michigan, Wisconsin, Missouri, Texas, Colorado, and Washington; 35663, Connecticut, Iowa, Kansas, Maryland, South Carolina, Kentucky, Oklahoma, and Colorado; 35671, New Hampshire, Rhode Island, Indiana, Michigan, Wisconsin, Minnesota, and California; 35672, New Jersey, Indiana, Wisconsin, Minnesota, and California; 35673, Connecticut, Indiana, Wisconsin, Missouri, Maryland, and Washington; 35690, New Hampshire, Rhode Island, South Dakota, Nebraska, Kentucky, Tennessee, Colorado, and Utah.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code                                    | Material   | Unit of measure                | 1963      |                             | 1958      |                             |
|---|--|--------------------------------|-----------|-----------------------------|-----------|-----------------------------|
|   |  |                                | Quantity  | Delivered cost<br>(\$1,000) | Quantity  | Delivered cost<br>(\$1,000) |
| INDUSTRY 3561.—PUMPS AND COMPRESSORS    |  |                                |           |                             |           |                             |
|   | Materials, parts, containers, and supplies, total.....   |                                | (X)       | 570,414                     | (X)       | 467,082                     |
|   | Mill shapes and forms (except castings):   |                                |           |                             |           |                             |
|   | Carbon steel:  |                                |           |                             |           |                             |
| 331011                                  | Bars and bar shapes.....   | Short tons.....                | 38,893    | 8,716                       | 23,187    | 5,301                       |
| 331012                                  | Sheet and strip.....   | ..do.....                      | 33,058    | 5,651                       | 22,824    | 4,047                       |
| 331013                                  | Plates.....  | ..do.....                      | 34,246    | 5,552                       | 21,115    | 3,514                       |
| 331015                                  | Structural shapes.....   | ..do.....                      | 12,095    | 2,066                       | 10,338    | 1,905                       |
| 331019                                  | All other carbon steel mill shapes and forms.....  | ..do.....                      | 26,850    | 7,420                       | 40,738    | 9,223                       |
|   | Alloy steel (except stainless):  |                                |           |                             |           |                             |
| 331021                                  | Bars and bar shapes.....   | ..do.....                      | 12,854    | 4,014                       | 6,643     | 2,424                       |
| 331029                                  | All other alloy steel.....   | ..do.....                      | 3,372     | 1,618                       | 7,597     | 3,566                       |
| 331031                                  | Stainless steel.....   | ..do.....                      | 5,774     | 7,306                       | 4,589     | 5,955                       |
|   | Copper and copper-base alloy:  |                                |           |                             |           |                             |
| 335728                                  | Bare wire (for electrical conduction).....   | 1,000 lbs.....                 | 655       | 367                         | 595       | 582                         |
| 335790                                  | Insulated wire and cable.....  | 1,000 lbs.<br>(copper content) | 2,233     | 1,715                       | 1,801     | 1,044                       |
| 335102                                  | Rod, bar, and mechanical wire, including extruded and/or<br>drawn shapes.....                            | 1,000 lbs.....                 | 4,355     | 2,530                       | 8,126     | 4,881                       |
| 335123                                  | Plate, sheet, and strip, including military cups and discs.....  | ..do.....                      | 655       | 362                         |           |                             |
| 335127                                  | Pipe and tube.....   | ..do.....                      | 4,665     | 3,090                       |           |                             |
|   | Aluminum and aluminum-base alloy:  |                                |           |                             |           |                             |
| 335202                                  | Sheet, plate, and foil.....  | ..do.....                      | 463       | 332                         | 271       | 211                         |
| 335205                                  | Extruded shapes (including extruded rod, bar, pipe, tube, etc.).....                                     | ..do.....                      | 1,161     | 606                         |           |                             |
| 335209                                  | All other aluminum mill shapes and forms (wire, rolled rod and<br>bar, powder, welded tubing, etc.)..... | ..do.....                      | 967       | 708                         |           |                             |
|   | Primary metals:  |                                |           |                             |           |                             |
| 331051                                  | Pig iron excluding silvery iron.....   | Short tons.....                | 26,178    | 1,751                       | 36,645    | 2,293                       |
| 333122                                  | Copper and copper-base alloy refinery shapes.....  | ..do.....                      | 5,416     | 3,134                       | 4,009     | 2,018                       |
| 333401                                  | Aluminum and aluminum-base alloy refinery shapes.....  | ..do.....                      | 1,327     | 589                         | (NA)      | (NA)                        |
| 999811                                  | Iron and steel scrap (excluding home scrap).....   | ..do.....                      | 33,212    | 1,309                       | 46,678    | 1,883                       |
|   | Castings (rough and semifinished): <sup>1</sup>  |                                |           |                             |           |                             |
| 332011                                  | Iron (gray and malleable).....   | ..do.....                      | 115,393   | 43,125                      | 128,352   | 46,834                      |
| 332300                                  | Steel.....   | ..do.....                      | 10,962    | 14,513                      | 11,605    | 16,954                      |
| 336100                                  | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....                 | 5,524     | 4,520                       | 2,646     | 2,854                       |
| 336200                                  | Copper and copper-base alloy.....  | ..do.....                      | 17,070    | 13,371                      | 19,550    | 13,183                      |
| 339100                                  | Iron and steel forgings <sup>1</sup> .....   | Short tons.....                | 8,776     | 8,840                       | 8,044     | 5,983                       |
|   | Engines: <sup>1</sup>  |                                |           |                             |           |                             |
| 351920                                  | Diesel and semidiesel.....   | Number.....                    | 2,047     | 6,496                       | 1,440     | 4,663                       |
| 351901                                  | Gasoline and other carburetor.....   | ..do.....                      | 104,597   | 7,875                       | 71,565    | 5,766                       |
|   | Electric motors and generators: <sup>1</sup>   |                                |           |                             |           |                             |
| 362115                                  | Fractional h.p. electric motors (under 1 hp.) (excluding<br>timing motors).....                          | ..do.....                      | 1,421,796 | 24,563                      | 1,446,678 | 23,521                      |
| 362120                                  | Integral horsepower motors and generators (1 hp. and over).....  | ..do.....                      | 231,658   | 26,941                      | 188,420   | 27,509                      |
|   | Bearings:  |                                |           |                             |           |                             |
| 356218                                  | Ball.....  | ..do.....                      | (X)       | 4,218                       | (X)       | 5,097                       |
| 356228                                  | Roller.....  | ..do.....                      | (X)       | 11,918                      | (X)       |                             |
| 970099                                  | All other materials and components, parts, containers, and<br>supplies consumed.....                     | ..do.....                      | (X)       | 303,902                     | (X)       | 245,538                     |
| 976000                                  | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....                                    | ..do.....                      | (X)       | 41,296                      | (X)       | 19,143                      |
| INDUSTRY 3562.—BALL AND ROLLER BEARINGS |  |                                |           |                             |           |                             |
|   | Materials, parts, containers, and supplies, total.....   |                                | (X)       | 343,713                     | (X)       | 208,638                     |
|   | Mill shapes and forms (except castings):   |                                |           |                             |           |                             |
|   | Carbon steel:  |                                |           |                             |           |                             |
| 331011                                  | Bars and bar shapes.....   | Short tons.....                | 13,210    | 4,479                       | 13,678    | 3,239                       |
| 331012                                  | Sheet and strip.....   | ..do.....                      | 68,378    | 13,105                      | 36,307    | 7,189                       |
| 331017                                  | Wire and wire products.....  | ..do.....                      | 22,307    | 8,610                       | 11,028    | 4,788                       |
| 331013                                  | Plates.....  | ..do.....                      | 3,837     | 505                         | 5,702     | 2,110                       |
| 331015                                  | Structural shapes.....   | ..do.....                      | 4,742     | 1,699                       |           |                             |
| 331019                                  | All other carbon steel mill shapes and forms.....  | ..do.....                      |           |                             |           |                             |
|   | Alloy steel (except stainless):  |                                |           |                             |           |                             |
| 331021                                  | Bars and bar shapes.....   | ..do.....                      | 138,307   | 52,274                      | 93,478    | 36,884                      |
| 331029                                  | All other alloy mill shapes and forms.....   | ..do.....                      | 180,190   | 83,958                      | 98,138    | 45,498                      |
| 331031                                  | Stainless steel.....   | ..do.....                      | 1,207     | 1,769                       | 496       | 694                         |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure                | 1963     |                          | 1958     |                          |
|---|---|--------------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                                | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3562.—BALL AND ROLLER BEARINGS—Continued |   |                                |          |                          |          |                          |
|   | Mill shapes and forms (except castings)—Continued                                 |                                |          |                          |          |                          |
|   | Copper and copper-base alloy:   |                                |          |                          |          |                          |
| 335728  | Bare wire (for electrical conduction).....  | 1,000 lbs.....                 | -        | -                        | (D)      | (D)                      |
| 335790  | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content) | (D)      | (D)                      | (D)      | (D)                      |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....        | 1,000 lbs.....                 | 2,221    | 1,198                    | 3,075    | 1,685                    |
| 335123  | Plate, sheet, and strip, including military cups and discs....                    | do.....                        |          |                          |          |                          |
| 335127  | Pipe and tube.....  | do.....                        |          |                          |          |                          |
|   | Aluminum and aluminum-base alloy:   |                                |          |                          |          |                          |
| 335202  | Sheet, plate, and foil.....   | do.....                        | -        | -                        | (NA)     | (NA)                     |
| 335205  | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)                   | do.....                        | 501      | 402                      | (NA)     | (NA)                     |
| 335209  | All other aluminum mill shapes and forms.....                                     | do.....                        | 20       | 16                       | (NA)     | (NA)                     |
| 333122  | Copper and copper-base alloy refinery shapes.....                                 | Short tons.....                | (D)      | (D)                      | (NA)     | (NA)                     |
| 999811  | Iron and steel scrap (excluding home scrap).....                                  | do.....                        | (D)      | (D)                      | (NA)     | (NA)                     |
|   | Castings (rough and semifinished): <sup>1</sup>                                   |                                |          |                          |          |                          |
| 332011  | Iron (gray and malleable).....  | do.....                        | 21,687   | 8,346                    | 6,863    | 2,315                    |
| 332300  | Steel.....  | do.....                        | 2,362    | 1,634                    | 4,022    | 2,666                    |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                 | (D)      | (D)                      | -        | -                        |
| 336200  | Copper and copper-base alloy.....   | do.....                        | 2,855    | 3,074                    | 1,475    | 1,267                    |
| 339100  | Iron and steel forgings <sup>1</sup> .....  | Short tons.....                | 16,620   | 11,490                   | 14,908   | 9,814                    |
|   | Bearings:   |                                |          |                          |          |                          |
| 356218  | Ball.....   | do.....                        | (X)      | 10,780                   | (X)      | 3,297                    |
| 356228  | Roller.....   | do.....                        | (X)      | 3,687                    | (X)      |                          |
| 970099  | All other materials and components, parts, containers, and supplies consumed..... | do.....                        | (X)      | 119,833                  | (X)      | 85,109                   |
| 976000  | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....             | do.....                        | (X)      | 16,719                   | (X)      | 2,083                    |
| INDUSTRY 3564.—BLOWERS AND FANS                   |   |                                |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....                            |                                | (X)      | 114,795                  | (X)      | 99,467                   |
|   | Mill shapes and forms (except castings):  |                                |          |                          |          |                          |
|   | Carbon steel:   |                                |          |                          |          |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....                | 10,114   | 1,925                    | 10,902   | 1,709                    |
| 331012  | Sheet and strip.....  | do.....                        | 72,286   | 11,437                   | 59,167   | 9,249                    |
| 331013  | Plates.....   | do.....                        | 19,479   | 2,853                    | 17,352   | 2,303                    |
| 331015  | Structural shapes.....  | do.....                        | 4,530    | 728                      | 8,776    | 1,269                    |
| 331017  | Wire and wire products.....   | do.....                        | 794      | 359                      | 1,082    | 609                      |
| 331019  | All other carbon steel mill shapes and forms.....                                 | do.....                        | 6,541    | 1,813                    | 4,204    | 777                      |
|   | Alloy steel (except stainless):   |                                |          |                          |          |                          |
| 331021  | Bars and bar shapes.....  | do.....                        | 297      | 174                      | 1,240    | 752                      |
| 331029  | All other alloy steel mill shapes and forms.....                                  | do.....                        | 3,251    | 894                      |          |                          |
| 331031  | Stainless steel.....  | do.....                        | 923      | 1,344                    | 971      | 1,460                    |
|   | Copper and copper-base alloy:   |                                |          |                          |          |                          |
| 335728  | Bare wire (for electrical conduction).....  | 1,000 lbs.....                 | (D)      | (D)                      | (D)      | (D)                      |
| 335790  | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content) | (D)      | (D)                      | 206      | 163                      |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....        | 1,000 lbs.....                 | 84       | 49                       | 1,899    | 1,338                    |
| 335123  | Plate, sheet, and strip.....  | do.....                        | 585      | 355                      |          |                          |
| 335127  | Pipe and tube.....  | do.....                        | 1,088    | 666                      |          |                          |
|   | Aluminum and aluminum-base alloy:   |                                |          |                          |          |                          |
| 335202  | Sheet, plate, and foil.....   | do.....                        | 10,713   | 4,326                    | 5,670    | 2,906                    |
| 335205  | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)                   | do.....                        | 320      | 164                      |          |                          |
| 335209  | All other aluminum mill shapes and forms.....                                     | do.....                        | 312      | 156                      |          |                          |
| 331051  | Pig iron.....   | Short tons.....                | 1,369    | 78                       | 1,285    | 82                       |
| 999811  | Iron and steel scrap (excluding home scrap).....                                  | do.....                        | (D)      | (D)                      | 3,158    | 111                      |
|   | Castings (rough and semifinished): <sup>1</sup>                                   |                                |          |                          |          |                          |
| 332011  | Iron (gray and malleable).....  | do.....                        | 9,637    | 3,971                    | 5,978    | 2,247                    |
| 332300  | Steel.....  | do.....                        | 549      | 447                      | 1,389    | 1,205                    |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                 | 1,518    | 1,144                    | 2,297    | 1,902                    |
| 336200  | Copper and copper-base alloy.....   | do.....                        | 228      | 192                      | 319      | 241                      |
|   | Electric motors and generators: <sup>1</sup>                                      |                                |          |                          |          |                          |
| 362110  | Timing motors, synchronous and subsynchronous.....                                | Number.....                    | 85,262   | 1,132                    | 467,790  | 4,272                    |
| 362115  | Other fractional horsepower electric motors.....                                  | do.....                        | 218,106  | 4,759                    | 235,522  | 2,841                    |
| 362120  | Integral horsepower motors and generators.....                                    | do.....                        | 89,564   | 7,298                    | 43,278   | 4,734                    |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | Unit of measure             | 1963     |                          | 1958     |                          |
|--|---|-----------------------------|----------|--------------------------|----------|--------------------------|
|  |   |                             | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3564.—BLOWERS AND FANS—Continued                          |   |                             |          |                          |          |                          |
| 356218   | Bearings:   |                             | (X)      | 3,162                    | (X)      | 2,223                    |
| 356228   | Ball.....   |                             | (X)      | 622                      | (X)      |                          |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....                     |                             | (X)      | 50,301                   | (X)      | 40,490                   |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....                                 |                             | (X)      | 14,446                   | (X)      | 16,139                   |
| INDUSTRY 3565.—INDUSTRIAL PATTERNS                                 |   |                             |          |                          |          |                          |
| Materials, components, parts, containers, and supplies, total..... |   |                             | (X)      |                          |          | 23,512                   |
| Mill shapes and forms (except castings):                           |   |                             |          |                          |          |                          |
| Carbon steel:  |   |                             |          |                          |          |                          |
| 331011   | Bars and bar shapes.....  | Short tons                  |          | 579                      |          | 155                      |
| 331012   | Sheet and strip.....  | do.                         |          | 116                      |          | 36                       |
| 331013   | Plates.....   | do.                         |          |                          |          |                          |
| 331015   | Structural shapes.....  | do.                         |          |                          |          |                          |
| 331019   | All other carbon mill shapes and forms.....   | do.                         |          |                          |          |                          |
| Alloy steel (except stainless):                                    |   |                             |          |                          |          |                          |
| 331021   | Bars and bar shapes.....  | do.                         |          |                          |          |                          |
| 331029   | All other alloy steel mill shapes and forms.....  | do.                         |          |                          |          |                          |
| 331031   | Stainless steel.....  | do.                         |          |                          |          |                          |
| Copper and copper-base alloy:                                      |   |                             |          |                          |          |                          |
| 335102   | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.                  |          |                          |          |                          |
| 335123   | Plate, sheet, and strip, including military cups and discs.....                                       | do.                         |          |                          | (NA)     | 18                       |
| 335127   | Pipe and tube.....  | do.                         |          |                          |          |                          |
| Aluminum and aluminum-base alloy:                                  |   |                             |          |                          |          |                          |
| 335202   | Sheet, plate, and foil.....   | do.                         |          |                          |          |                          |
| 335205   | Extruded shapes, including extruded rod, bar, pipe, tube, etc.....                                    | do.                         |          |                          |          |                          |
| 335209   | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | do.                         |          |                          | 324      | 161                      |
| Castings (rough and semifinished): <sup>1</sup>                    |   |                             |          |                          |          |                          |
| 332011   | Iron (gray and malleable).....  | Short tons                  |          | 1,892                    |          | 707                      |
| 332300   | Steel.....  | do.                         |          | 186                      |          | 135                      |
| 336100   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.                  |          | 1,850                    |          | 1,539                    |
| 336200   | Copper and copper-base alloy.....   | do.                         |          | 122                      |          | 69                       |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....                     |                             |          |                          | (X)      | 7,731                    |
| 960000   | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....                                 |                             |          |                          | (X)      | <sup>2</sup> 12,420      |
| INDUSTRY 3566.—POWER TRANSMISSION EQUIPMENT                        |   |                             |          |                          |          |                          |
| Materials, components, parts, containers, and supplies, total..    |   |                             | (X)      | 290,185                  | (X)      | 193,457                  |
| Mill shapes and forms (except castings):                           |   |                             |          |                          |          |                          |
| Carbon steel:  |   |                             |          |                          |          |                          |
| 331011   | Bars and bar shapes.....  | Short tons                  | 78,833   | 16,472                   | 53,710   | 12,820                   |
| 331012   | Sheet and strip.....  | do.                         | 85,047   | 18,067                   | 47,961   | 9,799                    |
| 331013   | Plates.....   | do.                         | 29,926   | 4,682                    | 23,487   | 3,517                    |
| 331015   | Structural shapes.....  | do.                         | 3,694    | 818                      | 2,191    | 443                      |
| 331017   | Wire and wire products.....   | do.                         | 3,319    | 1,593                    | 2,729    | 1,164                    |
| 331019   | All other carbon steel mill shapes and forms.....   | do.                         | 7,782    | 2,295                    | 5,676    | 1,785                    |
| Alloy steel (except stainless):                                    |   |                             |          |                          |          |                          |
| 331021   | Bars and bar shapes.....  | do.                         | 35,615   | 9,906                    | 22,173   | 6,367                    |
| 331029   | All other alloy steel mill shapes and forms.....  | do.                         | 16,938   | 8,193                    | 11,412   | 4,364                    |
| 331031   | Stainless steel.....  | do.                         | 1,584    | 1,970                    | 1,099    | 1,515                    |
| Copper and copper-base alloy:                                      |   |                             |          |                          |          |                          |
| 335728   | Bare wire (for electrical conduction).....  | 1,000 lbs.                  | 131      | 104                      | 161      | 112                      |
| 335790   | Insulated wire and cable.....   | 1,000 lbs. (copper content) | 305      | 230                      | 101      | 68                       |
| 335102   | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.                  |          |                          |          |                          |
| 335127   | Pipe and tube.....  | do.                         | 2,017    | 1,584                    |          |                          |
| 335123   | Plate, sheet, and strip, including military cups and discs.....                                       | do.                         | 1,247    | 785                      | 1,141    | 781                      |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | Unit of measure                | 1963     |                             | 1958     |                             |
|--|---|--------------------------------|----------|-----------------------------|----------|-----------------------------|
|  |   |                                | Quantity | Delivered cost<br>(\$1,000) | Quantity | Delivered cost<br>(\$1,000) |
| INDUSTRY 3566.—POWER TRANSMISSION EQUIPMENT—Continued              |   |                                |          |                             |          |                             |
| Mill shapes and forms (except castings)—Continued                  |   |                                |          |                             |          |                             |
| Aluminum and aluminum-base alloy:                                  |   |                                |          |                             |          |                             |
| 335202   | Sheet, plate, and foil.....   | 1,000 lbs.....                 | 300      | 277                         | 104      | 114                         |
| 335205   | Extruded shapes (including extruded rod, bar, pipe, tube, etc.).....                                  | do.....                        | 213      | 212                         | 296      | 229                         |
| 335209   | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | do.....                        | 175      | 203                         |          |                             |
| Primary metals:  |   |                                |          |                             |          |                             |
| 331051   | Pig iron excluding silvery iron.....  | Short tons.....                | 15,282   | 963                         | 13,544   | 972                         |
| 33122  | Copper and copper-base alloy refinery shapes.....   | do.....                        | 9,183    | 6,142                       | 9,795    | 5,806                       |
| Scrap (excluding home scrap):                                      |   |                                |          |                             |          |                             |
| 999811   | Iron and steel.....   | do.....                        | 39,673   | 1,581                       | 31,259   | 1,395                       |
| 999812   | Copper and copper-base alloy.....   | do.....                        | 12,989   | 6,109                       | 11,784   | 4,895                       |
| Castings (rough and semifinished): <sup>1</sup>                    |   |                                |          |                             |          |                             |
| 332011   | Iron (gray and malleable).....  | do.....                        | 84,495   | 25,556                      | 63,089   | 17,936                      |
| 332300   | Steel.....  | do.....                        | 18,019   | 8,403                       | 11,439   | 6,865                       |
| 336100   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                 | 2,546    | 2,287                       | 1,544    | 1,223                       |
| 336200   | Copper and copper-base alloy.....   | do.....                        | 9,234    | 5,812                       | 5,538    | 3,693                       |
| 339100   | Iron and steel forgings <sup>1</sup> .....  | Short tons.....                | 36,164   | 15,848                      | 34,620   | 14,871                      |
| Bearings:  |   |                                |          |                             |          |                             |
| 356218   | Ball.....   | do.....                        | (X)      | 9,623                       | (X)      | 8,559                       |
| 356228   | Roller.....   | do.....                        | (X)      | 6,561                       | (X)      |                             |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....                     | do.....                        | (X)      | 100,305                     | (X)      | 69,102                      |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....                                 | do.....                        | (X)      | 33,604                      | (X)      | 15,062                      |
| INDUSTRY 3567.—INDUSTRIAL FURNACES AND OVENS                       |   |                                |          |                             |          |                             |
| Materials, components, parts, containers, and supplies, total..... |   |                                | (X)      | 112,956                     | (X)      | 87,072                      |
| Mill shapes and forms (except castings):                           |   |                                |          |                             |          |                             |
| Carbon steel:  |   |                                |          |                             |          |                             |
| 331012   | Sheet and strip.....  | Short tons.....                | 38,541   | 5,945                       | 8,794    | 1,475                       |
| 331013   | Plates.....   | do.....                        | 18,085   | 3,010                       | 19,968   | 2,627                       |
| 331015   | Structural shapes.....  | do.....                        | 8,801    | 1,470                       | 15,854   | 2,786                       |
| 331019   | All other carbon steel mill shapes and forms.....   | do.....                        | 6,203    | 1,570                       | 8,672    | 1,513                       |
| 331020   | Alloy steel (except stainless).....   | do.....                        | 1,094    | 929                         | 1,076    | 648                         |
| 331031   | Stainless steel.....  | do.....                        | 3,702    | 7,196                       | 3,200    | 5,553                       |
| Copper and copper-base alloy:                                      |   |                                |          |                             |          |                             |
| 335728   | Bare wire (for electrical conduction).....  | 1,000 lbs.....                 | 72       | 105                         | (NA)     | (NA)                        |
| 335790   | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content) | 262      | 232                         | (NA)     | (NA)                        |
| 335102   | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.....                 | 392      | 261                         | (NA)     | (NA)                        |
| 335123   | Plate, sheet, and strip, including military cups and discs.....                                       | do.....                        | 405      | 261                         | (NA)     | (NA)                        |
| 335127   | Pipe and tube.....  | do.....                        | 3,878    | 3,112                       | (NA)     | (NA)                        |
| Aluminum and aluminum-base alloy:                                  |   |                                |          |                             |          |                             |
| 335202   | Sheet, plate, and foil.....   | do.....                        | 3,723    | 1,946                       | (NA)     | (NA)                        |
| 335205   | Extruded shapes (including extruded rod, bar, pipe, tube, etc.).....                                  | do.....                        | 412      | 445                         | (NA)     | (NA)                        |
| 335209   | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | do.....                        | 56       | 33                          | (NA)     | (NA)                        |
| 332300   | Steel castings (rough and semifinished) <sup>1</sup> .....  | Short tons.....                | 5,760    | 3,253                       | 2,042    | 2,345                       |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....                     | do.....                        | (X)      | 63,138                      | (X)      | 59,510                      |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....                                 | do.....                        | (X)      | 20,050                      | (X)      | 10,615                      |
| INDUSTRY 3569.—GENERAL INDUSTRY MACHINES, N.E.C.                   |   |                                |          |                             |          |                             |
| Materials, components, parts, containers, and supplies, total..... |   |                                | (X)      | 222,504                     | (X)      | 152,021                     |
| Mill shapes and forms (except castings):                           |   |                                |          |                             |          |                             |
| Carbon steel:  |   |                                |          |                             |          |                             |
| 331011   | Bars and bar shapes.....  | Short tons.....                | 40,592   | 7,445                       | 14,833   | 3,776                       |
| 331012   | Sheet and strip.....  | do.....                        | 30,942   | 5,261                       | 21,400   | 3,816                       |
| 331013   | Plates.....   | do.....                        | 21,982   | 3,708                       | 9,649    | 1,787                       |
| 331015   | Structural shapes.....  | do.....                        | 13,285   | 2,504                       | 6,730    | 1,259                       |
| 331017   | Wire and wire products.....   | do.....                        | 1,541    | 770                         | 3,071    | 1,612                       |
| 331019   | All other carbon steel mill shapes and forms.....   | do.....                        | 14,167   | 3,296                       | 11,898   | 2,620                       |
| Alloy steel (except stainless):                                    |   |                                |          |                             |          |                             |
| 331021   | Bar and bar shapes.....   | do.....                        | 3,376    | 1,405                       | 1,303    | 617                         |
| 331029   | All other alloy steel mill shapes and forms.....  | do.....                        | 3,313    | 1,605                       | 1,238    | 650                         |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure             | 1963     |                          | 1958     |                          |
|---|---|-----------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                             | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3569.—GENERAL INDUSTRY MACHINES, N.E.C.—Con. |   |                             |          |                          |          |                          |
| Mill shapes and forms (except castings)—Continued     |   |                             |          |                          |          |                          |
| 331031  | Stainless steel.....  | Short tons.....             | 4,527    | 7,026                    | 1,206    | 2,036                    |
| Copper and copper-base alloy:                         |   |                             |          |                          |          |                          |
| 335728  | Bare wire (for electrical conduction).....  | 1,000 lbs.....              | (NA)     | 244                      | 373      | 146                      |
| 335790  | Insulated wire and cable.....   | 1,000 lbs. (copper content) |          |                          | 72       | 36                       |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.....              | 1,028    | 674                      | 5,098    | 3,145                    |
| 335123  | Plate, sheet, and strip, including military cups and discs.....                                       | ..do.....                   | 865      | 895                      |          |                          |
| 335127  | Pipe and tube.....  | ..do.....                   | 1,263    | 701                      |          |                          |
| Aluminum and aluminum-base alloy:                     |   |                             |          |                          |          |                          |
| 335202  | Sheet, plate, and foil.....   | ..do.....                   | 4,676    | 2,644                    | 2,054    | 1,172                    |
| 335205  | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                                       | ..do.....                   | 1,572    | 1,863                    | 1,711    | 1,105                    |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                   | 1,507    | 1,296                    |          |                          |
| 331051  | Pig iron excluding silvery iron.....  | Short tons.....             | 469      | 29                       | 812      | 55                       |
| 999811  | Iron and steel scrap (excluding home scrap).....  | ..do.....                   | 2,414    | 121                      | 1,201    | 48                       |
| Castings (rough and semifinished): <sup>1</sup>       |   |                             |          |                          |          |                          |
| 332011  | Iron (gray and malleable).....  | ..do.....                   | 13,722   | 6,340                    | 9,525    | 3,721                    |
| 332300  | Steel.....  | ..do.....                   | 2,543    | 2,224                    | 1,818    | 1,274                    |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....              | 1,425    | 1,006                    | 678      | 620                      |
| 336200  | Copper and copper-base alloy.....   | ..do.....                   | 2,414    | 1,999                    | 1,554    | 1,067                    |
| Electric motors and generators: <sup>1</sup>          |   |                             |          |                          |          |                          |
| 362115  | Fractional horsepower electric motors (under 1 hp.) (excluding timing motors).....                    | Number.....                 | 51,208   | 1,887                    | 27,115   | 877                      |
| 362120  | Integral horsepower motors and generators (1 hp. and over).....                                       | ..do.....                   | 18,566   | 2,070                    | 6,514    | 7,110                    |
| Bearings:   |   |                             |          |                          |          |                          |
| 356218  | Ball.....   | .....                       | (X)      | 928                      | (X)      | 377                      |
| 356228  | Roller.....   | .....                       | (X)      | 312                      | (X)      |                          |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                     | .....                       | (X)      | 115,220                  | (X)      | 76,417                   |
| 976000  | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....                                 | .....                       | (X)      | 49,031                   | (X)      | 36,678                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>In addition the following quantities were produced and consumed in the same establishment:

| Code                            | Item   | Unit of measure | INDUSTRY |         |      |       |      |        |        |      |       |       |
|---------------------------------|--|-----------------|----------|---------|------|-------|------|--------|--------|------|-------|-------|
|                                 |  |                 | 3561     |         | 3562 | 3564  | 3565 | 3566   |        | 3567 | 3569  |       |
|                                 |  |                 | 1963     | 1958    | 1963 | 1963  | 1963 | 1963   | 1958   | 1963 | 1963  | 1958  |
| 332011                          | Castings (rough and semifinished):   |                 |          |         |      |       |      |        |        |      |       |       |
|                                 | Iron (gray and malleable).....   | Short tons      | 54,933   | 56,020  | (NA) | 1,712 | (NA) | 34,724 | 23,575 | (NA) | 1,802 | 1,703 |
| 332300                          | Steel.....   | ..do.....       | (D)      | 761     | (NA) | -     | (NA) | 88     | 184    | (D)  | (D)   | (NA)  |
| 336100                          | Aluminum and aluminum-base alloy.....  | 1,000 lbs.      | (D)      | 7,968   | -    | 490   | (D)  | (D)    | (NA)   | (NA) | (D)   | (NA)  |
| 336200                          | Copper and copper-base alloy.....  | ..do.....       | (NA)     | 1,991   | (D)  | (D)   | (D)  | (D)    | (D)    | (NA) | (D)   | (NA)  |
| 339100                          | Iron and steel forgings.....   | Short tons      | (D)      | -       | (D)  | (NA)  | (NA) | (D)    | 2,444  | (NA) | (NA)  | (NA)  |
| Engines:                        |  |                 |          |         |      |       |      |        |        |      |       |       |
| 351920                          | Diesel and semidiesel.....   | Number....      | (D)      | (D)     | (NA) | (NA)  | (NA) | (NA)   | (NA)   | (NA) | (NA)  | (NA)  |
| 351901                          | Gasoline and other carburetor....  | ..do.....       | (D)      | (D)     | (NA) | (NA)  | (NA) | (NA)   | (NA)   | (NA) | (NA)  | -     |
| Electric motors and generators: |  |                 |          |         |      |       |      |        |        |      |       |       |
| 362115                          | Fractional horsepower electric motors (under 1 hp.) (excluding timing motors)..... | ..do.....       | 420,357  | 465,812 | (NA) | (D)   | (NA) | (NA)   | (NA)   | (NA) | (D)   | 144   |
| 362120                          | Integral horsepower motors and generators (1 hp. and over).....                    | ..do.....       | 13,415   | 4,271   | (NA) | (D)   | (NA) | (NA)   | (NA)   | (NA) | 334   | 131   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>2</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Pumps and compressors (SIC 3561) | Ball and roller bearings (SIC 3562) | Blowers and fans (SIC 3564) | Industrial patterns (SIC 3565) | Power transmission equipment (SIC 3566) | Industrial furnaces and ovens (SIC 3567) | General industry machines, n.e.c. (SIC 3569) |
|---|----------------------------------|-------------------------------------|-----------------------------|--------------------------------|---|--|--|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 10,612                           | 12,100                              | 2,226                       | 1,240                          | 9,144                                   | 1,751                                    | 5,321  |
| Total cost of purchased fuels.....do....  | 4,961                            | 4,720                               | 946                         | 486                            | 3,859                                   | 713                                      | 1,976  |
| Bituminous coal, lignite, and anthracite:   |                                  |                                     |                             |                                |   |  |  |
| Quantity.....1,000 short tons..   | 109                              | 89                                  | (S)                         | (S)                            | 53                                      | (S)                                      | (S)  |
| Cost.....\$1,000..  | 818                              | 491                                 | (S)                         | (S)                            | 426                                     | (S)                                      | (S)  |
| Coke and breeze:  |                                  |                                     |                             |                                |   |  |  |
| Quantity.....1,000 short tons..   | 18                               | -                                   | (S)                         | -                              | 9                                       | -  | (S)  |
| Cost.....\$1,000..  | 626                              | -                                   | (S)                         | -                              | 255                                     | -  | (S)  |
| Fuel oil (distillate and residual):   |                                  |                                     |                             |                                |   |  |  |
| Quantity.....1,000 barrels of 42 gallons..  | 299                              | 408                                 | 74                          | (S)                            | 227                                     | (S)                                      | 154  |
| Cost.....\$1,000..  | 1,082                            | 1,168                               | 260                         | (S)                            | 845                                     | (S)                                      | 619  |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |                                  |                                     |                             |                                |   |  |  |
| Quantity.....million cu.ft..  | 3,544                            | 4,850                               | 646                         | 214                            | 3,219                                   | 437                                      | 1,230  |
| Cost.....\$1,000..  | 2,182                            | 3,021                               | 456                         | 156                            | 2,150                                   | 355                                      | 810  |
| Other fuels.....do....  | 253                              | 40                                  | 172                         | 258                            | 183                                     | 226                                      | 352  |
| Electric energy:  |                                  |                                     |                             |                                |   |  |  |
| Purchased:  |                                  |                                     |                             |                                |   |  |  |
| Quantity.....million kw.-hrs..  | 410                              | 673                                 | 76                          | 34                             | 377                                     | 58                                       | 229  |
| Cost.....\$1,000..  | 5,651                            | 7,380                               | 1,280                       | 754                            | 5,285                                   | 1,038                                    | 3,345  |
| Generated less sold.....million kw.-hrs..   | 22                               | -                                   | (S)                         | -                              | (S)                                     | -  | (S)  |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 442                              | 407                                 | 84                          | 32                             | 304                                     | 40                                       | 130  |
| Prime movers, total.....do....  | 85                               | 5                                   | 17                          | (Z)                            | 9                                       | 2  | 9  |
| Driving generators.....do....   | 18                               | (Z)                                 | 1                           | (Z)                            | 2                                       | 1  | 5  |
| Not driving generators.....do....   | 67                               | 5                                   | 16                          | -                              | 7                                       | 1  | 4  |
| Electric motors, total.....do....   | 367                              | 401                                 | 68                          | 31                             | 296                                     | 38                                       | 123  |
| Driven by purchased energy.....do....   | 357                              | 401                                 | 68                          | 31                             | 296                                     | 38                                       | 120  |
| Driven by energy generated at establishment.....do....  | 10                               | -                                   | (Z)                         | -                              | (Z)                                     | -  | 2  |
| Aggregate horsepower per 100 production workers.....  | 1,158                            | 959                                 | 854                         | 373                            | 968                                     | 648                                      | 678  |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower. n.e.c Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.



**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3561-                          | <b>PUMPS AND COMPRESSORS</b>   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 642                     | 61,322         | 395,769           | 38,934             | 80,825            | 224,721         | 768,787  | 660,549                     | 1,419,081                    | 28,417                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 520                     | 32,083         | 205,324           | 20,418             | 42,240            | 115,089         | 399,195  | 391,230                     | 785,422                      | 16,478                              |
|                                | 75-89% specialization.....   | 40                      | 10,520         | 65,690            | 6,320              | 12,965            | 35,804          | 137,109  | 88,149                      | 220,998                      | 4,205                               |
| 35611                          | Industrial pumps, except hydraulic fluid power (primary product class of estab.).....                                  | 159                     | 18,318         | 121,723           | 11,627             | 24,579            | 70,422          | 228,568  | 187,268                     | 413,059                      | 8,415                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 76                      | 2,412          | 15,516            | 1,453              | 3,022             | 8,183           | 35,426   | 32,006                      | 66,308                       | 1,379                               |
|                                | 75-89% specialization.....   | 19                      | 2,088          | 12,692            | 1,262              | 2,642             | 6,784           | 26,027   | 22,948                      | 49,518                       | 892                                 |
| 35612                          | Hydraulic fluid power pumps and motors (primary product class of estab.).....  | 38                      | 8,208          | 54,378            | 5,169              | 10,844            | 30,745          | 114,656  | 71,694                      | 185,263                      | 3,742                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 13                      | 1,177          | 7,495             | 878                | 1,837             | 5,229           | 15,019   | 7,930                       | 22,293                       | 908                                 |
|                                | 75-89% specialization.....   | 7                       | 874            | 5,218             | 611                | 1,342             | 3,265           | 7,753  | 5,434                       | 12,459                       | 388                                 |
| 35613                          | Domestic water systems and pumps, including pump jacks and cylinders (primary product class of estab.).....            | 35                      | 3,955          | 23,117            | 2,782              | 5,553             | 14,442          | 56,519   | 58,539                      | 114,006                      | 1,958                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 13                      | 158            | 730               | 103                | 227               | 482             | 1,426  | 1,552                       | 2,962                        | 38                                  |
| 35614                          | Air and gas compressors, except refrigeration compressors (primary product class of estab.)....                        | 55                      | 16,305         | 103,039           | 10,210             | 21,380            | 58,326          | 193,146  | 187,095                     | 377,021                      | 7,351                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 27                      | 742            | 4,609             | 479                | 1,055             | 2,475           | 8,350  | 17,174                      | 25,031                       | 172                                 |
|                                | 75-89% specialization.....   | 9                       | 2,922          | 19,333            | 1,873              | 4,042             | 10,725          | 32,627   | 26,244                      | 57,019                       | 2,618                               |
| 35615                          | Pumps and compressors, n.e.c., except refrigeration compressors (primary product class of estab.)                      | 124                     | 6,993          | 44,218            | 4,539              | 9,263             | 24,550          | 93,036   | 71,403                      | 162,889                      | 4,267                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 85                      | 2,119          | 13,663            | 1,387              | 2,884             | 7,664           | 33,422   | 23,769                      | 57,022                       | 871                                 |
|                                | 75-89% specialization.....   | 12                      | 966            | 6,141             | 687                | 1,442             | 3,596           | 13,204   | 5,374                       | 18,345                       | 173                                 |
| 35616                          | Parts and attachments for pumps, air and gas compressors, and pumping equipment (primary product class of estab.)..... | 56                      | 6,437          | 43,645            | 3,794              | 7,567             | 22,518          | 71,946   | 76,315                      | 147,954                      | 2,310                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 22                      | 681            | 4,857             | 451                | 903               | 2,767           | 8,759  | 5,105                       | 14,037                       | 294                                 |
|                                | 75-89% specialization.....   | 7                       | 252            | 1,721             | 126                | 264               | 769             | 2,338  | 6,999                       | 9,233                        | 43                                  |
| 3562-                          | <b>BALL AND ROLLER BEARINGS</b>  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 125                     | 52,316         | 348,700           | 42,003             | 85,970            | 263,022         | 627,694  | 372,267                     | 998,784                      | 39,243                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 111                     | 46,102         | 305,878           | 37,394             | 76,107            | 233,039         | 562,091  | 339,516                     | 899,599                      | 33,265                              |
|                                | 75-89% specialization.....   | 7                       | 4,592          | 31,514            | 3,454              | 7,232             | 21,608          | 50,711   | 19,765                      | 71,384                       | 5,331                               |
| 35621                          | Ball bearings, complete (primary product class of estab.).....   | 46                      | 25,327         | 161,118           | 20,444             | 41,441            | 120,901         | 281,032  | 129,813                     | 416,036                      | 16,833                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 32                      | 13,874         | 87,151            | 11,276             | 23,211            | 65,563          | 161,020  | 72,864                      | 233,533                      | 9,030                               |
|                                | 75-89% specialization.....   | 8                       | 6,830          | 40,097            | 5,671              | 10,962            | 31,260          | 65,790   | 28,433                      | 99,692                       | 2,999                               |
| 35622                          | Roller bearings, complete (primary product class of estab.).....   | 29                      | 22,132         | 156,392           | 17,799             | 36,393            | 118,773         | 288,850  | 198,561                     | 481,542                      | 18,184                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 19                      | 15,677         | 107,844           | 13,073             | 26,827            | 85,134          | 200,599  | 154,996                     | 353,024                      | 11,439                              |
| 35623                          | Mounted bearings (primary product class of estab.).....  | 8                       | 2,618          | 18,149            | 1,925              | 4,309             | 12,629          | 34,914   | 25,323                      | 60,138                       | 1,807                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 3                       | 160            | 904               | 126                | 272               | 604             | 1,331  | 1,930                       | 3,267                        | 153                                 |

See footnotes at end of table.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3562-                          | BALL AND ROLLER BEARINGS—Con.   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
| 35624                          | Parts and components for ball and roller bearings, including balls and rollers, sold separately (primary product class of estab.) | 26                      | 1,906          | 11,004            | 1,577              | 3,243             | 8,329           | 22,684   | 16,307                      | 38,683                       | 2,180                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 18                      | 1,381          | 7,742             | 1,153              | 2,352             | 5,948           | 15,752   | 12,690                      | 28,174                       | 1,926                               |
|                                | 75-89% specialization.....  | 3                       | 188            | 1,273             | 134                | 276               | 779             | 1,916  | 1,041                       | 2,874                        | 16                                  |
| 3564-                          | BLOWERS AND FANS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 237                     | 15,244         | 94,090            | 10,733             | 21,616            | 57,776          | 180,801  | 135,733                     | 315,285                      | 6,979                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 180                     | 7,103          | 43,649            | 4,943              | 9,971             | 25,301          | 89,185   | 66,640                      | 153,861                      | 3,334                               |
|                                | 75-89% specialization.....  | 23                      | 4,039          | 25,203            | 3,053              | 6,054             | 17,115          | 43,744   | 31,534                      | 75,180                       | 1,628                               |
| 35641                          | Industrial fans and blowers (primary product class of estab.)....   | 92                      | 10,790         | 65,692            | 7,667              | 15,592            | 41,178          | 124,156  | 93,191                      | 217,132                      | 5,380                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 59                      | 4,290          | 25,229            | 3,009              | 6,114             | 14,875          | 48,872   | 34,807                      | 83,143                       | 2,209                               |
|                                | 75-89% specialization.....  | 12                      | 878            | 5,367             | 604                | 1,268             | 3,248           | 12,389   | 8,422                       | 20,915                       | 285                                 |
| 35642                          | Dust collection, air purification equipment, and air washers (primary product class of estab.)....                                | 55                      | 3,546          | 23,451            | 2,376              | 4,653             | 13,260          | 48,414   | 36,370                      | 83,673                       | 1,231                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 36                      | 2,042          | 14,148            | 1,391              | 2,771             | 7,769           | 32,170   | 25,415                      | 56,120                       | 875                                 |
|                                | 75-89% specialization.....  | 9                       | 932            | 5,770             | 681                | 1,244             | 3,694           | 10,529   | 6,590                       | 16,856                       | 336                                 |
| 3566-                          | POWER TRANSMISSION EQUIPMENT  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 532                     | 46,670         | 303,314           | 34,400             | 71,101            | 203,941         | 555,710  | 345,058                     | 888,641                      | 26,444                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 453                     | 29,403         | 189,181           | 21,756             | 45,025            | 126,157         | 349,671  | 219,068                     | 561,457                      | 16,184                              |
|                                | 75-89% specialization.....  | 23                      | 5,241          | 34,695            | 3,607              | 7,468             | 22,096          | 57,534   | 33,464                      | 90,651                       | 4,319                               |
| 35661                          | Plain bearings (primary product class of estab.).....   | 49                      | 4,436          | 26,824            | 3,448              | 6,887             | 18,901          | 44,491   | 30,404                      | 73,183                       | 2,998                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 36                      | 1,841          | 11,298            | 1,387              | 2,856             | 7,376           | 18,889   | 14,184                      | 32,135                       | 1,807                               |
|                                | 75-89% specialization.....  | 4                       | 590            | 3,726             | 487                | 1,002             | 2,777           | 5,711  | 4,417                       | 11,047                       | 637                                 |
| 35662                          | Speed changers, industrial high speed drives and gears (primary product class of estab.).....                                     | 181                     | 18,546         | 123,226           | 13,297             | 27,620            | 79,681          | 210,670  | 122,899                     | 330,289                      | 10,362                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 134                     | 9,503          | 63,662            | 7,068              | 14,654            | 41,927          | 110,466  | 60,746                      | 169,874                      | 5,215                               |
|                                | 75-89% specialization.....  | 19                      | 3,994          | 25,865            | 2,817              | 5,781             | 16,733          | 44,626   | 33,143                      | 76,069                       | 1,959                               |
| 35633                          | Other mechanical power transmission equipment (primary product class of estab.).....  | 133                     | 22,274         | 145,584           | 16,519             | 34,233            | 99,289          | 284,354  | 183,442                     | 460,355                      | 12,389                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 91                      | 11,130         | 70,959            | 8,345              | 17,165            | 48,389          | 143,056  | 91,143                      | 230,655                      | 6,298                               |
|                                | 75-89% specialization.....  | 12                      | 585            | 3,515             | 388                | 800               | 2,156           | 5,806  | 4,177                       | 10,103                       | 470                                 |
| 3567-                          | INDUSTRIAL FURNACES AND OVENS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 238                     | 12,118         | 83,738            | 6,782              | 13,963            | 38,731          | 143,009  | 137,732                     | 279,058                      | 4,561                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 191                     | 6,136          | 42,444            | 3,521              | 7,286             | 20,357          | 72,680   | 76,122                      | 146,760                      | 2,241                               |
|                                | 75-89% specialization.....  | 15                      | 2,305          | 15,274            | 1,101              | 2,243             | 5,616           | 25,969   | 21,864                      | 47,794                       | 570                                 |
| 35671                          | Electric industrial furnaces and ovens, metal processing (primary product class of estab.).....                                   | 34                      | 2,585          | 17,131            | 1,431              | 2,972             | 7,879           | 28,672   | 28,558                      | 57,909                       | 829                                 |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 11                      | 257            | 1,934             | 166                | 355               | 959             | 4,279  | 2,630                       | 6,755                        | 350                                 |
| 35672                          | Fuel-fired industrial furnaces and ovens, metal processing (primary product class of estab.).....                                 | 44                      | 3,321          | 25,255            | 1,496              | 3,073             | 8,770           | 44,609   | 49,817                      | 94,224                       | 726                                 |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 20                      | 816            | 5,807             | 436                | 885               | 2,327           | 9,260  | 12,443                      | 21,653                       | 96                                  |

See footnotes at end of table.



TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3567-                          | INDUSTRIAL FURNACES AND OVENS—Con.   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
| 35673                          | High frequency induction and dielectric heating equipment and parts, attachments and components (primary product class of estab.)..... | 73                      | 5,699          | 38,274            | 3,476              | 7,140             | 19,879          | 64,629   | 53,658                      | 115,809                      | 2,865                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 52                      | 2,790          | 18,992            | 1,791              | 3,666             | 10,249          | 32,551   | 28,853                      | 59,135                       | 1,133                               |
|                                | 75-89% specialization.....   | 11                      | 597            | 3,709             | 312                | 646               | 1,615           | 6,615  | 4,420                       | 10,868                       | 225                                 |
| 3569-                          | GENERAL INDUSTRY MACHINES, N.E.C.  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 777                     | 35,559         | 240,816           | 20,332             | 40,869            | 109,354         | 424,084  | 272,709                     | 691,280                      | 15,102                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 629                     | 21,818         | 151,048           | 11,829             | 24,214            | 62,724          | 252,364  | 176,671                     | 427,639                      | 10,621                              |
|                                | 75-89% specialization.....   | 40                      | 2,846          | 18,043            | 1,751              | 3,573             | 10,089          | 48,121   | 27,648                      | 76,846                       | 688                                 |

n.e.c. Not elsewhere classified.

TABLE 9. Establishments, Production Workers, and Man-Hours for Selected Metalworking Operations: 1963

| Metalworking operations  | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |         |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|---------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |         |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |         |
| INDUSTRY 3561.—PUMPS AND COMPRESSORS   |                          |   |         |            |                                       |   |         |            |         |
| Ferrous foundry.....   | 30                       | 1   | 6*      | 23         | 1,877                                 | (D)                                       | (D)     | 1,801      |         |
| Nonferrous foundry (except die casting).....   | 23                       | 5   | 13      | 5          | 298                                   | 9   | 130     | 159        |         |
| Galvanizing and other hot dip coating.....   | 12                       | 9   | 3       | -          | 59                                    | 20  | 39      | -          |         |
| Heat treating of metals.....   | 56                       | 42  | 13      | 1          | 210                                   | 72  | (D)     | (D)        |         |
| Automatic screw machine department.....  | 51                       | 32  | 14      | 5          | 482                                   | 61  | 135     | 286        |         |
| Machine shop.....  | 294                      | 74  | 86      | 134        | 11,913                                | 154                                       | 862     | 10,897     |         |
| Tool and die shop.....   | 99                       | 48  | 41      | 10         | 758                                   | 94  | 382     | 282        |         |
| Foundry pattern shop.....  | 54                       | 35  | 16      | 3          | 374                                   | 64  | 166     | 144        |         |
| Plate or structural fabrication.....   | 84                       | 37  | 29      | 18         | 1,327                                 | 67  | 277     | 983        |         |
| Stamping, blanking and forming of metals.....  | 67                       | 45  | 17      | 5          | 394                                   | 74  | 164     | 156        |         |
| Painting, lacquering and enameling on metals.....  | 188                      | 166                                       | 17      | 5          | 542                                   | 253                                       | 121     | 168        |         |
| Assembly of product.....   | 269                      | 97  | 106     | 66         | 4,843                                 | 183                                       | 952     | 3,708      |         |
| INDUSTRY 3562.—BALL AND ROLLER BEARINGS  |                          |   |         |            |                                       |   |         |            |         |
| Nonferrous foundry.....  | 2                        | -   | 1       | 1          | (D)                                   | -   | (D)     | (D)        |         |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 13                       | 4   | 7       | 2          | 183                                   | 8   | (D)     | (D)        |         |
| Electroplating and other plating.....  | 13                       | 8   | 5       | -          | 51                                    | 15  | 36      | -          |         |
| Heat treating of metals.....   | 68                       | 26  | 22      | 20         | 1,722                                 | 42  | 234     | 1,446      |         |
| Automatic screw machine department.....  | 65                       | 16  | 15      | 34         | 2,530                                 | 34  | 124     | 2,372      |         |
| Machine shop.....  | 75                       | 18  | 18      | 39         | 3,453                                 | 29  | 164     | 3,260      |         |
| Tool and die shop.....   | 48                       | 12  | 15      | 21         | 1,893                                 | 15  | 179     | 1,699      |         |
| Foundry pattern shop.....  | 3                        | 1   | 2       | -          | 17                                    | (D)                                       | (D)     | -          |         |
| Plate or structural fabrication.....   | 3                        | 2   | -       | 1          | (D)                                   | (D)                                       | -       | (D)        |         |
| Stamping, blanking and forming of metals.....  | 51                       | 14  | 20      | 17         | 1,278                                 | 32  | 220     | 1,026      |         |
| Painting, lacquering and enameling on metals.....  | 11                       | 9   | 2       | -          | 25                                    | (D)                                       | (D)     | -          |         |
| Assembly of product.....   | 70                       | 15  | 17      | 38         | 3,745                                 | 34  | 202     | 3,509      |         |
| INDUSTRY 3564.—BLOWERS AND FANS  |                          |   |         |            |                                       |   |         |            |         |
| All operations, total.....   | 106                      | (X)                                       | (X)     | (X)        | 8,940                                 | (X)                                       | (X)     | (X)        | 17,765. |
| Ferrous foundry.....   | 2                        | -   | 1       | 1          | (D)                                   | -   | (D)     | (D)        | (D)     |
| Nonferrous foundry (except die casting).....   | 4                        | 1   | 2       | 1          | 47                                    | (D)                                       | (D)     | (D)        | 90      |
| Electroplating and other plating.....  | 2                        | 2   | -       | -          | (D)                                   | (D)                                       | -       | -          | (D)     |
| Galvanizing and other hot dip coating.....   | 2                        | 1   | 1       | -          | (D)                                   | (D)                                       | (D)     | (D)        | (D)     |
| Heat treating of metals.....   | 4                        | 2   | 2       | -          | (D)                                   | (D)                                       | (D)     | (D)        | (D)     |
| Automatic screw machine department.....  | 5                        | 3   | 2       | -          | 23                                    | (D)                                       | (D)     | -          | 45      |
| Machine shop.....  | 50                       | 21  | 16      | 13         | 1,214                                 | 47  | 146     | 1,021      | 2,534   |
| Tool and die shop.....   | 23                       | 11  | 8       | 4          | 185                                   | 24  | 64      | 97         | 382     |
| Foundry pattern shop.....  | 9                        | 7   | 2       | -          | 38                                    | (D)                                       | (D)     | -          | 65      |
| Plate or structural fabrication.....   | 44                       | 11  | 19      | 14         | 917                                   | 26  | 198     | 693        | 1,806   |
| Stamping, blanking and forming of metals.....  | 68                       | 24  | 25      | 19         | 1,097                                 | 48  | 239     | 810        | 2,303   |
| Painting, lacquering and enameling on metals.....  | 76                       | 60  | 14      | 2          | 265                                   | 108                                       | (D)     | (D)        | 530     |
| Assembly of product.....   | 97                       | 32  | 33      | 32         | 2,594                                 | 82  | 322     | 2,190      | 5,144   |
| Shipping department, including packing and crating..                                     | 87                       | 59  | 24      | 4          | 444                                   | 108                                       | 203     | 133        | 903     |
| All other operations such as maintenance, warehousing, etc.....                          | 60                       | 25  | 18      | 7          | 1,799                                 | 51  | 195     | 1,553      | 3,685   |
| INDUSTRY 3565.—INDUSTRIAL PATTERNS   |                          |   |         |            |                                       |   |         |            |         |
| Ferrous foundry.....   | 5                        | 5   | -       | -          | 8                                     | 8   | -       | -          | -       |
| Nonferrous foundry (except die casting).....   | 37                       | 24  | 12      | 1          | 175                                   | 45  | (D)     | (D)        | (D)     |
| Nonferrous die casting.....  | 7                        | 4   | 2       | 1          | 78                                    | (D)                                       | (D)     | (D)        | (D)     |
| Electroplating and other plating.....  | 2                        | 2   | -       | -          | (D)                                   | (D)                                       | -       | -          | -       |
| Heat treating of metals.....   | 2                        | 2   | -       | -          | (D)                                   | (D)                                       | -       | -          | -       |
| Machine shop.....  | 53                       | 30  | 21      | 2          | 306                                   | 50  | (D)     | (D)        | (D)     |
| Tool and die shop.....   | 22                       | 12  | 7       | 3          | 149                                   | 18  | 50      | 81         | 81      |
| Foundry pattern shop.....  | 377                      | 141                                       | 196     | 40         | 3,715                                 | 246                                       | 1,838   | 1,631      | 1,631   |

See footnotes at end of table.



TABLE 9. Establishments, and Production Workers for Selected Metalworking Operations: 1963—Continued

| Metalworking operations  | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3565.—INDUSTRIAL PATTERNS—Continued   |                          |   |         |            |                                       |   |         |            |
| Plate or structural fabrication.....   | 2                        | -   | 2       | -          | (D)                                   | -   | (D)     | -          |
| Stamping, blanking and forming of metals.....  | 3                        | 1   | 2       | -          | 17                                    | (D)                                       | (D)     | -          |
| Painting, lacquering and enameling on metals.....  | 9                        | 9   | -       | -          | 19                                    | 19  | -       | -          |
| INDUSTRY 3566.—POWER TRANSMISSION EQUIPMENT  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 10                       | -   | 2       | 8          | 1,330                                 | -   | (D)     | (D)        |
| Nonferrous foundry (except die casting).....   | 14                       | 1   | 4       | 9          | 467                                   | (D)                                       | (D)     | 408        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 5                        | 2   | 2       | 1          | 50                                    | (D)                                       | (D)     | (D)        |
| Electroplating and other plating.....  | 19                       | 16  | 1       | 2          | 93                                    | 26  | (D)     | (D)        |
| Heat treating of metals.....   | 68                       | 37  | 24      | 7          | 668                                   | 73  | 269     | 326        |
| Automatic screw machine department.....  | 80                       | 36  | 36      | 8          | 757                                   | 68  | 324     | 365        |
| Machine shop.....  | 284                      | 53  | 99      | 132        | 13,018                                | 73  | 1,062   | 11,883     |
| Tool and die shop.....   | 86                       | 39  | 31      | 16         | 931                                   | 75  | 295     | 561        |
| Foundry pattern shop.....  | 32                       | 23  | 7       | 2          | 143                                   | 41  | (D)     | (D)        |
| Plate or structural fabrication.....   | 21                       | 12  | 4       | 5          | 365                                   | 14  | 58      | 293        |
| Stamping, blanking and forming of metals.....  | 60                       | 30  | 11      | 19         | 1,195                                 | 54  | 108     | 1,033      |
| Painting, lacquering and enameling on metals.....  | 71                       | 63  | 8       | -          | 150                                   | 91  | 59      | -          |
| Assembly of product.....   | 150                      | 71  | 38      | 41         | 3,545                                 | 139                                       | 351     | 3,055      |
| INDUSTRY 3567.—INDUSTRIAL FURNACES AND OVENS   |                          |   |         |            |                                       |   |         |            |
| Machine shop.....  | 85                       | 50  | 20      | 15         | 1,598                                 | 103                                       | 198     | 1,297      |
| Plate or structural fabrication.....   | 73                       | 30  | 29      | 14         | 1,028                                 | 77  | 283     | 668        |
| Stamping, blanking and forming of metals.....  | 58                       | 29  | 21      | 8          | 495                                   | 62  | 191     | 242        |
| Painting, lacquering and enameling on metals.....  | 66                       | 55  | 9       | 2          | 207                                   | 95  | (D)     | (D)        |
| INDUSTRY 3569.—GENERAL INDUSTRY MACHINES, N.E.C.   |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 5                        | 2   | 1       | 2          | 80                                    | (D)                                       | (D)     | (D)        |
| Nonferrous foundry (except die casting).....   | 4                        | 1   | 2       | 1          | 41                                    | (D)                                       | (D)     | (D)        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 4                        | 3   | -       | 1          | 37                                    | (D)                                       | -       | (D)        |
| Electroplating and other plating.....  | 9                        | 8   | 1       | -          | 33                                    | (D)                                       | (D)     | -          |
| Galvanizing and other hot dip coating.....   | 5                        | 3   | 2       | -          | 15                                    | (D)                                       | (D)     | -          |
| Heat treating of metals.....   | 29                       | 27  | 2       | -          | 62                                    | (D)                                       | (D)     | -          |
| Automatic screw machine department.....  | 26                       | 21  | 4       | 1          | 93                                    | 34  | (D)     | (D)        |
| Machine shop.....  | 249                      | 87  | 94      | 68         | 4,258                                 | 172                                       | 974     | 3,112      |
| Tool and die shop.....   | 63                       | 45  | 17      | 1          | 280                                   | 82  | (D)     | (D)        |
| Foundry pattern shop.....  | 22                       | 19  | 3       | -          | 58                                    | 33  | 25      | -          |
| Plate or structural fabrication.....   | 116                      | 61  | 36      | 19         | 1,475                                 | 107                                       | 331     | 1,037      |
| Stamping, blanking and forming of metals.....  | 88                       | 54  | 25      | 9          | 697                                   | 75  | 242     | 380        |
| Painting, lacquering and enameling on metals.....  | 157                      | 144                                       | 13      | -          | 296                                   | 172                                       | 124     | -          |

Note: Very small establishments were not requested to report their metalworking operations and in some instances a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production worker employment on the last line of the table below:

| Item  | Industry |        |       |       |       |       |       |
|---|----------|--------|-------|-------|-------|-------|-------|
|   | 3561     | 3562   | 3564  | 3565  | 3566  | 3567  | 3569  |
| Total number of establishments in the industry.....   | 642      | 125    | 237   | 1,209 | 532   | 239   | 778   |
| Number of establishments which reported one or more of the specified operations.....                          | 334      | 99     | 106   | 449   | 316   | 121   | 348   |
| Percent of industry production workers in these establishments...   | 80-85    | 95-100 | 80-85 | 60-65 | 85-90 | 80-85 | 65-70 |
| Number of establishments which reported "none" of the operations apply.....                                   | 56       | 6      | (X)   | 100   | 56    | 17    | 68    |
| Percent of industry production workers in these establishments...   | 0-5      | 0-5    | (X)   | 10-15 | 0-5   | 5-10  | 0-5   |
| Percent of industry production workers in establishments which completed metalworking operations inquiry..... | 80-85    | 95-100 | 80-85 | 75-80 | 85-90 | 90-95 | 70-75 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>These size groups are based on the number of employees in each specific operation. They are not based on total employment in the establishment.





## OFFICE, COMPUTING, AND ACCOUNTING MACHINES

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3571—Computing and Accounting Machines, Including Cash Registers
- 3572—Typewriters
- 3576—Scales and Balances, Except Laboratory
- 3579—Office Machines, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3571—COMPUTING AND ACCOUNTING MACHINES, INCLUDING CASH REGISTERS

This industry comprises establishments primarily engaged in manufacturing computing machines including electronic, accounting machines, and cash register. Establishments primarily engaged in manufacturing typewriters are classified in industry 3572, and office duplicating machines and devices and autographic registers in industry 3579. For a detailed list of products of industry 3571, refer to table 6A, product codes 3571101 to 3571297.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Computing and Related Machines Industry totaled \$2,020 million. This amount included shipments of computing and related machines (primary products) valued at \$1,752 million, shipments of other products (secondary products) valued at \$122 million, and miscellaneous receipts (largely sales of products bought and resold) at \$145 million.

This industry's shipments of computing and related machines represented 93 percent of its total product shipments. The industry specialization ratio in 1958 was 94 percent.

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each

of the different product classes. The extent of this specialization is indicated in table 8. Approximately 54 percent of the total industry shipments are represented by plants specializing in computing and accounting machines, including cash registers; and 45 percent in electronic data processing machines and associated equipment, except typewriters.

Shipments of computing and related machines by this industry represented 94 percent of all shipments of these products (\$1,859 million) by all industries. In 1958 the coverage ratio was 91 percent. Other industries shipping computing and related machines include industry 3662, Radio, TV Communications Equipment, \$44 million; and industry 3572, Typewriters, over \$22 million.

#### 3572—TYPEWRITERS

This industry comprises establishments primarily engaged in manufacturing typewriters and parts. For a detailed list of products of industry 3572, refer to table 6A, product codes 3572001 to 3572098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Typewriters Industry totaled \$315 million. This amount included shipments of typewriters (primary products) valued at \$262 million, shipments of other products (secondary products) valued at \$45 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$8 million.

This industry's shipments of typewriters represented 85 percent of its total product shipments. The industry specialization ratio in 1958 was 82 percent. Secondary products shipped by this industry in 1963 include computing and related machines of over \$22 million.

Shipments of typewriters by this industry represented 99 percent of all shipments of these products (\$265 million) by all industries. In 1958 the coverage ratio was also 99 percent.

The production index for the primary products of the industry increased to 158 in 1963 from the 1958 level of 116. The unit value index for 1963 was 119 compared to 115 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3576—SCALES AND BALANCES, EXCEPT LABORATORY

This industry comprises establishments primarily engaged in manufacturing weighing and force measuring machines and devices of all types, except those regarded as scientific apparatus for laboratory and experimental work which are classified in industry 3811. For a detailed list of products of industry 3576, refer to table 6A, product codes 3576011 to 3576084.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Scales and Balances Industry totaled \$98 million. This amount included shipments of scales and balances (primary products) valued at \$87 million, shipments of other products (secondary products) valued at \$7 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$4 million.



This industry's shipments of scales and balances represented 92 percent of its total product shipments. The industry specialization ratio in 1958 was 91 percent.

Shipments of scales and balances by this industry represented 97 percent of all shipments of these products (\$90 million) by all industries. In 1958 the coverage ratio was also 97 percent.

#### 3579—OFFICE MACHINES, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing office machines and devices, n.e.c. Establishments primarily engaged in manufacturing computing machines and cash registers are classified in industry 3571, typewriters in industry 3572, and photocopy and microfilm equipment in industry 3861. For a detailed list of products of industry 3579, refer to table 6A, product codes 3579010 to 3579091.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Office Machines, N.E.C., industry totaled \$349 million. This amount included shipments of office machines, n.e.c. (primary products) valued at \$223 million, shipments of other products (secondary products) valued at \$51 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$76 million.

This industry's shipments of office machines, n.e.c., represented 81 percent of its total product shipments. The industry specialization ratio in 1958 was 84 percent. Secondary products shipped by this industry in 1963 included other fabricated wire products, not produced by wire drawers (\$7 million), and computing and related machines (over \$4 million).

Shipments of office machines, n.e.c., by this industry represented 81 percent of all shipments of these products (\$276 million) by all industries. In 1958, the coverage ratio was 85 percent. Another industry shipping office machines, n.e.c., was industry 3315, Steel Wire Drawing, \$7 million.

OFFICE MACHINES, N.E.C.: SIC 357  
 Value Added by Manufacture by State: 1963

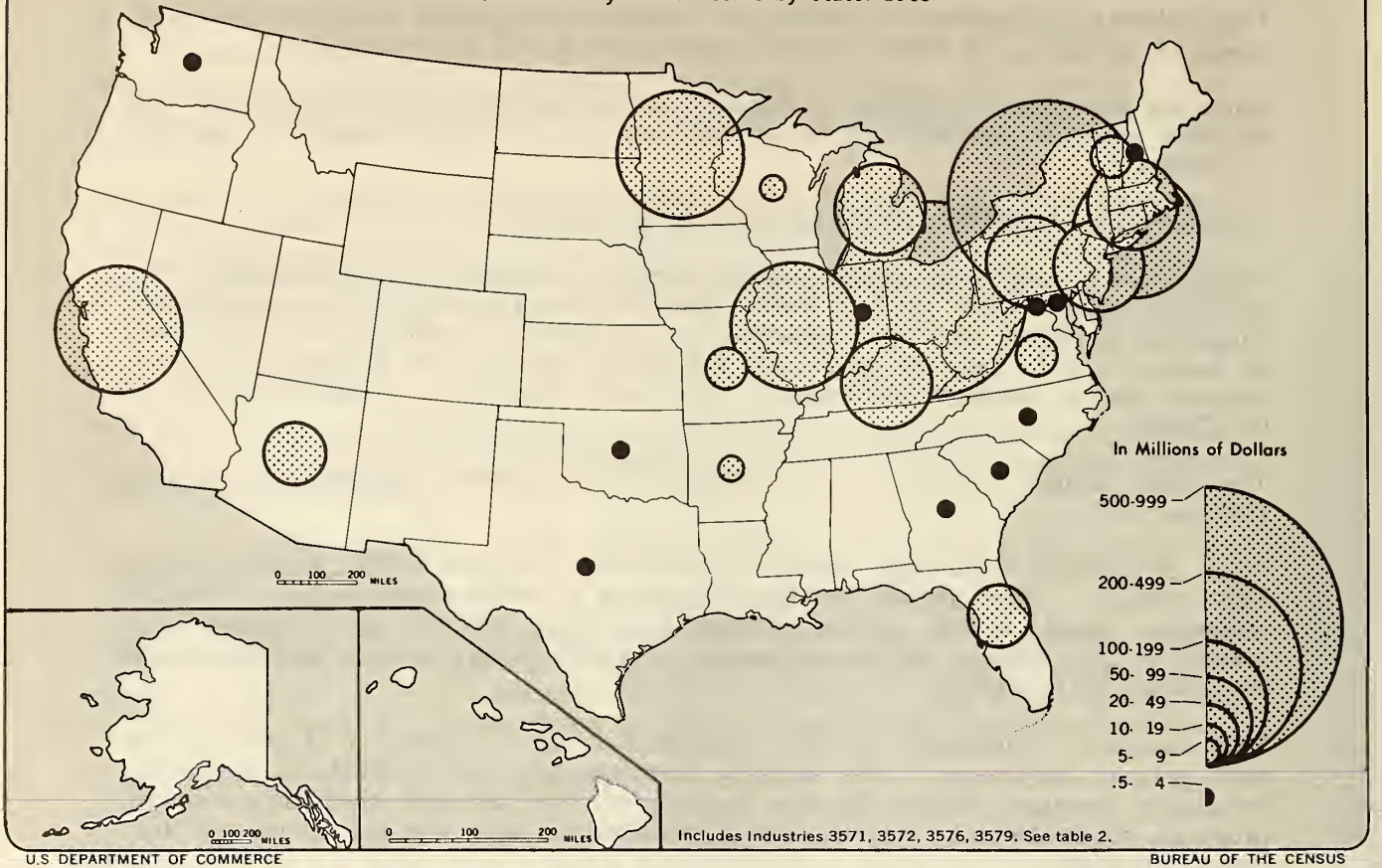




TABLE 1. General Statistics: 1963 and Earlier Years

| Year  | Companies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|-----------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                       | Total<br>(number) | With 20<br>employ-<br>ees or<br>more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3571.—COMPUTING AND RELATED MACHINES |                       |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 213                   | 248               | 139  | 96,370            | 703,231              | 58,985             | 119,521              | 369,459            | 1,101,484  | 926,876                           | 2,019,714                          | 92,628  | 93  | 94                                       |
| 1962 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 100,549           | 722,357              | 59,519             | 118,109              | 364,645            | 1,025,776  | 841,338                           | 1,833,241                          | 87,830  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 98,261            | 677,751              | 60,720             | 120,280              | 366,431            | 915,619  | 850,876                           | 1,676,748                          | 93,147  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 95,050            | 638,796              | 60,043             | 120,306              | 353,748            | 822,012  | 791,137                           | 1,555,715                          | 69,754  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 78,154            | 488,028              | 50,147             | 98,406               | 275,080            | 722,538  | 619,401                           | 1,301,719                          | 38,958  | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> (New)...                    | 119                   | 136               | 71   | 80,864            | 473,455              | 50,523             | 98,497               | 269,013            | 579,103  | 528,065                           | 1,104,194                          | 61,494  | 94  | 91                                       |
| 1958 <sup>2</sup> (Old)...                    | (NA)                  | 140               | 74   | 82,442            | 480,845              | 51,543             | 100,472              | 273,770            | 590,897  | 530,784                           | 1,118,683                          | 61,980  | (NA)  | (NA)                                     |
| 1957 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 77,070            | 459,219              | 51,862             | 113,755              | 278,024            | 658,563  | 465,279                           | 1,008,095                          | 105,037   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 65,477            | 378,348              | 48,315             | 107,963              | 252,099            | 591,408  | 317,836                           | 767,483                            | 59,126  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 60,135            | 303,883              | 46,933             | 92,464               | 168,719            | 407,729  | 252,417                           | 661,775                            | 33,911  | (NA)  | (NA)                                     |
| 1954.....                                     | 73                    | 84                | 51   | 56,692            | 275,809              | 45,014             | 88,484               | 200,953            | 405,414  | 202,217                           | 614,265                            | 31,571  | 78  | 93                                       |
| 1953 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 56,789            | 259,182              | 46,287             | 91,363               | 198,307            | 384,634  | 186,031                           | 570,665                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 53,256            | 238,180              | 43,869             | 86,615               | 184,008            | 342,369  | 138,053                           | 480,422                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 49,974            | 217,304              | 41,792             | 85,079               | 167,431            | 310,100  | 114,837                           | 424,937                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 42,664            | 167,293              | 35,911             | 73,065               | 133,015            | 260,684  | 84,676                            | 345,360                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 41,112            | 152,913              | 35,602             | 71,863               | 125,605            | 230,387  | 73,302                            | 303,689                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                     | 50                    | 51                | 29   | 45,611            | 152,678              | 40,467             | 85,445               | 127,569            | 231,207  | 62,262                            | 293,469                            | 22,295  | 94  | 94                                       |
| 1939 <sup>3</sup> .....                       | (NA)                  | 38                | (NA)   | (NA)              | (NA)                 | 16,517             | (NA)                 | 25,798             | 71,929   | 10,400                            | 82,329                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3572.—TYPEWRITERS                    |                       |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 17                    | 21                | 16   | 18,023            | 102,885              | 13,940             | 27,076               | 71,068             | 243,190  | 79,641                            | 315,385                            | 9,576   | 85  | 99                                       |
| 1962 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 17,798            | 96,697               | 14,049             | 27,549               | 69,308             | 206,883  | 79,737                            | 290,685                            | 10,073  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 18,540            | 93,788               | 14,848             | 28,677               | 68,096             | 195,834  | 75,412                            | 270,535                            | 8,309   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 19,102            | 92,965               | 15,266             | 29,665               | 68,064             | 201,186  | 75,527                            | 282,971                            | 10,207  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 19,692            | 93,593               | 16,125             | 31,320               | 71,586             | 188,658  | 71,763                            | 265,358                            | 7,395   | (NA)  | (NA)                                     |
| 1958.....                                     | 16                    | 18                | 13   | 19,779            | 84,467               | 16,310             | 29,748               | 64,612             | 168,877  | 67,691                            | 238,173                            | 9,880   | 82  | 99                                       |
| 1957 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 24,058            | 95,026               | 21,043             | 40,676               | 81,610             | 214,757  | 76,893                            | 265,076                            | 30,426  | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 22,075            | 86,703               | 19,466             | 38,554               | 74,588             | 182,116  | 58,202                            | 229,849                            | 13,775  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 19,931            | 75,935               | 18,147             | 35,064               | 68,165             | 162,328  | 47,808                            | 207,056                            | 2,704   | (NA)  | (NA)                                     |
| 1954.....                                     | 15                    | 18                | 14   | 18,435            | 67,399               | 16,699             | 32,589               | 60,075             | 136,953  | 44,722                            | 178,799                            | 2,789   | 80  | 97                                       |
| 1953 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 19,822            | 73,341               | 17,392             | (NA)                 | 62,248             | 135,121  | 46,466                            | 181,587                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 21,057            | 73,627               | 18,567             | (NA)                 | 62,792             | 133,691  | 41,793                            | 175,484                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 22,778            | 79,263               | 20,564             | (NA)                 | 69,701             | 141,155  | 36,739                            | 177,894                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 19,692            | 61,408               | 17,906             | (NA)                 | 54,129             | 113,764  | 27,845                            | 141,609                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 17,603            | 50,350               | 15,683             | (NA)                 | 43,830             | 87,704   | 27,227                            | 114,931                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                     | 23                    | 28                | (NA)   | 26,604            | 73,177               | 23,838             | 49,684               | 63,509             | 121,385  | 32,539                            | 153,924                            | (NA)  | 90  | 97                                       |
| 1939.....                                     | (NA)                  | 18                | (NA)   | (NA)              | (NA)                 | 16,195             | (NA)                 | 19,214             | 29,096   | 10,830                            | 39,926                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                     | (NA)                  | 21                | (NA)   | 22,930            | 28,488               | 21,440             | (NA)                 | 25,956             | 31,614   | 13,392                            | 45,006                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                     | (NA)                  | 20                | (NA)   | 16,920            | 18,796               | 15,398             | (NA)                 | 16,632             | 25,228   | 8,630                             | 33,858                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....                                     | (NA)                  | 14                | (NA)   | 10,361            | 8,549                | 9,591              | (NA)                 | 7,565              | 13,209   | 3,256                             | 16,465                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....                                     | (NA)                  | 20                | (NA)   | (NA)              | (NA)                 | 10,924             | (NA)                 | 10,328             | 18,272   | 3,785                             | 22,057                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....                                     | (NA)                  | 26                | (NA)   | 18,409            | 25,656               | 16,945             | (NA)                 | 22,319             | 54,609   | 7,249                             | 61,858                             | (NA)  | (NA)  | (NA)                                     |
| 1927.....                                     | (NA)                  | 26                | (NA)   | 17,222            | 22,237               | 15,603             | (NA)                 | 19,398             | 45,383   | 9,936                             | 55,319                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3576.—SCALES AND BALANCES            |                       |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 81                    | 85                | 35   | 5,765             | 35,052               | 3,725              | 7,678                | 19,919             | 64,362   | 35,298                            | 98,491                             | 1,149   | 92  | 97                                       |
| 1962 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 5,179             | 29,121               | 3,377              | 6,979                | 16,457             | 49,849   | 27,719                            | 77,735                             | 970   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 5,245             | 28,943               | 3,475              | 7,292                | 16,699             | 49,664   | 26,362                            | 74,810                             | 771   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 5,045             | 26,848               | 3,415              | 7,001                | 15,621             | 48,254   | 24,077                            | 70,382                             | 1,341   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 5,392             | 27,846               | 3,565              | 7,378                | 16,076             | 49,987   | 29,064                            | 80,880                             | (1,842)   | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> (New)...                    | 71                    | 72                | 32   | 5,347             | 26,574               | 3,515              | 6,886                | 14,974             | 49,125   | 27,844                            | 78,335                             | 1,406   | 91  | 97                                       |
| 1958 <sup>2</sup> (Old)...                    | (NA)                  | 79                | 38   | 5,733             | 28,335               | 3,798              | 7,417                | 16,007             | 52,008   | 28,597                            | 81,999                             | 1,512   | (NA)  | (NA)                                     |
| 1957 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 6,646             | 34,965               | 4,843              | 9,091                | 21,335             | 64,207   | 30,563                            | 91,350                             | (S)   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 6,393             | 31,054               | 4,789              | 8,903                | 19,563             | 60,116   | 28,793                            | 86,114                             | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 5,687             | 26,271               | 4,300              | 8,712                | 17,067             | 51,087   | 24,685                            | 74,878                             | (S)   | (NA)  | (NA)                                     |
| 1954.....                                     | 77                    | 78                | 35   | 5,381             | 21,276               | 4,074              | 7,636                | 14,193             | 45,535   | 20,135                            | 64,182                             | 1,103   | 90  | 96                                       |
| 1953 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | (S)               | (S)                  | (S)                | (S)                  | (S)                | (S)  | (S)                               | (S)                                | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 6,683             | 26,061               | 4,659              | 9,705                | 15,991             | 53,548   | 25,104                            | 78,652                             | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 6,519             | 24,300               | 5,166              | 10,688               | 16,681             | 46,080   | 31,693                            | 77,773                             | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 7,117             | 24,676               | 4,443              | 8,838                | 13,365             | 42,426   | 20,671                            | 63,097                             | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 6,122             | 19,639               | 4,385              | 8,249                | 11,991             | 38,013   | 16,764                            | 54,777                             | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                     | 73                    | 75                | 32   | 6,526             | 18,849               | 4,385              | 10,041               | 12,847             | 34,766   | 19,776                            | 54,542                             | 1,457   | 91  | 92                                       |
| 1939.....                                     | (NA)                  | 56                | (NA)   | 3,757             | 5,566                | 2,839              | (NA)                 | 3,306              | 9,363  | 4,987                             | 14,350                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                     | (NA)                  | 57                | (NA)   | 4,139             | 5,797                | 3,299              | (NA)                 | 4,115              | 11,998   | 5,858                             | 17,856                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                     | (NA)                  | 56                | (NA)   | 3,271             | 4,195                | 2,468              | (NA)                 | 2,633              | 9,567  | 3,816                             | 13,383                             | (NA)  | (NA)  | (NA)                                     |

See footnotes at end of table.

TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3576.—SCALES AND BALANCES—Continued |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1933.....                                    | (NA)                       | 45                | (NA)   | 2,896             | 2,883                | 2,187              | (NA)                 | 1,825              | 6,171  | 2,162                             | 8,333                              | (NA)  | (NA)  | (NA)                                     |
| 1931.....                                    | (NA)                       | 54                | (NA)   | (NA)              | (NA)                 | 2,814              | (NA)                 | 3,233              | 3,644  | 10,917                            | 14,561                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....                                    | (NA)                       | 59                | (NA)   | 6,183             | 8,845                | 4,118              | (NA)                 | 5,995              | 22,943   | 7,438                             | 30,381                             | (NA)  | (NA)  | (NA)                                     |
| 1927.....                                    | (NA)                       | 60                | (NA)   | 4,988             | 7,891                | 3,906              | (NA)                 | 5,461              | 17,201   | 7,454                             | 24,655                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....                                    | (NA)                       | 71                | (NA)   | 5,397             | 8,242                | 4,292              | (NA)                 | 5,783              | 19,888   | 7,349                             | 27,237                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....                                    | (NA)                       | 65                | (NA)   | 5,289             | 7,794                | 4,245              | (NA)                 | 5,500              | 17,563   | 6,594                             | 24,157                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....                                    | (NA)                       | 65                | (NA)   | 4,804             | 6,290                | 3,720              | (NA)                 | 4,428              | 11,169   | 4,716                             | 15,885                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....                                    | (NA)                       | 79                | (NA)   | 6,783             | 8,800                | 5,432              | (NA)                 | 6,534              | 13,647   | 6,994                             | 20,641                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....                                    | (NA)                       | 83                | (NA)   | 5,443             | 4,168                | 4,467              | (NA)                 | 2,934              | 6,560  | 3,174                             | 9,734                              | (NA)  | (NA)  | (NA)                                     |
| 1909.....                                    | (NA)                       | 87                | (NA)   | 4,231             | 3,001                | 3,559              | (NA)                 | 2,186              | 6,082  | 2,704                             | 8,786                              | (NA)  | (NA)  | (NA)                                     |
| 1904.....                                    | (NA)                       | 85                | (NA)   | 3,564             | 2,231                | 3,133              | (NA)                 | 1,755              | 4,370  | 1,633                             | 6,003                              | (NA)  | (NA)  | (NA)                                     |
| 1899.....                                    | (NA)                       | 86                | (NA)   | 3,080             | 1,734                | 2,775              | (NA)                 | 1,437              | 3,707  | 1,533                             | 5,240                              | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3579.—OFFICE MACHINES, N.E.C.       |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                    | 158                        | 161               | 75   | 16,980            | 104,053              | 11,616             | 22,996               | 63,258             | 224,654  | 126,658                           | 349,210                            | 16,257  | 81  | 81                                       |
| 1962 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | (19,220)          | (114,963)            | (13,224)           | (26,471)             | (67,945)           | (255,777)  | (103,111)                         | (374,384)                          | (7,919)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 18,866            | 110,835              | 13,031             | 26,239               | 64,381             | 239,005  | 93,944                            | 351,115                            | 7,204   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 16,581            | 98,942               | 11,831             | 23,894               | 59,862             | 223,343  | 90,860                            | 321,174                            | 8,491   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 15,581            | 86,625               | 10,867             | 21,165               | 52,717             | 191,132  | 98,995                            | 292,893                            | 9,662   | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                      | 119                        | 120               | 72   | 15,625            | 82,984               | 10,600             | 21,227               | 50,108             | 173,424  | 90,596                            | 264,513                            | 11,817  | 84  | 85                                       |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the 1958 figures for this industry are not strictly comparable with those for earlier years. The 1957 and earlier years are based on the old SIC definition of the industry.

<sup>3</sup>Comparable figures are not available for prior years.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                  | 1963           |                                    |                |                   |                    |                   |                 |  |                             |                              | 1958                                |                        |  |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|------------------------|--|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |                        |  |
| INDUSTRY 3571.—COMPUTING AND RELATED MACHINES |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| Total.....                                    | 248            | 139                                | 96,370         | 703,231           | 58,985             | 119,521           | 369,459         | 1,101,484                                      | 926,876                     | 2,019,714                    | 92,628                              | 80,864                 | 579,103  |
| New England.....                              | 27             | 16                                 | 3,494          | 21,403            | 2,467              | 5,519             | 12,305          | 50,306   | 34,942                      | 83,616                       | 2,596                               | 2,791                  | 17,215   |
| Massachusetts.....                            | 21             | 13                                 | 3,050          | 19,366            | 2,092              | 4,792             | 10,797          | 46,128   | 33,785                      | 78,504                       | 2,307                               | 1,318                  | 8,631  |
| Middle Atlantic.....                          | 72             | 35                                 | 33,814         | 264,731           | 17,987             | 37,171            | 116,047         | 296,120  | 436,725                     | 738,841                      | 41,096                              | 35,517                 | 193,238  |
| New York.....                                 | 38             | 19                                 | 26,885         | 218,977           | 13,500             | 27,929            | 91,530          | 212,510  | 351,804                     | 565,877                      | 28,764                              | 30,752                 | 162,427  |
| New Jersey.....                               | 11             | 8                                  | 2,442          | 16,108            | 1,568              | 3,450             | 8,778           | 28,498   | 25,076                      | 48,836                       | (D)                                 | (2)                    | (2)  |
| Pennsylvania.....                             | 23             | 8                                  | 4,487          | 29,646            | 2,919              | 5,792             | 15,739          | 55,112   | 59,845                      | 124,128                      | (D)                                 | (2)                    | (2)  |
| East North Central..                          | 34             | 18                                 | 26,577         | 186,515           | 21,849             | 42,981            | 146,342         | 323,064  | 133,275                     | 467,615                      | 11,574                              | 31,071                 | 280,206  |
| West North Central..                          | 17             | 11                                 | 11,632         | 82,679            | 6,049              | 12,510            | 35,108          | 195,516  | 141,993                     | 312,111                      | 19,587                              |                        |  |
| South.....                                    | 24             | 18                                 | 4,006          | 21,487            | 2,766              | 5,536             | 12,230          | 67,123   | 43,958                      | 110,860                      | 1,084                               | 1,192                  | 16,939   |
| Maryland.....                                 | 5              | 4                                  | 173            | 1,374             | 115                | 247               | 903             | 897  | 2,449                       | 4,144                        | 69                                  | (2)                    | (2)  |
| West.....                                     | 74             | 41                                 | 16,847         | 126,416           | 7,867              | 15,804            | 47,427          | 169,355  | 135,983                     | 306,671                      | 16,691                              | 10,293                 | 71,505   |
| INDUSTRY 3572.—TYPEWRITERS                    |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| Total.....                                    | 21             | 16                                 | 18,023         | 102,885           | 13,940             | 27,076            | 71,068          | 243,190  | 79,641                      | 315,385                      | 9,576                               | 19,779                 | 168,877  |
| Northeast:                                    |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| New York.....                                 | 7              | 5                                  | 6,975          | 34,809            | 5,794              | 11,329            | 27,415          | 86,338   | 26,648                      | 110,746                      | 1,801                               | 9,237                  | 81,097   |
| All other States....                          | 14             | 11                                 | 11,048         | 68,076            | 8,146              | 15,747            | 43,653          | 156,852  | 52,993                      | 204,639                      | 7,775                               | 10,542                 | 87,780   |
| INDUSTRY 3576.—SCALES AND BALANCES            |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| Total.....                                    | 85             | 35                                 | 5,765          | 35,052            | 3,725              | 7,678             | 19,919          | 64,362   | 35,298                      | 98,491                       | 1,149                               | 5,347                  | 49,125   |
| Northeast and North Central.....              | 61             | 29                                 | 5,421          | 32,600            | 3,478              | 7,164             | 18,241          | 59,814   | 32,697                      | 91,302                       | 1,080                               | (2)                    | (2)  |
| New York.....                                 | 6              | 3                                  | 740            | 3,973             | 531                | 1,153             | 2,629           | 6,448  | 5,113                       | 11,657                       | 29                                  | 794                    | 6,303  |
| Pennsylvania.....                             | 5              | 2                                  | 126            | 712               | 103                | 245               | 529             | 1,137  | 539                         | 1,570                        | (D)                                 | (2)                    | (2)  |
| Ohio.....                                     | 9              | 4                                  | 1,690          | 10,838            | 960                | 1,962             | 5,420           | 20,270   | 11,046                      | 30,990                       | 575                                 | 1,423                  | 14,431   |
| Illinois.....                                 | 14             | 10                                 | 1,078          | 6,044             | 732                | 1,434             | 3,251           | 13,043   | 6,840                       | 19,657                       | 282                                 | 1,108                  | 10,520   |
| South and West.....                           | 24             | 6                                  | 344            | 2,452             | 247                | 514               | 1,678           | 4,548  | 2,601                       | 7,189                        | 69                                  | (2)                    | (2)  |
| California.....                               | 11             | 5                                  | 274            | 2,028             | 199                | 409               | 1,416           | 3,732  | 2,150                       | 5,914                        | 66                                  | (2)                    | (2)  |
| INDUSTRY 3579.—OFFICE MACHINES, N.E.C.        |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| Total.....                                    | 161            | 75                                 | 16,980         | 104,053           | 11,616             | 22,996            | 63,258          | 224,654  | 126,658                     | 349,210                      | 16,257                              | 15,625                 | 173,424  |
| New England.....                              | 20             | 10                                 | 4,270          | 27,757            | 3,007              | 6,187             | 17,957          | 59,470   | 23,669                      | 83,731                       | 2,715                               | 4,372                  | 48,258   |
| Connecticut.....                              | 11             | 6                                  | 3,547          | 23,817            | 2,454              | 5,021             | 15,342          | 51,303   | 17,282                      | 69,450                       | 2,010                               | (2)                    | (2)  |
| Middle Atlantic.....                          | 48             | 18                                 | 3,187          | 16,986            | 2,497              | 4,996             | 11,726          | 29,495   | 18,268                      | 47,455                       | 916                                 | 3,113                  | 24,194   |
| New York.....                                 | 29             | 11                                 | 1,866          | 9,475             | 1,494              | 3,053             | 6,743           | 17,531   | 11,479                      | 28,861                       | 567                                 | 1,674                  | 14,507   |
| New Jersey.....                               | 13             | 5                                  | 1,208          | 6,893             | 912                | 1,766             | 4,573           | 10,675   | 5,846                       | 16,355                       | 281                                 | 1,103                  | 7,738  |
| Pennsylvania.....                             | 6              | 2                                  | 113            | 618               | 91                 | 177               | 410             | 1,289  | 943                         | 2,239                        | 68                                  | 336                    | 1,949  |
| North Central.....                            | 53             | 28                                 | 8,220          | 52,815            | 5,135              | 9,801             | 29,568          | 125,940  | 78,864                      | 202,534                      | 11,607                              | 7,395                  | 94,349   |
| Michigan.....                                 | 7              | 3                                  | 439            | 2,516             | 294                | 527               | 1,352           | 3,122  | 3,704                       | 6,634                        | 58                                  | (2)                    | (2)  |
| Minnesota.....                                | 5              | 3                                  | 140            | 715               | 122                | 266               | 567             | 1,646  | 892                         | 2,567                        | 25                                  | (2)                    | (2)  |
| South and West.....                           | 40             | 19                                 | 1,303          | 6,495             | 977                | 2,012             | 4,007           | 9,749  | 5,857                       | 15,490                       | 1,019                               | 745                    | 6,623  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.  
 SIC 3571, Computing and Related Machines: New England—New Hampshire, 1 (1-19); Vermont, 2 (20-99); Rhode Island, 1 (1-19); Connecticut, 2 (250-499); East North Central—Ohio, 5 (14,908); Indiana, 2 (20-99); Illinois, 11 (1,000-2,499); Michigan, 14 (5,000-9,999); Wisconsin, 2 (250-499); West North Central—Minnesota, 16 (10,000 and over); Kansas, 1 (1-19); South Atlantic—Virginia, 4 (1,000-2,499); North Carolina, 2 (20-99); South Carolina, 2 (250-499); Florida, 3 (1,000-2,499); West South Central—Arkansas, 1 (250-499); Louisiana, 1 (20-99); Oklahoma, 1 (20-99); Texas, 5 (324); Mountain—Colorado, 5 (20-99); New Mexico, 1 (20-99); Arizona, 2 (2,500-4,999); Pacific—Washington, 2 (100-249); California, 64 (13,738).  
 SIC 3572, Typewriters: New England—Connecticut, 3 (5,000-9,999); Middle Atlantic—New Jersey, 1 (250-499); East North Central—Illinois, 1 (100-249); Michigan, 1 (100-249); West North Central—Missouri, 1 (500-999); South Atlantic—Virginia, 1 (1-19); East South Central—Kentucky, 1 (20-99); Mountain—Colorado, 1 (1-19); Pacific—California, 1 (20-99).  
 SIC 3576, Scales and Balances: New England—New Hampshire, 1 (1-19); Vermont, 3 (1,000-2,499); Massachusetts, 3 (100-249); Connecticut, 1 (1-19); Middle Atlantic—New Jersey, 9 (500-999); East North Central—Indiana, 2 (20-99); Michigan, 1 (1-19); Wisconsin, 2 (1-19); West North Central—Minnesota, 1 (1-19); Missouri, 3 (20-99); Nebraska, 1 (1-19); South Atlantic—Maryland, 2 (1-19); District of Columbia, 1 (1-19); Georgia, 1 (20-99); Florida, 2 (1-19); East South Central—Alabama, 1 (1-19); West South Central—Oklahoma, 1 (1-19); Texas, 2 (1-19); Mountain—Colorado, 1 (1-19); Utah, 1 (1-19); Pacific—Oregon, 1 (1-19).  
 SIC 3579, Office Machines, N.E.C.: New England—New Hampshire, 1 (100-249); Massachusetts, 7 (500-999); Rhode Island, 1 (1-19); East North Central—Ohio, 7 (3,315); Indiana, 1 (1-19); Illinois, 27 (4,244); Wisconsin, 1 (1-19); West North Central—Iowa, 1 (1-19); Missouri, 3 (20-99); Kansas, 1 (1-19); South Atlantic—Maryland, 1 (20-99); District of Columbia, 2 (20-99); Virginia, 1 (20-99); North Carolina, 2 (250-499); South Carolina, 1 (20-99); Georgia, 3 (20-99); West South Central—Oklahoma, 1 (20-99); Texas, 6 (100-249); Mountain—Colorado, 1 (1-19); Arizona, 1 (1-19); Utah, 1 (1-19); Pacific—Washington, 3 (20-99); California, 17 (250-449).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.

TABLE 3. Detailed Statistics: 1963

| Item   | Computing and related machines (SIC 3571) | Typewriters (SIC 3572) | Scales and balances (SIC 3576) | Office machines, n.e.c. (SIC 3579) |
|--|---|------------------------|--------------------------------|------------------------------------|
| Primary product specialization ratio <sup>1</sup> .....        | .93                                       | .85                    | .92                            | .81                                |
| Coverage ratio <sup>2</sup> .....                              | .94                                       | .99                    | .97                            | .81                                |
| Establishments, total.....number..                             | 248                                       | 21                     | 85                             | 161                                |
| With 1 to 19 employees.....do....                              | 109                                       | 5                      | 50                             | 86                                 |
| With 20 to 99 employees.....do....                             | 59  | 4                      | 20                             | 47                                 |
| With 100 employees or more.....do....                          | 80  | 12                     | 15                             | 28                                 |
| Proprietors and working partners.....do....                    | 46  | -                      | 27                             | 41                                 |
| All employees (average for the year).....do....                | 96,370                                    | 18,023                 | 5,765                          | 16,980                             |
| Payroll (all employees), total for year.....\$1,000..          | 703,231                                   | 102,885                | 35,052                         | 104,053                            |
| Production workers:  |   |                        |                                |                                    |
| Average for the year.....number..                              | 58,985                                    | 13,940                 | 3,725                          | 11,616                             |
| March.....do....   | 58,614                                    | 14,397                 | 3,576                          | 11,440                             |
| May.....do....   | 57,551                                    | 13,866                 | 3,691                          | 11,613                             |
| August.....do....  | 58,472                                    | 13,739                 | 3,802                          | 11,588                             |
| November.....do....  | 61,289                                    | 13,754                 | 3,829                          | 11,843                             |
| Man-hours.....1,000..  | 119,521                                   | 27,076                 | 7,678                          | 22,996                             |
| January-March.....do....                                       | 30,323                                    | 7,207                  | 1,862                          | 5,952                              |
| April-June.....do....  | 29,904                                    | 6,992                  | 1,972                          | 6,000                              |
| July-September.....do....                                      | 27,060                                    | 5,980                  | 1,876                          | 5,362                              |
| October-December.....do....                                    | 32,234                                    | 6,900                  | 1,998                          | 5,682                              |
| Wages.....\$1,000..  | 369,459                                   | 71,068                 | 19,919                         | 63,258                             |
| Cost of materials, etc., total.....do....                      | 926,876                                   | 79,641                 | 35,298                         | 126,658                            |
| Materials, parts, containers, and supplies consumed.....do.... | 846,766                                   | 73,871                 | 32,049                         | 77,836                             |
| Cost of resales.....do....                                     | 42,942                                    | 2,951                  | 2,241                          | 44,042                             |
| Fuels consumed.....do....                                      | 3,267                                     | 984                    | 257                            | 750                                |
| Electric energy:   |   |                        |                                |                                    |
| Purchased:   |   |                        |                                |                                    |
| Quantity.....million kw.-hrs..                                 | 578                                       | 108                    | 23                             | 95                                 |
| Cost.....\$1,000..   | 6,951                                     | 1,426                  | 410                            | 1,336                              |
| Generated less sold.....million kw.-hrs..                      | (D)                                       | -                      | (D)                            | -                                  |
| Contract work.....\$1,000..                                    | 26,950                                    | 409                    | 341                            | 2,694                              |
| Value of shipments (including resales), total.....do....       | 2,019,714                                 | 315,385                | 98,491                         | 349,210                            |
| Value of resales.....do....                                    | 60,579                                    | 7,031                  | 2,472                          | 69,453                             |
| Value added by manufacture, adjusted.....do....                | 1,101,484                                 | 243,190                | 64,362                         | 224,654                            |
| Manufacturers' inventories:                                    |   |                        |                                |                                    |
| Beginning of year, total.....do....                            | 642,545                                   | 57,072                 | 22,394                         | 86,684                             |
| Finished products.....do....                                   | 115,891                                   | 9,981                  | 6,135                          | 40,250                             |
| Work-in-process.....do....                                     | 452,511                                   | 38,934                 | 11,813                         | 34,704                             |
| Materials, supplies, fuel, etc.....do....                      | 74,143                                    | 8,157                  | 4,446                          | 11,730                             |
| End of year, total.....do....                                  | 653,536                                   | 65,187                 | 24,045                         | 89,814                             |
| Finished products.....do....                                   | 114,303                                   | 13,191                 | 7,100                          | 41,509                             |
| Work-in-process.....do....                                     | 463,015                                   | 43,170                 | 12,017                         | 35,547                             |
| Materials, supplies, fuel, etc.....do....                      | 76,218                                    | 8,826                  | 4,928                          | 12,758                             |
| Expenditures for plant and equipment, total.....do....         | 101,328                                   | 9,603                  | 1,177                          | 16,612                             |
| New, total.....do....  | 92,628                                    | 9,576                  | 1,149                          | 16,257                             |
| New structures and additions to plant.....do....               | 13,486                                    | 1,851                  | 97                             | 6,121                              |
| New machinery and equipment.....do....                         | 79,142                                    | 7,725                  | 1,052                          | 10,136                             |
| Used plant and equipment.....do....                            | 8,700                                     | 27                     | 28                             | 355                                |
| Selected operating ratios:                                     |   |                        |                                |                                    |
| Payroll/Total employment.....                                  | 7,298                                     | 5,709                  | 6,080                          | 6,128                              |
| Production workers/Total employment.....                       | .61                                       | .77                    | .65                            | .68                                |
| Man-hours/Production workers.....                              | 2,026                                     | 1,942                  | 2,061                          | 1,980                              |
| Production worker wages/Man-hours.....                         | 3.09                                      | 2.62                   | 2.59                           | 2.75                               |
| Cost of materials and payrolls/Total value of shipments....    | .81                                       | .58                    | .71                            | .66                                |
| Cost of materials/Total value of shipments.....                | .46                                       | .25                    | .36                            | .36                                |
| Adjusted value added/Total employment.....                     | 11,430                                    | 13,493                 | 11,164                         | 13,231                             |
| Salaries and wages/Adjusted value added.....                   | .64                                       | .42                    | .54                            | .46                                |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry total shipments of such products by all manufacturing establishments.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item   | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| <b>INDUSTRY 3571.—COMPUTING AND RELATED MACHINES</b> |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                          | 248                   | 54                                 | 23               | 32                 | 36                 | 23                 | 25                   | 24                   | 10                   | 11                       | 10                       |
| All employees:                                       |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                     | 96,370                | 76                                 | 151              | 448                | 1,139              | 1,622              | 3,988                | 8,792                | 7,592                | 16,965                   | 55,597                   |
| Payroll.....\$1,000..                                | 703,231               | 544                                | 1,118            | 2,908              | 7,100              | 11,683             | 26,312               | 54,416               | 42,212               | 113,598                  | 443,340                  |
| Value added, adjusted.....do....                     | 1,101,484             | 1,353                              | 1,874            | 5,373              | 10,971             | 19,662             | 43,237               | 89,421               | 122,933              | 245,750                  | 560,910                  |
| Value of shipments.....do....                        | 2,019,714             | 1,731                              | 2,760            | 7,288              | 18,498             | 29,349             | 61,800               | 141,158              | 247,757              | 370,811                  | 1,138,562                |
| Capital expenditures, new...do....                   | 92,628                | 62                                 | 94               | 211                | 464                | 747                | 2,112                | 4,405                | 3,292                | 36,627                   | 44,614                   |
| <b>INDUSTRY 3572.—TYPEWRITERS</b>                    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                          | 21                    | 2                                  | 1                | 2                  | 4                  | -                  | 2                    | 1                    | 2                    | 4                        | 3                        |
| All employees:                                       |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                     | 18,023                | 41                                 | (D)              | (D)                | 421                | -                  | (D)                  | 1,901                | (D)                  | 6,417                    | 9,243                    |
| Payroll.....\$1,000..                                | 102,885               | 160                                | (D)              | (D)                | 4,750              | -                  | (D)                  | 9,075                | (D)                  | 32,408                   | 58,867                   |
| Value added, adjusted.....do....                     | 243,190               | 364                                | (D)              | (D)                | 2,083              | -                  | (D)                  | 27,861               | (D)                  | 79,516                   | 133,366                  |
| Value of shipments.....do....                        | 315,385               | 562                                | (D)              | (D)                | 3,869              | -                  | (D)                  | 32,472               | (D)                  | 102,027                  | 176,455                  |
| Capital expenditures, new...do....                   | 9,576                 | 22                                 | (D)              | (D)                | 53                 | -                  | (D)                  | 503                  | (D)                  | 1,664                    | 7,334                    |
| <b>INDUSTRY 3576.—SCALES AND BALANCES</b>            |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                          | 85                    | 32                                 | 9                | 9                  | 14                 | 6                  | 10                   | 2                    | 2                    | 1                        | -                        |
| All employees:                                       |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                     | 5,765                 | 46                                 | 57               | 117                | 489                | 406                | 1,573                | 3,077                | (D)                  | (D)                      | -                        |
| Payroll.....\$1,000..                                | 35,052                | 328                                | 339              | 812                | 3,002              | 2,634              | 9,186                | 18,751               | (D)                  | (D)                      | -                        |
| Value added, adjusted.....do....                     | 64,362                | 659                                | 803              | 1,499              | 5,444              | 4,299              | 21,465               | 30,193               | (D)                  | (D)                      | -                        |
| Value of shipments.....do....                        | 98,491                | 1,021                              | 1,226            | 2,670              | 9,471              | 6,779              | 32,642               | 44,682               | (D)                  | (D)                      | -                        |
| Capital expenditures, new...do....                   | 1,149                 | 13                                 | 10               | 13                 | 93                 | 126                | 436                  | 458                  | (D)                  | (D)                      | -                        |
| <b>INDUSTRY 3579.—OFFICE MACHINES, N.E.C.</b>        |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                          | 161                   | 44                                 | 21               | 21                 | 29                 | 18                 | 12                   | 9                    | 3                    | 3                        | 1                        |
| All employees:                                       |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                     | 16,980                | 55                                 | 133              | 282                | 925                | 1,237              | 2,077                | 2,892                | 1,984                | 7,395                    | (D)                      |
| Payroll.....\$1,000..                                | 104,053               | 299                                | 822              | 1,515              | 5,149              | 6,758              | 11,169               | 16,662               | 10,484               | 51,195                   | (D)                      |
| Value added, adjusted.....do....                     | 224,654               | 732                                | 1,306            | 2,371              | 8,443              | 12,087             | 21,708               | 23,256               | 17,789               | 136,962                  | (D)                      |
| Value of shipments.....do....                        | 349,210               | 1,188                              | 2,097            | 4,548              | 14,650             | 19,457             | 33,002               | 38,744               | 29,808               | 205,716                  | (D)                      |
| Capital expenditures, new...do....                   | 16,257                | 466                                | (D)              | 162                | 423                | 614                | 939                  | 818                  | 504                  | 12,331                   | (D)                      |

- Represents zero.  
 (D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left. n.e.c. Not elsewhere classified.  
<sup>1</sup>Includes capital expenditures for plants under construction but not in operation of approximately \$200-\$500 thousand.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|---|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |   | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |   | ((\$1,000))        | ((\$1,000))      | ((\$1,000))        | ((\$1,000))            | Col. B<br>Col. B+C<br>(percent)      | ((\$1,000))                        | ((\$1,000))           | ((\$1,000))              | Col. B<br>Col. F<br>(percent) |
|           |   | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3571      | Computing and related machines...1963.. | 2,019,714          | 1,752,266        | 122,371            | 145,077                | 93                                   | 1,858,501                          | 1,752,266             | 106,235                  | 94                            |
|           | 1958..                                  | 1,104,194          | 944,581          | 65,626             | 93,987                 | 94                                   | 1,038,802                          | 944,581               | 94,221                   | 91                            |
| 3572      | Typewriter.....1963..                   | 315,385            | 261,947          | 45,137             | 8,301                  | 85                                   | 265,456                            | 261,947               | 3,509                    | 99                            |
|           | 1958..                                  | 238,173            | 188,021          | 41,118             | 9,034                  | 82                                   | 188,556                            | 188,021               | 535                      | 99                            |
| 3576      | Scales and balances.....1963..          | 98,491             | 87,215           | 7,342              | 3,934                  | 92                                   | 90,024                             | 87,215                | 2,809                    | 97                            |
|           | 1958..                                  | 78,335             | 68,565           | 7,122              | 2,648                  | 91                                   | 70,992                             | 68,565                | 2,427                    | 97                            |
| 3579      | Office machines, n.e.c.....1963..       | 349,210            | 222,651          | 51,038             | 75,521                 | 81                                   | 275,806                            | 222,651               | 53,155                   | 81                            |
|           | 1958..                                  | 264,513            | 180,416          | 33,510             | 50,587                 | 84                                   | 211,205                            | 180,416               | 30,789                   | 85                            |

Note: See Introduction for an explanation of terms used.  
 n.e.c. Not elsewhere classified.

**TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963**

In thousands of dollars except for ranges (shown in parentheses) which are expressed in millions of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous

receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code | Class of products and miscellaneous receipts   | All industries | Computing and related machines (SIC 3571) | Other industries | Prod. class code | Class of products and miscellaneous receipts   | All industries        | Computing and related machines (SIC 3571) | Other industries        |
|------------------|--|----------------|---|------------------|------------------|--|-----------------------|---|-------------------------|
|                  | <b>COMPUTING AND RELATED MACHINES INDUSTRY</b>   |                |   |                  |                  | <b>COMPUTING AND RELATED MACHINES INDUSTRY—Continued</b>   |                       |   |                         |
|                  | Total shipments and receipts of the industry.....  | (X) 2,019,714  |   | (X)              | 35712            | Listing of other industries with over \$2 million shipments of primary products—continued:                               |                       |   |                         |
|                  | Primary products, total.....   | 1,858,501      | 1,752,266                                 | 106,235          |                  | 2542 Metal Partitions and Fixtures.....  | (X)                   | (X)                                       | (over 2)                |
| 35711            | Electronic data processing machines, and associated equipment, except typewriters.....   | 879,600        | 837,923                                   | 41,677           |                  | 3572 Typewriters.....  | (X)                   | (X)                                       | 20,266                  |
| 35712            | Computing and accounting machines, including cash registers.....   | 970,255        | 905,800                                   | 64,455           |                  | 3579 Office Machines, N.E.C.....   | (X)                   | (X)                                       | 2,420                   |
| 35710            | Computing and related machines, n.e.c.....   | 8,646          | 8,543                                     | 103              |                  | 3662 Radio, T.V. Communications Equipment, N.E.C.....  | (X)                   | (X)                                       | 16,868                  |
|                  | Secondary products, total.....   | (X)            | 122,371                                   | (X)              |                  | 3679 Electronic Components, N.E.C.....   | (X)                   | (X)                                       | (2-5)                   |
| 19990            | Ordnance and accessories, n.e.c..  | (X)            | (2-5)                                     | (X)              |                  | 3729 Aircraft Equipment, N.E.C...  | (X)                   | (X)                                       | 3,985                   |
| 27526            | Other commercial printing.....   | (X)            | (2-5)                                     | (X)              |                  | 3821 Mechanical Measuring Devices.....   | (X)                   | (X)                                       | 4,245                   |
| 35790            | Addressing, dictating, duplicating, and office machines, n.e.c.....  | (X)            | (5-10)                                    | (X)              |                  |  |                       |   |                         |
| 36621            | Commercial, industrial, and military electronic communication equipment (except broadcast equipment, space satellite-borne communications equipment (complete package))..... | (X)            | (20-50)                                   | (X)              |                  |  | <b>All industries</b> | <b>Typewriters (SIC 3572)</b>             | <b>Other industries</b> |
| 36624            | Electronic navigational aids (except missile-borne and space vehicle basin equipment).....   | (X)            | (2-5)                                     | (X)              | 35720            | Total shipments and receipts of the industry.....  | (X)                   | 315,385                                   | (X)                     |
| 36793            | Resistors for electronic applications.....   | (X)            | (2-5)                                     | (X)              |                  | Typewriters and parts.....   | 265,456               | 261,947                                   | 3,509                   |
| 36795            | Other electronic components and accessories, n.e.c., including parts for electron tubes (except glass blanks).....   | (X)            | (over 2)                                  | (X)              | 35712            | Secondary products, total.....   | (X)                   | 45,137                                    | (X)                     |
| 38213            | Industrial process instruments... Carbon paper, stencil paper, and inked ribbons.....  | (X)            | (2-5)                                     | (X)              | 35711            | Computing and accounting machines, including cash registers.....   | (X)                   | 20,266                                    | (X)                     |
| 39550            |  | (X)            | (2-5)                                     | (X)              |                  | Other secondary products, total... Electronic data processing machines and associated equipment, except typewriters..... | (X)                   | 24,871                                    | (X)                     |
|                  | Miscellaneous receipts, total.....   | (X)            | 145,077                                   | (X)              | 35552            | Other printing trades machinery.....   | (X)                   | (over 2)                                  | (X)                     |
|                  | Contract and commission work....   | (X)            | 4,691                                     | (X)              | 39550            | Carbon paper, stencil paper, and inked ribbons.....  | (X)                   | (2-5)                                     | (X)                     |
|                  | Sales of products bought and resold.....   | (X)            | 60,579                                    | (X)              |                  | Miscellaneous receipts, total.....   | (X)                   | 8,301                                     | (X)                     |
|                  | Scrap and salable refuse.....  | (X)            | 951                                       | (X)              |                  | Sales of products bought and resold.....   | (X)                   | 7,031                                     | (X)                     |
|                  | Research and development work....  | (X)            | 36,279                                    | (X)              |                  | Other miscellaneous receipts.....  | (X)                   | 1,270                                     | (X)                     |
|                  | Miscellaneous repair work.....   | (X)            | 1,660                                     | (X)              |                  |  | <b>All industries</b> | <b>Scales and balances (SIC 3576)</b>     | <b>Other industries</b> |
|                  | Other miscellaneous receipts.....  | (X)            | 40,917                                    | (X)              |                  |  |                       |   |                         |
|                  | Listing of other industries with over \$2 million shipments of primary products:   |                |   |                  |                  | <b>SCALES AND BALANCES INDUSTRY</b>  |                       |   |                         |
| 35711            | 3572 Typewriters.....  | (X)            | (X)                                       | (over 2)         |                  | Total shipments and receipts of the industry.....  | (X)                   | 98,491                                    | (X)                     |
|                  | 3579 Office Machines, N.E.C.....   | (X)            | (X)                                       | (over 2)         | 35760            | Scales and balances, except laboratory.....  | 90,024                | 87,215                                    | 2,809                   |
|                  | 3611 Electric Measuring Instruments.....   | (X)            | (X)                                       | (over 2)         |                  | Secondary products, total.....   | (X)                   | 7,342                                     | (X)                     |
|                  | 3662 Radio, T.V. Communications Equipment.....   | (X)            | (X)                                       | 27,174           | 34443            | Other sheet metal work.....  | (X)                   | (2-5)                                     | (X)                     |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code | Class of products and miscellaneous receipts                        | All industries | Scales and balances (SIC 3576)     | Other industries | Prod. class code | Class of products and miscellaneous receipts  | All industries | Office machines, n.e.c. (SIC 3579) | Other industries |
|------------------|---|----------------|------------------------------------|------------------|------------------|---|----------------|------------------------------------|------------------|
|                  | SCALES AND BALANCES INDUSTRY—<br>Continued                          |                |                                    |                  |                  | OFFICE MACHINES N.E.C.<br>INDUSTRY—Continued  |                |                                    |                  |
|                  | Miscellaneous receipts, total.....                                  | (X)            | 3,934                              | (X)              |                  | Secondary products continued:   |                |                                    |                  |
|                  | Contract and commission work.....                                   | (X)            | 469                                | (X)              | 28930            | Other secondary products.....   | (X)            | 41,501                             | (X)              |
|                  | Sales of products bought and resold.....                            | (X)            | 2,472                              | (X)              | 35711            | Printing ink.....   | (X)            | (2-5)                              | (X)              |
|                  | Other miscellaneous receipts.....                                   | (X)            | 993                                | (X)              |                  | Electronic data processing machines and associated equipment, except typewriters..... | (X)            | (over 2)                           | (X)              |
|                  |   |                |                                    |                  | 39550            | Carbon paper, stencil paper, and inked ribbons.....                                   | (X)            | (10-20)                            | (X)              |
|                  |   | All industries | Office machines, n.e.c. (SIC 3579) | Other industries |                  | Miscellaneous receipts, total.....  | (X)            | 75,521                             | (X)              |
|                  | OFFICE MACHINES N.E.C., INDUSTRY                                    |                |                                    |                  |                  | Contract and commission work.....   | (X)            | 1,495                              | (X)              |
|                  | Total shipments and receipts of the industry.....                   | (X)            | 349,210                            | (X)              |                  | Sales of products bought and resold.....  | (X)            | 69,453                             | (X)              |
| 35790            | Addressing, dictating, duplicating, and office machines, n.e.c..... | 275,806        | 222,651                            | 53,155           | 35790            | Receipts for repair work.....   | (X)            | 1,865                              | (X)              |
|                  | Secondary products, total.....                                      | (X)            | 51,038                             | (X)              |                  | Other miscellaneous receipts.....   | (X)            | 2,708                              | (X)              |
| 35712            | Computing and accounting machines including cash registers.....     | (X)            | 2,420                              | (X)              |                  | Listing of other industries with over 2 million shipments of primary products:        |                |                                    |                  |
| 34819            | Other fabricated wire products not produced by wire drawers....     | (X)            | 7,117                              | (X)              |                  | 3315 Steel Wire Drawing, etc.....   | (X)            | (X)                                | 6,729            |
|                  |   |                |                                    |                  |                  | 3552 Textile Machinery.....   | (X)            | (X)                                | (2-5)            |
|                  |   |                |                                    |                  |                  | 3555 Printing Trades Machinery...   | (X)            | (X)                                | (2-5)            |
|                  |   |                |                                    |                  |                  | 3571 Computing and Related Machines.....  | (X)            | (X)                                | (5-10)           |
|                  |   |                |                                    |                  |                  | 3871 Watches and Clocks.....  | (X)            | (X)                                | (5-10)           |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code         | Product   | Total shipments including interplant transfers |                      |                               |                      |
|----------------------|---|--|----------------------|-------------------------------|----------------------|
|                      |   | 1963   |                      | 1958                          |                      |
|                      |   | Quantity<br>(number of units)                  | Value<br>(\$1,000)   | Quantity<br>(number of units) | Value<br>(\$1,000)   |
| 3571- --             | COMPUTING AND RELATED MACHINES, TOTAL.....  | (X)  | 1,858,501            | (X)                           | 1,038,802            |
| 35711 --             | Electronic data processing machines, and associated equipment, except typewriters:  |  |                      |                               |                      |
|                      | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 879,600              | (X)                           | 324,299              |
|                      | As reported on Census Form MA-35R, total <sup>1</sup> .....   | (X)  | 861,956              | (X)                           | 319,057              |
|                      | Digital: <sup>2</sup>   |  |                      |                               |                      |
| 35711 01             | General purpose.....  | (NA)   | 774,227              | <sup>3</sup> 3,180            | 297,635              |
| 35711 02             | All other.....  | (NA)   | 47,998               | (NA)                          |                      |
| 35711 03, 04         | Analog <sup>2</sup> .....   | (NA)   | 39,731               | <sup>3</sup> 343              | 21,422               |
| 35712 --             | Computing and accounting machines, including cash registers, total.....   | (X)  | 970,255              | (X)                           | 708,681              |
|                      | Products included in the census of manufactures and on Census Annual Form MA-35R:   |  |                      |                               |                      |
| 35712 12             | As reported on the census of manufactures <sup>1</sup> .....  | (X)  | 850,011              | (X)                           | 642,353              |
|                      | As reported on Census Form MA-35R, total <sup>1</sup> .....   | (X)  | 839,011              | (X)                           | 646,178              |
| 35712 01             | Accounting and bookkeeping machines <sup>4</sup> .....  | (X)  | 293,928              | 40,373                        | 103,861              |
| 35712 11, 12         | Punched card systems and cash registers <sup>5</sup> .....  | (X)  |                      | (X)                           | 194,398              |
|                      | Adding machines:  |  |                      |                               |                      |
| 35712 21, 22         | 10 Keyboard (hand and electric).....  | 242,511  | 27,577               | 210,241                       | 30,224               |
| 35712 23             | Full keyboard hand.....   | 34,715   | 2,819                | 45,854                        | 3,935                |
| 35712 24             | Full keyboard electric.....   | 51,149   | 12,125               | 62,972                        | 10,648               |
|                      | Calculating machines:   |  |                      |                               |                      |
| 35712 32             | Rotary electric calculating machines.....   | 56,305   | 31,828               | 63,549                        | 33,491               |
| 35712 31, 33, 34, 35 | Other (including key-driven electric, rotary hand, key-driven hand, and printing calculators).....  | 63,086   | 21,272               | 35,419                        | 14,709               |
| 35712 41             | Coin and currency handling machines <sup>6</sup> .....  | 17,404   | 5,777                | (X)                           | 6,211                |
| 35712 61, 62, 63, 64 | Coded (stored) media data processing machines, other than punched card, sold separately (including accounting, bookkeeping and billing machines, with or without cash registers, key operated; adding machines, calculating machines; and coded (stored) media data processing machines, n.e.c..... | 35,340   | 99,641               | 12,451                        | 26,673               |
| 35712 75             | Parts and attachments shipped by establishments manufacturing complete office, computing, and accounting machines.....  | (X)  | 314,234              | (X)                           | 176,193              |
| 35712 80, 95         | Rebuilt computing and accounting machines; rebuilt cash registers; and other computing machines and calculating devices, n.e.c.....   | (X)  | 29,810               | (X)                           | 45,835               |
| 35712 96, 97         | Parts and attachments shipped by establishments not manufacturing complete office, computing, and accounting machines; and other computing and related machines not included on Census Annual Form MA-35R <sup>7</sup> .....  | (X)  | 120,244              | (X)                           | 66,328               |
| 35710 00             | Computing and related machines, n.s.k.....  | (X)  | 8,646                | (X)                           | 5,822                |
| 3572- --             | TYPEWRITERS AND PARTS, TOTAL.....   | (X)  | 265,456              | (X)                           | 188,556              |
|                      | Total, excluding parts and attachments produced by other than complete machine manufactures:  |  |                      |                               |                      |
|                      | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | <sup>8</sup> 263,781 | (X)                           | <sup>8</sup> 187,450 |
|                      | As reported on Census Annual Form MA-35R <sup>1</sup> .....   | (X)  | <sup>9</sup> 260,390 | (X)                           | <sup>9</sup> 183,612 |
|                      | Standard (nonportable):   |  |                      |                               |                      |
| 35720 01             | Electric.....   | 447,671  | 123,942              | 199,613                       | 55,388               |
| 35720 02             | Manual.....   | 355,626  | 49,560               | 354,042                       | 48,497               |
| 35720 05- 11         | Standard (portable), and specialized typewriters <sup>10</sup> .....  | 503,262  | 70,631               | 669,853                       | 61,011               |
| 35720 15             | Parts and attachments for typewriters.....  | (X)  | 16,257               | (X)                           | 18,716               |
| 35720 98             | Parts and attachments for typewriters produced by other than complete machine manufacturers.....  | (X)  | 1,675                | (X)                           | 1,106                |
| 3576- --             | SCALES AND BALANCES, EXCEPT LABORATORY.....   | (X)  | 90,024               | (X)                           | 70,992               |
| 35760 11             | Railroad track and motor truck scales.....  | 3,040  | 12,146               | (NA)                          | 6,477                |
|                      | Industrial scales:  |  |                      |                               |                      |
| 35760 21             | Bench and portable.....   | (X)  | 6,319                | (X)                           | 6,988                |
| 35760 23             | Floor scales (including built-in and dormant).....  | (X)  | 3,801                | (X)                           | 2,961                |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code             | Product   | Total shipments including interplant transfers |                    |                               |                    |
|--------------------------|---|--|--------------------|-------------------------------|--------------------|
|                          |   | 1963   |                    | 1958                          |                    |
|                          |   | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 3576--                   | SCALES AND BALANCES, EXCEPT LABORATORY--Continued   |  |                    |                               |                    |
|                          | Industrial scales:  |  |                    |                               |                    |
| 35760 25                 | Predetermined weighing and check weighing scales, all types (except automatic bulk material weighers, fillers, and batching proportioners)...   | (X)  | 8,693              | (X)                           | 11,695             |
| 35760 27                 | Automatic bulk material weighers, predetermined weight type, for weighing, filling, batching and proportioning.....   | (X)  | 6,024              |                               |                    |
| 35760 29                 | Miscellaneous industrial scales (including special purpose, crane, suspension, tank, hopper, force measuring devices, and conveyor scales-weigh and feed for bulk materials).....     | (X)  | 10,242             |                               |                    |
|                          | Retail and commercial scales:   |  |                    |                               |                    |
| 35760 31                 | Computing.....  | (NA)   | 12,122             | 29,000                        | 11,627             |
| 35760 35                 | Miscellaneous (including noncomputing counter, cotton beams and steel yards, egg-grading scales, and hanging scales for retail use).....  | (X)  | 2,487              | (X)                           | 1,329              |
|                          | Household and person-weighing scales:   |  |                    |                               |                    |
| 35760 41                 | Bathroom.....   | 3,470,000                                      | 11,002             | 2,936,000                     | 10,884             |
| 35760 43                 | Person-weighing scales, coin-operated and free weighing, except baby scales.....  | 32,000   | 1,130              | 24,000                        | 1,293              |
| 35760 48                 | Miscellaneous (kitchen, baby scales, etc.).....   | (X)  | 1,185              | (X)                           | 1,429              |
| 35760 51                 | Mailing and parcel post scales.....   | 326,000  | 2,891              | 126,000                       | 2,025              |
| 35760 82                 | Accessories and attachments (sold separately).....  | (X)  | 2,599              | (X)                           | 4,881              |
| 35760 84                 | Parts for scales and balances (sold for assembly elsewhere, repair, service, etc.).....   | (X)  | 5,947              |                               |                    |
| 35760 00                 | Scales and balances, except laboratory, n.s.k.....  | (X)  | 3,436              | (X)                           | 2,159              |
| 3579--                   | OFFICE MACHINES, N.E.C., TOTAL.....   | (X)  | 275,806            | (X)                           | 211,205            |
|                          | Products included in the census of manufactures and on Census Annual Form MA-35R:   |  |                    |                               |                    |
| 35790 10                 | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 246,908            | (X)                           | 183,227            |
|                          | As reported on Census Annual Form MA-35R, total <sup>1</sup> .....  | (X)  | 250,407            | (X)                           | 184,452            |
|                          | Duplicating machines:   |  |                    |                               |                    |
|                          | Spirit machines:  |  |                    |                               |                    |
| 35790 11                 | Hand.....   | 21,756   | 2,721              | 21,118                        | 2,696              |
| 35790 12                 | Electric.....   | 14,062   | 3,997              | 6,667                         | 2,593              |
| 35790 16                 | Offset.....   | 11,815   | 23,405             | 9,806                         | 15,572             |
| 35790 13, 14             | Stencil machines (hand and electric).....   | 36,800   | 5,617              | 59,162                        | 5,508              |
| 35790 15, 17             | Gelatin and other type machines, including ribbon and ink.....  |  |                    | 11,248                        | 1,669              |
| 35790 19                 | Parts and attachments for duplicating machines shipped by establishments manufacturing complete duplicating machines.....   |  |                    | (X)                           | 11,014             |
|                          | Office machines, n.e.c.:  |  |                    |                               |                    |
| 35790 27                 | Autographic registers.....  | 103,906  | 1,768              | 101,376                       | 1,389              |
| 35790 29                 | Dictating machines <sup>11</sup> .....  | 130,147  | 31,081             | 91,419                        | 20,546             |
| 35790 31                 | Check handling machines <sup>12</sup> .....   | 132,061  | 24,497             | 110,478                       | 13,118             |
| 35790 33                 | Time recording and time stamp machines, including watchmen's clocks.....  | 80,975   | 9,111              | (NA)                          | 11,257             |
| 35790 21, 22, 23, 24, 25 | Other office, computing, and accounting machines, n.e.c. <sup>13</sup> .....  | (X)  | 104,379            | (X)                           | 88,030             |
| 35790 35                 | Parts and attachments for office machines, n.e.c., except duplicating machine parts, shipped by establishments manufacturing complete office, computing, and accounting machines..... | (X)  | 32,817             | (X)                           | 16,135             |
| 35790 91                 | Parts and attachments shipped by establishments not manufacturing complete office machines, n.e.c.....  | (X)  | 19,779             | (X)                           | 18,570             |
| 35790 00                 | Office machines, n.e.c., n.s.k.....   | (X)  | 9,119              | (X)                           | 9,408              |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>For these products, data were also collected on Annual Form MA-35R, "Office, Computing and Accounting Machines." In lieu of asking for detailed statistics on these products in the census of manufactures, respondents were asked to report only value of shipments for specified classes of products for which separate figures had previously been collected on the annual form. In most cases, the value figures reported in the census of manufactures for each class of products agreed closely with the corresponding figures reported in the annual survey. However, there were some differences between the census figures and the annual survey figures. These variations were due primarily to the following reasons:

- Use of different reporting periods (calendar year vs. fiscal year.)
- Use of different bases for reporting value (company sales vs. factory production.)
- Use of estimates in reporting data on the annual survey, whereas census of manufactures figures generally represent more exact shipments figures.

Footnotes continued on next page.

TABLE 6A. **Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued**

Footnotes for Table 6A-35F—Continued

- <sup>2</sup>Figures include in some cases leased machines as well as machines sold outright. For leased machines the value reported in most instances represents the value placed on such equipment for tax, insurance, or similar purposes.
- <sup>3</sup>Represents the number of complete systems.
- <sup>4</sup>Includes billing machines with accounting registers.
- <sup>5</sup>The number of cash registers shipped during 1963 and 1958 totaled 87,606 and 81,021, respectively.
- <sup>6</sup>Includes manual change makers, coin counting and sorting, currency counting, and payroll denominating machines.
- <sup>7</sup>Computing and related machines not included on Census Annual Form MA-35R consist primarily of automatic voting booths, electronic toll collecting equipment, and pari-mutual computing devices for racetracks.
- <sup>8</sup>Includes rebuilt typewriters for which separate data cannot be shown without disclosing figures of individual companies.
- <sup>9</sup>Data on typewriters are also published monthly in Current Industrial Reports Series M35C "Typewriters."
- <sup>10</sup>Includes coded (stored) media typewriters, continuous form handling machines, billing machines without accounting registers, office composing machines, stencil cutting typewriters, and reproduction typewriters.
- <sup>11</sup>Includes dictating, transcribing and recording machines (disc, wire, and tape) designed as office machines (conference recording, combination dictating and telephone recording, etc.) but excludes wire and tape recorders.
- <sup>12</sup>Includes cancelling, cutting, dating, endorsing, numbering, protecting, signing, sorting, and writing machines.
- <sup>13</sup>Includes addressing and plate embossing machines; postage meters and postal permit mailing machines; shorthand writing machines; rebuilt office, computing, and accounting machines, n.e.c.; staplers; tape dispensers; envelope opening and sealing machines; label gummers; and price marking machines, etc.

TABLE 6B. **Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958**

| Product code | Product and year                                  | Indexes (1954 = 100) |            |
|--------------|---|----------------------|------------|
|              |   | Production           | Unit value |
| 357          | Office machines, n.e.c.....1963..                 | (1)                  | (1)        |
|              | 1958..  | (1)                  | (1)        |
| 3571         | Computing and related machines.....1963..         | (1)                  | (1)        |
|              | 1958..  | (1)                  | (1)        |
| 3572         | Typewriters and parts.....1963..                  | 158                  | 119        |
|              | 1958..  | 116                  | 115        |
| 3576         | Scales and balances, except laboratory.....1963.. | (1)                  | (1)        |
|              | 1958..  | (1)                  | (1)        |
| 3579         | Office machines, n.e.c.....1963..                 | (1)                  | (1)        |
|              | 1958..  | (1)                  | (1)        |

n.e.c. Not elsewhere classified.

<sup>1</sup>Not shown because comparable quantity data were not obtained for a significant portion of these products.



TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class  | 1963                   | 1962 <sup>1</sup>      | 1961 <sup>1</sup>      | 1960 <sup>1</sup>      | 1959 <sup>1</sup>      | 1958                   | 1954      | 1947    |
|-------|--|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|-----------|---------|
| 3571  | Computing and related machines.....  | <sup>2</sup> 1,840,857 | <sup>2</sup> 1,676,847 | <sup>2</sup> 1,472,618 | <sup>2</sup> 1,297,183 | <sup>2</sup> 1,123,777 | <sup>2</sup> 1,033,560 | 482,729   | (NA)    |
| 35711 | Electronic data processing machines and associated equipment, except typewriters.. | <sup>3</sup> 861,956   | <sup>3</sup> 685,857   | <sup>3</sup> 545,507   | <sup>3</sup> 472,489   | <sup>3</sup> 317,673   | <sup>3</sup> 319,057   | } 482,729 | (NA)    |
| 35712 | Computing and accounting machines, including cash registers.....                   | 970,255                | 989,128                | 924,855                | 821,501                | 803,770                | 708,681                |           |         |
| 35710 | Computing and related machines, n.s.k.....   | 8,646                  | (1,862)                | (2,256)                | (3,193)                | (2,334)                | 5,822                  |           |         |
| 35720 | Typewriters and parts.....   | 265,456                | 243,643                | 212,906                | 218,160                | 206,456                | 188,556                | 141,677   | 140,163 |
| 35760 | Scales and balances, except laboratory.....  | 90,024                 | 70,037                 | 65,918                 | 65,863                 | 75,037                 | 70,992                 | 56,750    | 49,445  |
| 35790 | Addressing, dictating, duplicating, and office machines, n.e.c.....                | 275,806                | 278,739                | 266,220                | 243,607                | 222,182                | 211,205                | 159,239   | 110,554 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>These figures represent the sum of 5-digit product class data obtained from Current Industrial Reports Series M35R and the census of manufactures or the annual survey of manufactures.

<sup>3</sup>Source: Current Industrial Reports Series M35R "Office Computing and Accounting Machines."

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area   | Value of shipments | Product class and geographic area  | Value of shipments | Product class and geographic area   | Value of shipments |
|---|--------------------|--|--------------------|---|--------------------|
| ELECTRONIC DATA PROCESSING MACHINES, AND ASSOCIATED EQUIPMENT, EXCEPT TYPEWRITERS (35711) | 1963 <sup>1</sup>  | COMPUTING AND ACCOUNTING MACHINES, INCLUDING CASH REGISTERS (35712)—Con. | 1963 <sup>1</sup>  | ADDRESSING, DICTATING DUPLICATING AND OFFICE MACHINES, N.E.C. (35790)—Continued | 1963 <sup>1</sup>  |
| United States, total....  | 879,600            | Middle Atlantic.....   | 341,158            | Middle Atlantic.....  | 38,964             |
| Northeast.....  | 57,429             | New York.....  | 304,246            | New York.....   | 25,058             |
| Middle Atlantic.....  | 325,632            | New Jersey.....  | 16,084             | New Jersey.....   | 11,841             |
| North Central.....  | 209,315            | Pennsylvania.....  | 20,828             | Pennsylvania.....   | 2,065              |
| South.....  | 78,119             | East North Central.....  | 372,848            | East North Central.....   | 123,546            |
| Texas.....  | 4,295              | West North Central.....  | 101,224            | Ohio.....   | 59,958             |
| West.....   | 209,105            | South.....   | 34,512             | Illinois.....   | 53,361             |
|   |                    | West.....  | 91,698             | Michigan.....   | 9,845              |
| COMPUTING AND ACCOUNTING MACHINES, INCLUDING CASH REGISTERS (35712)                       |                    | ADDRESSING, DICTATING DUPLICATING AND OFFICE MACHINES, N.E.C. (35790)    |                    | West North Central.....   | 7,164              |
| United States, total....  | 970,255            | United States, total...  | 275,806            | Minnesota.....  | 6,113              |
| Northeast.....  | 28,815             | Northeast.....   | 82,809             | South.....  | 16,768             |
| Massachusetts.....  | 19,216             | Massachusetts.....   | 15,678             | District of Columbia....  | 1,054              |
| Connecticut.....  | 5,018              | Connecticut.....   | 61,720             | West.....   | 6,555              |
|   |                    |  |                    | California.....   | 6,028              |

n.e.c. Not elsewhere classified.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 35711, Massachusetts, Connecticut, New York, New Jersey, Pennsylvania, Ohio, Michigan, Wisconsin, Minnesota, Iowa, Virginia, Florida, Kentucky, Arizona, and California; 35712, Vermont, Ohio, Illinois, Michigan, Wisconsin, Minnesota, Maryland, Virginia, South Carolina, Florida, Kentucky, Arkansas, Washington, and California; 35790, New Hampshire, Rhode Island, North Carolina, Georgia, and Kentucky.

TABLE 7A. Materials by Kind: 1963 and 1958

| Code  | Material  | Unit of measure            | 1963     |                          | 1958     |                          |
|---|---|----------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                            | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3571.—COMPUTING AND RELATED MACHINES |   |                            |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....  |                            | (X)      | 846,766                  | (X)      | 469,376                  |
|   | Mill shapes and forms (except castings):  |                            |          |                          |          |                          |
|   | Carbon steel:   |                            |          |                          |          |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....            | 11,032   | 3,248                    | 12,609   | 3,687                    |
| 331012  | Sheet and strip.....  | .....do.....               | 22,944   | 5,571                    | 25,411   | 6,080                    |
| 331015  | Structural shapes.....  | .....do.....               | 1,409    | 360                      | 2,434    | 545                      |
| 331017  | Wire and wire products.....   | .....do.....               | 228      | 289                      | 955      | 1,024                    |
| 331019  | All other carbon steel mill shapes and forms.....   | .....do.....               | 2,114    | 729                      | 1,181    | 526                      |
| 331020  | Alloy steel (except stainless).....   | .....do.....               | 2,507    | 2,046                    | 1,365    | 882                      |
| 331031  | Stainless steel.....  | .....do.....               | 804      | 1,219                    | 258      | 303                      |
|   | Copper and copper-base alloy:   |                            |          |                          |          |                          |
| 335728  | Bare wire for electrical conduction.....  | 1,000 lbs.....             | 5,719    | 4,387                    | (NA)     | (NA)                     |
| 335790  | Insulated wire and cable.....   | 1,000 lbs. copper content. |          |                          |          |                          |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.....             | 771      | 545                      | (NA)     | (NA)                     |
| 335123  | Plate, sheet, and strip (including military cups and discs)....                                       | .....do.....               | 2,381    | 2,937                    | (NA)     | (NA)                     |
| 335127  | Pipe and tube.....  | .....do.....               | 307      | 293                      | (NA)     | (NA)                     |
|   | Aluminum and aluminum-base alloy:   |                            |          |                          |          |                          |
| 335202  | Sheet, plate and foil.....  | .....do.....               | 1,937    | 1,384                    | 695      | 487                      |
| 335205  | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)                                       | .....do.....               | 1,580    | 1,115                    | 1,124    | 640                      |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | .....do.....               | 714      | 395                      |          |                          |
|   | Castings (rough and semifinished): <sup>1</sup>   |                            |          |                          |          |                          |
| 332300  | Steel.....  | Short tons.....            | 592      | 595                      | 298      | 246                      |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....             | 2,698    | 3,160                    | 1,379    | 1,141                    |
|   | Electric motors and generators: <sup>1</sup>  |                            |          |                          |          |                          |
|   | Fractional horsepower electric motors (under 1 hp.):  |                            |          |                          |          |                          |
| 362110  | Timing motors, synchronous and subsynchronous.....  | Number.....                | (NA)     | 1,613                    | 285,602  | 632                      |
| 362115  | Fractional horsepower electric motors.....  | .....do.....               | 353,246  | 7,920                    | 287,110  | 5,135                    |
| 362120  | Integral horsepower motors and generators (1 hp. and over).....                                       | .....do.....               | 12,982   | 4,072                    | 2,576    | 581                      |
|   | Bearings:   |                            |          |                          |          |                          |
| 356218  | Ball.....   | .....do.....               | (X)      | 3,146                    | (X)      | 2,000                    |
| 356228  | Roller.....   | .....do.....               | (X)      | 234                      |          |                          |
| 367010  | Electron tubes, except X-ray <sup>1</sup> .....   | 1,000.....                 | 1,071    | 2,452                    | (NA)     | (NA)                     |
| 367408  | Solid state semiconductors <sup>1</sup> .....   | .....do.....               | 257,243  | 100,830                  | (NA)     | (NA)                     |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                     | .....do.....               | (X)      | 673,941                  | (X)      | 437,817                  |
| 976000  | Materials and components, n.s.k. <sup>2</sup> .....   | .....do.....               | (X)      | 24,285                   | (X)      | 5,650                    |
| INDUSTRY 3572.—TYPEWRITERS                    |   |                            |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....  |                            | (X)      | 73,671                   | (X)      | 60,348                   |
|   | Mill shapes and forms (except castings):  |                            |          |                          |          |                          |
|   | Carbon steel:   |                            |          |                          |          |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....            | 5,864    | 1,464                    | 9,074    | 3,648                    |
| 331012  | Sheet and strip.....  | .....do.....               | 20,177   | 5,265                    | 13,044   | 2,955                    |
| 331017  | Wire and wire products.....   | .....do.....               | 1,678    | 350                      | 522      | 451                      |
| 331015  | Structural shapes.....  | .....do.....               | 759      | 301                      |          |                          |
| 331019  | All other carbon steel mill shapes and forms.....   | .....do.....               |          |                          |          |                          |
| 331020  | Alloy steel (except stainless).....   | .....do.....               | 512      | 297                      | 389      | 343                      |
| 331031  | Stainless steel.....  | .....do.....               | 122      | 166                      | 78       | 104                      |
|   | Copper and copper-base alloy:   |                            |          |                          |          |                          |
| 335790  | Insulated wire and cable.....   | 1,000 lbs. copper content. | (D)      | (D)                      | (NA)     | (NA)                     |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.....             | (D)      | (D)                      | (NA)     | (NA)                     |
| 335123  | Plate, sheet, and strip (including military cups and discs)....                                       | .....do.....               |          |                          |          |                          |
| 335127  | Pipe and tube.....  | .....do.....               |          |                          |          |                          |
|   | Aluminum and aluminum-base alloy:   |                            |          |                          |          |                          |
| 335205  | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)                                       | .....do.....               | 796      | 693                      | 1,125    | 935                      |
| 335202  | Sheet, plate, and foil.....   | .....do.....               | 569      | 253                      |          |                          |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar powder, welded tubing).....        | .....do.....               |          |                          |          |                          |
|   | Castings (rough and semifinished): <sup>1</sup>   |                            |          |                          |          |                          |
| 332300  | Steel.....  | Short tons.....            | 2,982    | 1,474                    | 1,824    | 827                      |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....             | 4,519    | 3,719                    | 3,665    | 2,676                    |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code                                   | Material  | Unit of measure            | 1963        |                          | 1958      |                          |       |     |  |
|--|---|----------------------------|-------------|--------------------------|-----------|--------------------------|-------|-----|--|
|  |   |                            | Quantity    | Delivered cost (\$1,000) | Quantity  | Delivered cost (\$1,000) |       |     |  |
| INDUSTRY 3572.—TYPEWRITERS—Continued   |   |                            |             |                          |           |                          |       |     |  |
| 362110                                 | Electric motors and generators: <sup>1</sup>  |                            |             |                          |           |                          |       |     |  |
|  | Fractional horsepower electric motors (under 1 hp.):  |                            |             |                          |           |                          |       |     |  |
| 362115                                 | Timing motors, synchronous and subsynchronous.....  | Number.....                | (D) 688,343 | (D) 4,106                | } 320,960 | 2,334                    |       |     |  |
|  | Fractional horsepower electric motors (except timing motors)...                                       | ...do.....                 |             |                          |           |                          |       |     |  |
| 356218                                 | Bearings:   |                            |             |                          |           |                          |       |     |  |
| 356228                                 | Ball.....   | .....                      | } (X)       | 530                      | (NA)      | (NA)                     |       |     |  |
|  | Roller.....   | .....                      |             |                          |           |                          |       |     |  |
| 367010                                 | Electron tubes, except X-ray <sup>1</sup> .....   | 1,000.....                 | (D)         | (D)                      | (NA)      | (NA)                     |       |     |  |
| 367408                                 | Solid state semiconductors <sup>1</sup> .....   | ...do.....                 | (D)         | (D)                      | (NA)      | (NA)                     |       |     |  |
| 970099                                 | All other materials and components, parts, containers, and supplies consumed.....                     | .....                      | (X)         | 53,742                   | (X)       | 45,960                   |       |     |  |
| 976000                                 | Materials and components, n.s.k.....  | .....                      | (X)         | 1,511                    | (X)       | 115                      |       |     |  |
| INDUSTRY 3576.—SCALES AND BALANCES     |   |                            |             |                          |           |                          |       |     |  |
|  | Materials, parts, containers, and supplies, total.....  | .....                      | (X)         | 32,049                   | (X)       | 26,147                   |       |     |  |
|  | Mill shapes and forms (except castings):  |                            |             |                          |           |                          |       |     |  |
|  | Carbon steel:   |                            |             |                          |           |                          |       |     |  |
| 331011                                 | Bars and bar shapes.....  | Short tons.....            | 2,098       | 536                      | 2,455     | 614                      |       |     |  |
| 331012                                 | Sheet and strip.....  | ..do.....                  | 22,545      | 3,465                    | 19,666    | 4,112                    |       |     |  |
| 331015                                 | Structural shapes.....  | ..do.....                  | 4,676       | 908                      | 4,244     | 810                      |       |     |  |
| 331017                                 | Wire and wire products.....   | ..do.....                  | 133         | 46                       | 140       | 118                      |       |     |  |
| 331019                                 | All other carbon steel mill shapes and forms.....   | ..do.....                  | 2,098       | 461                      | 3,212     | 685                      |       |     |  |
| 331020                                 | Alloy steel (except stainless).....   | ..do.....                  | 144         | 118                      | 215       | 211                      |       |     |  |
| 331031                                 | Stainless steel.....  | ..do.....                  | 432         | 573                      | 321       | 406                      |       |     |  |
| 335790                                 | Copper and copper-base alloy:   |                            |             |                          |           |                          |       |     |  |
|  | Insulated wire and cable.....   | 1,000 lbs. copper content. | (D)         | (D)                      | (NA)      | (NA)                     |       |     |  |
| 335102                                 | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.....             | } (D)       | (D)                      | (NA)      | (NA)                     |       |     |  |
| 335123                                 | Plate, sheet, and strip (including military cups and discs)....                                       | ..do.....                  |             |                          |           |                          |       |     |  |
| 335127                                 | Pipe and tube.....  | ..do.....                  |             |                          |           |                          |       |     |  |
| 335202                                 | Aluminum and aluminum base alloy:   |                            |             |                          |           |                          |       |     |  |
| 335205                                 | Sheet, plate and foil.....  | ..do.....                  | 434         | 419                      | } 418     | 227                      |       |     |  |
| 335209                                 | Extruded shapes (including extruded rod, bar, pipe tube, etc.)..                                      | ..do.....                  | } 17        | 21                       |           |                          |       |     |  |
|  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                  |             |                          |           |                          |       |     |  |
| 332300                                 | Castings (rough and semifinished): <sup>1</sup>   |                            |             |                          |           |                          |       |     |  |
| 336100                                 | Steel.....  | Short tons.....            | 235         | 199                      | 668       | 345                      |       |     |  |
|  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....             | 2,450       | 1,573                    | 2,032     | 1,490                    |       |     |  |
| 362110                                 | Electric motors and generators: <sup>1</sup>  |                            |             |                          |           |                          |       |     |  |
|  | Fractional horsepower electric motors (under 1 hp.)   |                            |             |                          |           |                          |       |     |  |
| 362115                                 | Timing motors, synchronous and subsynchronous.....  | Number.....                | 2,600       | 51                       | } 5,335   | 198                      |       |     |  |
|  | Other fractional horsepower electric motors.....  | ...do.....                 | 10,944      | 303                      |           |                          |       |     |  |
| 362120                                 | Integral horsepower motors and generators (1 hp. and over).....                                       | ..do.....                  | (NA)        | 54                       | 5,718     | 286                      |       |     |  |
| 356218                                 | Bearings:   |                            |             |                          |           |                          |       |     |  |
| 356228                                 | Ball.....   | .....                      | } (X)       | 89                       | (X)       | (NA)                     |       |     |  |
|  | Roller.....   | .....                      |             |                          |           |                          |       |     |  |
| 367010                                 | Electron tubes, except X-ray <sup>1</sup> .....   | 1,000.....                 | (D)         | (D)                      | (NA)      | (NA)                     |       |     |  |
| 367408                                 | Solid state semiconductors <sup>1</sup> .....   | ...do.....                 | (D)         | (D)                      | (NA)      | (NA)                     |       |     |  |
| 970099                                 | All other materials and components, parts, containers, and supplies consumed.....                     | .....                      | (X)         | 16,264                   | (X)       | 14,873                   |       |     |  |
| 976000                                 | Materials and components, n.s.k. <sup>3</sup> .....   | .....                      | (X)         | 6,969                    | (X)       | 1,772                    |       |     |  |
| INDUSTRY 3579.—OFFICE MACHINES, N.E.C. |   |                            |             |                          |           |                          |       |     |  |
|  | Materials, parts, containers, and supplies, total.....  | .....                      | (X)         | 77,836                   | (X)       | 66,555                   |       |     |  |
|  | Mill shapes and forms (except castings):  |                            |             |                          |           |                          |       |     |  |
|  | Carbon steel:   |                            |             |                          |           |                          |       |     |  |
| 331011                                 | Bars and bar shapes.....  | Short tons.....            | 4,387       | 1,367                    | 2,460     | 654                      |       |     |  |
| 331012                                 | Sheet and strip.....  | ..do.....                  | 15,275      | 3,821                    | 12,042    | 2,736                    |       |     |  |
| 331017                                 | Wire and wire products.....   | ..do.....                  | 5,720       | 2,483                    | 2,399     | 996                      |       |     |  |
| 331015                                 | Structural shapes.....  | ..do.....                  | } 3,941     | 1,325                    | 332       | 81                       |       |     |  |
| 331019                                 | All other carbon steel mill shapes and forms.....   | ..do.....                  |             |                          |           |                          | 3,508 | 890 |  |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | Unit of measure            | 1963     |                          | 1958     |                          |
|--|---|----------------------------|----------|--------------------------|----------|--------------------------|
|  |   |                            | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3579.—OFFICE MACHINES, N.E.C.—Continued     |   |                            |          |                          |          |                          |
| 331020   | Alloy steel (except stainless).....   | Short tons.....            | 664      | 517                      | 1,021    | 831                      |
| 331031   | Stainless steel.....  | do.....                    | 369      | 507                      | 298      | 510                      |
| Copper and copper-base alloy:                        |   |                            |          |                          |          |                          |
| 335728   | Bare wire ( for electrical conduction).....                                       | 1,000 lbs.....             | 340      | 318                      | (NA)     | (NA)                     |
| 335790   | Insulated wire and cable.....   | 1,000 lbs. copper content. |          |                          |          |                          |
| 335102   | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....        | 1,000 lbs.....             | 274      | 183                      | (NA)     | (NA)                     |
| 335123   | Plate, sheet, and strip (including military cups and discs)....                   | do.....                    | 637      | 547                      | (NA)     | (NA)                     |
| 335127   | Pipe and tube.....  | do.....                    | 21       | 21                       | (NA)     | (NA)                     |
| Aluminum and aluminum-base alloy:                    |   |                            |          |                          |          |                          |
| 335202   | Sheet, plate and foil.....  | do.....                    | 928      | 639                      | 458      | 433                      |
| 335205   | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)                   | do.....                    | 768      | 649                      |          |                          |
| 335209   | All other aluminum mill shapes and forms.....                                     | do.....                    | 911      | 907                      |          |                          |
| Castings (rough and semifinished): <sup>1</sup>      |   |                            |          |                          |          |                          |
| 332300   | Steel.....  | Short tons.....            | 579      | 344                      | 147      | 155                      |
| 336100   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....             | 1,582    | 1,494                    | 1,697    | 1,789                    |
| Electric motors and generators: <sup>1</sup>         |   |                            |          |                          |          |                          |
| Fractional horsepower electric motors (under 1 hp.): |   |                            |          |                          |          |                          |
| 362110   | Timing motors, synchronous and subsynchronous.....                                | Number.....                | 50,321   | 220                      | 185,355  | 734                      |
| 362115   | Fractional horsepower electric motors.....  | do.....                    | 150,474  | 1,885                    | 88,756   | 1,084                    |
| 362120   | Integral horsepower motors and generators (1 hp. and over).....                   | do.....                    | (D)      | (D)                      | (NA)     | (NA)                     |
| Bearings:  |   |                            |          |                          |          |                          |
| 356218   | Ball.....   | do.....                    | (X)      | 466                      | (NA)     | (NA)                     |
| 356228   | Roller.....   | do.....                    |          |                          |          |                          |
| 367010   | Electron tubes except X-ray <sup>1</sup> .....                                    | 1,000.....                 | 76       | 77                       | (NA)     | (NA)                     |
| 367408   | Solid state semiconductors.....   | do.....                    | 1,105    | 226                      | (NA)     | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed..... | do.....                    | (X)      | 43,269                   | (X)      | 48,366                   |
| 976000   | Materials and components, n.s.k. <sup>3</sup> .....                               | do.....                    | (X)      | 16,571                   | (X)      | 6,932                    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>No data are available for castings, electric motors and generators, electron tubes or solid state semiconductors produced and consumed in the same establishment.

<sup>2</sup>Represents estimates published in MC58(1)-7 (Supplement), "Selected Materials Consumed," from data collected in a supplemental survey on Form MA-131, "Consumption of Materials, Parts, Containers and Supplies During 1958." This survey was limited to large establishments in selected chemical, machinery and equipment industries and resulted in estimates which are subject to greater error than are the figures on materials consumption collected as a regular part of the census of manufactures.

<sup>3</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Computing and related machines (SIC 3571) | Typewriters (SIC 3572) | Scales and balances (SIC 3576) | Office machines, n.e.c. (SIC 3579) |
|---|---|------------------------|--------------------------------|------------------------------------|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 10,281                                    | 2,319                  | 577                            | 2,077                              |
| Total cost of purchased fuels.....do....  | 3,223                                     | 1,054                  | 224                            | 784                                |
| Bituminous coal, lignite, and anthracite:   |   |                        |                                |                                    |
| Quantity.....1,000 short tons..   | 107                                       | (S)                    | (S)                            | 26                                 |
| Cost.....\$1,000..  | 908                                       | (S)                    | (S)                            | 211                                |
| Coke and breeze:  |   |                        |                                |                                    |
| Quantity.....1,000 short tons..   | -   | -                      | -                              | -                                  |
| Cost.....\$1,000..  | -   | -                      | -                              | -                                  |
| Fuel oil (distillate and residual):   |   |                        |                                |                                    |
| Quantity.....1,000 barrels of 42 gallons..  | 458                                       | 73                     | 21                             | 92                                 |
| Cost.....\$1,000..  | 1,268                                     | 215                    | 82                             | 281                                |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |   |                        |                                |                                    |
| Quantity.....million cu.ft..  | 1,303                                     | 1,059                  | 61                             | 296                                |
| Cost.....\$1,000..  | 726                                       | 613                    | 45                             | 196                                |
| Other fuels.....do....  | 321                                       | (S)                    | (S)                            | 96                                 |
| Electric energy:  |   |                        |                                |                                    |
| Purchased:  |   |                        |                                |                                    |
| Quantity.....million kw.-hrs..  | 569                                       | 99                     | 17                             | 87                                 |
| Cost.....\$1,000..  | 7,058                                     | 1,265                  | 353                            | 1,293                              |
| Generated less sold.....million kw.-hrs..   | 69  | -                      | (S)                            | -                                  |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 202                                       | 38                     | 15                             | 53                                 |
| Prime movers, total.....do....  | 34  | 9                      | 1                              | 5                                  |
| Driving generators.....do....   | 28  | (Z)                    | 1                              | (Z)                                |
| Not driving generators.....do....   | 6   | 9                      | (Z)                            | 5                                  |
| Electric motors, total.....do....   | 198                                       | 29                     | 14                             | 48                                 |
| Driven by purchased energy.....do....   | 168                                       | 29                     | 14                             | 48                                 |
| Driven by energy generated at establishment.....do....  | 30  | -                      | (Z)                            | -                                  |
| Aggregate horsepower per 100 production workers.....  | 339                                       | 270                    | 444                            | 401                                |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower. n.e.c Not elsewhere classified.  
(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3571                           | COMPUTING AND RELATED MACHINES  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 248                     | 96,370         | 703,231           | 58,985             | 119,521           | 369,459         | 1,101,484                                      | 926,876                     | 2,019,714                    | 92,628                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 205                     | 77,762         | 564,486           | 46,672             | 94,888            | 291,580         | 975,586  | 742,911                     | 1,712,467                    | 79,249                              |
|                                | 75-89% specialization.....  | 12                      | 2,222          | 13,096            | 1,675              | 3,489             | 8,769           | 17,192   | 10,180                      | 27,686                       | 508                                 |
| 35711                          | Electronic data processing machines and associated equipment, except typewriters (primary product class of estab.)..... | 77                      | 36,385         | 278,827           | 17,736             | 36,195            | 110,177         | 478,355  | 467,279                     | 907,753                      | 50,968                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 55                      | 15,064         | 111,353           | 6,731              | 13,818            | 37,860          | 220,982  | 223,151                     | 424,878                      | 32,642                              |
| 35712                          | Computing and accounting machines, including cash registers (primary product class of estab.).....                      | 94                      | 58,605         | 416,783           | 40,248             | 81,226            | 254,183         | 611,031  | 453,916                     | 1,096,387                    | 41,053                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 63                      | 20,694         | 136,637           | 13,850             | 27,762            | 77,466          | 206,522  | 155,196                     | 374,486                      | 14,724                              |
| 3572                           | TYPEWRITERS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 21                      | 18,023         | 102,885           | 13,940             | 27,076            | 71,068          | 243,190  | 79,641                      | 315,385                      | 9,576                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 12                      | 10,252         | 50,618            | 8,709              | 16,728            | 40,926          | 106,939  | 27,946                      | 134,522                      | 2,152                               |
| 3579                           | OFFICE MACHINES, N.E.C.   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 161                     | 16,980         | 104,053           | 11,616             | 22,996            | 63,258          | 224,654  | 126,658                     | 349,210                      | 16,257                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 122                     | 9,362          | 61,042            | 6,546              | 12,905            | 38,620          | 147,413  | 64,684                      | 208,862                      | 12,093                              |
|                                | 75-89% specialization.....  | 11                      | 1,247          | 7,109             | 914                | 1,879             | 4,390           | 10,932   | 8,756                       | 19,589                       | 349                                 |

N.E.C. Not elsewhere classified.



TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations  | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3571.—COMPUTING AND RELATED MACHINES  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 2                        | 1   | -       | 1          | (D)                                   | (D)                                       | -       | (D)        |
| Nonferrous foundry (except die casting).....   | 2                        | -   | 2       | -          | (D)                                   | -   | (D)     | -          |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 1                        | -   | 1       | -          | (D)                                   | -   | (D)     | -          |
| Electroplating and other plating.....  | 31                       | 9   | 11      | 11         | 809                                   | 15  | 100     | 694        |
| Galvanizing and other hot dip coating.....   | 2                        | 1   | 1       | -          | (D)                                   | (D)                                       | (D)     | -          |
| Heat treating of metals.....   | 24                       | 13  | 7       | 4          | 388                                   | 23  | 63      | 302        |
| Automatic screw machine department.....  | 19                       | 4   | 6       | 9          | 630                                   | 7   | 58      | 565        |
| Machine shop.....  | 93                       | 37  | 28      | 28         | 3,196                                 | 71  | 292     | 2,833      |
| Tool and die shop.....   | 41                       | 12  | 10      | 19         | 1,971                                 | 17  | 89      | 1,865      |
| Plate or structural fabrication.....   | 9                        | 7   | -       | 2          | 58                                    | (D)                                       | -       | (D)        |
| Stamping, blanking and forming of metals.....  | 50                       | 22  | 9       | 19         | 1,680                                 | 36  | 98      | 1,546      |
| Painting, lacquering and enameling on metals.....  | 37                       | 23  | 8       | 6          | 399                                   | 32  | 87      | 280        |
| Plastics molding.....  | 10                       | 4   | 3       | 3          | 180                                   | 8   | 41      | 131        |
| Assembly of product.....   | 108                      | 21  | 20      | 67         | 20,665                                | 33  | 207     | 20,425     |
| Shipping department, including packing and crating...                                    | 98                       | 65  | 24      | 9          | 860                                   | 104                                       | 260     | 496        |
| INDUSTRY 3572.—TYPEWRITERS   |                          |   |         |            |                                       |   |         |            |
| Nonferrous foundry (except die casting).....   | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Electroplating and other plating.....  | 9                        | 1   | 3       | 5          | 246                                   | (D)                                       | (D)     | 208        |
| Heat treating of metals.....   | 9                        | 2   | 4       | 3          | 162                                   | (D)                                       | (D)     | 108        |
| Automatic screw machine department.....  | 9                        | 2   | 1       | 6          | 381                                   | (D)                                       | (D)     | 360        |
| Machine shop.....  | 11                       | 3   | 1       | 7          | 1,193                                 | (D)                                       | (D)     | 1,177      |
| Tool and die shop.....   | 12                       | 2   | 3       | 7          | 524                                   | (D)                                       | (D)     | 495        |
| Plate or structural fabrication.....   | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Stamping, blanking and forming of metals.....  | 11                       | -   | 4       | 7          | 987                                   | -   | 41      | 946        |
| Painting, lacquering and enameling on metals.....  | 9                        | 2   | 3       | 4          | 230                                   | (D)                                       | (D)     | 189        |
| Plastics molding.....  | 7                        | -   | 3       | 4          | 200                                   | -   | 23      | 177        |
| Assembly of product.....   | 13                       | 3   | -       | 10         | 5,764                                 | 11  | -       | 5,753      |
| Shipping department, including packing and crating...                                    | 12                       | 4   | 4       | 4          | 217                                   | 7   | 45      | 165        |
| INDUSTRY 3576.—SCALES AND BALANCES   |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 3                        | -   | -       | 3          | 205                                   | -   | -       | 205        |
| Nonferrous foundry (except die castings).....  | 1                        | -   | -       | 1          | (D)                                   | -   | -       | (D)        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Electroplating and other plating.....  | 2                        | 1   | -       | 1          | (D)                                   | (D)                                       | -       | (D)        |
| Heat treating of metals.....   | 6                        | 4   | 2       | -          | 24                                    | (D)                                       | (D)     | -          |
| Automatic screw machine department.....  | 6                        | 3   | 1       | 2          | 68                                    | 9   | (D)     | (D)        |
| Machine shop.....  | 30                       | 9   | 13      | 8          | 577                                   | 22  | 112     | 443        |
| Tool and die shop.....   | 12                       | 6   | 4       | 2          | 96                                    | 13  | (D)     | (D)        |
| Plate or structural fabrication.....   | 18                       | 8   | 10      | -          | 102                                   | 17  | 85      | -          |
| Stamping, blanking and forming of metals.....  | 17                       | 9   | 5       | 3          | 171                                   | 15  | 55      | 101        |
| Painting, lacquering and enameling on metals.....  | 29                       | 22  | 6       | 1          | 136                                   | 44  | (D)     | (D)        |
| Assembly of product.....   | 38                       | 12  | 14      | 12         | 885                                   | 20  | 120     | 745        |
| Shipping department, including packing and crating...                                    | 34                       | 24  | 9       | 1          | 115                                   | 37  | (D)     | (D)        |

See footnotes at end of table.

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963—Continued

| Metalworking operations  | Number of establishments |   |         | Employment in the specified operation |       |   |         |            |
|--|--------------------------|---|---------|---------------------------------------|-------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |                                       | Total | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more                            |       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3579.—OFFICE MACHINES, N.E.C.   |                          |   |         |                                       |       |   |         |            |
| Nonferrous foundry (except die casting).....   | 1                        | -   | 1       | -                                     | (D)   | -   | (D)     | -          |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 1                        | 1   | -       | -                                     | (D)   | (D)                                       | -       | -          |
| Electroplating and other plating.....  | 16                       | 8   | 6       | 2                                     | 156   | 18  | (D)     | (D)        |
| Galvanizing and other hot dip coating.....   | -                        | -   | -       | -                                     | -     | -   | -       | -          |
| Heat treating of metals.....   | 11                       | 7   | 4       | -                                     | 43    | 8   | 35      | -          |
| Automatic screw machine department.....  | 19                       | 9   | 7       | 3                                     | 215   | 19  | 63      | 133        |
| Machine shop.....  | 44                       | 10  | 14      | 20                                    | 1,658 | 15  | 119     | 1,524      |
| Tool and die shop.....   | 32                       | 12  | 16      | 4                                     | 410   | 21  | 147     | 242        |
| Plate or structural fabrication.....   | 2                        | 1   | 1       | -                                     | (D)   | (D)                                       | (D)     | -          |
| Stamping, blanking and forming of metals.....  | 45                       | 21  | 16      | 8                                     | 493   | 44  | 169     | 280        |
| Painting, lacquering and enameling on metals.....  | 33                       | 20  | 12      | 1                                     | 187   | 32  | (D)     | (D)        |
| Plastics molding.....  | 6                        | 4   | 1       | 1                                     | 45    | (D)                                       | (D)     | (D)        |
| Assembly of product.....   | 55                       | 18  | 10      | 27                                    | 2,231 | 34  | 101     | 2,096      |
| Shipping department, including packing and crating..                                     | 52                       | 34  | 16      | 2                                     | 299   | 51  | (D)     | (D)        |

NOTE: Very small establishments were not requested to report their metalworking operations and, in some instances, a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production-worker employment on the last line of the table below:

| Item  | Industry |        |       |       |
|---|----------|--------|-------|-------|
|   | 3571     | 3572   | 3576  | 3579  |
| Total number of establishments in the industry.....   | 248      | 21     | 85    | 161   |
| Number of establishments which reported one or more of the specified operations.....                              | 137      | 15     | 45    | 73    |
| Percent of industry production workers in these establishments.....   | 95-100   | 95-100 | 80-85 | 75-80 |
| Number of establishments which reported "none" of the operations apply.....                                       | 15       | 3      | 1     | 3     |
| Percent of industry production workers in these establishments.....   | 0-5      | 0-5    | 0-5   | 0-5   |
| Percent of industry production workers in establishments which completed the metalworking operations inquiry..... | 95-100   | 95-100 | 80-85 | 80-85 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishment.



## SERVICE INDUSTRY MACHINES AND MACHINE SHOPS

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3581—Automatic Merchandising Machines
- 3582—Commercial Laundry, Dry Cleaning, and Pressing Machines
- 3585—Refrigerators; Refrigeration Machinery, Except Household; and Complete Air-Conditioning Units
- 3586—Measuring and Dispensing Pumps
- 3589—Service Industry Machines, Not Elsewhere Classified
- 3599—Miscellaneous Machinery, Except Electrical

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3581—AUTOMATIC MERCHANDISING MACHINES

This industry comprises establishments primarily engaged in manufacturing automatic merchandising units; also referred to as vending machines (excluding music, amusement, or gaming machines), and coin operated mechanisms for such machines. For a detailed list of products of industry 3581, refer to table 6A, product codes 3581002 to 3581269.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Automatic Vending Machines Industry totaled \$238 million. This amount included shipments of automatic vending machines and parts (primary products) valued at \$187 million, shipments of other products (secondary products) valued at \$44 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$7 million.

This industry's shipments of automatic vending machines represented 81 percent of its total product shipments. The industry specialization ratio in 1958 was 92 percent. Secondary products shipped by this industry in 1963 included refrigeration machinery (\$7 million).

Shipments of automatic vending machines by this industry represented 90 percent of all shipments of these products (\$207 million) by all industries. In 1958 the coverage ratio

was 92 percent. Another industry shipping automatic vending machines was industry 3585, Refrigeration Machinery, \$4 million.

The production index for the primary products of the industry increased to 189 in 1963 from the 1958 level of 140. The unit value index for 1963 was 133 compared to 112 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3582—COMMERCIAL LAUNDRY, DRY CLEANING, AND PRESSING MACHINES

This industry comprises establishments primarily engaged in manufacturing laundry and dry cleaning equipment and pressing machines for commercial and industrial use. Establishments primarily engaged in manufacturing household laundry equipment are classified in industry 3633. Although the SIC classifies coin-operated household washing machines in industry 3582, data for these machines are included in the 1963 Census of Manufactures, as in 1958, in industry 3633. For a detailed list of products of industry 3582, refer to table 6A, product codes 3582021 to 3582091.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Commercial Laundry Equipment Industry totaled \$137 million. This amount included shipments of commercial laundry, dry cleaning, and pressing machines (primary products) valued at \$116 million, shipments of other products (secondary products) valued at \$12 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$9 million.

This industry's shipments of commercial laundry equipment represented 91 percent of its total product shipments. The industry specialization ratio in 1958 was 94 percent.

Shipments of commercial laundry, dry cleaning, and pressing machines by this industry represented 89 percent of all shipments of these products (\$130 million) by all industries. In 1958 the coverage ratio was 95 percent. Another industry shipping commercial laundry equipment was industry 3633, Household Laundry Equipment.

The production index for the primary products of the industry increased to 202 in 1963 from the 1958 level of 122. The unit value index for 1963 was 84 compared to 114 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3585—REFRIGERATORS; REFRIGERATION MACHINERY, EXCEPT HOUSEHOLD; AND COMPLETE AIR-CONDITIONING UNITS

This industry comprises establishments primarily engaged in manufacturing equipment and systems utilizing the basic refrigeration cycle, including mechanical and absorption refrigerators for commercial and industrial use; refrigeration machinery; and complete air-conditioning units for domestic, commercial, and industrial use. Establishments primarily engaged in manufacturing soda fountains and beer dispensing equipment are classified in this industry, and those primarily engaged in manufacturing household refrigerators and home and farm freezers in industry 3632. For a detailed list of products of industry 3585, refer to table 6A, product codes 3585101 to 3585798.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Refrigeration Machinery Industry totaled \$1,928 million. This amount include shipments of refrigeration machinery (primary products) valued at \$1,588 million, shipments of other products (secondary products) valued at \$194 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$146 million.



The specialization and coverage ratios have not been calculated for industry 3585 as the data from which these ratios are obtained include extensive duplication. This results from the fact that products of some establishments in the industry are consumed as materials by other establishments in the same industry. This is especially true of refrigeration and air-conditioning components which may be shipped to producers of complete refrigeration and air-conditioning equipment where they are again included in both the cost of materials and the value of shipments.

Industry 3585 comprises two major establishment types. One group of establishments specializes primarily in the manufacture of compressors, condensers, and other components for air-conditioning and commercial refrigeration. Many of these establishments also produce complete air-conditioning equipment as well as subassemblies for air-conditioning and commercial refrigeration equipment. These establishments also rely on other establishments for their motors and other electrical equipment.

The other major segment of industry 3585 covers the production of commercial refrigeration equipment such as walk-in and reach-in refrigerators, display cases for meat, dairy, and other food products, low temperature freezing and dispensing equipment, florist cabinets, etc. Although significant amounts of metal are consumed in the manufacture of these products, many of these items contain substantial amounts of wood, glass, and other nonmetallic materials. Some types of commercial refrigeration equipment are shipped from the factory without compressors, condensing units or refrigeration equipment. These "remote type units" are then installed at the site with the suitable refrigeration components.

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 60 percent of the total industry shipments are represented by plants specializing in heat transfer equipment; and 15 percent in commercial refrigerations.

The production index for the primary products of the industry increased to 208 in 1963 from the 1958 level of 135. The unit value index for 1963 was 86 compared to 90 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3586—MEASURING AND DISPENSING PUMPS

This industry comprises establishments primarily engaged in manufacturing measuring and dispensing pumps commonly used in service and filling stations for dispensing gasoline, oil, and grease, including grease guns. Establishments primarily engaged in manufacturing pumps, compressors, and pumping equipment for general industrial use are classified in industry 3561. For a detailed list of products of industry 3586, refer to table 6A, product codes 3586011 to 3586098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Measuring and Dispensing Pumps Industry totaled \$159 million. This amount included shipments of measuring and dispensing pumps (primary products) valued at \$103 million, shipments of other products (secondary products) valued at \$38 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$19 million.

This industry's shipments of measuring and dispensing pumps represented 73 percent of its total product shipments. The industry specialization ratio in 1958 was 75 percent.

Secondary products shipped by this industry in 1963 included pumps and compressors (\$10 million).

Shipments of measuring and dispensing pumps by this industry represented 85 percent of all shipments of these products (\$121 million) by all industries. In 1958 the coverage ratio was 89 percent. Another industry shipping measuring and dispensing pumps was industry 3561, Pumps and Compressors, \$7 million.

The production index for the primary products of the industry increased to 113 in 1963 from the 1958 level of 79. The unit value index for 1963 was 133 compared to 138 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3589—SERVICE INDUSTRY MACHINES, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing machines and equipment, not elsewhere classified, for use in service industries, such as floor sanding machines, industrial vacuum cleaners, scrubbing machines, commercial cooking and food warming equipment, and commercial dishwashing machines. Establishments primarily engaged in manufacturing household electrical appliances are classified in group 363. For a detailed list of products of industry 3589, refer to table 6A, product codes 3589111 to 3589398.

The code number for this industry in the Standard Industrial Classification manual is unchanged, but the content of the industry has been slightly changed from the classification system used in 1958. Establishments primarily engaged in producing industrial vacuum cleaners are now classified in industry 3589. Such establishments were formerly classified in industry 3584.

Value of shipments and other receipts of the Service Industry Machines, N.E.C., Industry totaled \$378 million. This amount included shipments of service industry machines, n.e.c., (primary products) valued at \$288 million, shipments of other products (secondary products) valued at \$46 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$44 million.

This industry's shipments of service industry machines, n.e.c., represented 86 percent of its total product shipments. The industry specialization ratio in 1958 was 85 percent.

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 54 percent of the total industry shipments are represented by plants specializing in service industry machines and parts; and 34 percent in commercial cooking and food warming equipment.

Shipments of service industry machines, n.e.c., by this industry represented 84 percent of all shipments of these products (\$342 million) by all industries. In 1958 the coverage ratio was 81 percent.

The production index for the primary products of the industry increased to 202 in 1963 from the 1958 level of 143. The unit value index for 1963 was 116 compared to 112 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3599—MISCELLANEOUS MACHINERY, EXCEPT ELECTRICAL

This industry comprises establishments primarily engaged in manufacturing machinery and parts except electrical, not elsewhere classified, such as pistons and piston rings, carburetors, metallic packing, and amusement park equipment. This industry also



includes establishments primarily engaged in producing or repairing machine and equipment parts, not elsewhere classified, on a job or order basis for others. These establishments usually operate on a job or order basis and are equipped with machine tools and other power-driven metalworking machinery capable of manufacturing a wide range of machine and equipment parts. Machine shops classified in this industry are characterized by their method of operation rather than their product, and the fact that they may be primarily engaged in repair work does not exclude them from this classification; however, machine shops engaged exclusively in repair work are classified in repair industries.

Although generally characterized by method of operation rather than type of product, establishments primarily engaged in manufacturing the following products are classified in industry 3599: Metal bellows, bushings machined from purchased castings, carburetors, catapults, boiler-tube cleaners, valve cores, hydraulic cylinders, iron flasks, flexible metal hose and tubing, metallic packing (except asbestos-metallic), pistons and piston rings, and intake and exhaust valves for internal combustion engines. For a detailed list of products of industry 3599, refer to table 6A, product codes 3599011 to 3599098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

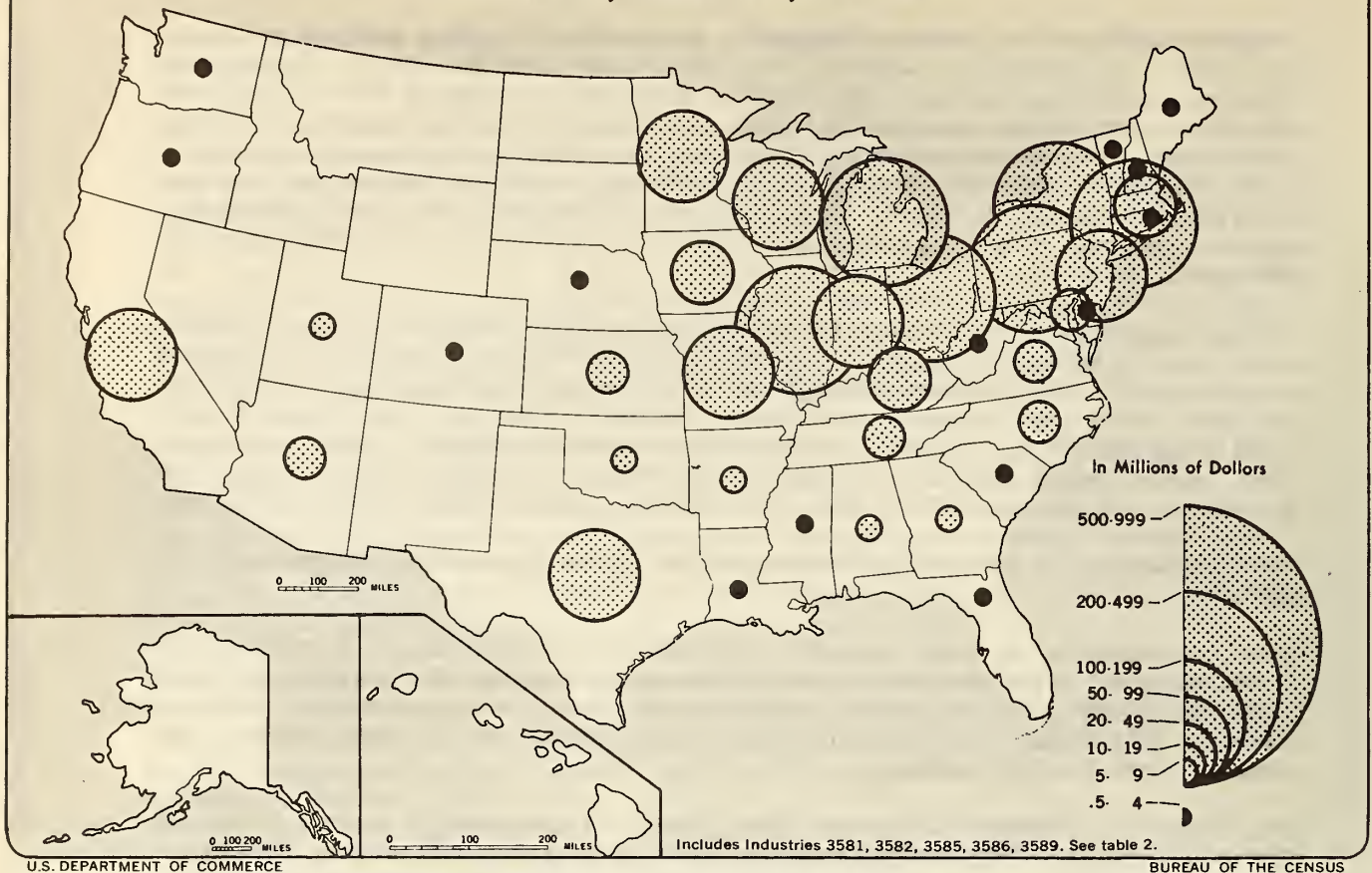
Value of shipments and other receipts of the Miscellaneous Machinery Industry totaled \$2,036 million. This amount included shipments of machine shop products (primary products) valued at \$1,440 million, shipments of other products (secondary products) valued at \$157 million, and miscellaneous receipts (mainly contract work on materials owned by others) at \$439 million.

This industry's shipments of machine shop products represented 90 percent of its total product shipments. The industry specialization ratio in 1958 was 92 percent. Secondary products shipped by this industry in 1963 include parts and accessories for passenger cars, trucks, and busses shipped to other than motor vehicle manufactures (\$21 million), and general industrial machinery, n.e.c. (\$13 million).

Shipments of machine shop products by this industry represented 90 percent of all shipments of these products (\$1,606 million) by all industries. In 1958 the coverage ratio was also 90 percent.

Since machining is a common operation in most of the establishments producing metal products, many of the metal products establishments classified in industries other than industry 3599 maintain machine shop departments for their own use. Data for captive machine shops appear in the metalworking operations table (table 9) for individual industries.

**SERVICE INDUSTRY MACHINES: SIC 358**  
 Value Added by Manufacture by State: 1963



**MISCELLANEOUS MACHINERY: SIC 359**  
 Value Added by Manufacture by State: 1963

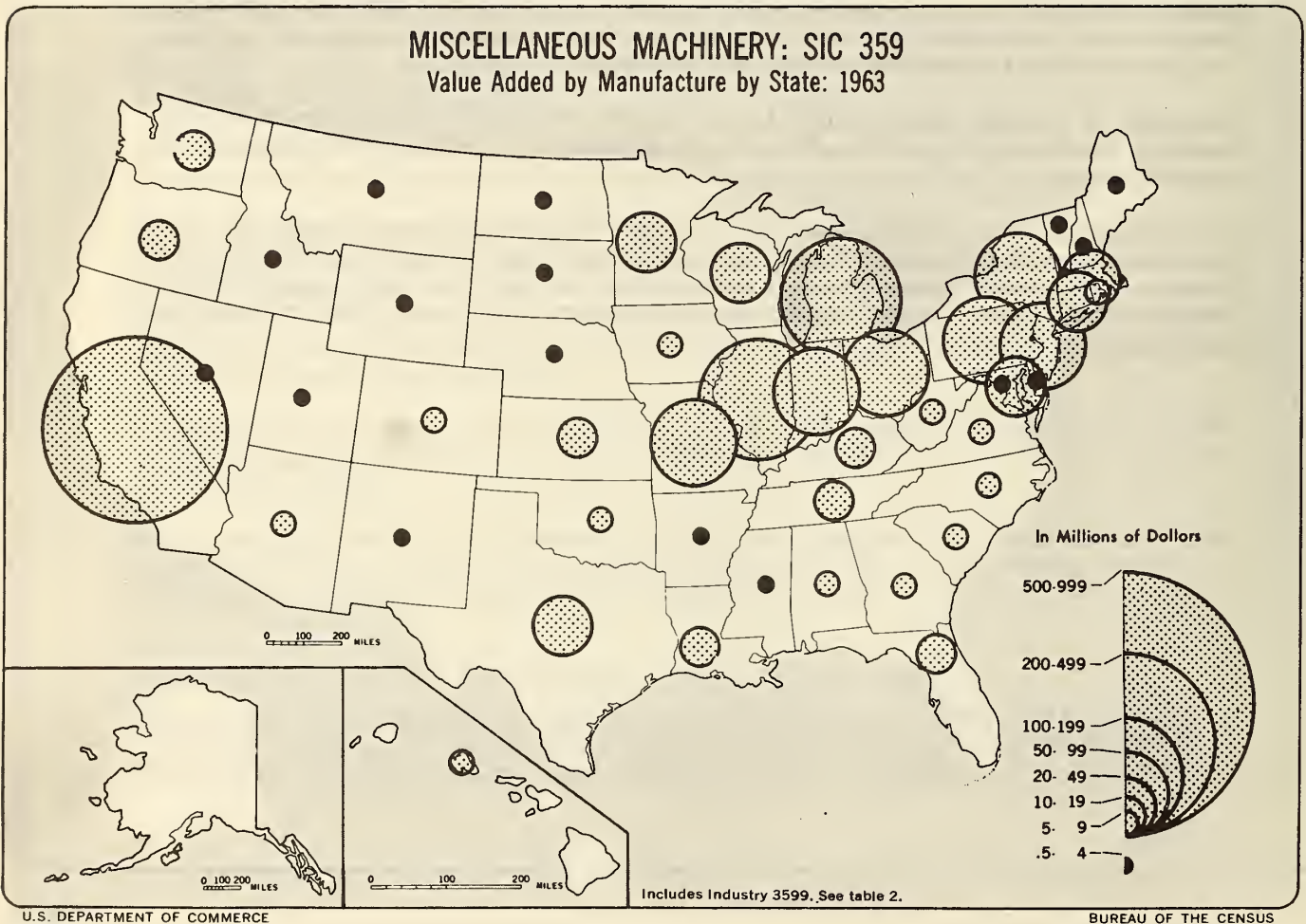




TABLE 1. General Statistics: 1963 and Earlier Years

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3581.—AUTOMATIC VENDING MACHINES        |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 148                        | 158               | 68   | 11,672            | 64,791               | 8,442              | 16,790               | 40,427             | 121,365  | 116,908                           | 238,000                            | 3,479   | 81  | 90                                       |
| 1962 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 13,378            | 71,524               | 9,482              | 18,285               | 42,362             | 130,772  | 121,373                           | 247,542                            | 6,364   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 11,134            | 57,893               | 7,709              | 15,329               | 34,043             | 96,507   | 94,286                            | 201,326                            | 2,681   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 10,990            | 56,834               | 8,102              | 16,412               | 37,000             | 123,584  | 101,753                           | 213,581                            | 3,542   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 8,588             | 42,073               | 6,284              | 12,726               | 26,286             | 83,493   | 83,416                            | 165,197                            | 2,452   | (NA)  | (NA)                                     |
| 1958.....  | 119 <sup>2</sup>           | 121               | 53   | 7,894             | 37,049               | 5,557              | 10,846               | 21,945             | 64,694   | 76,600                            | 141,635                            | 2,798   | 92  | 92                                       |
| 1954 <sup>2 3</sup> .....                        | (NA)                       | 76                | (NA)   | 5,233             | 21,570               | 3,925              | 7,821                | 13,880             | 37,248   | 46,702                            | 83,957                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3582.—COMMERCIAL LAUNDRY EQUIPMENT      |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 107                        | 115               | 58   | 6,542             | 37,929               | 4,667              | 9,605                | 23,462             | 70,771   | 64,925                            | 136,757                            | 2,487   | 91  | 89                                       |
| 1962 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 6,329             | 36,128               | 4,327              | 9,192                | 21,567             | 64,616   | 64,205                            | 124,698                            | 1,266   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 5,879             | 32,613               | 4,148              | 8,433                | 20,408             | 61,548   | 55,931                            | 119,881                            | 2,705   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 6,937             | 36,898               | 4,741              | 9,304                | 22,111             | 74,697   | 63,315                            | 137,342                            | 1,308   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 6,839             | 36,416               | 4,752              | 9,652                | 22,231             | 71,034   | 66,428                            | 137,981                            | 1,504   | (NA)  | (NA)                                     |
| 1958.....  | 113                        | 119               | 47   | 6,560             | 33,047               | 4,544              | 9,218                | 20,183             | 65,580   | 54,058                            | 119,499                            | 2,024   | 94  | 95                                       |
| 1957 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 7,017             | 33,948               | 5,002              | 10,208               | 21,020             | 71,578   | 48,240                            | 117,456                            | 2,675   | 84  | 89                                       |
| 1956 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 7,013             | 33,113               | 5,056              | 10,476               | 20,813             | 66,661   | 47,044                            | 107,725                            | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 6,940             | 31,110               | 4,959              | 10,277               | 19,887             | 62,940   | 42,747                            | 99,523                             | (S)   | (NA)  | (NA)                                     |
| 1954.....  | 101                        | 104               | 46   | 6,543             | 28,630               | 4,659              | 9,509                | 18,243             | 56,644   | 46,189                            | 103,747                            | 1,062   | 83  | 93                                       |
| 1953 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 6,291             | 27,807               | 4,667              | (NA)                 | 18,445             | 51,961   | 38,158                            | 90,119                             | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 6,813             | 28,905               | 5,094              | (NA)                 | 20,606             | 54,964   | 38,877                            | 94,056                             | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 6,682             | 26,574               | 4,981              | (NA)                 | 18,771             | 50,357   | 41,495                            | 92,067                             | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 6,485             | 22,613               | 4,830              | (NA)                 | 15,227             | 42,730   | 33,776                            | 76,581                             | (NA)  | (NA)  | (NA)                                     |
| 1947.....  | 119                        | 127               | 67   | 9,093             | 27,435               | 6,888              | 14,790               | 19,015             | 54,347   | 40,626                            | 94,361                             | (NA)  | 94  | 94                                       |
| 1939.....  | (NA)                       | 88                | (NA)   | (NA)              | (NA)                 | 2,783              | (NA)                 | 3,588              | 13,358   | 9,026                             | 22,384                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> .....                          | (NA)                       | 62                | (NA)   | (NA)              | (NA)                 | 3,012              | (NA)                 | 4,274              | 13,036   | 10,874                            | 23,910                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3585.—REFRIGERATION MACHINERY           |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 655                        | 698               | 347  | 72,330            | 432,583              | 50,676             | 101,231              | 268,304            | 892,686  | <sup>4</sup> 1,059,887            | <sup>4</sup> 1,928,001             | 33,471  | ( <sup>4</sup> )                                    | ( <sup>4</sup> )                         |
| 1962 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 62,533            | 366,967              | 44,730             | 90,249               | 225,401            | 676,544  | <sup>4</sup> 940,285              | <sup>4</sup> 1,610,516             | 32,433  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 62,795            | 349,836              | 44,182             | 86,583               | 212,601            | 608,116  | <sup>4</sup> 894,931              | <sup>4</sup> 1,501,918             | 37,880  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 65,846            | 361,180              | 45,973             | 90,981               | 217,590            | 674,304  | <sup>4</sup> 935,403              | <sup>4</sup> 1,549,413             | 31,801  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 69,350            | 377,760              | 47,898             | 95,522               | 224,181            | 733,391  | <sup>4</sup> 925,565              | <sup>4</sup> 1,641,520             | 26,110  | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                          | 600                        | 625               | 278  | 67,715            | 342,169              | 46,210             | 90,352               | 204,934            | 598,032  | <sup>4</sup> 806,411              | <sup>4</sup> 1,441,082             | 23,166  | ( <sup>4</sup> )                                    | ( <sup>4</sup> )                         |
| INDUSTRY 3586.—MEASURING AND DISPENSING PUMPS    |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 42                         | 43                | 27   | 6,768             | 41,732               | 4,499              | 8,913                | 23,155             | 91,713   | 71,213                            | 159,487                            | 2,604   | 73  | 85                                       |
| 1962 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 6,316             | 38,326               | 3,969              | 7,823                | 19,857             | 81,728   | 66,656                            | 143,747                            | 2,691   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 5,638             | 33,643               | 3,569              | 6,938                | 17,241             | 72,046   | 54,607                            | 125,899                            | 2,416   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 6,025             | 34,928               | 3,909              | 7,667                | 18,600             | 71,637   | 54,907                            | 124,345                            | 2,975   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 6,569             | 38,437               | 4,303              | 8,503                | 20,390             | 79,243   | 65,989                            | 141,205                            | 1,611   | (NA)  | (NA)                                     |
| 1958.....  | 31                         | 32                | 20   | 6,201             | 32,852               | 3,747              | 7,102                | 16,680             | 64,689   | 53,812                            | 119,045                            | 2,238   | 75  | 89                                       |
| 1957 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 5,888             | 32,412               | 3,871              | 7,625                | 17,425             | 62,915   | 42,800                            | 104,268                            | 1,388   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 6,160             | 32,791               | 4,238              | 8,652                | 19,055             | 66,300   | 47,674                            | 112,972                            | 2,358   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 6,880             | 33,284               | 4,816              | 9,672                | 19,874             | 65,888   | 49,237                            | 109,480                            | 3,651   | (NA)  | (NA)                                     |
| 1954.....  | 31                         | 31                | 19   | 7,438             | 34,201               | 5,199              | 10,454               | 20,899             | 59,722   | 50,784                            | 111,628                            | 1,750   | 69  | 91                                       |
| 1953 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 6,860             | 29,907               | 4,914              | (NA)                 | 18,120             | 48,252   | 39,353                            | 87,605                             | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 10,569            | 48,221               | 7,470              | (NA)                 | 30,472             | 86,097   | 61,518                            | 147,611                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 10,804            | 45,464               | 7,702              | (NA)                 | 28,145             | 76,673   | 55,334                            | 132,003                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 9,476             | 36,471               | 6,721              | (NA)                 | 21,681             | 71,044   | 50,753                            | 121,793                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 8,534             | 31,022               | 5,740              | (NA)                 | 17,610             | 57,901   | 35,197                            | 93,094                             | (NA)  | (NA)  | (NA)                                     |
| 1947.....  | 51                         | 52                | 29   | 12,083            | 36,972               | 8,884              | 17,090               | 24,174             | 66,223   | 60,439                            | 125,052                            | (NA)  | 76  | 98                                       |
| 1939.....  | (NA)                       | 38                | (NA)   | 7,395             | 11,953               | 5,054              | (NA)                 | 6,751              | 25,267   | 19,019                            | 44,286                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> .....                          | (NA)                       | 35                | (NA)   | (NA)              | (NA)                 | 6,652              | (NA)                 | 8,862              | 30,363   | 24,312                            | 54,675                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3589.—SERVICE INDUSTRY MACHINES, N.E.C. |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 496                        | 506               | 142  | 15,257            | 96,834               | 9,524              | 19,423               | 51,279             | 192,379  | 185,121                           | 378,300                            | 5,278   | 86  | 84                                       |
| 1962 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 15,326            | 96,629               | 10,216             | 22,473               | 56,084             | 205,036  | 176,639                           | 373,689                            | (6,211)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 13,540            | 81,962               | 8,797              | 19,729               | 46,368             | 181,538  | 149,243                           | 332,084                            | 3,212   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 12,693            | 75,938               | 8,584              | 18,034               | 44,710             | 151,891  | 139,301                           | 294,766                            | 3,749   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                          | (NA)                       | (NA)              | (NA)   | 11,765            | 66,841               | 8,491              | 16,393               | 39,061             | 138,159  | 128,401                           | 260,840                            | (5,771)   | (NA)  | (NA)                                     |
| 1958.....  | (NA)                       | 359               | 125  | 11,689            | 63,719               | 7,746              | 15,086               | 35,864             | 125,156  | 121,952                           | 245,227                            | 3,217   | 85  | 81                                       |

See footnotes at end of table.

TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year                                   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3599.—MISCELLANEOUS MACHINERY |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                              | 12,032                     | 12,090            | 1,402  | 135,820           | 793,629              | 108,445            | 224,320              | 593,147            | 1,366,327  | 673,823                           | 2,036,299                          | 71,729  | 90  | 90                                       |
| 1962 <sup>1</sup> .....                | (NA)                       | (NA)              | (NA)   | 139,789           | 772,437              | 114,352            | 224,847              | 567,581            | 1,352,037  | 724,186                           | 2,055,866                          | (64,728)  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                | (NA)                       | (NA)              | (NA)   | 129,496           | 698,583              | 104,773            | 208,780              | 509,228            | 1,189,398  | 636,589                           | 1,829,957                          | 61,892  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                | (NA)                       | (NA)              | (NA)   | 126,494           | 672,704              | 102,375            | 201,076              | 489,605            | 1,150,844  | 614,433                           | 1,765,105                          | 58,296  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                | (NA)                       | (NA)              | (NA)   | 130,690           | 676,118              | 106,835            | 207,792              | 498,018            | 1,155,562  | 665,077                           | 1,812,162                          | 58,347  | (NA)  | (NA)                                     |
| 1958 (new SIC)                         | 10,098                     | 10,171            | 1,090  | 115,659           | 575,407              | 91,626             | 179,730              | 420,751            | 959,939  | 520,674                           | 1,481,295                          | 93,131  | 92  | 90                                       |
| 1958 (old SIC)                         | (NA)                       | 10,401            | 1,162  | 121,332           | 599,811              | 96,261             | 189,117              | 438,627            | 1,007,544  | 561,937                           | 1,569,915                          | 94,853  | (NA)  | (NA)                                     |
| 1957 <sup>1</sup> .....                | (NA)                       | (NA)              | (NA)   | 126,374           | 585,606              | 101,302            | 206,983              | 430,972            | 975,948  | 511,169                           | 1,468,476                          | (S)   | 87  | 87                                       |
| 1956 <sup>1</sup> .....                | (NA)                       | (NA)              | (NA)   | 124,739           | 562,800              | 101,144            | 208,899              | 420,528            | 968,074  | 501,202                           | 1,429,202                          | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                | (NA)                       | (NA)              | (NA)   | 112,697           | 490,625              | 91,161             | 188,646              | 365,457            | 824,136  | 461,524                           | 1,256,412                          | (S)   | (NA)  | (NA)                                     |
| 1954.....                              | 6,795                      | 6,832             | 977  | 103,727           | 442,177              | 83,782             | 171,400              | 326,031            | 737,315  | 404,180                           | 1,150,308                          | 39,588  | 88  | 86                                       |
| 1953 <sup>1</sup> .....                | (NA)                       | (NA)              | (NA)   | 118,521           | 503,204              | 98,171             | 203,295              | 398,207            | 845,645  | 413,657                           | 1,259,302                          | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                | (NA)                       | (NA)              | (NA)   | 88,667            | 364,787              | 75,176             | 159,632              | 285,169            | 647,760  | 309,827                           | 957,587                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                | (NA)                       | (NA)              | (NA)   | 74,743            | 276,364              | 63,397             | 132,619              | 217,800            | 478,228  | 261,078                           | 739,306                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                | (NA)                       | (NA)              | (NA)   | 51,696            | 170,035              | 42,519             | 84,575               | 124,165            | 304,417  | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                | (NA)                       | (NA)              | (NA)   | (S)               | (S)                  | (S)                | (NA)                 | (NA)               | (S)  | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1947.....                              | (NA)                       | 3,113             | 513  | 62,400            | 173,729              | 52,313             | (NA)                 | 135,545            | 289,806  | 149,964                           | 439,877                            | (NA)  | 92  | 77                                       |
| 1939 <sup>3</sup> .....                | (NA)                       | 1,325             | (NA)   | (NA)              | (NA)                 | 24,333             | (NA)                 | 32,076             | 82,106   | 48,566                            | 130,672                            | (NA)  | (NA)  | (NA)                                     |

Note: See appendix A for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1954 excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1954 excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Represents establishments specializing in producing automatic vending machines but excludes establishments producing coin-operated mechanisms for such machines. The former establishments accounted for an estimated 80-90 percent of the total value of shipments of all establishments primarily engaged in producing automatic vending machines and coin-operated mechanisms for such machines.

<sup>3</sup>No comparable figures are available for earlier years.

<sup>4</sup>The value of shipments and cost of materials for this industry includes extensive duplication arising from shipments between establishments in the same industry classification. Accordingly, the specialization ratios and coverage ratios are not shown. For further explanation see introductory text.

<sup>5</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification. Accordingly, the data for 1958-1963 are not comparable with those for earlier years.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3581.—AUTOMATIC VENDING MACHINES   |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                  | 158            | 68                                 | 11,672         | 64,791            | 8,442              | 16,790            | 40,427          | 121,365                              | 116,908           | 238,000            | 3,479                     | 7,894            | 64,694                               |
| Northeast.....                              | 42             | 21                                 | 3,492          | 19,827            | 2,601              | 5,149             | 12,665          | 38,012                               | 30,634            | 67,736             | 1,195                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| New York.....                               | 18             | 9                                  | 657            | 3,086             | 535                | 1,056             | 2,060           | 4,897                                | 4,822             | 9,616              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pennsylvania.....                           | 12             | 5                                  | 445            | 2,312             | 260                | 493               | 934             | 5,194                                | 3,681             | 8,844              | 228                       | 307              | 2,666                                |
| East North Central.....                     | 46             | 22                                 | 3,146          | 18,260            | 2,371              | 4,879             | 12,552          | 33,775                               | 35,979            | 71,237             | 1,146                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Illinois.....                               | 23             | 12                                 | 1,665          | 8,515             | 1,315              | 2,721             | 6,152           | 14,887                               | 15,207            | 29,869             | 642                       | 1,230            | 8,497                                |
| West North Central.....                     | 19             | 9                                  | 2,924          | 17,180            | 1,860              | 3,582             | 8,839           | 30,021                               | 30,556            | 60,451             | 714                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Minnesota.....                              | 6              | 2                                  | 199            | 1,073             | 159                | 346               | 810             | 1,612                                | 1,985             | 3,608              | 22                        | 275              | 1,345                                |
| Missouri.....                               | 5              | 4                                  | 2,442          | 14,752            | 1,455              | 2,709             | 6,956           | 26,202                               | 26,797            | 52,791             | (D)                       | 1,791            | 15,343                               |
| South.....                                  | 27             | 8                                  | 1,333          | 5,755             | 1,003              | 1,943             | 3,688           | 10,927                               | 12,121            | 22,921             | 233                       | 893              | 7,643                                |
| Texas.....                                  | 6              | 2                                  | 129            | 665               | 86                 | 154               | 377             | 635                                  | 2,224             | 2,810              | 19                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Mountain.....                               | 6              | -                                  | 15             | 76                | 11                 | 21                | 58              | 134                                  | 160               | 280                | 10                        | 792              | 9,074                                |
| Colorado.....                               | 3              | -                                  | 4              | 18                | 2                  | 4                 | 13              | 19                                   | 20                | 39                 | 2                         |                  |                                      |
| Pacific.....                                | 18             | 8                                  | 762            | 3,693             | 596                | 1,216             | 2,625           | 8,496                                | 7,458             | 15,375             | 181                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                             | 18             | 8                                  | 762            | 3,693             | 596                | 1,216             | 2,625           | 8,496                                | 7,458             | 15,375             | 181                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| INDUSTRY 3582.—COMMERCIAL LAUNDRY EQUIPMENT |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                  | 115            | 58                                 | 6,542          | 37,929            | 4,667              | 9,605             | 23,462          | 70,771                               | 64,925            | 136,757            | 2,487                     | 6,560            | 65,580                               |
| New England.....                            | 12             | 6                                  | 473            | 2,327             | 279                | 578               | 1,161           | 3,730                                | 3,167             | 6,905              | 45                        | 443              | 3,747                                |
| Massachusetts.....                          | 6              | 3                                  | 202            | 861               | 134                | 265               | 497             | 1,622                                | 1,874             | 3,530              | 32                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Middle Atlantic.....                        | 25             | 14                                 | 1,271          | 7,191             | 988                | 2,011             | 4,938           | 16,022                               | 15,088            | 30,841             | 283                       | 2,105            | 20,040                               |
| New York.....                               | 15             | 9                                  | 1,010          | 5,653             | 784                | 1,605             | 3,966           | 12,704                               | 11,268            | 23,727             | 256                       | 1,730            | 17,287                               |
| East North Central.....                     | 33             | 18                                 | 2,431          | 15,482            | 1,693              | 3,570             | 9,258           | 26,807                               | 23,549            | 50,940             | 1,636                     | 2,480            | 25,494                               |
| Ohio.....                                   | 4              | 4                                  | 702            | 3,669             | 566                | 1,161             | 2,855           | 6,020                                | 4,943             | 11,817             | 228                       | 724              | 6,792                                |
| West North Central.....                     | 9              | 5                                  | 860            | 4,840             | 614                | 1,159             | 3,052           | 5,130                                | 8,279             | 14,546             | 152                       | 440              | 2,837                                |
| South Atlantic.....                         | 4              | 1                                  | 25             | 144               | 19                 | 38                | 97              | 176                                  | 46                | 220                | 326                       | 808              | 10,673                               |
| East South Central.....                     | 6              | 3                                  | 568            | 3,099             | 449                | 930               | 2,145           | 7,172                                | 4,766             | 11,755             |                           |                  |                                      |
| West South Central.....                     | 13             | 8                                  | 449            | 2,325             | 321                | 667               | 1,278           | 5,371                                | 5,923             | 11,197             | (D)                       | 276              | 3,456                                |
| Texas.....                                  | 7              | 4                                  | 254            | 1,261             | 173                | 354               | 674             | 3,105                                | 3,295             | 6,289              | (D)                       | 276              | 3,456                                |
| West.....                                   | 13             | 3                                  | 465            | 2,521             | 304                | 652               | 1,533           | 6,363                                | 4,107             | 10,353             | 45                        | 284              | 2,789                                |
| INDUSTRY 3585.—REFRIGERATION MACHINERY      |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                  | 698            | 347                                | 72,330         | 432,583           | 50,676             | 101,231           | 268,304         | 892,686                              | 1,059,887         | 1,928,001          | 33,471                    | 67,715           | 598,032                              |
| New England.....                            | 30             | 15                                 | 1,652          | 9,411             | 1,137              | 2,334             | 5,839           | 17,249                               | 19,579            | 35,761             | 1,398                     | 4,220            | 44,409                               |
| Connecticut.....                            | 10             | 5                                  | 755            | 4,592             | 481                | 1,026             | 2,817           | 7,632                                | 9,939             | 17,079             | 502                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Middle Atlantic.....                        | 165            | 80                                 | 20,495         | 128,773           | 13,301             | 26,448            | 74,257          | 272,594                              | 281,608           | 545,625            | 12,626                    | 19,303           | 176,733                              |
| New York.....                               | 74             | 35                                 | 8,921          | 59,739            | 5,638              | 11,288            | 34,430          | 137,324                              | 162,035           | 299,961            | 4,344                     | 9,757            | 109,358                              |
| New Jersey.....                             | 36             | 20                                 | 3,050          | 18,685            | 1,941              | 3,835             | 9,915           | 32,904                               | 38,963            | 72,209             | 1,874                     | 3,799            | 24,598                               |
| Pennsylvania.....                           | 55             | 25                                 | 8,524          | 50,349            | 5,722              | 11,325            | 29,912          | 102,366                              | 80,610            | 173,455            | 6,408                     | 5,747            | 42,777                               |
| East North Central.....                     | 158            | 88                                 | 24,797         | 151,996           | 17,813             | 35,380            | 98,014          | 282,924                              | 402,320           | 680,849            | 8,790                     | 22,831           | 203,563                              |
| Ohio.....                                   | 36             | 21                                 | 7,461          | 45,770            | 5,459              | 11,045            | 30,014          | 85,584                               | 129,177           | 215,219            | 2,617                     | 5,757            | 42,004                               |
| Indiana.....                                | 14             | 9                                  | 3,954          | 21,766            | 2,970              | 5,715             | 15,299          | 36,462                               | 48,394            | 82,007             | 1,075                     | 2,377            | 22,812                               |
| Illinois.....                               | 50             | 27                                 | 2,108          | 13,295            | 1,568              | 3,332             | 8,808           | 24,255                               | 25,550            | 49,903             | 688                       | 1,998            | 15,735                               |
| Michigan.....                               | 38             | 21                                 | 6,873          | 44,120            | 5,273              | 10,341            | 30,326          | 84,826                               | 152,932           | 236,867            | 2,681                     | 8,375            | 79,540                               |
| Wisconsin.....                              | 20             | 10                                 | 4,401          | 27,045            | 2,543              | 4,947             | 13,567          | 51,797                               | 46,267            | 96,853             | 1,729                     | 4,324            | 43,472                               |
| West North Central.....                     | 55             | 32                                 | 7,312          | 43,700            | 4,959              | 10,154            | 26,211          | 110,548                              | 91,688            | 199,976            | 2,735                     | 8,268            | 66,395                               |
| Minnesota.....                              | 18             | 10                                 | 2,717          | 17,309            | 1,916              | 4,109             | 10,117          | 40,729                               | 39,760            | 78,934             | 1,571                     | 2,744            | 24,971                               |
| Missouri.....                               | 23             | 15                                 | 3,478          | 19,495            | 2,182              | 4,307             | 11,393          | 31,245                               | 33,370            | 64,167             | 613                       | 3,783            | 33,016                               |
| South Atlantic.....                         | 55             | 27                                 | 3,484          | 18,868            | 2,573              | 5,291             | 12,112          | 41,843                               | 48,125            | 89,039             | 1,635                     | 2,473            | 18,667                               |
| North Carolina.....                         | 8              | 6                                  | 922            | 4,768             | 716                | 1,474             | 3,625           | 10,589                               | 8,390             | 19,070             | 122                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Georgia.....                                | 9              | 4                                  | 772            | 4,321             | 543                | 1,159             | 2,349           | 6,934                                | 8,383             | 15,174             | 515                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Florida.....                                | 23             | 6                                  | 325            | 1,639             | 229                | 459               | 983             | 3,066                                | 3,822             | 6,813              | 158                       | 202              | 1,375                                |
| East South Central.....                     | 24             | 13                                 | 3,123          | 17,442            | 2,480              | 5,069             | 12,241          | 48,654                               | 58,135            | 104,121            | 2,266                     | 1,871            | 16,042                               |
| Tennessee.....                              | 12             | 4                                  | 537            | 2,341             | 387                | 796               | 1,633           | 8,003                                | 10,180            | 18,521             | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                     | 1963           |                           |               |          |                    |           |           |                                      |                   |                    | 1958                      |                  |                                      |
|--|----------------|---------------------------|---------------|----------|--------------------|-----------|-----------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                           | All employees |          | Production workers |           |           | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total          | With 20 employees or more | Total         | Payroll  | Total              | Man-hours | Wages     |                                      |                   |                    |                           |                  |                                      |
| (number)   | (number)       | (number)                  | (\$1,000)     | (number) | (1,000)            | (\$1,000) | (\$1,000) | (\$1,000)                            | (\$1,000)         | (\$1,000)          | (number)                  | (\$1,000)        |                                      |
| INDUSTRY 3585.—REFRIGERATION MACHINERY—Continued |                |                           |               |          |                    |           |           |                                      |                   |                    |                           |                  |                                      |
| West South Central.                              | 81             | 43                        | 6,076         | 29,716   | 4,638              | 9,299     | 18,873    | 65,698                               | 92,940            | 152,129            | 2,593                     | 4,120            | 35,683                               |
| Arkansas.....                                    | 6              | 3                         | 369           | 1,798    | 283                | 575       | 1,172     | 4,269                                | 4,995             | 9,377              | 136                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Oklahoma.....                                    | 13             | 7                         | 806           | 3,564    | 643                | 1,280     | 2,444     | 6,222                                | 10,150            | 16,309             | 546                       | 180              | 1,542                                |
| Texas.....                                       | 58             | 33                        | 4,879         | 24,238   | 3,694              | 7,402     | 15,167    | 55,104                               | 77,360            | 125,880            | 1,909                     | 3,844            | 33,675                               |
| Mountain.....                                    | 17             | 8                         | 1,579         | 8,802    | 1,174              | 2,131     | 6,215     | 18,605                               | 18,504            | 36,760             | 559                       | 1,065            | 7,313                                |
| Arizona.....                                     | 7              | 4                         | 1,290         | 7,368    | 964                | 1,715     | 5,219     | 14,049                               | 14,618            | 28,609             | 460                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pacific.....                                     | 113            | 41                        | 3,812         | 23,799   | 2,601              | 5,125     | 14,542    | 34,571                               | 46,988            | 83,741             | 869                       | 3,564            | 29,227                               |
| Washington.....                                  | 7              | 4                         | 292           | 1,869    | 163                | 290       | 985       | 2,201                                | 2,076             | 4,485              | 85                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                                  | 92             | 35                        | 3,349         | 20,869   | 2,322              | 4,603     | 12,850    | 30,635                               | 42,340            | 75,005             | 748                       | 3,245            | 26,211                               |
| INDUSTRY 3586.—MEASURING AND DISPENSING PUMPS    |                |                           |               |          |                    |           |           |                                      |                   |                    |                           |                  |                                      |
| Total.....                                       | 43             | 27                        | 6,768         | 41,732   | 4,499              | 8,913     | 23,155    | 91,713                               | 71,213            | 159,487            | 2,604                     | 6,201            | 64,689                               |
| Northeast.....                                   | 13             | 8                         | 2,109         | 13,292   | 1,250              | 2,303     | 6,711     | 24,561                               | 18,491            | 40,935             | 710                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| New York.....                                    | 5              | 3                         | 190           | 1,116    | 118                | 234       | 638       | 2,168                                | 548               | 2,727              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| East North Central.                              | 13             | 9                         | 2,385         | 15,223   | 1,607              | 3,209     | 8,435     | 33,495                               | 26,620            | 59,874             | 1,263                     | 2,711            | 32,327                               |
| West North Central.                              | 6              | 5                         | 1,353         | 7,542    | 1,068              | 2,209     | 5,257     | 22,707                               | 11,608            | 33,713             | 396                       | 1,451            | 13,295                               |
| South.....                                       | 6              | 3                         | 854           | 5,308    | 534                | 1,108     | 2,589     | 10,052                               | 14,069            | 23,697             | 222                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West.....  | 5              | 2                         | 67            | 367      | 40                 | 84        | 163       | 898                                  | 425               | 1,268              | 13                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| INDUSTRY 3589.—SERVICE INDUSTRY MACHINES, N.E.C. |                |                           |               |          |                    |           |           |                                      |                   |                    |                           |                  |                                      |
| Total.....                                       | 506            | 142                       | 15,257        | 96,834   | 9,524              | 19,423    | 51,279    | 192,379                              | 185,121           | 378,300            | 5,278                     | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| New England.....                                 | 24             | 12                        | 1,257         | 8,444    | 784                | 1,585     | 3,966     | 16,994                               | 13,222            | 30,213             | 270                       | 532              | 5,335                                |
| Massachusetts....                                | 13             | 8                         | 853           | 5,792    | 569                | 1,174     | 3,104     | 11,243                               | 10,213            | 21,204             | 181                       | 353              | 3,461                                |
| Middle Atlantic....                              | 122            | 33                        | 3,189         | 19,674   | 2,139              | 4,360     | 11,851    | 37,353                               | 31,443            | 68,577             | 713                       | 2,733            | 22,820                               |
| New York.....                                    | 54             | 9                         | 824           | 5,315    | 591                | 1,246     | 3,380     | 10,651                               | 8,030             | 18,392             | 232                       | 905              | 7,824                                |
| New Jersey.....                                  | 34             | 14                        | 1,446         | 9,033    | 991                | 2,020     | 5,635     | 15,323                               | 13,300            | 28,474             | 207                       | 1,136            | 10,018                               |
| Pennsylvania.....                                | 34             | 10                        | 919           | 5,326    | 557                | 1,094     | 2,836     | 11,379                               | 10,113            | 21,711             | 274                       | 692              | 4,978                                |
| East North Central.                              | 160            | 57                        | 6,379         | 41,051   | 3,726              | 7,639     | 20,281    | 83,787                               | 93,476            | 178,545            | 2,918                     | 4,792            | 60,404                               |
| Ohio.....  | 31             | 15                        | 1,474         | 9,310    | 1,042              | 2,093     | 5,879     | 23,316                               | 24,582            | 49,423             | 848                       | 994              | 12,554                               |
| Indiana.....                                     | 15             | 3                         | 301           | 1,790    | 230                | 465       | 1,204     | 2,577                                | 2,545             | 5,003              | (D)                       | 255              | 2,628                                |
| Illinois.....                                    | 79             | 34                        | 3,843         | 24,604   | 2,035              | 4,217     | 11,156    | 46,714                               | 53,619            | 100,807            | 1,476                     | 2,973            | 35,790                               |
| Michigan.....                                    | 14             | 3                         | 477           | 3,925    | 216                | 439       | 1,145     | 7,879                                | 7,619             | 14,929             | 342                       | 304              | 6,895                                |
| Wisconsin.....                                   | 21             | 2                         | 284           | 1,422    | 203                | 425       | 897       | 3,301                                | 5,111             | 8,383              | (D)                       | 266              | 2,537                                |
| West North Central.                              | 38             | 15                        | 1,895         | 11,776   | 1,138              | 2,268     | 5,542     | 24,279                               | 19,138            | 42,754             | 605                       | 1,049            | 11,081                               |
| Minnesota.....                                   | 18             | 5                         | 869           | 6,194    | 408                | 845       | 2,190     | 11,594                               | 10,664            | 22,035             | 303                       | 606              | 7,230                                |
| Missouri.....                                    | 12             | 7                         | 671           | 3,556    | 515                | 1,052     | 2,384     | 7,027                                | 4,425             | 11,177             | 214                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South.....                                       | 68             | 8                         | 1,042         | 5,767    | 710                | 1,484     | 3,425     | 10,818                               | 9,400             | 20,319             | 192                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Florida.....                                     | 16             | 2                         | 132           | 757      | 92                 | 195       | 442       | 948                                  | 988               | 2,035              | 41                        | 2,151            | 21,260                               |
| West.....  | 94             | 17                        | 1,495         | 10,122   | 1,027              | 2,087     | 6,214     | 19,148                               | 18,442            | 37,892             | 580                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                                  | 77             | 15                        | 1,347         | 9,135    | 937                | 1,906     | 5,644     | 17,407                               | 16,522            | 34,282             | 548                       | 1,394            | 14,313                               |
| INDUSTRY 3599.—MISCELLANEOUS MACHINERY           |                |                           |               |          |                    |           |           |                                      |                   |                    |                           |                  |                                      |
| Total.....                                       | 12,090         | 1,402                     | 135,820       | 793,629  | 108,445            | 224,320   | 593,147   | 1,366,327                            | 673,823           | 2,036,299          | 71,729                    | 115,659          | 959,939                              |
| New England.....                                 | 1,026          | 143                       | 11,878        | 69,482   | 9,434              | 19,961    | 50,651    | 107,247                              | 47,441            | 154,604            | 5,920                     | 9,365            | 68,458                               |
| Maine.....                                       | 31             | 4                         | 290           | 1,355    | 214                | 420       | 884       | 1,683                                | 1,066             | 2,751              | 89                        | 332              | 2,197                                |
| New Hampshire....                                | 52             | 5                         | 468           | 2,397    | 387                | 797       | 1,820     | 3,919                                | 1,331             | 5,243              | 186                       | 221              | 1,427                                |
| Vermont.....                                     | 19             | 1                         | 129           | 514      | 106                | 235       | 411       | 1,330                                | 385               | 1,696              | 38                        | 106              | 576                                  |
| Massachusetts....                                | 464            | 75                        | 5,349         | 30,878   | 4,227              | 8,742     | 22,456    | 47,092                               | 20,622            | 67,580             | 3,291                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Rhode Island.....                                | 84             | 6                         | 830           | 4,221    | 664                | 1,295     | 3,132     | 6,767                                | 2,551             | 9,312              | 298                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Connecticut.....                                 | 376            | 52                        | 4,812         | 30,117   | 3,836              | 8,472     | 21,948    | 46,456                               | 21,486            | 68,022             | 2,018                     | 4,313            | 33,450                               |
| Middle Atlantic....                              | 2,278          | 273                       | 23,008        | 131,511  | 18,706             | 38,717    | 99,612    | 217,233                              | 100,541           | 315,780            | 11,693                    | 21,867           | 165,380                              |
| New York.....                                    | 969            | 121                       | 9,290         | 53,993   | 7,579              | 15,829    | 40,664    | 90,584                               | 39,678            | 129,123            | 4,676                     | 9,458            | 72,423                               |
| New Jersey.....                                  | 648            | 52                        | 5,635         | 32,806   | 4,547              | 9,467     | 24,979    | 53,737                               | 24,204            | 77,446             | 3,252                     | 5,429            | 39,655                               |
| Pennsylvania.....                                | 661            | 100                       | 8,083         | 44,712   | 6,580              | 13,421    | 33,969    | 72,912                               | 36,659            | 109,211            | 3,765                     | 6,980            | 53,302                               |
| East North Central.                              | 2,989          | 408                       | 43,950        | 261,223  | 34,312             | 71,086    | 188,462   | 482,705                              | 239,843           | 719,996            | 24,192                    | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Ohio.....  | 846            | 108                       | 10,019        | 55,529   | 8,241              | 17,003    | 42,384    | 99,345                               | 55,192            | 153,254            | 4,396                     | 9,339            | 71,577                               |
| Illinois.....                                    | 715            | 108                       | 10,872        | 65,552   | 8,080              | 17,128    | 43,840    | 114,860                              | 57,877            | 171,608            | 6,184                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                     | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3599.—MISCELLANEOUS MACHINERY—Continued |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| West North Central.                              | 722            | 101                                | 12,192         | 71,518            | 9,727              | 20,318            | 53,618          | 117,431                              | 62,923            | 181,304            | 4,916                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Minnesota.....                                   | 214            | 47                                 | 3,075          | 18,319            | 2,513              | 5,327             | 13,942          | 29,273                               | 13,551            | 42,452             | 1,719                     | 2,150            | 17,526                               |
| Iowa.....  | 109            | 6                                  | 701            | 3,248             | 597                | 1,263             | 2,578           | 5,834                                | 2,254             | 8,093              | 407                       | 510              | 3,899                                |
| Missouri.....                                    | 213            | 32                                 | 6,176          | 37,697            | 4,712              | 9,638             | 27,450          | 59,047                               | 34,043            | 94,433             | 1,736                     | 4,571            | 38,605                               |
| Nebraska.....                                    | 51             | 2                                  | 201            | 1,014             | 174                | 360               | 858             | 1,793                                | 841               | 2,630              | 146                       | 203              | 1,558                                |
| Kansas.....                                      | 106            | 13                                 | 1,732          | 9,489             | 1,470              | 3,154             | 7,388           | 18,567                               | 10,224            | 28,806             | 783                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South Atlantic.....                              | 804            | 90                                 | 8,515          | 43,911            | 6,908              | 14,476            | 33,816          | 71,760                               | 36,533            | 107,853            | 4,432                     | 6,387            | 45,507                               |
| Delaware.....                                    | 21             | 2                                  | 195            | 1,019             | 159                | 316               | 835             | 1,798                                | 930               | 2,733              | 386                       | 123              | 788                                  |
| Maryland.....                                    | 93             | 18                                 | 2,308          | 14,151            | 1,798              | 3,861             | 10,308          | 23,814                               | 7,990             | 31,708             | 1,585                     | 1,439            | 10,121                               |
| District of Columbia.....                        | 10             | 2                                  | 128            | 764               | 102                | 200               | 585             | 1,237                                | 495               | 1,735              | 71                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Virginia.....                                    | 90             | 11                                 | 825            | 3,791             | 685                | 1,399             | 2,952           | 6,307                                | 3,855             | 10,138             | 382                       | 576              | 3,638                                |
| West Virginia....                                | 74             | 10                                 | 660            | 3,511             | 538                | 1,056             | 2,691           | 5,805                                | 3,693             | 9,471              | 263                       | 667              | 4,830                                |
| North Carolina...                                | 148            | 17                                 | 1,144          | 5,222             | 961                | 1,969             | 4,114           | 8,477                                | 5,313             | 13,755             | 359                       | 1,050            | 7,181                                |
| South Carolina...                                | 46             | 4                                  | 929            | 4,572             | 742                | 1,700             | 3,556           | 5,890                                | 2,945             | 8,832              | 231                       | 490              | 3,110                                |
| Georgia.....                                     | 121            | 5                                  | 713            | 3,376             | 605                | 1,249             | 2,804           | 5,819                                | 4,040             | 9,636              | 388                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Florida.....                                     | 201            | 21                                 | 1,613          | 7,505             | 1,318              | 2,726             | 5,971           | 12,613                               | 7,272             | 19,845             | 767                       | 1,266            | 9,984                                |
| East South Central.                              | 349            | 33                                 | 4,447          | 21,279            | 3,763              | 7,412             | 16,825          | 41,757                               | 25,963            | 67,625             | 2,605                     | 4,082            | 34,960                               |
| Kentucky.....                                    | 76             | 8                                  | 1,767          | 8,120             | 1,527              | 2,964             | 6,586           | 18,263                               | 11,648            | 30,012             | 786                       | 1,643            | 14,288                               |
| Tennessee.....                                   | 120            | 14                                 | 1,436          | 6,580             | 1,221              | 2,365             | 5,238           | 11,394                               | 6,841             | 18,238             | 1,208                     | 1,425            | 12,202                               |
| Alabama.....                                     | 103            | 5                                  | 736            | 3,751             | 605                | 1,211             | 2,937           | 7,428                                | 4,311             | 11,543             | 360                       | 643              | 5,161                                |
| Mississippi.....                                 | 50             | 6                                  | 508            | 2,828             | 410                | 872               | 2,064           | 4,672                                | 3,163             | 7,832              | 261                       | 371              | 3,309                                |
| West South Central.                              | 970            | 79                                 | 6,989          | 36,394            | 5,681              | 11,658            | 28,694          | 62,075                               | 33,780            | 95,885             | 3,804                     | 5,979            | 49,109                               |
| Arkansas.....                                    | 61             | 5                                  | 366            | 1,715             | 306                | 658               | 1,378           | 2,891                                | 1,721             | 4,630              | 196                       | 311              | 2,429                                |
| Louisiana.....                                   | 119            | 14                                 | 1,124          | 6,211             | 867                | 1,817             | 4,676           | 10,096                               | 5,130             | 15,196             | 543                       | 977              | 7,372                                |
| Oklahoma.....                                    | 168            | 10                                 | 1,118          | 5,517             | 908                | 1,800             | 4,335           | 9,142                                | 4,365             | 13,513             | 699                       | 1,112            | 8,634                                |
| Texas.....                                       | 622            | 50                                 | 4,381          | 22,951            | 3,600              | 7,383             | 18,305          | 39,946                               | 22,564            | 62,546             | 2,366                     | 3,579            | 30,674                               |
| Mountain.....                                    | 336            | 34                                 | 3,236          | 17,539            | 2,739              | 5,543             | 14,333          | 28,189                               | 13,796            | 42,213             | 1,479                     | 2,394            | 21,025                               |
| Idaho.....                                       | 25             | 1                                  | 102            | 531               | 86                 | 177               | 413             | 925                                  | 874               | 1,785              | 97                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Colorado.....                                    | 86             | 11                                 | 1,195          | 5,915             | 1,034              | 1,976             | 5,035           | 9,974                                | 5,727             | 15,762             | 440                       | 1,081            | 11,168                               |
| New Mexico.....                                  | 54             | 4                                  | 383            | 2,371             | 318                | 703               | 1,838           | 4,043                                | 1,989             | 6,130              | 204                       | 309              | 2,332                                |
| Utah.....  | 37             | 4                                  | 362            | 1,941             | 313                | 634               | 1,662           | 2,943                                | 1,015             | 4,006              | 108                       | 197              | 1,495                                |
| Pacific.....                                     | 2,616          | 241                                | 21,605         | 140,772           | 17,175             | 35,149            | 107,136         | 237,930                              | 113,003           | 351,039            | 12,688                    | 18,115           | 175,757                              |
| Washington.....                                  | 168            | 14                                 | 1,508          | 9,279             | 1,208              | 2,362             | 7,271           | 14,739                               | 10,893            | 25,727             | 666                       | 1,334            | 14,423                               |
| Oregon.....                                      | 139            | 11                                 | 1,207          | 7,378             | 965                | 1,839             | 5,756           | 13,776                               | 6,836             | 20,166             | 676                       | 886              | 8,321                                |
| California.....                                  | 2,286          | 215                                | 18,769         | 123,422           | 14,905             | 30,746            | 93,568          | 208,273                              | 94,673            | 303,378            | 11,244                    | 15,895           | 153,013                              |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies.. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.  
SIC 3581, Automatic Vending Machines: New England—Massachusetts, 4 (1,000-2,499); Rhode Island, 1 (20-99); Connecticut, 1 (250-499); Middle Atlantic—New Jersey, 6 (697); East North Central—Ohio, 7 (157); Indiana, 6 (300); Michigan, 6 (547); Wisconsin, 4 (477); West North Central—Iowa, 4 (133); Nebraska, 1 (1-19); Kansas, 3 (100-249); South Atlantic—Maryland, 4 (250-499); District of Columbia, 1 (1-19); West Virginia, 1 (100-249); North Carolina, 1 (1-19); Georgia, 3 (20-99); Florida, 4 (20-99); East South Central—Tennessee, 3 (448); Alabama, 1 (1-19); West South Central—Arkansas, 1 (20-99); Oklahoma, 2 (1-19); Mountain—Arizona, 2 (1-19); Utah, 1 (1-19).  
SIC 3582, Commercial Laundry Equipment: New England—Maine, 1 (100-249); Rhode Island, 1 (1-19); Connecticut, 4 (20-99); Middle Atlantic—New Jersey, 5 (100-249); Pennsylvania, 5 (20-99); East North Central—Indiana, 5 (20-99); Illinois, 17 (1,000-2,499); Michigan, 5 (124); Wisconsin, 2 (100-249); West North Central—Minnesota, 4 (612); Missouri, 3 (100-249); Nebraska, 1 (1-19); Kansas, 1 (100-249); South Atlantic—Maryland, 1 (1-19); Virginia, 1 (1-19); Georgia, 1 (20-99); Florida, 1 (1-19); East South Central—Kentucky, 2 (250-499); Tennessee, 2 (100-249); Alabama, 2 (1-19); West South Central—Arkansas, 2 (20-99); Louisiana, 1 (100-249); Oklahoma, 3 (20-99); Mountain—Colorado, 1 (1-19); Utah, 1 (250-499); Pacific—Washington, 1 (20-99); California, 10 (20-99).  
SIC 3585, Refrigeration Machinery: New England—Massachusetts, 15 (764); Rhode Island, 5 (133); West North Central—Iowa, 6 (761); Nebraska, 2 (1-19); Kansas, 6 (250-499); South Atlantic—Delaware, 1 (100-249); Maryland, 5 (270); Virginia, 4 (966); West Virginia, 2 (20-99); South Carolina, 3 (20-99); East South Central—Kentucky, 4 (1,376); Alabama, 5 (717); Mississippi, 3 (493); West South Central—Louisiana, 4 (20-99); Mountain—Idaho, 1 (20-99); Colorado, 4 (20-99); New Mexico, 3 (20-99); Utah, 1 (100-249); Nevada, 1 (20-99); Pacific—Oregon, 13 (100-249); Hawaii, 1 (1-19).  
SIC 3586, Measuring and Dispensing Pumps: New England—Vermont, 1 (100-249); Massachusetts, 3 (1,000-2,499); Middle Atlantic—New Jersey, 1 (1-19); Pennsylvania, 3 (500-999); East North Central—Ohio, 4 (227); Indiana, 3 (500-999); Illinois, 2 (500-999); Michigan, 3 (381); Wisconsin, 1 (20-99); West North Central—Minnesota, 3 (516); Iowa, 1 (100-249); Missouri, 1 (500-999); Nebraska, 1 (1-19); Kansas, 1 (100-249); South Atlantic—Maryland, 1 (250-499); North Carolina, 1 (1-19); Florida, 1 (1-19); East South Central—Tennessee, 1 (250-499); West South Central—Oklahoma, 1 (1-19); Texas, 1 (100-249); Mountain—Colorado, 1 (1-19); Pacific—California, 4 (20-99).  
SIC 3589, Service Industry Machines, N.E.C.: New England—New Hampshire, 2 (100-249); Vermont, 1 (20-99); Rhode Island, 2 (1-19); Connecticut, 6 (20-99); West North Central—Iowa, 2 (20-99); Nebraska, 3 (20-99); Kansas, 3 (238); South Atlantic—Maryland, 3 (255); Virginia, 2 (1-19); West Virginia, 1 (1-19); North Carolina, 6 (100-249); South Carolina, 1 (1-19); Georgia, 3 (1-19); East South Central—Kentucky, 2 (100-249); Tennessee, 1 (1-19); Alabama, 2 (1-19); West South Central—Louisiana, 8 (100-249); Oklahoma, 5 (1-19); Texas, 18 (100-249); Mountain—Colorado, 7 (20-99); New Mexico, 1 (1-19); Arizona, 1 (1-19); Utah, 2 (1-19); Pacific—Washington, 3 (20-99); Oregon, 2 (20-99); Hawaii, 1 (1-19).  
SIC 3599, Miscellaneous Machinery: East North Central—Indiana, 279 (5,872); Michigan, 834 (13,896); Wisconsin, 315 (3,291); West North Central—North Dakota, 18 (20-99); South Dakota, 11 (209); Mountain—Montana, 24 (20-99); Wyoming, 16 (20-99); Arizona, 83 (1,023); Nevada, 11 (20-99); Pacific—Alaska, 8 (20-99); Hawaii, 15 (20-99).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.  
<sup>3</sup>Data for 1958 exclude those establishments primarily engaged in producing industrial vacuum cleaners. In 1958 there were 18 such establishments with 432 employees and a value added (adjusted) of \$4,256 thousand.



TABLE 3. Detailed Statistics: 1963

| Item  | Automatic vending machines (SIC 3581) | Commercial laundry equipment (SIC 3582) | Refrigeration machinery (SIC 3585) | Measuring and dispensing pumps (SIC 3586) | Service industry machines, n.e.c. (SIC 3589) | Miscellaneous machinery (SIC 3599) |
|---|---------------------------------------|---|------------------------------------|---|--|------------------------------------|
| Primary product specialization ratio <sup>1</sup> .....         | .81                                   | .91                                     | ( <sup>3</sup> )                   | .73                                       | .86  | .90                                |
| Coverage ratio <sup>2</sup> .....                               | .90                                   | .89                                     | ( <sup>3</sup> )                   | .85                                       | .84  | .90                                |
| Establishments, total..... number..                             | 158                                   | 115                                     | 698                                | 43  | 506  | 12,090                             |
| With 1 to 19 employees..... do....                              | 90                                    | 57                                      | 351                                | 16  | 364  | 10,688                             |
| With 20 to 99 employees..... do....                             | 44                                    | 40                                      | 211                                | 11  | 104  | 1,267                              |
| With 100 employees or more..... do....                          | 24                                    | 18                                      | 136                                | 16  | 38   | 135                                |
| Proprietors and working partners..... do....                    | 44                                    | 39                                      | 186                                | 4   | 170  | 8,714                              |
| All employees (average for the year)..... do....                | 11,672                                | 6,542                                   | 72,330                             | 6,768                                     | 15,257                                       | 135,820                            |
| Payroll (all employees), total for year..... \$1,000..          | 64,791                                | 37,929                                  | 432,583                            | 41,732                                    | 96,834                                       | 793,629                            |
| Production workers:   |                                       |   |                                    |   |  |                                    |
| Average for the year..... number..                              | 8,442                                 | 4,667                                   | 450,676                            | 4,499                                     | 9,524  | 108,445                            |
| March..... do....   | 8,410                                 | 4,771                                   | 51,139                             | 4,323                                     | 9,307  | 107,408                            |
| May..... do....   | 8,783                                 | 4,707                                   | 53,170                             | 4,536                                     | 9,537  | 108,443                            |
| August..... do....  | 8,337                                 | 4,561                                   | 48,987                             | 4,696                                     | 9,639  | 109,074                            |
| November..... do....  | 8,249                                 | 4,629                                   | 49,422                             | 4,435                                     | 9,631  | 109,450                            |
| Man-hours..... 1,000..  | 16,790                                | 9,605                                   | 101,231                            | 8,913                                     | 19,423                                       | 224,320                            |
| January-March..... do....                                       | 4,169                                 | 2,445                                   | 25,146                             | 2,158                                     | 4,722  | 55,182                             |
| April-June..... do....  | 4,361                                 | 2,405                                   | 27,325                             | 2,396                                     | 4,927  | 56,267                             |
| July-September..... do....                                      | 4,088                                 | 2,328                                   | 23,544                             | 2,223                                     | 4,811  | 55,292                             |
| October-December..... do....                                    | 4,172                                 | 2,427                                   | 25,216                             | 2,143                                     | 4,963  | 57,579                             |
| Wages..... \$1,000..  | 40,427                                | 23,462                                  | 268,304                            | 23,155                                    | 51,279                                       | 593,147                            |
| Cost of materials, etc., total..... do....                      | 116,908                               | 64,925                                  | 1,059,887                          | 71,213                                    | 185,121                                      | 673,823                            |
| Materials, parts, containers, and supplies consumed..... do.... | 108,790                               | 57,531                                  | 958,092                            | 59,780                                    | 150,797                                      | 528,661                            |
| Cost of resales..... do....                                     | 2,914                                 | 4,737                                   | 70,258                             | 9,440                                     | 26,419                                       | 43,901                             |
| Fuels consumed..... do....                                      | 948                                   | 378                                     | 4,905                              | 374                                       | 710  | 7,208                              |
| Electric energy:  |                                       |   |                                    |   |  |                                    |
| Purchased:  |                                       |   |                                    |   |  |                                    |
| Quantity..... million kw.-hrs..                                 | 73                                    | 26                                      | 616                                | 35  | 144  | 881                                |
| Cost..... \$1,000..   | 1,160                                 | 541                                     | 7,940                              | 601                                       | 1,102  | 15,046                             |
| Generated less sold..... million kw.-hrs..                      | (D)                                   | (D)                                     | (D)                                | -   | -  | 3                                  |
| Contract work..... \$1,000..                                    | 3,096                                 | 1,738                                   | 18,692                             | 1,018                                     | 6,093  | 79,007                             |
| Value of shipments (including resales), total..... do....       | 238,000                               | 136,757                                 | 1,928,001                          | 159,487                                   | 378,300                                      | 2,036,299                          |
| Value of resales..... do....                                    | 4,032                                 | 6,493                                   | 90,945                             | 14,347                                    | 33,799                                       | 57,109                             |
| Value added by manufacture, adjusted..... do....                | 121,365                               | 70,771                                  | 892,686                            | 91,713                                    | 192,379                                      | 1,366,327                          |
| Manufacturers' inventories:                                     |                                       |   |                                    |   |  |                                    |
| Beginning of year, total..... do....                            | 54,036                                | 33,017                                  | 387,771                            | 36,307                                    | 68,646                                       | 230,974                            |
| Finished products..... do....                                   | 16,792                                | 9,840                                   | 146,916                            | 11,313                                    | 20,014                                       | 72,642                             |
| Work-in-process..... do....                                     | 17,135                                | 7,151                                   | 115,134                            | 15,521                                    | 25,282                                       | 91,905                             |
| Materials, supplies, fuel, etc..... do....                      | 20,109                                | 16,026                                  | 125,721                            | 9,473                                     | 23,350                                       | 66,427                             |
| End of year, total..... do....                                  | 53,968                                | 32,697                                  | 417,090                            | 37,212                                    | 68,744                                       | 233,457                            |
| Finished products..... do....                                   | 18,678                                | 9,230                                   | 154,889                            | 11,568                                    | 18,869                                       | 74,205                             |
| Work-in-process..... do....                                     | 15,522                                | 6,700                                   | 132,258                            | 18,705                                    | 25,627                                       | 94,193                             |
| Materials, supplies, fuel, etc..... do....                      | 19,768                                | 16,767                                  | 129,943                            | 6,939                                     | 24,248                                       | 65,059                             |
| Expenditures for plant and equipment, total..... do....         | 4,487                                 | 2,848                                   | 35,569                             | 2,742                                     | 5,724  | 87,386                             |
| New, total..... do....  | 3,479                                 | 2,487                                   | 33,471                             | 2,604                                     | 5,278  | 71,729                             |
| New structures and additions to plant..... do....               | 491                                   | 1,126                                   | 9,838                              | 484                                       | 2,250  | 20,595                             |
| New machinery and equipment..... do....                         | 2,989                                 | 1,361                                   | 23,633                             | 2,120                                     | 3,028  | 51,134                             |
| Used plant and equipment..... do....                            | 1,008                                 | 361                                     | 2,098                              | 138                                       | 446  | 15,658                             |
| Selected operating ratios:                                      |                                       |   |                                    |   |  |                                    |
| Payroll/Total employment.....                                   | 5,551                                 | 5,798                                   | 5,981                              | 6,166                                     | 6,347  | 5,843                              |
| Production workers/Total employment.....                        | .72                                   | .71                                     | .70                                | .66                                       | .62  | .80                                |
| Man-hours/Production workers.....                               | 1,989                                 | 2,058                                   | 1,998                              | 1,981                                     | 2,039  | 2,069                              |
| Production worker wages/Man-hours.....                          | 2.41                                  | 2.44                                    | 2.65                               | 2.60                                      | 2.64   | 2.64                               |
| Cost of materials and payrolls/Total value of shipments.....    | .76                                   | .75                                     | .77                                | .71                                       | .75  | .72                                |
| Cost of materials/Total value of shipments.....                 | .49                                   | .47                                     | .55                                | .45                                       | .49  | .33                                |
| Adjusted value added/Total employment.....                      | 10,398                                | 10,818                                  | 12,342                             | 13,551                                    | 12,609                                       | 10,059                             |
| Salaries and wages/Adjusted value added.....                    | .53                                   | .54                                     | .48                                | .46                                       | .50  | .58                                |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

<sup>3</sup>The specialization and coverage ratios are not shown for industry 3585 as the data from which these ratios are obtained include extensive duplication because the products of some establishments in the industry are consumed as materials by other establishments in the industry.

<sup>4</sup>For this industry respondents additionally reported the number of production workers in the pay period ended nearest the 15th of each month. This information is summarized below. The average number of production workers appearing above and in tables 1, 2, and 8 are computed on the basis of the average for the months of March, May, August and November.

| Average number of production workers |        |                       |
|--------------------------------------|--------|-----------------------|
| 12 months.....                       | 50,298 | May..... 53,170       |
| January.....                         | 48,722 | June..... 52,995      |
| February.....                        | 49,994 | July..... 50,029      |
| March.....                           | 51,139 | August..... 48,987    |
| April.....                           | 51,408 | September..... 48,338 |
|                                      |        | October..... 49,395   |
|                                      |        | November..... 49,422  |
|                                      |        | December..... 49,984  |



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item   | Establishments, total | Establishments with an average of- |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3581.—AUTOMATIC VENDING MACHINES        |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 158                   | 44                                 | 20               | 26                 | 24                 | 20                 | 13                   | 5                    | 4                    | 2                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 11,672                | 86                                 | 126              | 369                | 808                | 1,474              | 2,072                | 1,777                | <u>4,960</u>         | (D)                      | -                        |
| Payroll.....\$1,000..                            | 64,791                | 372                                | 511              | 1,751              | 4,321              | 7,089              | 10,775               | 9,164                | <u>30,808</u>        | (D)                      | -                        |
| Value added, adjusted.....do....                 | 121,365               | 752                                | 703              | 3,443              | 7,285              | 10,264             | 20,331               | 23,774               | <u>54,813</u>        | (D)                      | -                        |
| Value of shipments.....do....                    | 238,000               | 1,436                              | 1,352            | 7,922              | 13,085             | 22,909             | 41,895               | 51,266               | <u>98,135</u>        | (D)                      | -                        |
| Capital expenditures, new...do....               | 3,479                 | 77                                 | 86               | 252                | 345                | 407                | 843                  | 996                  | <u>473</u>           | (D)                      | -                        |
| INDUSTRY 3582.—COMMERCIAL LAUNDRY EQUIPMENT      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 115                   | 35                                 | 13               | 9                  | 27                 | 13                 | 12                   | 3                    | 3                    | -                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 6,542                 | 65                                 | 91               | 133                | 820                | 930                | 1,733                | <u>2,770</u>         | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                            | 37,929                | 384                                | 518              | 768                | 4,988              | 5,422              | 9,360                | <u>16,489</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....                 | 70,771                | 740                                | 958              | 1,871              | 10,836             | 11,318             | 16,001               | <u>29,077</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....                    | 136,757               | 1,575                              | 2,307            | 3,179              | 21,896             | 20,278             | 34,967               | <u>52,555</u>        | (D)                  | -                        | -                        |
| Capital expenditures, new...do....               | 2,487                 | 20                                 | 20               | 35                 | 209                | 190                | 380                  | <u>1,633</u>         | (D)                  | -                        | -                        |
| INDUSTRY 3585.—REFRIGERATION MACHINERY           |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 698                   | 163                                | 94               | 94                 | 132                | 79                 | 70                   | 33                   | 24                   | 5                        | 4                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 72,330                | 280                                | 639              | 1,289              | 4,092              | 5,304              | 10,484               | 11,912               | 16,347               | 8,248                    | 13,735                   |
| Payroll.....\$1,000..                            | 432,583               | 1,422                              | 3,311            | 7,048              | 22,356             | 31,344             | 58,695               | 67,952               | 95,887               | 50,240                   | 94,328                   |
| Value added, adjusted.....do....                 | 892,686               | 3,093                              | 5,677            | 13,861             | 46,988             | 55,687             | 121,662              | 134,583              | 221,256              | 103,318                  | 186,561                  |
| Value of shipments.....do....                    | 1,928,001             | 6,980                              | 12,368           | 29,699             | 93,936             | 117,711            | 247,339              | 316,292              | 450,680              | 224,975                  | 428,021                  |
| Capital expenditures, new...do....               | 33,471                | <u>147</u>                         | 163              | 467                | 1,461              | 1,905              | 3,797                | 7,325                | 9,974                | 2,656                    | 5,576                    |
| INDUSTRY 3586.—MEASURING AND DISPENSING PUMPS    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 43                    | 7                                  | 2                | 7                  | 8                  | 3                  | 7                    | 4                    | 5                    | -                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 6,768                 | 30                                 | (D)              | 97                 | 440                | (D)                | 830                  | 1,452                | 3,919                | -                        | -                        |
| Payroll.....\$1,000..                            | 41,732                | <u>160</u>                         | (D)              | 541                | <u>2,497</u>       | (D)                | 4,996                | 8,576                | 24,962               | -                        | -                        |
| Value added, adjusted.....do....                 | 91,713                | <u>140</u>                         | (D)              | 1,171              | <u>4,379</u>       | (D)                | 11,577               | 24,357               | 50,089               | -                        | -                        |
| Value of shipments.....do....                    | 159,487               | <u>459</u>                         | (D)              | 1,843              | <u>8,021</u>       | (D)                | 18,927               | 46,227               | 84,010               | -                        | -                        |
| Capital expenditures, new...do....               | 2,604                 | <u>12</u>                          | (D)              | 33                 | <u>140</u>         | (D)                | 227                  | 457                  | 1,735                | -                        | -                        |
| INDUSTRY 3589.—SERVICE INDUSTRY MACHINES, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 506                   | 181                                | 107              | 76                 | 61                 | 43                 | 30                   | 6                    | 2                    | -                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 15,257                | 302                                | 682              | 1,033              | 2,074              | 3,100              | 4,834                | <u>3,232</u>         | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                            | 96,834                | 1,770                              | 3,420            | 6,496              | 13,297             | 18,142             | 30,416               | <u>23,293</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....                 | 192,379               | 3,561                              | 6,810            | 11,356             | 28,308             | 37,378             | 62,942               | <u>42,024</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....                    | 378,300               | 6,832                              | 13,446           | 24,664             | 51,401             | 72,124             | 122,501              | <u>87,332</u>        | (D)                  | -                        | -                        |
| Capital expenditures, new...do....               | 5,278                 | 139                                | 196              | 283                | 734                | 1,117              | 1,683                | <u>1,126</u>         | (D)                  | -                        | -                        |
| INDUSTRY 3599.—MISCELLANEOUS MACHINERY           |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 12,090                | 6,535                              | 2,316            | 1,837              | 1,051              | 216                | 97                   | 19                   | 12                   | 6                        | 1                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 135,820               | 11,357                             | 15,538           | 24,687             | 30,970             | 14,419             | 14,361               | 6,265                | 7,971                | <u>10,252</u>            | (D)                      |
| Payroll.....\$1,000..                            | 793,629               | 54,485                             | 81,969           | 141,130            | 189,669            | 87,352             | 90,590               | 35,294               | 45,626               | <u>67,514</u>            | (D)                      |
| Value added, adjusted.....do....                 | 1,366,327             | 110,617                            | 143,033          | 231,942            | 297,169            | 140,132            | 156,482              | 65,799               | 83,593               | <u>137,560</u>           | (D)                      |
| Value of shipments.....do....                    | 2,036,299             | 165,566                            | 202,832          | 328,149            | 433,804            | 220,763            | 248,179              | 101,168              | 137,893              | <u>197,945</u>           | (D)                      |
| Capital expenditures, new...do....               | 71,729                | 9,862                              | 9,044            | 12,421             | 14,888             | 7,487              | 6,196                | 4,176                | 2,488                | <u>5,167</u>             | (D)                      |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left. n.e.c Not elsewhere classified.

<sup>1</sup>Includes capital expenditures for plants under construction but not in operation which constitute a small proportion of the total for the size class.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                       | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |  | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3581      | Automatic vending machines.....1963..          | 238,000            | 186,923          | 44,033             | 7,044                  | 81                                   | 206,562                            | 186,923               | 19,639                   | 90                            |
|           | 1958..   | 141,635            | 120,674          | 10,425             | 10,536                 | 92                                   | 130,850                            | 120,674               | 10,176                   | 92                            |
| 3582      | Commercial laundry equipment.....1963..        | 136,757            | 115,796          | 11,939             | 9,022                  | 91                                   | 129,613                            | 115,796               | 13,817                   | 89                            |
|           | 1958..   | 119,499            | 100,751          | 6,558              | 12,190                 | 94                                   | 106,590                            | 100,751               | 5,839                    | 95                            |
| 3585      | Refrigeration machinery.....1963..             | 1,928,001          | 1,588,471        | 193,788            | 145,742                | ( <sup>1</sup> )                     | 2,104,632                          | 1,588,471             | 516,161                  | ( <sup>1</sup> )              |
|           | 1958..   | 1,441,082          | 1,170,030        | 159,941            | 111,111                | ( <sup>1</sup> )                     | 1,435,091                          | 1,170,030             | 265,061                  | ( <sup>1</sup> )              |
| 3586      | Measuring and dispensing pumps....1963..       | 159,487            | 102,529          | 38,201             | 18,757                 | 73                                   | 121,017                            | 102,529               | 18,488                   | 85                            |
|           | 1958..   | 119,045            | 78,590           | 26,477             | 13,978                 | 75                                   | 88,217                             | 78,590                | 9,627                    | 89                            |
| 3589      | Service industry machines,<br>n.e.c.....1963.. | 378,300            | 287,996          | 46,449             | 43,855                 | 86                                   | 341,517                            | 287,996               | 53,521                   | 84                            |
|           | 1958..   | 245,227            | 180,665          | 31,479             | 33,083                 | 85                                   | 221,987                            | 180,642               | 41,345                   | 81                            |
| 3599      | Miscellaneous machinery.....1963..             | 2,036,299          | 1,440,088        | 157,218            | 438,993                | 90                                   | 1,605,915                          | 1,440,088             | 165,827                  | 90                            |
|           | 1958..   | 1,481,295          | 1,003,419        | 91,477             | 386,399                | 92                                   | 1,117,684                          | 1,003,419             | 114,265                  | 90                            |

Note: See appendix A for an explanation of terms used.

n.e.c. Not elsewhere classified.

<sup>1</sup>The total value of shipments of refrigeration machinery includes extensive duplication resulting from the use of products of certain establishments as materials by others within the same industry. Accordingly, the specialization and coverage ratios have not been calculated.







TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963—Continued

| Prod. class code | Class of products and miscellaneous receipts               | All industries | Service industry machines, n.e.c. (SIC 3589) | Other industries | Prod. class code | Class of products and miscellaneous receipts  | All industries | Miscellaneous machinery (SIC 3599) | Other industries |
|------------------|--|----------------|--|------------------|------------------|---|----------------|------------------------------------|------------------|
|                  | SERVICES INDUSTRY MACHINES, N.E.C., INDUSTRY—Continued     |                |  |                  |                  | MISCELLANEOUS MACHINERY INDUSTRY—Continued  |                |                                    |                  |
|                  | Secondary products, total.....                             | (X)            | 1746,449                                     | (X)              |                  | Secondary products—Continued  |                |                                    |                  |
|                  | Miscellaneous receipts, totals.....                        | (X)            | 43,855                                       | (X)              |                  |   |                |                                    |                  |
|                  | Contract and commission work.....                          | (X)            | 1,628  | (X)              | 35414            | Grinding and polishing machines (excluding gear tooth grinding, honing, lapping, polishing and buffing machines)..... | (X)            | 3,058                              | (X)              |
|                  | Sales of products bought and resold.....                   | (X)            | 33,759                                       | (X)              |                  | Special dies and tools, die sets, jigs, and fixtures.....   | (X)            | 9,293                              | (X)              |
|                  | Receipts for installation of products.....                 | (X)            | 2,013  | (X)              | 35441            | Special industry machines, n.e.c..  | (X)            | 3,677                              | (X)              |
|                  | Receipts for repair work.....                              | (X)            | 3,692  | (X)              | 3559-            | General industrial machinery, n.e.c.....  | (X)            | 13,285                             | (X)              |
|                  | Other miscellaneous receipts.....                          | (X)            | 2,723  | (X)              | 35690            | Parts and accessories for passenger cars, trucks, and busses shipped to motor vehicle manufacturers.....              | (X)            | 21,140                             | (X)              |
|                  |  |                |  |                  | 37175            | Other aircraft parts and auxiliary equipment.....   | (X)            | 3,414                              | (X)              |
|                  |  |                |  |                  | 37291            | Other secondary products.....   | (X)            | 19,016                             | (X)              |
|                  | MISCELLANEOUS MACHINERY INDUSTRY                           |                |  |                  |                  | Miscellaneous receipts.....   | (X)            | 438,993                            | (X)              |
|                  | Total shipments and receipts of the industry.....          | (X)            | 2,036,299                                    | (X)              |                  |   |                |                                    |                  |
| 35990            | Carburetors, pistons, and other machine shop products..... | 1,605,915      | 1,440,088                                    | 18165,827        |                  | Contract and commission work.....   | (X)            | 302,869                            | (X)              |
|                  | Secondary products, total.....                             | (X)            | 157,218                                      | (X)              |                  | Sales of products bought and resold.....  | (X)            | 57,109                             | (X)              |
| 33214            | All other gray iron castings.....                          | (X)            | 9,082  | (X)              |                  | Receipts for installation of products.....  | (X)            | 5,524                              | (X)              |
| 33610            | Aluminum and aluminum-base alloy castings.....             | (X)            | 4,253  | (X)              |                  | Research and development.....   | (X)            | 2,626                              | (X)              |
|                  |  |                |  |                  |                  | Receipts for repair work.....   | (X)            | 46,707                             | (X)              |
|                  |  |                |  |                  |                  | Other miscellaneous receipts.....   | (X)            | 24,158                             | (X)              |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Includes \$3.9 million shipped by industry 3585, Refrigeration Machinery. In addition, the following industry had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3651, Radio and TV Receiving Sets.

<sup>2</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 36341, Electric fans, except industrial type; 36343, Other small household electric appliances; 36350, Household vacuum cleaners, including parts and attachments; 36393, Other household appliances and parts; and 36513, Recorders, audio amplifiers, phonographs, tuners, speaker systems, and other audio equipment and accessories.

<sup>3</sup>Includes \$7 million shipped by industry 3633, Household Laundry Equipment.

<sup>4</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 35690, General industrial machinery, n.e.c., and 38213, Industrial process instruments.

<sup>5</sup>The total value of shipments of the Refrigeration Machinery Industry includes extensive duplication resulting from the use of products of some establishments in the industry as materials by others within the same industry.

<sup>6</sup>The following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3494, Valves and Pipe Fittings; 3564, Blowers and Fans; 3631, Household Cooking Equipment; 3639, Household Appliances, N.E.C.; 3651, Radio and TV Receiving Sets; 3717, Motor Vehicles and Parts; and 3729, Aircraft Equipment, N.E.C.

<sup>7</sup>Includes \$17.5 million shipped by industry 3632, Household Refrigerators. In addition, the following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing figures for individual companies: 3589, Service Industry Machines, N.E.C.

<sup>8</sup>The following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing figures for individual companies: 3631, Household Cooking Equipment.

<sup>9</sup>The following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing figures for individual companies: 3351, Copper Rolling and Drawing.

<sup>10</sup>Includes \$7.4 million shipped by industry 3433, Heating Equipment, Except Electric; \$12.3 million shipped by industry 3494, Valves and Pipe Fittings; and \$10.1 million shipped by industry 3632, Household Refrigerators. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3567, Industrial Furnaces and Ovens; 3569, General Industry Machines, N.E.C.; 3723, Aircraft Propellers and Parts; and 3729, Aircraft Equipment, N.E.C.

<sup>11</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 19310, Tanks and tank components; 19410, Sighting and fire-control equipment made from purchased lenses; 24331, Fabricated structural framing and wood laminates, ready-cut wood buildings; and panels or sections for prefabricated buildings; 33620, Copper and copper-base alloy castings; 34333, Cast iron heating boilers, radiators, and convectors, except parts; 34334, Domestic heating stoves (except electric), except parts; 34431, Heat exchangers and steam condensers; 34434, Gas cylinders; 35112, Steam, gas, and hydraulic turbine and parts; steam engines and parts; 35424, Parts for metal forming machine tools and rebuilt metal forming machinery; 35481, Rolling-mill machinery and equipment; 35595, Other special industry machinery, and equipment; 35690, General industrial machinery, n.e.c.; 36312, Household ovens and ranges, equipment and parts, except electric; 37175, Parts and accessories for passenger cars, trucks and busses, shipped to motor vehicle manufacturers; 37176, Parts and accessories for passenger cars, trucks, and busses shipped to other than motor vehicle manufacturers; and 37413, Parts for locomotives, for sale separately, and rebuilt locomotives.

<sup>12</sup>Includes \$6.9 million shipped by industry 3561, Pumps and Compressors. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3494, Valves and Pipe Fittings; and 3548, Metalworking Machinery, N.E.C.

<sup>13</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 34942, Metal fittings and unions for piping systems; 34944, Other metal valves and fittings, except plumbers' brass goods and fittings; 35333, Oil and gas field production machinery and equipment (except pumps); and 35595, Other special industry machinery and equipment.

<sup>14</sup>The following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3631, Household Cooking Equipment; and 3634, Electric Housewares and Fans.



**TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued**

Footnotes for Table 5B--35G--Continued

<sup>15</sup>Includes \$3.8 million shipped by industry 3639, Household Appliances, N.E.C. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 2842, Polishes and Sanitation Goods, and 3535, Conveyors.

<sup>16</sup>Includes \$2.3 million shipped by industry 3548, Metalworking Machinery, N.E.C.

<sup>17</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 35482, Power-driven hand tools including parts and attachments; 35611, Industrial pumps except hydraulic fluid power; 35853, Commercial refrigeration equipment; and 38213, Industrial process instruments.

<sup>18</sup>Includes \$4.5 million shipped by industry 3323, Steel Foundries; \$2.2 million by industry 3361, Aluminum Castings; \$2.3 million by industry 3494, Valves and Pipe Fittings; \$3.8 million by industry 3541, Metal-Cutting Machine Tools; \$11.9 million by industry 3544, Special Dies and Tools; \$2.4 million by industry 3548, Metalworking Machinery, N.E.C.; \$3 million by industry 3559, Special Industry Machines, N.E.C.; \$6.9 million by industry 3561, Pumps and Compressors; \$6.1 million by industry 3569, General Industry Machines, N.E.C.; \$8.9 million by industry 3717, Motor Vehicles and Parts; and \$13.5 million by industry 3729, Aircraft Equipment, N.E.C. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3293, Gaskets and Insulations; 3312, Blast Furnaces and Steel Mills; 3352, Aluminum Rolling and Drawing; 3441, Fabricated Structural Steel; 3461, Metal Stampings; 3624, Carbon and Graphite Products; 3679, Electronic Components, N.E.C.; 3694, Engine Electrical Equipment; 3731, Ship Building and Repairing; and 3821, Mechanical Measuring Devices.

<sup>19</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 19293, Ammunition, n.e.c.; 19990, Ordnance and accessories, n.e.c.; 32933, Packing, except leather, rubber, and metal, and asbestos insulations; 34431, Heat exchangers and steam condensers; 34941, Metal valves for piping systems (except plumbing and heating valves); 34980, Fabricated pipe and fittings; 35370, Industrial trucks and tractors; 35641, Industrial fans and blowers; 36945, Other complete electrical equipment for internal combustion engines; 36946, Components and parts for engine electrical equipment; 37176, Parts and accessories for passenger cars, trucks and busses, shipped to other than motor vehicle manufacturers; and 38214, Motor vehicle instruments, except electric.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code     | Product   | Total shipments including interplant transfers |                        |                               |                        |
|------------------|---|--|------------------------|-------------------------------|------------------------|
|                  |   | 1963   |                        | 1958                          |                        |
|                  |   | Quantity<br>(number of units)                  | Value<br>(\$1,000)     | Quantity<br>(number of units) | Value<br>(\$1,000)     |
| 3581- --         | AUTOMATIC VENDING MACHINES AND PARTS, TOTAL.....  | (X)  | 206,562                | (X)                           | 130,850                |
| 35811 --         | Automatic vending machines (complete units):  |  |                        |                               |                        |
|                  | As reported in the census of manufactures, total.....   | (X)  | 164,338                | (X)                           | <sup>1</sup> 110,548   |
|                  | As reported on Census Annual Form MA-35U, total.....  | (X)  | 163,521                | (X)                           | <sup>1</sup> 108,400   |
|                  | Vending machines for beverages:   |  |                        |                               |                        |
|                  | Coffee: <sup>2</sup>  |  |                        |                               |                        |
| 35810 02         | Instant or liquid concentrates.....   | 6,954  | 2,783                  | 13,093                        | 10,260                 |
| 35810 03         | Fresh brew (batch).....   | 4,133  | 4,991                  |                               |                        |
| 35810 04         | Fresh brew (single cup).....  | 16,226   | 15,887                 |                               |                        |
| 35810 05         | Canned beverages (refrigerated).....  | 4,103  | 2,575                  | ( <sup>3</sup> )              | ( <sup>3</sup> )       |
|                  | Soft drink:   |  |                        |                               |                        |
| 35810 07         | Bottle.....   | 145,433  | 52,722                 | 110,561                       | 36,011                 |
| 35810 08         | Cup (postmix).....  | 13,055   | 18,237                 | 5,445                         | 4,528                  |
| 35810 11         | Cup (premix).....   | 5,088  | 4,467                  | 8,146                         | 4,971                  |
| 35810 01, 06, 19 | Other vending machines for beverages <sup>4</sup> .....   | 5,898  | 4,398                  | <sup>3</sup> 7,883            | <sup>3</sup> 5,315     |
|                  | Vending machines for confections and foods:   |  |                        |                               |                        |
| 35810 21         | Bulk.....   | 113,295  | 1,812                  | 77,423                        | 1,414                  |
| 35810 22         | Candy bar.....  | 41,765   | 13,768                 | 26,271                        | 7,077                  |
| 35810 23         | Hot canned foods and soups.....   | 2,573  | 1,322                  | 31,099                        | 6,418                  |
| 35810 25, 26     | Multipurpose (refrigerated and nonrefrigerated).....  | 4,982  | 6,659                  |                               |                        |
| 35810 24, 27, 29 | Other vending machines for confections and foods <sup>5</sup> .....   | 17,088   | 6,190                  |                               |                        |
|                  | All other vending machines:   |  |                        |                               |                        |
| 35810 31         | Cigarette.....  | 62,793   | 21,311                 | 98,989                        | 27,927                 |
| 35810 33         | Ice.....  | 854  | 2,793                  | 609                           | 1,541                  |
| 35810 35         | Postage stamp.....  | 13,382   | 706                    | 11,105                        | 505                    |
| 35810 39         | All other vending machines except for beverages, confections and foods <sup>6</sup> .....   | 149,043  | 2,900                  | 83,706                        | 2,433                  |
| 35812 --         | Coin-operated mechanisms and parts for automatic vending machines, total..  | (X)  | 32,757                 | (X)                           | <sup>7</sup> 20,302    |
| 35812 51         | Coin-operated mechanisms (for sale separately).....   | 1,120,997                                      | 19,129                 | 800,419                       | 15,624                 |
| 35812 69         | Parts for automatic vending machines (except coin-operated mechanisms)..  | (X)  | 13,628                 | (X)                           | 4,678                  |
| 35810 00         | Automatic vending machines and parts, n.s.k.....  | (X)  | 9,467                  |                               |                        |
| 3582- --         | COMMERCIAL LAUNDRY, DRY CLEANING, AND PRESSING MACHINES, TOTAL.....   | (X)  | 129,613                | (X)                           | 106,590                |
|                  | Commercial laundry equipment and laundry presses:   |  |                        |                               |                        |
| 35820 21         | Washers only.....   | 5,653  | 8,750                  | 6,056                         | 11,262                 |
| 35820 22         | Extractors only.....  | 6,576  | 5,556                  | 4,329                         | 5,604                  |
| 35820 23         | Washer-extractor combinations.....  | 7,380  | 14,456                 | 513                           | 1,690                  |
| 35820 25         | Drying tumblers.....  | 49,787   | 20,948                 | 41,818                        | 17,756                 |
| 35820 26         | Ironers, flatwork.....  | 1,694  | 5,743                  | 1,448                         | 4,723                  |
| 35820 27         | Presses, laundry.....   | 15,848   | 18,679                 | 12,605                        | 16,851                 |
| 35820 28         | Other commercial laundry equipment.....   | (X)  | 7,711                  | (X)                           | 13,405                 |
| 35820 31         | Parts, attachments, and accessories <sup>8</sup> .....  | (X)  | 14,155                 |                               |                        |
|                  | Dry cleaning equipment and clothing presses:  |  |                        |                               |                        |
|                  | Dry cleaning units:   |  |                        |                               |                        |
| 35820 32         | Coin-operated.....  | 5,187  | 10,184                 | 1,951                         | 8,776                  |
| 35820 33         | Other than coin-operated.....   | 1,560  | 3,926                  |                               |                        |
| 35820 52         | Washer-extractors.....  | 470  | 2,469                  | 542                           | 2,812                  |
| 35820 81         | Other dry cleaning equipment, including tailor-type presses, washers, extractors and reclaiming units.....  | (X)  | 9,168                  | (X)                           | 15,074                 |
| 35820 81         | Parts, attachments, and accessories <sup>8</sup> .....  | (X)  | 2,666                  |                               |                        |
| 35820 00         | Commercial laundry, dry cleaning, and pressing machines, n.s.k.....   | (X)  | 5,202                  | (X)                           | 8,637                  |
| 3585- --         | REFRIGERATION MACHINERY, TOTAL.....   | (X)  | <sup>9</sup> 2,104,632 | (X)                           | <sup>9</sup> 1,435,091 |
| 35851 --         | Heat transfer equipment, total <sup>10</sup> .....  | (X)  | 1,158,793              | (X)                           | 715,914                |
|                  | Heat transfer equipment (evaporative condensers, unit coolers, etc.), centrifugal liquid chilling packages, unitary air conditioners, and other air-conditioning and refrigeration equipment: |  |                        |                               |                        |
|                  | As reported in the census of manufactures.....  | (X)  | <sup>1</sup> 850,403   | (X)                           | (NA)                   |
|                  | As reported on Census Form MA-35M.....  | (X)  | <sup>1</sup> 835,122   | (X)                           | 458,235                |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Total shipments including interplant transfers |                    |                               |                    |       |
|--------------|--|--|--------------------|-------------------------------|--------------------|-------|
|              |  | 1963   |                    | 1958                          |                    |       |
|              |  | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |       |
| 3585- --     | REFRIGERATION MACHINERY—Continued  |  |                    |                               |                    |       |
| 35851 --     | Heat transfer equipment—Continued  |  |                    |                               |                    |       |
|              | Heat transfer equipment (evaporative condensers, unit coolers, etc.), centrifugal liquid chilling packages, unitary air conditioners, and other air-conditioning and refrigeration equipment—Continued |  |                    |                               |                    |       |
|              | As reported on Census Form MA-35M—Continued  |  |                    |                               |                    |       |
|              | Evaporative condensers:  |  |                    |                               |                    |       |
| 35851 01     | 10 tons and under.....   | 136  | 100                | 496                           | 372                |       |
| 35851 02     | 10.1-15 tons.....  | 206  | 221                | 395                           | 360                |       |
| 35851 03     | 15.1-20 tons.....  | 189  | 199                | 384                           | 392                |       |
| 35851 04     | 20.1-30 tons.....  | 451  | 595                | 740                           | 967                |       |
| 35851 05     | 30.1-50 tons.....  | 666  | 1,193              | 948                           | 1,728              |       |
| 35851 06     | 50.1-100 tons.....   | 998  | 2,822              | 882                           | 2,505              |       |
| 35851 07     | Over 100 tons.....   | 450  | 2,550              | 250                           | 1,498              |       |
|              | Room fan-coil air-conditioning units:  |  |                    |                               |                    |       |
| 35851 08     | Between the studs.....   | 29,554   | 2,434              | 96,235                        | 9,038              |       |
| 35851 09     | Vertical.....  | 173,107  | 13,974             |                               |                    |       |
| 35851 10     | Horizontal.....  | 147,928  | 10,178             |                               |                    |       |
| 35851 11     | Room air-induction units.....  | 85,930   | 4,638              | 57,814                        | 3,686              |       |
|              | Central station air-conditioning units, motor driven fan type:   |  |                    |                               |                    |       |
| 35851 12     | 3 tons and under.....  | 13,691   | 6,468              | 15,589                        | 1,996              |       |
| 35851 13     | 3.1-5 tons.....  |  | 4,809              | 1,861                         |                    |       |
| 35851 14     | 5.1-10 tons.....   |  | 7,588              | 4,003                         | 3,740              | 2,330 |
| 35851 15     | 10.1-25 tons.....  |  | 12,320             | 10,206                        | 8,286              | 8,660 |
| 35851 16     | 25.1-50 tons.....  |  | 7,624              | 10,657                        | 4,859              | 7,931 |
| 35851 17     | Over 50 tons.....  |  | 3,251              | 7,791                         | 2,654              | 6,822 |
|              | Unit coolers (refrigeration):  |  |                    |                               |                    |       |
|              | Ceiling and wall mounted types:  |  |                    |                               |                    |       |
| 35851 18     | 1,000 B.t.u./hr. and under.....  | 14,855   | 378                | 10,549                        | 386                |       |
| 35851 19     | 1,001-2,000 B.t.u./hr.....   | 29,343   | 1,028              | 20,067                        | 875                |       |
| 35851 20     | 2,001-4,000 B.t.u./hr.....   | 19,461   | 1,337              | 14,151                        | 849                |       |
| 35851 21     | 4,001-6,000 B.t.u./hr.....   | 13,529   | 1,374              | 9,000                         | 918                |       |
| 35851 22     | 6,001-8,000 B.t.u./hr.....   | 9,627  | 1,192              | 8,359                         | 1,028              |       |
| 35851 23     | 8,001-12,000 B.t.u./hr.....  | 11,427   | 2,131              | 14,086                        | 2,511              |       |
| 35851 24     | 12,001-18,000 B.t.u./hr.....   | 8,810  | 2,433              | 5,760                         | 1,155              |       |
| 35851 25     | Over 18,000 B.t.u./hr.....   | 10,164   | 6,494              | 8,728                         | 3,734              |       |
| 35851 26     | Floor-mounted dry-type.....  | 653  | 1,472              | 941                           | 1,771              |       |
| 35851 27     | Floor-mounted spray-type.....  | 351  | 1,226              | 289                           | 859                |       |
|              | Other heat transfer equipment:   |  |                    |                               |                    |       |
|              | Air-cooled refrigerant condensers, remote-type:  |  |                    |                               |                    |       |
| 35851 28     | 5 tons and under.....  | 2,643  | 723                | 2,203                         | 650                |       |
| 35851 29     | 5.1-7.5 tons.....  | 1,605  | 592                | 878                           | 397                |       |
| 35851 30     | 7.6-10 tons.....   | 1,730  | 697                | 590                           | 283                |       |
| 35851 31     | 10.1-15 tons.....  | 1,383  | 804                | 223                           | 161                |       |
| 35851 32     | 15.1-20 tons.....  | 2,086  | 1,305              | 199                           | 148                |       |
| 35851 33     | 20.1-30 tons.....  | 1,435  | 1,325              | 209                           | 273                |       |
| 35851 34     | Over 30 tons.....  | 2,093  | 3,646              |                               |                    |       |
| 35851 35     | Shell-and-tube, shell-and-coil, shell-and-U-tube, tube-in-tube condensers.....   | (X)  | 5,545              | (X)                           | 56,385             |       |
| 35851 36     | Shell-and-tube, shell-and-coil, shell-and-U-tube, tube-in-tube liquid coolers.....   | (X)  | 5,297              |                               |                    |       |
| 35851 37     | Liquid-suction heat exchangers, and refrigerant liquid receivers..   | (X)  | 1,458              |                               |                    |       |
|              | Finned coils, air-conditioning and refrigeration-type, used with but not including means for air circulation:  |  |                    |                               |                    |       |
| 35851 38     | Standard steam and steam distributing tube.....  | (X)  | 7,064              | (X)                           | 56,385             |       |
| 35851 39     | Standard water cooling and/or heating and cleanable tube water..   | (X)  | 7,703              |                               |                    |       |
| 35851 40     | Volatile refrigerant cooling.....  | (X)  | 5,757              |                               |                    |       |
| 35851 41     | Coil sales by original equipment manufacturers intended for resale or assembly into equipment by other manufacturers (all types).....  | (X)  | 33,286             | (X)                           | 9,925              |       |
| 35851 42     | Factory-assembled, refrigeration-type, finned gravity coils.....   | (X)  | 4,198              |                               |                    |       |
| 35851 43     | Wetted-surface dehumidifiers.....  | (X)  | 1,362              |                               |                    |       |
|              | Unitary air conditioners:  |  |                    |                               |                    |       |
|              | Air conditioners (except window and wall types):   |  |                    |                               |                    |       |
|              | Self-contained (integral-condenser type):  |  |                    |                               |                    |       |
| 35851 44, 45 | Under 27,000 B.t.u./hr <sup>11</sup> .....   | 18,812   | 5,067              | 31,305                        | 9,925              |       |
| 35851 46, 47 | 27,000-32,999 B.t.u./hr <sup>11</sup> .....  | 5,291  | 1,682              |                               |                    |       |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Total shipments including interplant transfers |                    |                               |                    |
|--------------|--|--|--------------------|-------------------------------|--------------------|
|              |  | 1963   |                    | 1958                          |                    |
|              |  | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 3585- --     | REFRIGERATION MACHINERY—Continued  |  |                    |                               |                    |
| 35851 --     | Heat transfer equipment—Continued  |  |                    |                               |                    |
|              | Heat transfer equipment (evaporative condensers, unit coolers, etc.), centrifugal liquid chilling packages, unitary air conditioners, and other air-conditioning and refrigeration equipment—Continued |  |                    |                               |                    |
|              | As reported on Census Form MA-35M—Continued  |  |                    |                               |                    |
|              | Unitary air conditioners—Continued   |  |                    |                               |                    |
|              | Air conditioners (except window and wall types)—Continued  |  |                    |                               |                    |
|              | Self-contained (integral-condenser type)—Continued   |  |                    |                               |                    |
| 35851 48, 49 | 33,000-53,999 B.t.u./hr. <sup>11</sup> .....   | 24,343   | 11,291             | 20,211                        | 10,310             |
| 35851 50, 51 | 54,000-96,999 B.t.u./hr. <sup>11</sup> .....   | 20,185   | 15,895             | 18,755                        | 16,641             |
| 35851 52     | 97,000-134,999 B.t.u./hr. ....   | 3,944  | 5,444              | 6,906                         | 9,346              |
| 35851 53     | 135,000-184,999 B.t.u./hr. ....  | 1,623  | 2,839              | 3,745                         | 7,271              |
| 35851 54     | 185,000-249,999 B.t.u./hr. ....  | 1,158  | 2,389              | 2,325                         | 5,188              |
| 35851 55     | 250,000-319,999 B.t.u./hr. ....  | 704  | 1,756              | 1,506                         | 4,226              |
| 35851 56     | 320,000-379,999 B.t.u./hr. ....  | 605  | 1,896              | 524                           | 2,275              |
| 35851 57     | 380,000 B.t.u./hr and over.....  | 855  | 4,192              | 361                           | 2,439              |
| 35851 58     | Remote-condenser type.....   | 8,027  | 8,073              | 4,755                         | 5,463              |
| 35851 59     | Refrigeration chassis.....   | 656  | 270                | 3,585                         | 1,501              |
| 35851 60     | Year-round air conditioners, self-contained and remote-condenser type (except heat pumps).....   | 36,238   | 34,553             | 11,973                        | 12,622             |
|              | Heat pumps (except room air conditioners):   |  |                    |                               |                    |
| 35851 61     | Self-contained.....  | 52,195   | 25,290             | 13,372                        | 9,001              |
| 35851 62     | Other than self-contained.....   | 21,907   | 13,469             | 12,089                        | 9,846              |
|              | Split systems:   |  |                    |                               |                    |
|              | Air-conditioning condensing units:   |  |                    |                               |                    |
| 35851 63     | Under 22,000 B.t.u./hr.....  | 24,055   | 4,888              |                               |                    |
| 35851 64     | 22,000-26,999 B.t.u./hr.....   | 83,341   | 17,954             |                               |                    |
| 35851 65     | 27,000-32,999 B.t.u./hr.....   | 44,158   | 12,317             |                               |                    |
| 35851 66     | 33,000-41,999 B.t.u./hr.....   | 114,812  | 40,430             |                               |                    |
| 35851 67     | 42,000-53,999 B.t.u./hr.....   | 45,608   | 21,197             |                               |                    |
| 35851 68     | 54,000-64,999 B.t.u./hr.....   | 39,585   | 21,350             | 99,129                        | 55,240             |
| 35851 69     | 65,000-96,999 B.t.u./hr.....   | 10,662   | 8,968              |                               |                    |
| 35851 70     | 97,000-134,999 B.t.u./hr.....  | 8,911  | 9,515              |                               |                    |
| 35851 71     | 135,000-184,999 B.t.u./hr.....   | 5,190  | 7,242              |                               |                    |
| 35851 72     | 185,000 B.t.u./hr. and over.....   | 1,769  | 3,904              |                               |                    |
|              | Air-conditioning coils:  |  |                    |                               |                    |
| 25851 73     | With blower.....   | 66,733   | 15,256             | 23,934                        | 6,405              |
| 35851 74     | Without blower.....  | 250,025  | 18,287             | 63,367                        | 6,520              |
| 35851 75     | Absorption liquid chilling systems.....  | 1,315  | 19,202             |                               |                    |
| 35851 76     | Absorption and open-type absorption systems.....   | 745  | 1,503              | 2,191                         | 12,743             |
|              | Mobile vehicle refrigeration systems:  |  |                    |                               |                    |
| 35851 77     | Mechanical refrigeration systems-railway freight cars.....   |  |                    |                               |                    |
| 35851 78     | Mechanical refrigeration systems-other mobile vehicles.....  | 19,755   | 43,315             | 7,525                         | 15,911             |
| 35851 79     | Mechanical air-conditioning systems for passenger automobiles.....   | 1,440,987                                      | 139,425            | 427,109                       | 39,914             |
|              | Ice-making machines:   |  |                    |                               |                    |
|              | Self-contained:  |  |                    |                               |                    |
|              | Ice cube makers:   |  |                    |                               |                    |
| 35851 80, 81 | Automatic, 250 lbs. and under.....   | 26,785   | 9,009              | 15,542                        | 6,594              |
| 35851 82     | Automatic, 251-500 lbs.....  | 10,747   | 7,221              | 6,390                         | 4,776              |
| 35851 83     | All other (automatic over 500 lbs. and non-automatic).....   | 457  | 887                | 692                           | 503                |
|              | Flake or chip machines:  |  |                    |                               |                    |
| 35851 84     | 500 lbs. and under.....  | 9,298  | 4,115              |                               |                    |
| 35851 85     | Over 500 lbs.....  | 6,817  | 6,425              | 8,022                         | 5,005              |
| 35851 86     | Not self-contained.....  | 413  | 849                | 472                           | 1,035              |
|              | Reciprocating liquid chilling packages:  |  |                    |                               |                    |
| 35851 87     | 20 hp. and under.....  | 4,071  | 5,171              |                               |                    |
| 35851 88     | 21-49 hp.....  | 2,487  | 8,786              |                               |                    |
| 35851 89     | 50-75 hp.....  | 2,069  | 10,849             | 4,549                         | 15,769             |
| 35851 90     | Over 75 hp.....  | 1,021  | 8,453              |                               |                    |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Total shipments including interplant transfers |                      |                               |                    |       |
|--------------|--|--|----------------------|-------------------------------|--------------------|-------|
|              |  | 1963   |                      | 1958                          |                    |       |
|              |  | Quantity<br>(number of units)                  | Value<br>(\$1,000)   | Quantity<br>(number of units) | Value<br>(\$1,000) |       |
| 3585- --     | REFRIGERATION MACHINERY—Continued  |  |                      |                               |                    |       |
| 35851 --     | Heat transfer equipment—Continued  |  |                      |                               |                    |       |
|              | Heat transfer equipment (evaporative condensers, unit coolers, etc.), centrifugal liquid chilling packages, unitary air conditioners, and other air-conditioning and refrigeration equipment—Continued |  |                      |                               |                    |       |
|              | As reported on Census Form MA-35M—Continued  |  |                      |                               |                    |       |
|              | Unitary air conditioners—Continued   |  |                      |                               |                    |       |
|              | Reciprocating liquid chilling packages—Continued   |  |                      |                               |                    |       |
| 35851 97     | Number of water chilling units.....  | 8,686  | (X)                  | 4,100                         | (X)                |       |
| 35851 98     | Number of other chilling units.....  | 962  | (X)                  | 449                           | (X)                |       |
| 35851 99     | Number of open-type units.....   | 1,193  | (X)                  | (NA)                          | (X)                |       |
| 35851 00     | Number of hermetic-type units.....   | 8,455  | (X)                  | (NA)                          | (X)                |       |
| 35851 91     | Electrically operated dehumidifiers mechanically refrigerated-type, self-contained.....  | 224,520  | 11,759               | 223,354                       | 12,753             |       |
|              | Factory-assembled water-cooling towers:  |  |                      |                               |                    |       |
|              | Mechanical-draft type:   |  |                      |                               |                    |       |
| 35851 93     | 5 tons and under.....  | 6,980  | 1,573                | 4,371                         | 610                |       |
| 35851 94     | 5.1-20 tons.....   | 7,347  | 2,469                | 17,178                        | 4,859              |       |
| 35851 95     | 20.1 tons and over.....  | 9,237  | 17,710               | 7,952                         | 8,357              |       |
| 35851 96     | Natural-draft type.....  | 1,568  | 195                  | 4,853                         | 615                |       |
|              | Centrifugal liquid chilling packages:  |  |                      |                               |                    |       |
|              | Hermetic-type:   |  |                      |                               |                    |       |
| 35854 81     | 100 hp. and under.....   | } 720  | 9,495                | 475                           | 8,885              |       |
| 35854 82     | 101-200 hp.....  |  | 216                  | 5,881                         |                    |       |
| 35854 83     | 201-300 hp.....  |  | 122                  | 4,307                         |                    |       |
| 35854 84     | 301-400 hp.....  |  | 68                   | 2,893                         |                    |       |
| 35854 85     | 401-500 hp.....  |  | 208                  | 3,803                         |                    |       |
| 35854 86, 87 | Over 500 hp.....   |  |                      |                               |                    |       |
|              | Open-type:   |  |                      |                               |                    |       |
| 35854 88     | 200 hp. and under.....   | } 32   | 507                  | 13                            | 307                |       |
| 35854 89     | 201-300 hp.....  |  | 20                   | 546                           |                    |       |
| 35854 91     | 301-400 hp.....  |  | } 171                | 5,172                         | } 109              | 5,421 |
| 35854 92     | 401-500 hp.....  |  |                      |                               |                    |       |
| 35854 93     | 501-1,000 hp.....  |  |                      |                               |                    |       |
| 35854 94     | Over 1,000 hp.....   | 34   | 2,156                |                               |                    |       |
| 35854 95     | Number of water chilling units.....  | 1,984  | (X)                  | 1,045                         | (X)                |       |
| 35854 96     | Number of brine chilling units.....  | 73   | (X)                  | 45                            | (X)                |       |
|              | Room air conditioners:   |  |                      |                               |                    |       |
|              | As reported in the census of manufactures.....   | (X)  | <sup>1</sup> 308,390 | (X)                           | (NA)               |       |
|              | As reported on Census Form MA-35M.....   | (X)  | <sup>1</sup> 296,045 | (X)                           | 257,679            |       |
| 35852 01     | Room air conditioners:   |  |                      |                               |                    |       |
|              | 5,999 B.t.u./hr. and under.....  | 145,244  | 14,721               | } 1,674,713                   | 257,679            |       |
| 35852 02     | 6,000-6,999 B.t.u./hr:   |  |                      |                               |                    |       |
| 35852 03     | 7 1/2 amp. 115 volts.....  | 188,098  | 21,858               |                               |                    |       |
|              | All other.....   | 65,567   | 8,845                |                               |                    |       |
| 35852 04     | 7,000-7,999 B.t.u./hr:   |  |                      |                               |                    |       |
| 35852 05     | 7 1/2 amp. 115 volts.....  | 9,899  | 1,198                |                               |                    |       |
|              | All other.....   | 71,582   | 11,155               |                               |                    |       |
| 35852 06     | 8,000-8,999 B.t.u./hr:   |  |                      |                               |                    |       |
| 35852 07     | 115 volts.....   | 184,879  | 22,585               |                               |                    |       |
|              | 208 - 230 volts.....   | 82,670   | 11,696               |                               |                    |       |
| 35852 08     | 9,000-9,999 B.t.u./hr:   |  |                      |                               |                    |       |
| 35852 09     | 115 volts.....   | 29,425   | 4,120                |                               |                    |       |
|              | 208 - 230 volts.....   | 137,809  | 18,276               |                               |                    |       |
| 35852 10     | 10,000-10,999 B.t.u./hr:   |  |                      |                               |                    |       |
| 35852 11     | 115 volts.....   | 42,993   | 5,990                |                               |                    |       |
|              | 208 - 230 volts.....   | 69,805   | 10,894               |                               |                    |       |
| 35852 12     | 11,000-12,999 B.t.u./hr:   |  |                      |                               |                    |       |
| 35852 13     | 115 volts.....   | 68,545   | 9,759                |                               |                    |       |
|              | 208 - 230 volts.....   | 210,830  | 31,715               |                               |                    |       |
| 35852 14     | 13,000-14,999 B.t.u./hr.....   | 151,725  | 26,224               |                               |                    |       |
| 35852 15     | 15,000-16,999 B.t.u./hr.....   | 140,042  | 24,867               |                               |                    |       |
| 35852 16     | 17,000-19,999 B.t.u./hr.....   | 178,516  | 33,635               |                               |                    |       |
| 35852 17     | 20,000-22,999 B.t.u./hr.....   | 99,825   | 18,587               |                               |                    |       |
| 35852 18     | 23,000-25,999 B.t.u./hr.....   | 69,872   | 15,298               |                               |                    |       |
| 35852 20     | 26,000 and over.....   | 18,409   | 4,622                |                               |                    |       |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Total shipments including interplant transfers |                    |  |   |
|--------------|---|--|--------------------|--|---|
|              |   | 1963   |                    | 1958   |   |
|              |   | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units)                  | Value<br>(\$1,000)  |
| 3585- --     | REFRIGERATION MACHINERY—Continued   |  |                    |  |   |
| 35853 --     | Commercial refrigerators and related equipment, total.....  | (X)  | 253,711            | (X)  | 240,409   |
|              | Refrigerated enclosures, including self-contained units, remote units with or without condensing units, and cabinets. Cabinets shipped to other manufacturers of commercial refrigeration equipment are shown under code 3585798: |  |                    |  |   |
| 35853 12     | Sectional coolers or cooling rooms of the prefabricated (factory produced) type, including walk-in, roll-in, and combination cooler display types.....  | 36,374   | 33,745             | 17,565   | 18,104  |
| 35853 16     | Reach-in refrigerators (except dairy refrigerators and wall boxes, and florists' cabinets).....   | 26,328   | 17,478             | 27,121   | 15,530  |
| 35853 17     | Dairy refrigerators and wall boxes.....   | 10,654   | 7,258              | 6,930  | 4,273   |
|              | Display cases for meat, dairy products, produce, and other perishables, operated at normal temperatures; i.e., not intended for frozen foods, ice cream, etc.:  |  |                    |  |   |
| 35853 22     | Closed.....   | 16,232   | 8,693              | 11,863   | 7,211   |
|              | Open, self-service:   |  |                    |  |   |
| 35853 24     | Single-duty.....  | 27,617   | 17,644             | 19,973   | 12,104  |
| 35853 26     | Double-duty.....  | 6,451  | 4,915              | 17,188   | 13,497  |
| 35853 28     | Multiple deck.....  | 18,015   | 15,258             | 12,865   | 11,000  |
|              | Display cases and cabinets for frozen foods, ice cream and other foods operated at low temperatures (except coin-operated):   |  |                    |  |   |
| 35853 32     | Frozen food display cases, open, self-service.....  | 49,714   | 29,643             | 45,596   | 33,091  |
| 35853 34     | Frozen food cabinets, low temperature reach-ins, etc., closed types.....  | 16,560   | 8,239              | 9,668  | 5,734   |
| 35853 36     | Ice cream counter freezers (include frozen custard machines).....   | 3,789  | 4,294              | 5,055  | 7,691   |
| 35853 38     | Ice cream dispensing and hardening cabinets.....  | 23,202   | 7,162              | 31,119   | 11,620  |
|              | Mechanical drinking water coolers:  |  |                    |  |   |
| 35853 43     | As reported in the census of manufactures <sup>3</sup> .....  | (X)  | 28,615             | (X)  | 22,030  |
|              | As reported on Census Form MA-35M <sup>3</sup> .....  | 195,613  | 26,509             | 139,276  | 20,390  |
|              | Mechanical beverage-cooling and dispensing equipment (except coin-operated):  |  |                    |  |   |
| 35853 52     | Bottled beverage coolers, dry and wet types.....  | 38,620   | 11,443             | 39,920   | 11,331  |
| 35853 57     | Bulk beverage dispensers (include malt dispensers and pre-cooler cabinets).....   | 41,887   | 11,680             | 39,053   | 7,363   |
|              | Farm and dairy milk coolers:  |  |                    |  |   |
| 35853 72     | Immersion type (mechanically refrigerated).....   | 2,836  | 1,003              | 13,662   | 5,210   |
| 35853 75     | Bulk tank storage coolers.....  | 9,372  | 12,295             | 15,882   | 25,098  |
| 35853 79     | Other commercial refrigerators (include florists' refrigerators, dough retarders, egg refrigerators, environmental control equipment, laboratory and industrial refrigerators, mortuary refrigerators, etc.).....                 | (X)  | 26,996             | (X)  | 10,447  |
| 35853 00     | Unitary commercial refrigeration equipment, n.s.k.....  | (X)  | 7,350              | (X)  | 19,075  |
|              |   |  |                    |  |   |
|              |   | 1963   |                    | 1958   |   |
|              |   | Total shipments including interplant transfers |                    | Total shipments including interplant transfers |   |
|              |   | Quantity (number of units)                     | Value (\$1,000)    | Quantity (number of units)                     | Value (\$1,000)   |
|              |   |  |                    |  | Number of compressor bodies manufactured                      |
| 35854 --     | Compressors and compressor units, all refrigerants, total...  | (X)  | 269,359            | (X)  | 181,821 (X)   |
| 35854 14     | Compressors and motor compressors for household refrigerators.....  | 973,940  | 20,060             | (NA)   | 1,557,515 40,365 (NA)   |
|              | Compressors and motor compressors, refrigeration (except for household refrigerators):  |  |                    |  |   |
|              | As reported in the census of manufactures <sup>1</sup> .....  | (X)  | 249,299            | (X)  | 141,456 (X)   |
|              | As reported on Census Form MA-35M <sup>1</sup> .....  | (X)  | 238,563            | <sup>12</sup> 10,407,998                       | (X) 139,909 <sup>12</sup> 4,032,179                           |
|              | All refrigerants (except ammonia):  |  |                    |  |   |
|              | 10 hp. and under hermetic-type motor compressors:   |  |                    |  |   |
| 35854 21-29  | 2.5 hp. and under.....  | 3,743,412                                      | 116,973            | <sup>13</sup> 8,368,580                        | } <sup>13</sup> 42,463,825 1499,648 <sup>13</sup> 143,577,746 |
| 35854 30,31  | 3-4 hp.....   | 202,668  | 17,447             | <sup>13</sup> 281,093                          |   |
| 35854 32,33  | 5-7.5 hp.....   | 70,481   | 11,518             | <sup>13</sup> 151,177                          |   |
| 35854 34     | 10 hp.....  | 9,880  | 3,076              | <sup>13</sup> 28,233                           |   |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | 1963   |                 |  | 1958   |                 |  |  |
|--------------|---|--|-----------------|--|--|-----------------|--|--|
|              |   | Total shipments including interplant transfers |                 | Number of compressor bodies manufactured | Total shipments including interplant transfers |                 | Number of compressor bodies manufactured |  |
|              |   | Quantity (number of units)                     | Value (\$1,000) |  | Quantity (number of units)                     | Value (\$1,000) |  |  |
| 3585- --     | REFRIGERATION MACHINERY—Continued   |  |                 |  |  |                 |  |  |
| 35854 --     | Compressors and compressor units, all refrigerants—Continued                                    |  |                 |  |  |                 |  |  |
|              | Compressors and motor compressors, refrigeration (except for household refrigerators)—Continued |  |                 |  |  |                 |  |  |
|              | As reported on Census Form MA-35M—Continued   |  |                 |  |  |                 |  |  |
|              | All refrigerants (except ammonia)—Continued   |  |                 |  |  |                 |  |  |
|              | 10 hp. and under open-type compressors (with or without motors):                                |  |                 |  |  |                 |  |  |
| 35854 35     | 3/4 hp. and under.....  | 18,513   | 851             | (13)                                     | 20,339   | 627             | (13)                                     |  |
| 35854 36     | 1 hp.....   | 3,020  | 178             | (13)                                     | 1,847  | 110             | (13)                                     |  |
| 35854 37     | 1.5 hp.....   | 1,476  | 146             | (13)                                     | 1,199  | 100             | (13)                                     |  |
| 35854 38     | 2 hp.....   |  |                 | (13)                                     | 5,081  | 315             | (13)                                     |  |
| 35854 39     | 3 hp.....   |  |                 | (13)                                     | 6,628  | 629             | (13)                                     |  |
| 35854 41, 43 | 4-5 hp.....   | 8,239  | 872             | (13)                                     | 3,803  | 906             | (13)                                     |  |
| 35854 44     | 7.5 hp.....   | 3,917  | 1,094           | (13)                                     | 2,158  | 544             | (13)                                     |  |
| 35854 45     | 10 hp.....  | 707  | 381             | (13)                                     | 1,039  | 485             | (13)                                     |  |
|              | Over 10 hp. (open and hermetic types): <sup>15</sup>  |  |                 |  |  |                 |  |  |
| 35854 46     | 15 hp.....  | 5,250  | 2,172           | 14,680                                   | 1,211  | 776             | (13)                                     |  |
| 35854 47     | 20 hp.....  | 3,759  | 1,812           | 4,610                                    | 846  | 711             | (13)                                     |  |
| 35854 48     | 25 hp.....  | 1,238  | 1,382           | 2,576                                    | 1,094  | 1,162           | 2,174                                    |  |
| 35854 49     | 30 hp.....  | 1,621  | 1,525           | 1,868                                    | 1,324  | 1,422           | 1,684                                    |  |
| 35854 51     | 40 hp.....  | 1,380  | 1,830           | 2,222                                    | 1,108  | 1,509           | 2,016                                    |  |
| 35854 52     | 50 hp.....  | 968  | 1,585           | 1,470                                    | 791  | 1,417           | 1,151                                    |  |
| 35854 53     | 60 hp.....  | 905  | 1,611           | 1,436                                    | 594  | 1,141           | 1,017                                    |  |
| 35854 54     | 75 hp.....  | 1,100  | 2,045           | 1,743                                    | 373  | 880             | 576                                      |  |
| 35854 55     | 100 hp.....   | 320  | 712             | 1,032                                    | 215  | 600             | 419                                      |  |
| 35854 56     | Over 100 hp.....  | 158  | 576             |  | 103  | 394             |  |  |
| 35854 57     | Number of "open-type" units.....  | 7,005  | (X)             | (NA)                                     | (NA)   | (X)             | (NA)                                     |  |
| 35854 58     | Number of "hermetic-type" units.....  | 9,694  | (X)             | (NA)                                     | (NA)   | (X)             | (NA)                                     |  |
| 35854 59     | Automotive air conditioning (open-type, with or without motor) <sup>16</sup> .....              | 1,545,173                                      | 63,270          | 1,545,173                                | 443,535  | 20,867          | 443,535                                  |  |
|              | Ammonia refrigerants:   |  |                 |  |  |                 |  |  |
| 35854 61     | 15 hp. and under.....   | 282  | 249             | 2,105                                    | 366  | 373             | 1,861                                    |  |
| 35854 62     | 20 hp.....  | 220  | 379             |  | 296  | 423             |  |  |
| 35854 63     | 25 hp.....  | 198  | 411             |  | 192  | 350             |  |  |
| 35854 64     | 30 hp.....  | 146  | 309             |  | 173  | 394             |  |  |
| 35854 65     | 40 hp.....  | 335  | 894             |  | 226  | 547             |  |  |
| 35854 66     | 50 hp.....  | 178  | 582             |  | 140  | 398             |  |  |
| 35854 67     | 60 hp.....  | 382  | 1,370           |  | 238  | 754             |  |  |
| 35854 68     | 75 hp.....  | 202  | 894             |  | 146  | 519             |  |  |
| 35854 69     | 100 hp.....   | 390  | 2,419           |  | 81   | 389             |  |  |
| 35854 71     | 101-200 hp.....   |  |                 |  | 161  | 1,052           |  |  |
| 35854 72     | 201 hp. and over.....   |  |                 | 26                                       | 467  |                 |  |  |
|              |   |  |                 |  |  |                 |  |  |
|              |   | Total shipments including interplant transfers |                 |  |  |                 |  |  |
|              |   | 1963   |                 | 1958                                     |  |                 |  |  |
|              |   | Quantity (number of units)                     | Value (\$1,000) | Quantity (number of units)               | Value (\$1,000)                                |                 |  |  |
| 35855 --     | Condensing units, all refrigerants, total.....  | (X)  | 73,538          | (X)                                      | 70,307   |                 |  |  |
| 35855 14     | Condensing units for household refrigerators (air-cooled hermetic type).....                    | 141,144  | 5,562           | 100,600                                  | 5,893  |                 |  |  |
|              | Condensing units (except for household refrigerators):  |  |                 |  |  |                 |  |  |
|              | As reported in the census of manufactures <sup>1</sup> .....                                    | (X)  | 67,976          | (X)                                      | 64,414   |                 |  |  |
|              | As reported on Census Form MA-35M <sup>1</sup> .....  | (X)  | 66,305          | (X)                                      | 62,720   |                 |  |  |
|              | Air-cooled:   |  |                 |  |  |                 |  |  |
|              | Open-type:  |  |                 |  |  |                 |  |  |
| 35855 21     | 3/4 hp. and under.....  | 7,144  | 618             | 15,674                                   | 1,681  |                 |  |  |
| 35855 22     | 1 hp.....   | 1,430  | 222             | 3,165                                    | 524  |                 |  |  |
| 35855 23     | 1.5 hp.....   | 870  | 208             | 2,252                                    | 584  |                 |  |  |
| 35855 24     | 2 hp.....   | 1,080  | 255             | 2,144                                    | 623  |                 |  |  |
| 35855 25     | Over 2 hp. but under 15 hp.....   | 1,349  | 475             | 3,325                                    | 1,259  |                 |  |  |
|              | Hermetic-type:  |  |                 |  |  |                 |  |  |
| 35855 26     | 1/5 hp. and under.....  | 318,444  | 11,456          | 74,706                                   | 3,163  |                 |  |  |
| 35855 27     | 1/4 hp.....   |  |                 | 127,808                                  | 7,209  |                 |  |  |
| 35855 28     | 1/3 hp.....   |  |                 | 115,512                                  | 6,418  |                 |  |  |
| 35855 29     | 1/2 hp.....   |  |                 | 88,279                                   | 6,078  |                 |  |  |
| 35855 30     | 3/4 hp.....   |  |                 | 29,676                                   | 2,791  |                 |  |  |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Total shipments including interplant transfers |                      |                               |                    |
|--------------|---|--|----------------------|-------------------------------|--------------------|
|              |   | 1963   |                      | 1958                          |                    |
|              |   | Quantity<br>(number of units)                  | Value<br>(\$1,000)   | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 3585- --     | REFRIGERATION MACHINERY—Continued   |  |                      |                               |                    |
| 35855 --     | Condensing units, all refrigerants—Continued  |  |                      |                               |                    |
|              | Condensing units (except for household refrigerators)—Continued   |  |                      |                               |                    |
|              | As reported on Census Form MA-35M—Continued   |  |                      |                               |                    |
|              | Air-cooled—Continued  |  |                      |                               |                    |
|              | Hermetic-type—Continued   |  |                      |                               |                    |
| 35855 31     | 1 hp.....   | 84,588   | 5,777                | 19,332                        | 2,577              |
| 35855 32     | 1.5 hp.....   | 45,222   | 4,245                | 14,236                        | 2,615              |
| 35855 33     | 2 hp.....   | 39,647   | 4,490                | 12,554                        | 3,217              |
| 35855 34     | 2.5 hp.....   | 11,692   | 4,639                | 13,134                        | 4,398              |
| 35855 35     | 3 hp.....   |  |                      |                               |                    |
| 35855 36     | 4 hp.....   |  |                      |                               |                    |
| 35855 37     | Over 4 hp. but under 15 hp.....   |  |                      |                               |                    |
|              |   | 9,378  | 5,813                |                               |                    |
|              | Water-cooled:   |  |                      |                               |                    |
|              | Open-type:  |  |                      |                               |                    |
| 35855 38     | 1.5 hp. and under.....  | 829  | 184                  | 2,515                         | 493                |
| 35855 39     | 2 hp.....   | 618  | 168                  | 1,161                         | 349                |
| 35855 41     | 3 hp.....   | 844  | 291                  | 1,640                         | 559                |
| 35855 42, 43 | 4-5 hp.....   | 833  | 419                  | 1,494                         | 730                |
| 35855 44     | 7.5 hp.....   | 307  | 203                  | 661                           | 438                |
| 35855 45     | 10 hp.....  | 224  | 209                  | 469                           | 479                |
|              | Hermetic-type:  |  |                      |                               |                    |
| 35855 47     | 1/2 hp. and under.....  | 5,764  | 622                  | 5,011                         | 513                |
| 35855 49     | 3/4 hp.....   | 3,147  | 437                  | 3,155                         | 366                |
| 35855 51     | 1 hp.....   | 4,671  | 724                  | 6,475                         | 1,081              |
| 35855 52     | 1.5 hp.....   | 2,426  | 555                  | 4,070                         | 893                |
| 35855 53     | 2 hp.....   | 2,824  | 788                  | 5,522                         | 1,431              |
| 35855 54     | 3 hp.....   | 2,995  | 1,077                | 5,974                         | 2,082              |
| 35855 55, 56 | 4-5 hp.....   | 2,713  | 1,352                | 2,958                         | 1,452              |
| 35855 57     | 7.5 hp.....   | 865  | 554                  | 1,394                         | 1,123              |
| 35855 59     | 10 hp.....  | 681  | 549                  |                               |                    |
|              | Open-type hermetic-type:  |  |                      |                               |                    |
| 35855 61     | 15 hp.....  | 512  | 603                  | 1,135                         | 1,794              |
| 35855 62     | 20 hp.....  | 262  | 378                  |                               |                    |
| 35855 63     | 25 hp.....  | 219  | 383                  | 437                           | 810                |
| 35855 64     | 30 hp.....  | 227  | 471                  | 447                           | 940                |
| 35855 65     | 40 hp.....  | 259  | 604                  | 439                           | 1,121              |
| 35855 66     | 50 hp.....  | 193  | 561                  | 365                           | 1,064              |
| 35855 67     | 60 hp.....  | 171  | 509                  | 193                           | 611                |
| 35855 68     | 75 hp.....  | 72   | 276                  | 90                            | 379                |
| 35855 69     | Over 75 hp.....   | 160  | 684                  | 67                            | 373                |
| 35855 71     | Number of "open-type" units.....  | 669  | (X)                  | (NA)                          | (X)                |
| 35855 72     | Number of "hermetic-type" units.....  | 1,406  | (X)                  | (NA)                          | (X)                |
| 35857 --     | Other refrigeration and air-conditioning equipment, including soda fountain and beer dispensing equipment, total.....                       | (X)  | 302,530              | (X)                           | 195,198            |
| 35857 11     | Soda fountain equipment (cooler box, fountainette, and similar equipment).....  | (X)  | 26,375               | (X)                           | 15,708             |
| 35857 51     | Beer dispensing equipment.....  | (X)  | 3,785                | (X)                           | 6,877              |
| 35857 94     | Evaporative air coolers.....  | 429,208  | 28,914               | 711,667                       | 39,004             |
| 35857 96     | Other refrigeration machinery and air-conditioning equipment.....   | (X)  | 77,363               | }                             | }                  |
| 35857 97     | Complete refrigeration systems shipped to other manufacturers for incorporation into a cabinet, vending machine, or household refrigerator. | (X)  | 150,690              |                               |                    |
| 35857 98     | Other components and accessories for air-conditioning and refrigeration equipment.....  | (X)  | 15,403               |                               |                    |
| 35857 00     | Other refrigeration and air-conditioning equipment, n.s.k.....  | (X)  | 15,403               | (X)                           | 15,342             |
| 35850 00     | Refrigeration and air-conditioning equipment, n.s.k.....  | (X)  | 46,701               | (X)                           | 31,442             |
| 3586- --     | MEASURING AND DISPENSING PUMPS, TOTAL.....  | (X)  | 121,017              | (X)                           | 88,217             |
|              | Gasoline dispensing pumps (filling station type):   |  |                      |                               |                    |
|              | Computing:  |  |                      |                               |                    |
| 35860 11     | Single units.....   | 85,774   | 42,226               | 83,118                        | 39,484             |
| 35860 12     | Dual units <sup>17</sup> .....  | 11,895   | 9,708                | 6,074                         | 5,317              |
| 35860 13     | Noncomputing <sup>18</sup> .....  | (X)  | ( <sup>19</sup> )    | 11,716                        | 2,911              |
| 35860 21     | Lubricating-oil outfits, including pump and tank.....   | 38,110   | 8,280                | 27,900                        | 6,387              |
| 35860 31     | Lubricating-oil pumps, including barrel pumps.....  | 387,873  | 8,783                | 208,954                       | 5,361              |
| 35860 41     | Grease pumps.....   | (X)  | 8,805                | (X)                           | 5,518              |
| 35860 51     | Grease guns.....  | 3,181,165                                      | 12,846               | (NA)                          | 6,338              |
| 35860 98     | Other measuring and dispensing pumps.....   | (X)  | <sup>20</sup> 29,327 | (X)                           | 16,901             |
| 35860 00     | Measuring and dispensing pumps, n.s.k.....  | (X)  | 1,042                | (X)                           | -                  |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Total shipments including interplant transfers |                    |                               |                    |
|--------------|---|--|--------------------|-------------------------------|--------------------|
|              |   | 1963   |                    | 1958                          |                    |
|              |   | Quantity<br>(Number of units)                  | Value<br>(\$1,000) | Quantity<br>(Number of units) | Value<br>(\$1,000) |
| 3589- --     | SERVICE INDUSTRY MACHINES, TOTAL.....   | (X)  | 341,517            | (X)                           | 221,987            |
| 35891 --     | Commercial cooking and food warming equipment.....  | (X)  | 106,965            | (X)                           | 73,169             |
|              | Nonelectric:  |  |                    |                               |                    |
| 35891 11     | Commercial cooking stoves, ranges, ovens, and broilers.....   | 61,389   | 21,532             | 55,555                        | 15,012             |
| 35891 29     | Other commercial cooking equipment (except electric), including<br>griddles, toasters, deep-fat fryers, coffee urns, pressure cookers-<br>steam, etc..... | (X)  | 15,738             | (X)                           | 9,962              |
| 35891 31     | Commercial food-warming equipment, including steam tables.....  | (X)  | 5,174              | (X)                           | 8,975              |
|              | Electric:   |  |                    |                               |                    |
| 35891 61     | Commercial ranges, ovens, and broilers.....   | 30,572   | 8,331              | 40,915                        | 9,709              |
| 35891 63     | Commercial electronic stoves and ovens.....   | (X)  | 4,225              |                               |                    |
| 35891 71     | Other commercial cooking equipment, including griddles, toasters, deep<br>fat fryers, coffeemakers, coffee urns.....                                      | (X)  | 16,712             | (X)                           | 12,532             |
| 35891 81     | Commercial food warming equipment, including hot food server units and<br>steam tables.....   | (X)  | 10,511             | (X)                           | 9,871              |
| 35891 85     | Parts and accessories for commercial cooking and food warming equipment..   | (X)  | 18,979             | (X)                           | 203,306            |
| 35891 00     | Commercial cooking and food warming equipment, n.s.k.....   | (X)  | 5,763              | (X)                           | 3,802              |
| 35892 --     | Service industry machines and parts, total.....   | (X)  | 196,701            | (X)                           | 136,086            |
|              | Water softeners:  |  |                    |                               |                    |
| 35892 22     | Industrial.....   | 5,306  | 11,307             | 4,906                         | 10,283             |
|              | Farm, household and commercial:   |  |                    |                               |                    |
| 35892 24     | Manual.....   | 64,030   | 3,005              | 69,025                        | 4,859              |
| 35892 26     | Semiautomatic.....  | 14,653   | 1,805              | 38,245                        | 4,957              |
| 35892 28     | Automatic.....  | 157,827  | 21,395             | 81,162                        | 9,862              |
| 35892 35     | Floor waxing and polishing machines, commercial and industrial types....  | 95,468   | 13,588             | 100,372                       | 10,439             |
| 35892 42     | Floor sanding and floor scrubbing machines.....   | (X)  | 7,570              | (X)                           | 5,198              |
| 35892 71     | Dishwashing machines, commercial type.....  | 18,745   | 27,875             | 14,298                        | 19,036             |
| 35892 61     | Carpet sweepers.....  | 1,084,452                                      | 5,033              | 814,582                       | 5,119              |
| 35892 91     | Other industrial and commercial service machines.....   | (X)  | 67,975             | (X)                           | 46,212             |
| 35892 93     | Parts and accessories for service industry machines.....  | (X)  | 24,049             | (X)                           | 20,121             |
| 35892 00     | Service industry machines and parts, n.s.k.....   | (X)  | 13,099             |                               |                    |
| 35893 --     | Commercial and industrial vacuum cleaners, including parts and attachments.   | (X)  | 18,996             | (X)                           | 12,732             |
| 35893 11     | Portable, including attachments and parts.....  | 193,215  | 14,772             | 95,550                        | 10,345             |
| 35893 98     | Central system, including parts and attachments for commercial and<br>industrial vacuum cleaners.....   | (X)  | 3,852              | (X)                           | 2,387              |
| 35893 00     | Commercial and industrial vacuum cleaners, including parts and attach-<br>ments, n.s.k.....   | (X)  | 372                | (X)                           | -                  |
| 35890 00     | Service industry machines, n.s.k.....   | (X)  | 18,855             | (X)                           | -                  |
|              |   | (1,000 units)                                  |                    | (1,000 units)                 |                    |
| 3599- --     | MACHINE SHOP PRODUCTS, TOTAL <sup>21</sup> .....  | (X)  | 221,685,548        | (X)                           | 1,117,684          |
|              | Carburetors, new, all types:  |  |                    |                               |                    |
| 35990 11     | Shipped to motor vehicle manufacturers <sup>21</sup> .....  | 10,264   | 98,969             | 3,370                         | 30,866             |
| 35990 15     | Shipped to all other customers.....   | 4,027  | 22,389             | 3,463                         | 17,360             |
|              | Pistons (machined) and piston rings, all types:   |  |                    |                               |                    |
|              | Pistons all types:  |  |                    |                               |                    |
|              | Aluminum:   |  |                    |                               |                    |
| 35990 21     | Shipped to motor vehicle manufacturers.....   | 17,890   | 36,996             | 10,097                        | 16,300             |
| 35990 25     | Shipped to all other customers.....   | 10,125   | 23,336             | 7,052                         | 14,091             |
|              | Other:  |  |                    |                               |                    |
| 35990 31     | Shipped to motor vehicle manufacturers.....   | 537  | 1,642              | (NA)                          | 487                |
| 35990 35     | Shipped to all other customers.....   | 1,354  | 2,335              | (NA)                          | 1,706              |
|              | Piston rings, all types:  |  |                    |                               |                    |
|              | Oil type:   |  |                    |                               |                    |
| 35990 41     | Shipped to motor vehicle manufacturers.....   | 124,987  | 19,971             | 90,641                        | 12,153             |
| 35990 45     | Shipped to all other customers.....   | 51,458   | 16,417             | 44,671                        | 13,773             |
|              | Compression type:   |  |                    |                               |                    |
| 35990 51     | Shipped to motor vehicle manufacturers.....   | 400,831  | 44,593             | 197,575                       | 22,201             |
| 35990 55     | Shipped to all other customers.....   | 131,534  | 40,684             | 108,322                       | 30,608             |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Total shipments including interplant transfers |                    |                           |                    |
|--------------|--|--|--------------------|---------------------------|--------------------|
|              |  | 1963   |                    | 1958                      |                    |
|              |  | Quantity<br>(1,000 units)                      | Value<br>(\$1,000) | Quantity<br>(1,000 units) | Value<br>(\$1,000) |
| 3599- --     | MACHINE SHOP PRODUCTS—Continued  |  |                    |                           |                    |
|              | All other machine shop products:   |  |                    |                           |                    |
|              | Flexible metal hose and tubing:  |  |                    |                           |                    |
| 35990 63     | Copper and copper base-alloy.....  | (X)  | 9,776              | (X)                       | 39,579             |
| 35990 65     | Aluminum and aluminum-base alloy.....  | (X)  | 5,494              |                           |                    |
| 35990 69     | Other.....   | (X)  | 55,021             |                           |                    |
| 35990 71     | Metallic and semimetallic packing (excluding asbestos-metallic).....   | (X)  | 15,864             | (X)                       | 12,519             |
| 35990 81     | Metal bellows.....   | (X)  | 14,222             | (X)                       | 9,070              |
|              | Valves (intake and exhaust only) for internal combustion engines:  |  |                    |                           |                    |
| 35990 91     | Shipped to motor vehicles manufacturers.....   | 105,189  | 67,242             | (NA)                      | 21,982             |
| 35990 95     | Shipped to all other customers.....  | 43,754   | 18,873             | (NA)                      | 19,272             |
| 35990 96     | Carnival and amusement park equipment (ferris wheels, merry-go-rounds, etc.) (excluding coin-operated amusement machines)..... | (X)  | 6,414              | (X)                       | 588,871            |
| 35990 97     | Pneumatic and hydraulic cylinders.....   | (X)  | 86,837             |                           |                    |
| 35990 98     | Other machine shop products (including rebuilt carburetors).....   | (X)  | 684,520            |                           |                    |
| 35990 00     | Carburetors, pistons, and other machine shop products, n.s.k.....  | (X)  | 413,953            | (X)                       | 266,846            |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

<sup>1</sup>For these products, data were also collected in the census annual commodity survey program. In lieu of asking for detailed statistics on these products in the census of manufactures, respondents were asked to report only value of shipments for specified products or classes of products for which separate figures had previously been collected on the annual form. In most cases, the value figures reported in the census of manufactures for each product or class of products agreed closely with the corresponding figures reported in the annual survey. However, there were some differences between the census figures and the annual survey figures amounting generally to less than 1 percent at the industry level. These variations were due primarily to the following reasons:

- Use of different reporting periods (calendar year vs. fiscal year).
- Use of different bases for reporting value (company sales vs. factory production).
- Use of estimates in reporting data on the annual survey whereas census of manufactures figures generally represent more exact shipments figures.

<sup>2</sup>These products are primarily coffee vending machines though they may also vend hot chocolate and/or hot soup from the same cabinet.

<sup>3</sup>In 1958 data for canned beverages are included with other vending machines for beverages.

<sup>4</sup>Includes packaged milk (indoor and outdoor); milk (bulk or cup); beverage combination (hot and cold); hot beverages such as hot chocolate and/or hot soup (except canned soup) not sold in a combination machine with coffee; and package dry ingredients for mixing into beverages.

<sup>5</sup>Includes vending machines for such commodities as apples; cookies, crackers, and biscuits; popcorn, pastry; ice cream; and package chewing gum.

<sup>6</sup>Includes vending machines for such products as cosmetics and toiletries, novelties, detergents, newspapers, and stationery supplies.

<sup>7</sup>Includes automatic vending machines and parts, not specified by kind.

<sup>8</sup>Excludes coin-operated mechanisms.

<sup>9</sup>The total value of shipments of refrigeration machinery includes extensive duplication resulting from the use of products of some establishments in the industry as materials by others within the same industry.

<sup>10</sup>This product class includes on Census Form MA-35M products coded in the 35854 and 35852 groups.

<sup>11</sup>For 1963, a total of 68,631 units valued at \$33,935 thousand in the under 97,000 B.t.u./hr. category were shipped. A breakdown between "Horizontal" types and "Other" types was also obtained for units in this category. Of this total, 55,087 units valued at \$24,221 thousand represented "Horizontal" types. The corresponding figures for horizontal types under 97,999 B.t.u./hr. in 1958 were 44,809 units valued at \$17,348 thousand.

<sup>12</sup>Data for 1963 include units for household refrigerators. Such units are excluded from figures for 1958.

<sup>13</sup>Figures for compressor bodies 10 hp. and under hermetic-type motor compressors also include compressor bodies 10 hp. and under open-type compressors and (for 1958 only) 15 and 20 hp. open and hermetic types.

<sup>14</sup>Represents 20 hp. and under hermetic-type motor compressors.

<sup>15</sup>Excludes automotive air-conditioning compressors.

<sup>16</sup>No detail by horsepower is available for these units.

<sup>17</sup>Twin pumps are counted as one unit.

<sup>18</sup>Twin pumps are counted as two units.

<sup>19</sup>For 1963, data on noncomputing gasoline dispensing pumps are included with other measuring and dispensing pumps.

<sup>20</sup>Represents parts and accessories for commercial electric cooking equipment.

<sup>21</sup>The 1958 and 1963 figures are not directly comparable because of the apparent inclusion of some carburetors and valves in industry 3717, "Motor Vehicles and Parts" in 1958.

<sup>22</sup>This figure differs from comparable totals shown in other tables because of inclusion of corrections that were introduced too late for inclusion in those tables. The effect on total figures is less than 5 percent.



TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year  | Indexes (1954 = 100) |                  |
|--------------|---|----------------------|------------------|
|              |   | Production           | Unit value       |
| 358--        | Service industry machines.....1963..  | 200                  | 93               |
|              | .....1958..   | 132                  | 96               |
| 3581-        | Automatic vending machines and parts.....1963..                                       | 189                  | 133              |
|              | .....1958..   | 140                  | 112              |
| 35811        | Automatic vending machines (complete unit).....1963..                                 | 148                  | 143              |
|              | .....1958..   | 122                  | 113              |
| 35812        | Coin-operated mechanisms and parts for automatic vending machines.....1963..          | 305                  | 97               |
|              | .....1958..   | 150                  | 112              |
| 3582-        | Commercial laundry, dry cleaning, and pressing machines.....1963..                    | 202                  | 84               |
|              | .....1958..   | 122                  | 114              |
| 3585-        | Refrigeration machinery <sup>1</sup> .....1963..                                      | 208                  | 86               |
|              | .....1958..   | 135                  | 90               |
| 35851        | Heat transfer equipment.....1963..  | 260                  | 83               |
|              | .....1958..   | 146                  | 82               |
| 35853        | Commercial refrigerators and related equipment...1963..                               | 125                  | 100              |
|              | .....1958..   | 115                  | 106              |
| 35854        | Compressors and compressor units, all refrigerants.....1963..                         | 231                  | 77               |
|              | .....1958..   | 139                  | 90               |
| 3586-        | Measuring and dispensing pumps.....1963..   | 113                  | 133              |
|              | .....1958..   | 79                   | 138              |
| 3589-        | Service industry machines <sup>2</sup> .....1963..                                    | 202                  | 116              |
|              | .....1958..   | 143                  | 112              |
| 35892        | Service industry machines and parts.....1963..  | 203                  | 121              |
|              | .....1958..   | 161                  | 113              |
| 35893        | Commercial and industrial vacuum cleaners, including parts and attachments.....1963.. | 386                  | 61               |
|              | .....1958..   | 182                  | 88               |
| 3599-        | Miscellaneous machinery except electrical.....1963..                                  | ( <sup>3</sup> )     | ( <sup>3</sup> ) |
|              | .....1958..   | ( <sup>3</sup> )     | ( <sup>3</sup> ) |

<sup>1</sup>Adjusted to include products not specified by kind and products not shown separately below - namely, condensing units, all refrigerants (product class 35855) and other refrigeration and air-conditioning equipment, including soda fountain and beer dispensing equipment (product class 35857).

<sup>2</sup>Adjusted to include products not specified by kind and commercial cooking and food warming equipment (product class 35891).

<sup>3</sup>Not shown because comparable quantity data were not obtained for a significant portion of these products.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class  | 1963      | 1962 <sup>1</sup>      | 1961 <sup>1</sup>      | 1960 <sup>1</sup>      | 1959 <sup>1</sup>      | 1958      | 1954    | 1947      |         |
|-------|--|-----------|------------------------|------------------------|------------------------|------------------------|-----------|---------|-----------|---------|
| 3581- | Automatic vending machines.....  | 206,562   | 222,324                | 195,191                | 185,111                | 158,653                | 130,850   | (NA)    | (NA)      |         |
| 35811 | Automatic merchandising machines.....  | 164,338   | } 218,529              | 194,707                | 184,302                | 153,438                | } 110,548 | 74,258  | 74,250    |         |
| 35812 | Coin-operated mechanisms and parts for<br>automatic merchandising machines.....                                      | 32,757    |                        |                        |                        |                        |           |         |           |         |
| 35810 | Automatic vending machines, n.s.k.....   | 9,467     |                        |                        |                        |                        |           |         |           | (3,795) |
| 35820 | Commercial laundry, dry cleaning, and<br>pressing machinery and equipment.....                                       | 129,613   | 134,902                | 127,461                | 119,935                | 123,619                | 106,590   | 76,637  | 93,078    |         |
| 3585- | Refrigeration machinery <sup>2</sup> .....   | 2,077,006 | <sup>3</sup> 2,043,788 | <sup>3</sup> 1,840,078 | <sup>3</sup> 1,878,944 | 1,720,293              | 1,435,091 | (NA)    | (NA)      |         |
| 35851 | Heat transfer equipment <sup>4</sup> .....   | 1,131,167 | 949,735                | 869,699                | 883,044                | <sup>5</sup> 768,142   | 715,914   | (NA)    | (NA)      |         |
| 35853 | Commercial refrigeration equipment.....  | 253,711   | 287,113                | 249,945                | 261,335                | 269,159                | 240,409   | 201,660 | 227,369   |         |
| 35854 | Compressors and compressor units, all<br>refrigerants.....   | 269,359   | 265,714                | 234,607                | 247,475                | 237,114                | 181,821   | 162,991 | 63,371    |         |
| 35855 | Condensing units, all refrigerants.....  | 73,538    | 102,717                | 97,517                 | 108,749                | 104,763                | 70,307    | 85,274  | 111,697   |         |
| 35857 | Other refrigeration and air-conditioning<br>equipment, including soda fountain and<br>beer dispensing equipment..... | 302,530   | <sup>3</sup> (406,951) | <sup>3</sup> (356,867) | <sup>3</sup> (358,921) | <sup>3</sup> (313,180) | 195,198   | (NA)    | (NA)      |         |
| 35850 | Refrigeration machinery, n.s.k.....  | 46,701    | (31,558)               | (31,443)               | (19,420)               | (27,935)               | 31,442    | (NA)    | (NA)      |         |
| 35860 | Measuring and dispensing pumps.....  | 121,017   | 115,025                | 106,004                | 102,252                | 100,987                | 88,217    | 80,846  | 95,488    |         |
| 3589- | Service industry machines, n.e.c.....  | 341,517   | 315,951                | 299,127                | 274,570                | 253,025                | 221,987   | (NA)    | (NA)      |         |
| 35891 | Commercial cooking and food warming<br>equipment <sup>6</sup> .....  | 106,965   | 97,534                 | 95,464                 | 86,469                 | 79,476                 | 73,169    | 44,088  | } 127,383 |         |
| 35892 | Service industry machines, and parts.....  | 196,701   | 198,742                | 187,185                | 172,361                | 158,413                | 136,086   | 140,389 |           |         |
| 35893 | Commercial and industrial vacuum<br>cleaners, including attachments and parts  | 18,996    | 19,675                 | 16,478                 | 15,740                 | 15,136                 | 12,732    | (NA)    |           | (NA)    |
| 35890 | Service industry machines, n.e.c., n.s.k..   | 18,855    | -                      | -                      | -                      | -                      | -         | -       |           |         |
| 35990 | Carburetors, pistons and other machine<br>shop products.....   | 1,605,915 | 1,426,247              | 1,266,468              | 1,252,106              | 1,270,189              | 1,117,684 | (NA)    | (NA)      |         |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>These data represent the sum of 5-digit product class data obtained from Current Industrial Reports and the census of manufactures or the annual survey of manufactures.

<sup>3</sup>Data for product class 35857 for 1959-1962 included an undeterminate amount for automobile air conditioners. Separate information for automotive air conditioners were collected on Form MA-35M beginning in 1960 and included with data for product class 35851. Accordingly the 4-digit total figures for 1960-1962 are overstated.

<sup>4</sup>Source: Current Industrial Reports Series M35M "Air Conditioning and Refrigeration Equipment."

<sup>5</sup>Excludes automotive air conditioners for which separate data are not available.

<sup>6</sup>Parts and accessories for commercial cooking and food warming equipment are included in product class 35892 for all years except 1958 and 1963.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area   | Value of shipments | Product class and geographic area   | Value of shipments | Product class and geographic area   | Value of shipments |
|---|--------------------|---|--------------------|---|--------------------|
| 1963 <sup>1</sup>   |                    | 1963 <sup>1</sup>   |                    | 1963 <sup>1</sup>   |                    |
| AUTOMATIC MERCHANDISING MACHINES (35811)  |                    | COMMERCIAL REFRIGERATION EQUIPMENT (35853)—Con.   |                    | OTHER REFRIGERATION AND AIR-CONDITIONING EQUIPMENT, INCLUDING SODA FOUNTAIN AND BEER DISPENSING EQUIPMENT (35857)—Continued |                    |
| United States, total.....   | 164,338            | Middle Atlantic.....  | 59,712             | East North Central.....   | 81,513             |
| Northeast.....  | 36,932             | New York.....   | 17,645             | Ohio.....   | 22,998             |
| New York.....   | 3,625              | New Jersey.....   | 22,290             | Indiana.....  | 15,196             |
| Pennsylvania.....   | 4,120              | Pennsylvania.....   | 19,777             | Illinois.....   | 13,094             |
| East North Central.....   | 48,907             | East North Central.....   | 82,884             | Michigan.....   | 22,985             |
| Ohio.....   | 2,961              | Ohio.....   | 22,520             | Wisconsin.....  | 7,240              |
| Indiana.....  | 2,645              | Indiana.....  | 20,369             | West North Central.....   | 29,268             |
| Illinois.....   | 28,624             | Illinois.....   | 6,975              | Missouri.....   | 14,932             |
| West North Central.....   | 48,112             | Michigan.....   | 20,003             | South Atlantic.....   | 16,499             |
| Iowa.....   | 2,661              | Wisconsin.....  | 13,012             | Virginia.....   | 4,810              |
| South.....  | 17,114             | West North Central.....   | 49,481             | North Carolina.....   | 8,050              |
| Texas.....  | 2,797              | Iowa.....   | 2,546              | East South Central.....   | 10,781             |
| West.....   | 13,273             | Missouri.....   | 26,856             | West South Central.....   | 38,387             |
| COIN-OPERATED MECHANISMS AND PARTS FOR AUTOMATIC MERCHANDISING MACHINES (35812) |                    | South Atlantic.....   | 16,270             | Arkansas.....   | 2,351              |
| United States, total.....   | 32,757             | Maryland.....   | 4,989              | Texas.....  | 33,731             |
| Northeast.....  | 6,824              | East South Central.....   | 3,851              | West.....   | 28,182             |
| New York.....   | 4,715              | West South Central.....   | 16,840             | MEASURING AND DISPENSING PUMPS (35860)  |                    |
| East North Central.....   | 9,908              | West.....   | 21,960             | United States, total...   | 121,017            |
| Illinois.....   | 4,927              | Washington.....   | 3,045              | Northeast.....  | 31,220             |
| West North Central.....   | 13,721             | Oregon.....   | 1,158              | New York.....   | 2,461              |
| South.....  | 1,031              | California.....   | 16,693             | Pennsylvania.....   | 9,706              |
| West.....   | 1,273              | COMPRESSORS AND COMPRESSOR UNITS, ALL REFRIGERANTS (35854)  |                    | East North Central.....   | 48,987             |
| HEAT TRANSFER EQUIPMENT (35851)   |                    | United States, total...   | 269,359            | Ohio.....   | 14,461             |
| United States, total.....   | 1,158,793          | Northeast.....  | 31,690             | West North Central.....   | 18,573             |
| New England.....  | 6,734              | East North Central.....   | 224,933            | South.....  | 19,297             |
| Massachusetts.....  | 4,162              | Ohio.....   | 93,832             | West.....   | 2,940              |
| Middle Atlantic.....  | 340,417            | South and West.....   | 12,736             | COMMERCIAL COOKING AND FOOD WARMING EQUIPMENT (35891)   |                    |
| New York.....   | 259,209            | California.....   | 4,212              | United States, total...   | 106,965            |
| New Jersey.....   | 19,476             | CONDENSING UNITS, ALL REFRIGERANTS (35855)  |                    | New England.....  | 10,452             |
| Pennsylvania.....   | 61,732             | United States, total...   | 73,538             | Middle Atlantic.....  | 19,949             |
| East North Central.....   | 453,510            | Northeast.....  | 18,885             | New York.....   | 8,193              |
| Ohio.....   | 163,351            | New York.....   | 6,794              | New Jersey.....   | 18,744             |
| Indiana.....  | 110,790            | North Central.....  | 45,834             | Pennsylvania.....   | 3,012              |
| Illinois.....   | 38,126             | Michigan.....   | 21,089             | East North Central.....   | 42,683             |
| Michigan.....   | 82,692             | South.....  | 7,118              | Illinois.....   | 30,894             |
| Wisconsin.....  | 58,551             | Texas.....  | 3,133              | West North Central.....   | 8,332              |
| West North Central.....   | 91,269             | West.....   | 1,701              | Missouri.....   | 6,742              |
| Minnesota.....  | 40,410             | OTHER REFRIGERATION AND AIR-CONDITIONING EQUIPMENT, INCLUDING SODA FOUNTAIN AND BEER DISPENSING EQUIPMENT (35857) |                    | South.....  | 11,287             |
| Missouri.....   | 9,300              | United States, total...   | 302,530            | Pacific.....  | 14,262             |
| South Atlantic.....   | 35,928             | New England.....  | 19,604             | California.....   | 12,547             |
| Georgia.....  | 4,125              | Connecticut.....  | 16,270             | SERVICE INDUSTRY MACHINES, AND PARTS (35892)  |                    |
| Florida.....  | 2,398              | Middle Atlantic.....  | 78,296             | United States, total...   | 196,701            |
| East South Central.....   | 86,040             | New York.....   | 33,150             | New England.....  | 7,584              |
| West South Central.....   | 83,308             | New Jersey.....   | 22,007             | Massachusetts.....  | 5,127              |
| Texas.....  | 65,311             | Pennsylvania.....   | 23,139             | Connecticut.....  | 2,361              |
| Mountain.....   | 11,417             |   |                    |   |                    |
| Pacific.....  | 50,170             |   |                    |   |                    |
| COMMERCIAL REFRIGERATION EQUIPMENT (35853)                                      |                    |   |                    |   |                    |
| United States, total.....   | 253,711            |   |                    |   |                    |
| New England.....  | 2,713              |   |                    |   |                    |
| Massachusetts.....  | 2,713              |   |                    |   |                    |

See footnotes at end of table.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area                 | Value of shipments | Product class and geographic area                 | Value of shipments | Product class and geographic area  | Value of shipments |
|---|--------------------|---|--------------------|--|--------------------|
|   | 1963 <sup>1</sup>  |   | 1963 <sup>1</sup>  |  | 1963 <sup>1</sup>  |
| SERVICE INDUSTRY MACHINES, AND PARTS (35892)—Con. |                    | SERVICE INDUSTRY MACHINES, AND PARTS (35892)—Con. |                    | COMMERCIAL AND INDUSTRIAL VACUUM CLEANERS, INCLUDING ATTACHMENTS AND PARTS (35893) |                    |
| Middle Atlantic.....                              | 38,730             | West North Central.....                           | 26,615             | United States, total...  | 18,996             |
| New York.....                                     | 8,767              | Minnesota.....                                    | 18,074             |  |                    |
| New Jersey.....                                   | 9,582              | South.....  | 7,547              | Northeast.....   | 6,230              |
| Pennsylvania.....                                 | 20,381             | Florida.....                                      | 1,713              | New Jersey.....  | 1,430              |
| East North Central.....                           | 103,652            | Mountain.....                                     | 2,686              | North Central.....   | 9,408              |
| Ohio.....   | 35,477             | Colorado.....                                     | 2,516              | Ohio.....  | 1,461              |
| Indiana.....                                      | 2,760              | Pacific.....                                      | 9,887              | Illinois.....  | 3,974              |
| Illinois.....                                     | 41,750             | California.....                                   | 9,469              | South and West.....  | 3,358              |
| Michigan.....                                     | 14,569             |   |                    |  |                    |
| Wisconsin.....                                    | 9,096              |   |                    |  |                    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 35811, Massachusetts, Connecticut, New Jersey, Michigan, Wisconsin, Minnesota, Missouri, Maryland, West Virginia, Tennessee, California; 35812, Wisconsin, Missouri, California; 35851, Connecticut, Iowa, Kansas, Maryland, Virginia, North Carolina, Kentucky, Tennessee, Alabama, Mississippi, Arkansas, Oklahoma, Texas, Arizona, Utah, California; 35853, Minnesota, Kansas, South Carolina, Georgia, Tennessee, Alabama, Mississippi, Arkansas, Texas; 35854, Connecticut, New York, New Jersey, Pennsylvania, Indiana, Illinois, Michigan, Wisconsin, Kentucky; 35855, Connecticut, New Jersey, Pennsylvania, Ohio, Indiana, Wisconsin, Missouri, Georgia, California; 35857, Massachusetts, Rhode Island, Minnesota, Kansas, Maryland, Florida, Kentucky, Tennessee, Oklahoma, Arizona, California; 35860, Vermont, Massachusetts, New Jersey, Indiana, Illinois, Michigan, Minnesota, Iowa, Missouri, Maryland, Tennessee, Texas, Colorado, California; 35891, New Hampshire, Vermont, Massachusetts, Ohio, Indiana, Maryland, Kentucky, Louisiana, Oregon; 35892, Connecticut, Iowa, Missouri, Kansas, North Carolina, Kentucky; 35893, Massachusetts, Connecticut, Michigan, Minnesota, South Carolina, California.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code  | Material   | Unit of measure            | 1963     |                          | 1958     |                          |
|---|--|----------------------------|----------|--------------------------|----------|--------------------------|
|   |  |                            | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3581.—AUTOMATIC VENDING MACHINES   |  |                            |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....   |                            | (X)      | 108,790                  | (X)      | 68,165                   |
|   | Mill shapes and forms (except castings):   |                            |          |                          |          |                          |
|   | Carbon steel:  |                            |          |                          |          |                          |
| 331011                                      | Bars and bar shapes.....   | Short tons.....            | 1,362    | 338                      | 387      | 120                      |
| 331012                                      | Sheet and strip.....   | .....do.....               | 58,009   | 10,099                   | 29,517   | 6,202                    |
| 331013                                      | Plates.....  | .....do.....               | 189      | 56                       |          |                          |
| 331015                                      | Structural shapes.....   | .....do.....               | 241      | 60                       | 726      | 221                      |
| 331019                                      | All other carbon steel mill shapes and forms.....  | .....do.....               | 582      | 169                      |          |                          |
| 331020                                      | Alloy steel (except stainless).....  | .....do.....               | 295      | 238                      |          |                          |
| 331031                                      | Stainless steel mill shapes and forms.....   | .....do.....               | 2,691    | 3,121                    | 1,217    | 914                      |
|   | Copper and copper-base alloy:  |                            |          |                          |          |                          |
| 335728                                      | Bare wire (for electrical conduction).....   | 1,000 lbs.....             | 647      | 395                      | (NA)     | (NA)                     |
| 335790                                      | Insulated wire and cable.....  | 1,000 lbs. copper content. | 503      | 318                      | (NA)     | (NA)                     |
| 335102                                      | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                             | 1,000 lbs.....             |          |                          |          |                          |
| 335123                                      | Plate, sheet, and strip (including military cups and discs)....  | .....do.....               | 158      | 117                      | (NA)     | (NA)                     |
| 335127                                      | Pipe and tube.....   | .....do.....               | 268      | 199                      | (NA)     | (NA)                     |
|   | Aluminum and aluminum-base alloy:  |                            |          |                          |          |                          |
| 335202                                      | Sheet, plate and foil.....   | .....do.....               | 730      | 408                      |          |                          |
| 335205                                      | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)  | .....do.....               |          |                          | 994      | 749                      |
| 335209                                      | All other aluminum mill shapes and forms (wire rolled rod and bar, powder, welded tubing, etc.).....   | .....do.....               | 544      | 470                      |          |                          |
| 333401                                      | Aluminum and aluminum-base alloy refinery shapes (pig, ingot, shot, slugs, etc.).....                  |                            | (D)      | (D)                      | (NA)     | (NA)                     |
|   | Castings (rough and semifinished): <sup>1</sup>  |                            |          |                          |          |                          |
| 332011                                      | Iron (gray and malleable).....   |                            | (D)      | (D)                      | (NA)     | (NA)                     |
| 332300                                      | Steel.....   |                            | (D)      | (D)                      | (NA)     | 623                      |
| 336100                                      | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....             | 683      | 435                      | 757      | 528                      |
| 336200                                      | Copper and copper-base alloy.....  | .....do.....               | 96       | 80                       | (NA)     | (NA)                     |
|   | Electric motors and generators: <sup>1</sup>   |                            |          |                          |          |                          |
| 362110                                      | Fractional horsepower electric motors (under 1 hp.) timing motors, synchronous and subsynchronous..... | Number.....                | 957,509  | 3,382                    | 54,040   | 254                      |
| 362115                                      | Other fractional horsepower electric motors (excluding timing motors).....                             | .....do.....               | 174,401  | 1,717                    | 220,157  | 2,011                    |
| 362120                                      | Integral horsepower motors and generators (1 hp. and over).....  | .....do.....               | (D)      | (D)                      | (NA)     | (NA)                     |
| 970099                                      | All other materials and components, parts, containers, and supplies consumed.....                      |                            | (X)      | 67,464                   | (X)      | 51,378                   |
| 976000                                      | Materials, containers, supplies, n.s.k. <sup>2</sup> .....   |                            | (X)      | 19,724                   | (X)      | 5,165                    |
| INDUSTRY 3582.—COMMERCIAL LAUNDRY EQUIPMENT |  |                            |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....   |                            | (X)      | 57,531                   | (X)      | 45,745                   |
|   | Mill shapes and forms (except castings):   |                            |          |                          |          |                          |
|   | Carbon steel:  |                            |          |                          |          |                          |
| 331011                                      | Bars and bar shapes.....   | Short tons.....            | 5,173    | 1,055                    | 4,347    | 963                      |
| 331012                                      | Sheet and strip.....   | .....do.....               | 14,255   | 2,341                    | 29,688   | 5,012                    |
| 331013                                      | Plates.....  | .....do.....               | 4,687    | 898                      | 2,416    | 606                      |
| 331015                                      | Structural shapes.....   | .....do.....               | 1,695    | 538                      | 1,200    | 678                      |
| 331019                                      | All other carbon steel mill shapes and forms.....  | .....do.....               | 2,243    | 711                      | 869      | 355                      |
| 331020                                      | Alloy steel (except stainless).....  | .....do.....               |          |                          | 385      | 489                      |
| 331031                                      | Stainless steel mill shapes and forms.....   | .....do.....               | 2,406    | 2,792                    | 3,674    | 4,858                    |
|   | Copper and copper-base alloy:  |                            |          |                          |          |                          |
| 335728                                      | Bare wire (for electrical conduction).....   | 1,000 lbs.....             | -        | -                        |          |                          |
| 335790                                      | Industrial wire and cable.....   | 1,000 lbs. copper content. |          |                          | 59       | 66                       |
| 335102                                      | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                             | 1,000 lbs.....             | 98       | 59                       |          |                          |
| 335123                                      | Plate, sheet, and strip (including military cups and discs)....  | .....do.....               | 121      | 100                      | 392      | 332                      |
| 335127                                      | Pipe and tube.....   | .....do.....               | 578      | 303                      |          |                          |
|   | Aluminum and aluminum-base alloy:  |                            |          |                          |          |                          |
| 335202                                      | Sheet, plate, and foil.....  | .....do.....               | 522      | 369                      |          |                          |
| 335205                                      | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)  | .....do.....               | 141      | 116                      | 294      | 263                      |
| 335209                                      | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....  | .....do.....               | 28       | 22                       |          |                          |
|   | Castings (rough and semifinished): <sup>1</sup>  |                            |          |                          |          |                          |
| 332011                                      | Iron (gray and malleable).....   | Short tons.....            | 11,723   | 3,313                    | 8,301    | 2,989                    |
| 332300                                      | Steel.....   | .....do.....               | 389      | 255                      | 253      | 213                      |
| 336100                                      | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....             | 616      | 607                      | 493      | 512                      |
| 336200                                      | Copper and copper-base alloy.....  | .....do.....               | 624      | 399                      | 411      | 334                      |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material   | Unit of measure                | 1963      |                          | 1958      |                          |
|--|--|--------------------------------|-----------|--------------------------|-----------|--------------------------|
|  |  |                                | Quantity  | Delivered cost (\$1,000) | Quantity  | Delivered cost (\$1,000) |
| INDUSTRY 3582.—COMMERCIAL LAUNDRY EQUIPMENT—Continued  |  |                                |           |                          |           |                          |
| 362110   | Electric motors and generators: <sup>1</sup><br>Fractional horsepower electric motors (under 1 hp.) timing motors, synchronous and subsynchronous..... | Number.....                    | 58,824    | 653                      | 11,345    | 143                      |
| 362115   | Other fractional horsepower electric motors (excluding timing motors).....   | ..do.....                      | 68,389    | 1,365                    | 59,426    | 1,898                    |
| 362120   | Integral horsepower motors and generators (1 hp. and over).....  | ..do.....                      | 19,093    | 2,939                    | 12,984    | 1,823                    |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....  | .....                          | (X)       | 33,295                   | (X)       | 14,741                   |
| 976000   | Materials, containers, and supplies, n.s.k. <sup>2</sup> .....   | .....                          | (X)       | 5,401                    | (X)       | 9,470                    |
| INDUSTRY 3585.—REFRIGERATION MACHINERY                 |  |                                |           |                          |           |                          |
| Materials, parts, containers, and supplies, total..... |  | .....                          | (X)       | <sup>3</sup> 958,092     | (X)       | <sup>3</sup> 716,165     |
| Mill shapes and forms (except castings):               |  |                                |           |                          |           |                          |
| Carbon steel:  |  |                                |           |                          |           |                          |
| 331011   | Bars and bar shapes.....   | Short tons.....                | 27,134    | 5,080                    | 20,144    | 3,959                    |
| 331012   | Sheet and strip.....   | ..do.....                      | 347,565   | 60,963                   | 256,726   | 42,729                   |
| 331013   | Plates.....  | ..do.....                      | 44,339    | 7,035                    | 20,185    | 3,332                    |
| 331015   | Structural shapes.....   | ..do.....                      | 8,362     | 1,617                    | 9,352     | 1,777                    |
| 331017   | Wire and wire products.....  | ..do.....                      | 2,381     | 977                      | 4,817     | 2,031                    |
| 331019   | All other carbon steel mill shapes and forms.....  | ..do.....                      | 14,112    | 3,532                    | 18,033    | 5,200                    |
| Alloy steel (except stainless):                        |  |                                |           |                          |           |                          |
| 331021   | Bars and bar shapes.....   | ..do.....                      | 1,065     | 353                      | 1,175     | 438                      |
| 331029   | All other alloy steel mill shapes and forms.....   | ..do.....                      | 5,079     | 1,752                    | 5,338     | 2,264                    |
| 331031   | Stainless steel.....   | ..do.....                      | 14,012    | 16,113                   | 10,876    | 14,822                   |
| Copper and copper-base alloy:                          |  |                                |           |                          |           |                          |
| 335728   | Bare wire (for electrical conduction).....   | 1,000 lbs.....                 | 1,359     | 1,136                    | 3,253     | 1,794                    |
| 335790   | Insulated wire and cable.....  | 1,000 lbs. copper content..... |           |                          |           |                          |
| 335102   | Rod, bar, and mechanical wire including extruded and/or drawn shapes.....  | 1,000 lbs.....                 | 2,352     | 1,250                    | 58,058    | 43,885                   |
| 335123   | Plate, sheet, and strip (including military cups and discs)....  | ..do.....                      | 11,312    | 6,297                    |           |                          |
| 335127   | Pipe and tube.....   | ..do.....                      | 80,482    | 49,519                   |           |                          |
| Aluminum and aluminum-base alloy:                      |  |                                |           |                          |           |                          |
| 335202   | Sheet, plate, and foil.....  | ..do.....                      | 65,545    | 24,765                   | 41,326    | 20,688                   |
| 335205   | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)  | ..do.....                      | 3,926     | 2,164                    |           |                          |
| 335209   | All other aluminum mill shapes and forms, (wire, rolled rod and bar, powder, welded tubing, etc.).....   | ..do.....                      | 2,450     | 954                      |           |                          |
| Casting (rough and semifinished): <sup>1</sup>         |  |                                |           |                          |           |                          |
| 332011   | Iron (gray and malleable).....   | Short tons.....                | 91,869    | 31,059                   | 98,881    | 25,158                   |
| 332300   | Steel.....   | ..do.....                      | 17,141    | 7,720                    | 5,754     | 1,871                    |
| 336100   | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....                 | 8,517     | 5,249                    | 7,750     | 3,433                    |
| 336200   | Copper and copper-base alloy.....  | ..do.....                      | 6,755     | 3,920                    | 2,446     | 1,793                    |
| 339100   | Iron and steel forgings <sup>1</sup> .....   | Short tons.....                | 5,490     | 2,861                    | 3,238     | 1,382                    |
| Electric motors and generators: <sup>1</sup>           |  |                                |           |                          |           |                          |
| 362110   | Fractional horsepower electric motors (under 1 hp.):<br>Timing motors, synchronous and subsynchronous.....   | Number.....                    | (NA)      | 5,302                    | 713,523   | 6,952                    |
| 362115   | Fractional horsepower electric motors (including timing motors)  | ..do.....                      | 8,435,089 | 61,945                   | 5,744,837 | 49,852                   |
| 362120   | Integral horsepower motors and generators (1 hp. and over).....  | ..do.....                      | 3,366,782 | 68,694                   | 1,865,455 | 52,474                   |
| Bearings:  |  |                                |           |                          |           |                          |
| 356218   | Ball.....  | .....                          | (X)       | 2,716                    | (NA)      | (NA)                     |
| 356228   | Roller.....  | .....                          | (X)       | 356                      | (NA)      | (NA)                     |
| 260091   | Paper and paperboard containers.....   | .....                          | (X)       | 7,883                    | (NA)      | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....  | .....                          | (X)       | 504,108                  | (X)       | 388,132                  |
| 976000   | Materials, containers, supplies, n.s.k. <sup>2</sup> .....   | .....                          | (X)       | 72,772                   | (X)       | 33,692                   |
| INDUSTRY 3586.—MEASURING AND DISPENSING PUMPS          |  |                                |           |                          |           |                          |
| Materials, parts, containers and supplies, total.....  |  | .....                          | (X)       | 59,780                   | (X)       | 47,026                   |
| Mill shapes and forms (except castings):               |  |                                |           |                          |           |                          |
| Carbon steel:  |  |                                |           |                          |           |                          |
| 331011   | Bars and bar shapes.....   | Short tons.....                | 8,169     | 2,154                    | (NA)      | (NA)                     |
| 331012   | Sheet and strip.....   | ..do.....                      | 13,478    | 2,229                    | (NA)      | (NA)                     |
| 331013   | Plates.....  | ..do.....                      | 1,137     | 148                      | (NA)      | (NA)                     |
| 331015   | Structural shapes.....   | ..do.....                      | 1,430     | 180                      | (NA)      | (NA)                     |
| 331019   | All other carbon steel mill shapes and forms.....  | ..do.....                      | 1,609     | 485                      | (NA)      | (NA)                     |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure               | 1963     |                             | 1958     |                             |
|---|---|-------------------------------|----------|-----------------------------|----------|-----------------------------|
|   |   |                               | Quantity | Delivered cost<br>(\$1,000) | Quantity | Delivered cost<br>(\$1,000) |
| INDUSTRY 3586.—MEASURING AND DISPENSING PUMPS—Con.            |   |                               |          |                             |          |                             |
|   | Mill shapes and forms (except castings)—Continued   |                               |          |                             |          |                             |
|   | Alloy steel (except stainless):   |                               |          |                             |          |                             |
| 331021  | Bars and bar shapes.....  | Short tons.....               | 70       | 25                          | (NA)     | (NA)                        |
| 331029  | All other alloy steel.....  | ..do.....                     | 33       | 32                          | (NA)     | (NA)                        |
| 331031  | Stainless steel.....  | ..do.....                     | 720      | 1,118                       | (NA)     | (NA)                        |
|   | Copper and copper-base alloy:   |                               |          |                             |          |                             |
| 335790  | Insulated wire and cable.....   | 1,000 lbs.<br>copper content. | 63       | 55                          | 27       | 32                          |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.....                | 1,029    | 547                         | } 846    | } 507                       |
| 335123  | Plate, sheet, and strip (including military cups and discs)....                                       | ..do.....                     | 174      | 167                         |          |                             |
| 335127  | Pipe and tube.....  | ..do.....                     | 277      | 149                         |          |                             |
|   | Aluminum and aluminum-base alloy:   |                               |          |                             |          |                             |
| 335202  | Sheet, plate and foil.....  | ..do.....                     | 232      | 156                         | } 200    | } 169                       |
| 335205  | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)                                       | ..do.....                     | 445      | 434                         |          |                             |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                     | 54       | 36                          |          |                             |
| 333401  | Aluminum and aluminum-base refinery shapes.....   | .....                         | (D)      | (D)                         | (NA)     | (NA)                        |
| 999811  | Iron and steel scrap (excluding home scrap).....  | .....                         | (D)      | (D)                         | (NA)     | (NA)                        |
|   | Castings (rough and semifinished): <sup>4</sup>   |                               |          |                             |          |                             |
| 332011  | Iron (gray and malleable).....  | ..do.....                     | 8,831    | 2,869                       | 10,164   | 2,827                       |
| 332300  | Steel.....  | ..do.....                     | (D)      | (D)                         | (NA)     | (NA)                        |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                | 2,692    | 1,977                       | 1,294    | 1,038                       |
| 336200  | Copper and copper-base alloy.....   | ..do.....                     | 513      | 477                         | 558      | 368                         |
| 339100  | Iron and steel forgings <sup>1</sup> .....  | .....                         | (D)      | (D)                         | (NA)     | (NA)                        |
| 351901  | Gasoline and other carburetor engines <sup>1</sup> .....  | Number.....                   | 1,002    | 192                         | (NA)     | (NA)                        |
|   | Electric motors and generators <sup>4</sup> :   |                               |          |                             |          |                             |
| 362115  | Fractional horsepower electric motors (under 1 hp.) (excluding timing motors).....                    | ..do.....                     | 121,071  | 3,099                       | 99,369   | 3,103                       |
| 362120  | Integral horsepower motors and generators (1 hp. and over).....                                       | ..do.....                     | 2,645    | 248                         | (NA)     | (NA)                        |
|   | Bearings:   |                               |          |                             |          |                             |
| 356218  | Ball.....   | .....                         | (X)      | 192                         | (X)      | (NA)                        |
| 356228  | Roller.....   | .....                         | (X)      | 147                         | (X)      | (NA)                        |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                     | .....                         | (X)      | 40,211                      | (X)      | 37,904                      |
| 976000  | Materials, containers, supplies, n.s.k.....   | .....                         | (X)      | 2,453                       | (X)      | 998                         |
| INDUSTRY 3589.—SERVICE INDUSTRY MACHINES, N.E.C. <sup>5</sup> |   |                               |          |                             |          |                             |
|   | Materials, parts, containers and supplies, total.....   | .....                         | (X)      | 150,797                     | (X)      | 95,601                      |
|   | Mill shapes and forms (except castings):  |                               |          |                             |          |                             |
|   | Carbon steel:   |                               |          |                             |          |                             |
| 331011  | Bars and bar shapes.....  | Short tons.....               | 4,141    | 1,259                       | 2,111    | 492                         |
| 331012  | Sheet and strip.....  | ..do.....                     | 27,402   | 4,296                       | 19,816   | 3,924                       |
| 331013  | Plates.....   | ..do.....                     | 2,354    | 555                         | 2,416    | 498                         |
| 331015  | Structural shapes.....  | ..do.....                     | 1,491    | 301                         | 872      | 170                         |
| 331019  | All other carbon steel mill shapes and forms.....   | ..do.....                     | 2,997    | 606                         | 1,598    | 581                         |
| 331020  | Alloy steel (except stainless).....   | ..do.....                     | 1,931    | 1,360                       | 360      | 309                         |
| 331031  | Stainless steel mill shapes and forms.....  | ..do.....                     | 8,759    | 9,924                       | 5,364    | 7,104                       |
|   | Copper and copper-base alloy:   |                               |          |                             |          |                             |
| 335728  | Bare wire (for electrical conduction).....  | 1,000 lbs.....                | } 405    | } 359                       | 109      | 74                          |
| 335790  | Insulated wire and cable.....   | 1,000 lbs.<br>copper content. |          |                             |          |                             |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.....                | 945      | 651                         | } 620    | } 426                       |
| 335123  | Plate, sheet, and strip (including military cups and discs)....                                       | ..do.....                     | 150      | 90                          |          |                             |
| 335127  | Pipe and tube.....  | ..do.....                     | 546      | 406                         |          |                             |
|   | Aluminum and aluminum-base alloy:   |                               |          |                             |          |                             |
| 335202  | Sheet, plate and foil.....  | ..do.....                     | 962      | 596                         | } 251    | } 115                       |
| 335205  | Extruded shapes, (including extruded rod, bar, pipe, tube etc.)                                       | ..do.....                     | 305      | 307                         |          |                             |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                     | 98       | 91                          |          |                             |
| 333401  | Aluminum and aluminum-base alloy refinery shapes (pig, ingot, shot, slugs, etc.).....                 | Short tons.....               | 128      | 78                          | (NA)     | (NA)                        |
| 999808  | Aluminum and aluminum-base alloy scrap (exclude home scrap).....                                      | ..do.....                     | (D)      | (D)                         | (NA)     | (NA)                        |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material   | Unit of measure               | 1963     |                             | 1958     |                             |
|---|--|-------------------------------|----------|-----------------------------|----------|-----------------------------|
|   |  |                               | Quantity | Delivered cost<br>(\$1,000) | Quantity | Delivered cost<br>(\$1,000) |
| INDUSTRY 3589.—SERVICE INDUSTRY MACHINES, N.E.C. <sup>5</sup> —Con. |  |                               |          |                             |          |                             |
|   | Castings (rough and semifinished): <sup>4</sup>  |                               |          |                             |          |                             |
| 332011  | Iron (gray and malleable).....   | Short tons.....               | 10,118   | 4,262                       | 6,253    | 2,591                       |
| 332300  | Steel.....   | ..do.....                     | 1,642    | 736                         | 612      | 360                         |
| 336100  | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....                | 5,730    | 4,226                       | 2,030    | 1,616                       |
| 336200  | Copper and copper-base alloy.....  | ..do.....                     | 1,278    | 1,016                       | 1,218    | 849                         |
|   | Electric motors and generators: <sup>4</sup>   |                               |          |                             |          |                             |
| 362110  | Fractional horsepower electric motors (under 1 hp.) timing motors, synchronous and subsynchronous..... | Number.....                   | 68,161   | 1,116                       | 57,001   | 694                         |
| 362115  | Other fractional horsepower electric motors (excluding timing motors).....                             | ..do.....                     | 244,293  | 3,439                       | 123,203  | 2,400                       |
| 362120  | Integral horsepower motors and generators (1 hp. and over).....  | ..do.....                     | 35,113   | 2,303                       | 34,229   | 2,045                       |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                      | .....                         | (X)      | 85,788                      | (X)      | 53,985                      |
| 97600C  | Materials, containers, and supplies, n.s.k. <sup>2</sup> .....   | .....                         | (X)      | 27,032                      | (X)      | 16,490                      |
| INDUSTRY 3599.—MISCELLANEOUS MACHINERY                              |  |                               |          |                             |          |                             |
|   | Materials, parts, containers, and supplies, total.....   | .....                         | (X)      | 528,661                     | (X)      | 427,424                     |
|   | Mill shapes and forms (except castings):   |                               |          |                             |          |                             |
|   | Carbon steel:  |                               |          |                             |          |                             |
| 331011  | Bars and bar shapes.....   | Short tons.....               | 103,349  | 22,256                      | 77,276   | 14,522                      |
| 331012  | Sheet and strip.....   | ..do.....                     | 61,301   | 10,672                      | 36,873   | 8,168                       |
| 331013  | Plates.....  | ..do.....                     | 36,974   | 6,317                       | 32,623   | 5,447                       |
| 331015  | Structural shapes.....   | ..do.....                     | 23,395   | 4,186                       | 19,742   | 2,922                       |
| 331017  | Wire and wire products.....  | ..do.....                     | 5,206    | 2,723                       | 4,813    | 1,936                       |
| 331019  | All other carbon steel mill shapes and forms.....  | ..do.....                     | 30,958   | 7,190                       | 11,921   | 3,634                       |
|   | Alloy steel (except stainless):  |                               |          |                             |          |                             |
| 331021  | Bars and bar shapes.....   | ..do.....                     | 23,795   | 6,363                       | 22,187   | 6,384                       |
| 331029  | All other alloy steel mill shapes and forms.....   | ..do.....                     | 10,124   | 6,079                       | 4,448    | 2,235                       |
| 331031  | Stainless steel.....   | ..do.....                     | 12,039   | 17,782                      | 11,125   | 13,149                      |
|   | Copper and copper-base alloy:  |                               |          |                             |          |                             |
| 335728  | Bare wire (for electrical conduction).....   | 1,000 lbs.....                | 137      | 105                         | 472      | 297                         |
| 335790  | Insulated wire and cable.....  | 1,000 lbs.<br>copper content. | 196      | 264                         | 732      | 540                         |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                             | 1,000 lbs.....                | 6,142    | 3,223                       | 27,796   | 13,366                      |
| 335123  | Plate, sheet, and strip (including military cups and discs)....  | ..do.....                     | 3,178    | 2,089                       |          |                             |
| 335127  | Pipe and tube.....   | ..do.....                     | 6,011    | 3,547                       |          |                             |
|   | Aluminum and aluminum-base alloy:  |                               |          |                             |          |                             |
| 335202  | Sheet, plate, and foil.....  | ..do.....                     | 5,512    | 3,483                       | 6,719    | 5,583                       |
| 335205  | Extruded shapes, including rod, bar, pipe, tube, etc.....  | ..do.....                     | 6,711    | 5,136                       |          |                             |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod, and bar, powder, welded tubing, etc.)..... | ..do.....                     | 11,942   | 6,008                       |          |                             |
|   | Castings (rough and semifinished): <sup>4</sup>  |                               |          |                             |          |                             |
| 332011  | Iron (gray and malleable).....   | Short tons.....               | 54,955   | 22,099                      | 45,036   | 17,939                      |
| 332300  | Steel.....   | ..do.....                     | 16,340   | 9,568                       | 13,977   | 9,078                       |
| 336100  | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....                | 23,016   | 15,326                      | 22,885   | 12,887                      |
| 336200  | Copper and copper-base alloy.....  | ..do.....                     | 2,760    | 2,389                       | 5,254    | 2,844                       |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                      | .....                         | (X)      | 181,272                     | (X)      | 172,372                     |
| 976000  | Materials, containers, supplies, n.s.k. <sup>2</sup> .....   | .....                         | (X)      | 190,584                     | (X)      | 128,603                     |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>No data are available for the quantities of castings, electric motors and generators, iron and steel forgings, and gasoline engines produced and consumed in finished products in the same plant except for industry 3585 which produced for such consumption 5,477 short tons of iron castings in 1958.

<sup>2</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

<sup>3</sup>Includes extensive duplication because the products of some establishments in the industry are consumed as materials by other establishments in the same industry.

Footnotes continued on next page.



TABLE 7A. **Materials by Kind: 1963 and 1958**—Continued

Footnotes for Table 7A-35G-Continued

<sup>4</sup>In addition the following quantities were produced and consumed into products at the same establishment:

| Code   | Item   | Unit of measure | INDUSTRY |       |       |       |
|--------|--|-----------------|----------|-------|-------|-------|
|        |  |                 | 3586     | 3589  | 3599  |       |
|        |  |                 | 1963     | 1963  | 1963  | 1958  |
|        | Castings (rough and semifinished):   |                 |          |       |       |       |
| 332011 | Iron (gray and malleable).....   | Short tons..    | (NA)     | 1,002 | 7,723 | 7,628 |
| 332300 | Steel.....   | ...do.....      | (NA)     | -     | 931   | (NA)  |
| 336100 | Aluminum and aluminum-base alloy.....                                      | 1,000 lbs...    | (D)      | (D)   | 2,905 | (NA)  |
| 336200 | Copper and copper-base alloy.....  | ...do.....      | (D)      | (D)   | 3,230 | 1,045 |
|        | Electric motors and generators:  |                 |          |       |       |       |
|        | Fractional horsepower electric motors (under 1 hp.):                       |                 |          |       |       |       |
| 362110 | Timing motors, synchronous and subsynchronous.....                         | Number.....     | -        | (D)   | (NA)  | (NA)  |
| 362115 | Other fractional horsepower electric motors (excluding timing motors)..... | ...do.....      | -        | 8,666 | (NA)  | (NA)  |
| 362120 | Integral horsepower motors and generators (1 hp. and over)                 | ...do.....      | -        | (D)   | (NA)  | (NA)  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>5</sup>Data for 1958 does not include materials consumed by establishments primarily producing industrial and commercial vacuum cleaners. Such establishments consumed \$5,506 thousand of materials, parts, containers, and supplies.

TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

|   | Automatic vending machines (SIC 3581) | Commercial laundry equipment (SIC 3582) | Refrigeration machinery (SIC 3585) | Measuring and dispensing pumps (SIC 3586) | Service industry machines, n.e.c. (SIC 3589) | Miscellaneous machinery (SIC 3599) |
|---|---------------------------------------|---|------------------------------------|---|--|------------------------------------|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 1,993                                 | 799                                     | 11,681                             | 847                                       | 1,979  | 22,970                             |
| Total cost of purchased fuels.....do....  | 946                                   | 337                                     | 4,613                              | 341                                       | 845  | 7,935                              |
| Bituminous coal, lignite, and anthracite:   |                                       |   |                                    |   |  |                                    |
| Quantity.....1,000 short tons..   | 21                                    | (S)                                     | 114                                | (S)                                       | 4  | 33                                 |
| Cost.....\$1,000..  | 220                                   | (S)                                     | 857                                | (S)                                       | 40   | 287                                |
| Coke and breeze:  |                                       |   |                                    |   |  |                                    |
| Quantity.....1,000 short tons..   | (S)                                   | -                                       | (S)                                | -   | -  | 6                                  |
| Cost.....\$1,000..  | (S)                                   | -                                       | (S)                                | -   | -  | 146                                |
| Fuel oil (distillate and residual):   |                                       |   |                                    |   |  |                                    |
| Quantity.....1,000 barrels of 42 gallons..  | 24                                    | (S)                                     | 234                                | 46  | 81   | 398                                |
| Cost.....\$1,000..  | 106                                   | (S)                                     | 818                                | 160                                       | 341  | 1,616                              |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |                                       |   |                                    |   |  |                                    |
| Quantity.....million cu.ft..  | 628                                   | (S)                                     | 4,854                              | 235                                       | 459  | 4,602                              |
| Cost.....\$1,000..  | 401                                   | (S)                                     | 2,515                              | 130                                       | 365  | 2,961                              |
| Other fuels.....do....  | (S)                                   | (S)                                     | (S)                                | (S)                                       | 99   | 2,925                              |
| Electric energy:  |                                       |   |                                    |   |  |                                    |
| Purchased:  |                                       |   |                                    |   |  |                                    |
| Quantity.....million kw.-hrs..  | 68                                    | 27                                      | 539                                | 31  | 58   | 826                                |
| Cost.....\$1,000..  | 1,047                                 | 462                                     | 7,068                              | 506                                       | 1,134  | 15,035                             |
| Generated less sold.....million kw.-hrs..   | -                                     | (S)                                     | -                                  | -   | -  | (S)                                |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 42                                    | 25                                      | 340                                | 29  | 42   | 857                                |
| Prime movers, total.....do....  | 2                                     | 5                                       | 36                                 | (Z)                                       | 1  | 43                                 |
| Driving generators.....do....   | -                                     | 3                                       | 5                                  | -   | (Z)  | 13                                 |
| Not driving generators.....do....   | 2                                     | 2                                       | 31                                 | (Z)                                       | 1  | 30                                 |
| Electric motors, total.....do....   | 40                                    | 23                                      | 304                                | 29  | 40   | 816                                |
| Driven by purchased energy.....do....   | 40                                    | 19                                      | 304                                | 29  | 40   | 815                                |
| Driven by energy generated at establishment.....do....  | -                                     | 4                                       | -                                  | -   | -  | 1                                  |
| Aggregate horsepower per 100 production workers.....  | 443                                   | 578                                     | 760                                | 731                                       | 423  | 749                                |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.



**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Appendix A for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3581-                          | AUTOMATIC VENDING MACHINES   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 158                     | 11,672         | 64,791            | 8,442              | 16,790            | 40,427          | 121,365  | 116,908                     | 238,000                      | 3,479                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 128                     | 7,194          | 38,989            | 5,003              | 9,757             | 22,792          | 69,107   | 71,550                      | 139,798                      | 2,474                               |
|                                | 75-89% specialization.....   | 9                       | 1,234          | 5,942             | 880                | 1,702             | 3,524           | 11,051   | 10,190                      | 21,427                       | 208                                 |
| 35811                          | Automatic merchandising machines (primary product class of estab.)   | 79                      | 9,068          | 51,919            | 6,564              | 13,104            | 32,264          | 99,275   | 101,087                     | 200,111                      | 2,484                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 46                      | 4,006          | 23,106            | 2,714              | 5,193             | 12,744          | 43,540   | 51,418                      | 94,078                       | 1,626                               |
|                                | 75-89% specialization.....   | 12                      | 1,584          | 8,262             | 1,205              | 2,458             | 5,592           | 14,595   | 12,591                      | 27,532                       | 210                                 |
| 38512                          | Coin-operated mechanisms and parts for automatic merchandising machines (primary product class of estab.).....                                   | 22                      | 1,863          | 10124             | 1,335              | 2,666             | 6,302           | 16,757   | 11,966                      | 28,655                       | 522                                 |
| 3585-                          | REFRIGERATION MACHINERY  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 698                     | 72,330         | 432,583           | 50,676             | 101,231           | 268,304         | 892,686  | 1,059,887                   | 1,928,001                    | 33,471                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 567                     | 47,223         | 281,183           | 33,790             | 67,656            | 176,841         | 570,350  | 745,187                     | 1,298,796                    | 20,171                              |
|                                | 75-89% specialization.....   | 46                      | 10,653         | 63,043            | 7,385              | 14,786            | 39,301          | 131,519  | 157,305                     | 284,699                      | 6,197                               |
| 35851                          | Heat transfer equipment (primary product class of estab.).....   | 134                     | 38,334         | 241,868           | 26,200             | 52,957            | 145,640         | 542,789  | 608,500                     | 1,129,031                    | 20,629                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 68                      | 7,946          | 49,177            | 5,990              | 12,259            | 30,955          | 104,871  | 143,800                     | 243,613                      | 3,426                               |
|                                | 75-89% specialization.....   | 27                      | 12,351         | 79,924            | 8,270              | 16,683            | 47,706          | 186,088  | 242,016                     | 418,982                      | 7,641                               |
| 35853                          | Commercial refrigeration equipment (primary product class of estab.).....  | 164                     | 13,789         | 79,727            | 9,418              | 18,844            | 47,307          | 126,830  | 149,102                     | 275,225                      | 5,001                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 102                     | 5,308          | 28,808            | 3,998              | 7,837             | 17,887          | 50,315   | 59,918                      | 108,125                      | 2,124                               |
|                                | 75-89% specialization.....   | 30                      | 4,197          | 27,071            | 2,556              | 5,167             | 14,769          | 41,401   | 46,595                      | 89,530                       | 1,028                               |
| 35854                          | Compressors and compressor units, all refrigerants (primary product class of estab.).....  | 14                      | 6,329          | 38,241            | 5,223              | 9,901             | 29,533          | 63,999   | 147,421                     | 210,922                      | 1,840                               |
| 35855                          | Condensing units, all refrigerants (primary product class of estab.)   | 10                      | 323            | 1,743             | 257                | 507               | 1,203           | 3,081  | 5,047                       | 8,228                        | 453                                 |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 6                       | 183            | 1,088             | 153                | 296               | 798             | 1,681  | 2,107                       | 3,840                        | (D)                                 |
| 35857                          | Other refrigeration and air-conditioning equipment, including soda fountain and beer dispensing equipment (primary product class of estab.)..... | 203                     | 9,554          | 51,791            | 6,770              | 13,565            | 31,241          | 108,360  | 106,938                     | 216,508                      | 3,243                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 155                     | 4,619          | 25,860            | 3,050              | 6,069             | 13,861          | 55,466   | 54,639                      | 112,869                      | 1,515                               |
| 3586-                          | MEASURING AND DISPENSING PUMPS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 43                      | 6,768          | 41,732            | 4,499              | 8,913             | 23,155          | 91,713   | 71,213                      | 159,487                      | 2,604                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 31                      | 2,332          | 14,300            | 1,646              | 3,277             | 7,976           | 28,626   | 28,783                      | 56,948                       | 1,277                               |
| 3589-                          | SERVICE INDUSTRY MACHINES, N.E.C.  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 506                     | 15,257         | 96,834            | 9,524              | 19,423            | 51,279          | 192,379  | 185,121                     | 378,300                      | 5,278                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 432                     | 9,508          | 59,719            | 5,943              | 12,250            | 31,172          | 128,522  | 123,778                     | 250,256                      | 3,451                               |
|                                | 75-89% specialization.....   | 15                      | 918            | 5,713             | 605                | 1,233             | 3,059           | 9,063  | 9,189                       | 18,440                       | 159                                 |
| 35891                          | Commercial cooking and food warming equipment (primary product class of estab.).....   | 108                     | 5,675          | 35,424            | 4,011              | 8,072             | 21,835          | 68,426   | 58,335                      | 126,797                      | 1,587                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 81                      | 2,874          | 17,629            | 2,088              | 4,219             | 11,283          | 34,831   | 31,459                      | 65,770                       | 544                                 |
|                                | 75-89% specialization.....   | 7                       | 273            | 1,682             | 199                | 409               | 1,102           | 3,087  | 3,200                       | 6,380                        | 50                                  |

See footnotes at end of table.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3589-                          | SERVICE INDUSTRY MACHINES, N.E.C.--Continued   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
| 35892                          | Service industry machines and parts (primary product class of estab.).....   | 234                     | 7,336          | 47,732            | 4,037              | 8,245             | 21,399          | 100,261  | 101,480                     | 202,851                      | 3,002                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 188                     | 4,473          | 28,782            | 2,545              | 5,294             | 13,559          | 67,218   | 62,865                      | 129,257                      | 1,875                               |
|                                | 75-89% specialization.....   | 17                      | 901            | 6,641             | 442                | 866               | 2,168           | 11,284   | 12,107                      | 23,093                       | 363                                 |
| 35893                          | Commercial and industrial vacuum cleaners, including attachments and parts (primary products class of estab.)..... | 19                      | 637            | 4,072             | 428                | 898               | 1,975           | 6,879  | 8,589                       | 15,398                       | 169                                 |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 8                       | 133            | 862               | 79                 | 158               | 395             | 1,692  | 1,929                       | 3,614                        | 37                                  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.



TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations   | Number of establishments |   |         | Employment in the specified operation |        |   |         |            |
|---|--------------------------|---|---------|---------------------------------------|--------|---|---------|------------|
|   | Total                    | Number of production workers <sup>1</sup> |         |                                       | Total  | Number of production workers <sup>1</sup> |         |            |
|   |                          | 1 to 4                                    | 5 to 19 | 20 or more                            |        | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3581.--AUTOMATIC VENDING MACHINES  |                          |   |         |                                       |        |   |         |            |
| Ferrous foundry.....  | 1                        | -   | -       | 1                                     | (D)    | -   | -       | (D)        |
| Nonferrous die casting.....   | 5                        | 3   | 2       | -                                     | 32     | (D)                                       | (D)     | -          |
| Electroplating and other plating.....   | 7                        | 1   | 4       | 2                                     | 86     | (D)                                       | (D)     | (D)        |
| Heat treating of metals.....  | 5                        | 4   | 1       | -                                     | 20     | (D)                                       | (D)     | -          |
| Automatic screw machine department.....   | 8                        | 4   | 3       | 1                                     | 58     | 8   | (D)     | (D)        |
| Machine shop.....   | 32                       | 15  | 12      | 5                                     | 283    | 40  | 93      | 150        |
| Tool and die shop.....  | 33                       | 17  | 12      | 4                                     | 243    | 36  | 92      | 115        |
| Foundry pattern shop.....   | 5                        | 4   | 1       | -                                     | 13     | (D)                                       | (D)     | -          |
| Plate or structural fabrication.....  | 5                        | 3   | 1       | 1                                     | 73     | (D)                                       | (D)     | (D)        |
| Stamping, blanking and forming of metals.....   | 47                       | 10  | 20      | 17                                    | 1,246  | 19  | 225     | 1,002      |
| Painting, lacquering and enameling on metals.....   | 37                       | 21  | 10      | 6                                     | 319    | 40  | 93      | 186        |
| INDUSTRY 3582.--COMMERCIAL LAUNDRY EQUIPMENT  |                          |   |         |                                       |        |   |         |            |
| Electroplating and other plating.....   | 4                        | 4   | -       | -                                     | 7      | 7   | -       | -          |
| Galvanizing and other hot dip coating.....  | 1                        | 1   | -       | -                                     | (D)    | (D)                                       | -       | -          |
| Heat treating of metals.....  | 4                        | 3   | 1       | -                                     | 11     | (D)                                       | (D)     | -          |
| Automatic screw machine department.....   | 1                        | 1   | -       | -                                     | (D)    | (D)                                       | -       | -          |
| Machine shop.....   | 44                       | 15  | 17      | 12                                    | 1,547  | 33  | 160     | 1,354      |
| Tool and die shop.....  | 16                       | 11  | 5       | -                                     | 68     | 25  | 43      | -          |
| Foundry pattern shop.....   | 1                        | -   | 1       | -                                     | (D)    | -   | (D)     | -          |
| Plate or structural fabrication.....  | 19                       | 8   | 6       | 5                                     | 242    | 23  | 51      | 168        |
| Stamping, blanking and forming of metals.....   | 29                       | 11  | 13      | 5                                     | 319    | 18  | 118     | 183        |
| Painting, lacquering and enameling on metals.....   | 44                       | 35  | 9       | -                                     | 134    | 60  | 74      | -          |
| INDUSTRY 3585.--REFRIGERATION MACHINERY   |                          |   |         |                                       |        |   |         |            |
| Ferrous foundry.....  | 5                        | 3   | -       | 2                                     | (D)    | (D)                                       | -       | (D)        |
| Nonferrous foundry(except die casting).....   | 7                        | 4   | 2       | 1                                     | 57     | 5   | (D)     | (D)        |
| Electroplating and other plating.....   | 13                       | 11  | 2       | -                                     | 35     | (D)                                       | (D)     | -          |
| Galvanizing and other hot dip coating.....  | 7                        | 6   | 1       | -                                     | 18     | (D)                                       | (D)     | -          |
| Heat treating of metals.....  | 13                       | 11  | 2       | -                                     | 30     | (D)                                       | (D)     | -          |
| Automatic screw machine department.....   | 16                       | 11  | 1       | 1                                     | 83     | 19  | (D)     | (D)        |
| Machine shop.....   | 164                      | 73  | 56      | 35                                    | 5,120  | 118                                       | 470     | 4,532      |
| Tool and die shop.....  | 93                       | 57  | 25      | 11                                    | 804    | 102                                       | 239     | 463        |
| Foundry pattern shop.....   | 10                       | 8   | 2       | -                                     | 25     | (D)                                       | (D)     | -          |
| Plate or structural fabrication.....  | 77                       | 34  | 25      | 18                                    | 1,666  | 64  | 221     | 1,381      |
| Stamping, blanking and forming of metals.....   | 220                      | 90  | 59      | 71                                    | 5,046  | 157                                       | 608     | 4,281      |
| Painting, lacquering and enameling on metals.....   | 226                      | 156                                       | 49      | 21                                    | 1,944  | 225                                       | 388     | 1,331      |
| Assembly of product.....  | 281                      | 78  | 86      | 117                                   | 13,959 | 141                                       | 864     | 12,954     |
| Shipping department, including packing and crating...                                       | 258                      | 167                                       | 69      | 22                                    | 1,744  | 266                                       | 633     | 845        |
| INDUSTRY 3586.--MEASURING AND DISPENSING PUMPS  |                          |   |         |                                       |        |   |         |            |
| Galvanizing and other hot dip coating.....  | 2                        | 1   | 1       | -                                     | (D)    | (D)                                       | (D)     | -          |
| Heat treating of metals.....  | 7                        | 5   | 2       | -                                     | 20     | (D)                                       | (D)     | -          |
| Automatic screw machine department.....   | 10                       | 4   | 4       | 2                                     | 174    | 11  | (D)     | (D)        |
| Machine shop.....   | 27                       | 7   | 8       | 12                                    | 955    | 15  | 74      | 866        |
| Tool and die shop.....  | 11                       | -   | 8       | 3                                     | 157    | -   | 71      | 86         |
| Foundry pattern shop.....   | 3                        | 3   | -       | -                                     | 6      | 6   | -       | -          |
| Plate or structural fabrication.....  | 3                        | 1   | 1       | 1                                     | (D)    | (D)                                       | (D)     | (D)        |
| Stamping, blanking and forming of metals.....   | 15                       | 3   | 4       | 8                                     | 366    | 6   | 44      | 316        |
| Painting, lacquering and enameling on metals.....   | 20                       | 9   | 11      | -                                     | 119    | 13  | 106     | -          |
| Assembly of product.....  | 25                       | 7   | 5       | 13                                    | 1,161  | 14  | 52      | 1,095      |
| INDUSTRY 3589.--SERVICE INDUSTRY MACHINES, N.E.C.   |                          |   |         |                                       |        |   |         |            |
| Ferrous foundry.....  | 2                        | -   | 1       | 1                                     | (D)    | -   | (D)     | (D)        |
| Nonferrous foundry (except die casting).....  | 5                        | 5   | -       | -                                     | 7      | 7   | -       | -          |
| Forging-presses, hammers, or upsetters (excluding<br>manufacture of nuts, bolts, etc.)..... | 2                        | 2   | -       | -                                     | (D)    | (D)                                       | -       | -          |
| Electroplating and other plating.....   | 7                        | 6   | 1       | -                                     | 23     | (D)                                       | (D)     | -          |
| Heat treating of metals.....  | 8                        | 7   | 1       | -                                     | 17     | (D)                                       | (D)     | -          |
| Automatic screw machine department.....   | 9                        | 8   | 1       | -                                     | 24     | (D)                                       | (D)     | -          |
| Machine shop.....   | 94                       | 44  | 36      | 14                                    | 919    | 81  | 328     | 510        |
| Tool and die shop.....  | 33                       | 22  | 11      | -                                     | 104    | 36  | 68      | -          |
| Foundry pattern shop.....   | 8                        | 6   | 2       | -                                     | 22     | (D)                                       | (D)     | -          |
| Plate or structural fabrication.....  | 45                       | 19  | 14      | 12                                    | 485    | 37  | 111     | 337        |
| Stamping, blanking and forming of metals.....   | 80                       | 40  | 27      | 13                                    | 831    | 74  | 222     | 535        |
| Painting, lacquering and enameling on metals.....   | 89                       | 81  | 8       | -                                     | 191    | 121                                       | 70      | -          |

See footnotes at end of table.

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963—Continued

| Metalworking operations  | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3599.—MISCELLANEOUS MACHINERY   |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 44                       | 18  | 12      | 14         | 951                                   | 25  | 105     | 821        |
| Nonferrous foundry (except die casting).....   | 41                       | 24  | 10      | 7          | 670                                   | 37  | 104     | 529        |
| Nonferrous die casting.....  | 20                       | 14  | 2       | 4          | 200                                   | (D)                                       | (D)     | 156        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 39                       | 29  | 8       | 2          | 179                                   | 42  | (D)     | (D)        |
| Electroplating and other plating.....  | 76                       | 53  | 18      | 5          | 412                                   | 94  | 148     | 170        |
| Heat treating of metals.....   | 133                      | 110                                       | 19      | 4          | 424                                   | 150                                       | 161     | 113        |
| Automatic screw machines department.....   | 293                      | 212                                       | 72      | 9          | 1,302                                 | 375                                       | 632     | 295        |
| Machine shop.....  | 3,308                    | 969                                       | 1,724   | 615        | 47,775                                | 1,668                                     | 16,651  | 29,456     |
| Tool and die shop.....   | 499                      | 312                                       | 154     | 33         | 3,339                                 | 542                                       | 1,387   | 1,410      |
| Foundry pattern shop.....  | 54                       | 48  | 5       | 1          | 147                                   | 71  | (D)     | (D)        |
| Plate or structural fabrication.....   | 431                      | 264                                       | 145     | 22         | 2,316                                 | 425                                       | 1,213   | 678        |
| Stamping, blanking and forming of metals.....  | 444                      | 328                                       | 99      | 17         | 2,035                                 | 458                                       | 885     | 692        |
| Painting, lacquering and enameling on metals.....  | 299                      | 273                                       | 25      | 1          | 542                                   | 332                                       | (D)     | (D)        |

Note: Very small establishments were not requested to report their metalworking operations and in some instances a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production worker employment on the last line of the table below.

| Item  | Industry |       |       |        |       |        |
|---|----------|-------|-------|--------|-------|--------|
|   | 3581     | 3582  | 3585  | 3586   | 3589  | 3599   |
| Total number of establishments in the industry.....   | 158      | 115   | 698   | 43     | 506   | 12,090 |
| Number of establishments which reported one or more of the specified operations..                             | 61       | 57    | 351   | 32     | 182   | 3,834  |
| Percent of industry production workers in these establishments.....   | 85-90    | 85-90 | 90-95 | 95-100 | 75-80 | 70-75  |
| Number of establishments which reported "none" of the operations apply.....                                   | 10       | 5     | 33    | 1      | 29    | 251    |
| Percent of industry production workers in these establishments.....   | 0-5      | 0-5   | 0-5   | 0-5    | 0-5   | 0-5    |
| Percent of industry production workers in establishments which completed metalworking operations inquiry..... | 85-90    | 85-90 | 90-95 | 95-100 | 80-85 | 70-75  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishment.



## Electrical Machinery

- 36A Electrical transmission, distribution, and industrial apparatus
- 36B Household appliances
- 36C Electric lighting and wiring equipment
- 36D Communication equipment, including radio and TV, and electron components and accessories
- 36E Miscellaneous electrical machinery, equipment and supplies

This major group covers establishments primarily engaged in manufacturing machinery, apparatus and supplies for the generation, storage, transmission, transformation, and utilization of electrical energy.

A number of products which are sometimes considered "as belonging" in electrical equipment are classified in other major groups in the 1957 edition of the Standard Industrial Classification Manual in use for 1963. For example, machinery or equipment powered by built-in or detachable electric motors, such as machine tools and other metalworking equipment, commercial laundry and dry cleaning equipment, industrial vacuum cleaners, and office and store machines are classified in Major Group 35, Machinery, Except Electrical. Establishments primarily engaged in producing glass insulators, glass blanks for bulbs, and porcelain electrical supplies are classified in Major Group 32; those producing electric furnaces and ovens, turbo-generators and gas welding apparatus in Major Group 35; and those making automatic temperature controls in Major Group 38.

Industries included in Major Group 36 are typically defined in terms of products and may include both electrical and electronic equipment. Industry groups 365, 366, and 367 include the bulk of electronic equipment in this major group, i.e., radios, television sets, electron tubes, etc., but they also encompass some communications equipment other than electronic. Both electrical and electronic testing equipment are included in industry 3611, Electric Measuring Instruments. Most of the other industries in

Major Group 36 include products generally defined as electrical rather than electronic. Electronic components are frequently produced and consumed at the same location by establishments classified in this major group. Thus, there are (1) plants, solely engaged in producing electronic components, (2) plants producing electronic components and assembling them into finished products, and (3) plants which assemble components produced elsewhere either in other plants of the same company or by other companies. Other types of components and equipment in Major Group 36 such as motors, generators, and motor-generator sets are not uncommonly produced for incorporation into other products made in the same plant.

Products included in Major Group 36 consist of equipment and apparatus for industrial or commercial use as well as goods for household consumption. For example, group 364 includes such consumer durable goods as electric lamps, lighting fixtures, and wiring devices and supplies, as well as similar products for commercial or industrial use. Group 363 consists of household electric appliances such as ranges, ovens, water heaters, fans and small electric appliances, household refrigerators and freezers, household laundry equipment, sewing machines, and vacuum cleaners.

Data on selected materials consumed (principally the metal items) by each of the 4-digit industries are shown in the respective table 7A's. The number of establishments engaged in some of the more important metalworking operations and the number of employees work-

ing in each operation are shown in table 9 for the 4-digit industries. The materials and metalworking operations shown in tables 7A and 9 do not represent, of course, a complete list or, for many industries in this group, even the most important ones. There are a number of significant activities such as assembly, sub-assembly, welding, etc., which are not covered in all instances. Although the production processes in this area adhere to a general pattern of metalworking and fabricating operations (e.g., machine shop, tool and die room, etc.), there are substantial variations in the numbers and types of processes performed by an individual establishment as well as from industry

to industry. Within many of these industries establishments typically purchase mill shapes and castings and carry out the entire fabricating of the metal until it emerges as a finished product. In other industries, however, such as radio and television receiving sets, establishments may be primarily engaged in assembling component parts products by other companies or other plants of the same company. Also, not all industries consume significant amounts of metals or engage in metalworking operations, e.g., Carbon and Graphite Products (industry 3624), Electric Lamps (industry 364 ), Phonograph Records (industry 3652), and Batteries (industries 369 and 3692).

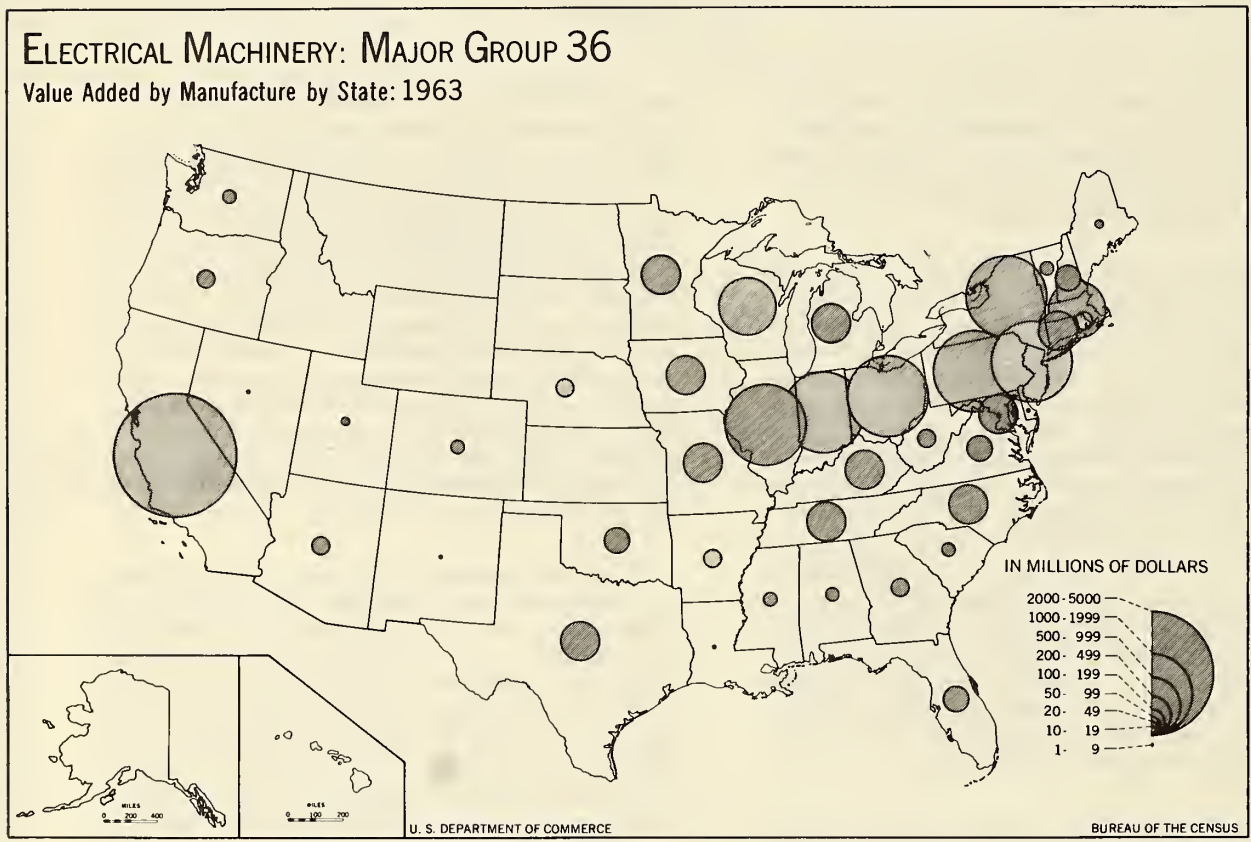




TABLE 1. General Statistics: 1963 and Earlier Years

| Year and item                                   | Establishments |                                    | All employees <sup>1</sup> |                   | Production workers |                   |                 | Value added by manufacture, adjusted <sup>2</sup> | Cost of materials <sup>3</sup> | Value of shipments <sup>3</sup> | Capital expenditures, new <sup>4</sup> |
|---|----------------|------------------------------------|----------------------------|-------------------|--------------------|-------------------|-----------------|---|--------------------------------|---------------------------------|--|
|   | Total (number) | With 20 employees or more (number) | Total (number)             | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |   |                                |                                 |  |
| <b>ALL MANUFACTURING ESTABLISHMENTS, TOTAL:</b> |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 <sup>1</sup> . . . . .                     | 10 365         | 4 996                              | 1 612 178                  | 10 207 142        | 1 049 357          | 2 090 531         | 5 405 786       | 17 010 665  | 12 942 644                     | 29 840 182                      | 701 947                                |
| 1958 <sup>5</sup> . . . . .                     | 8 476          | 3 995                              | 1 218 645                  | 6 323 389         | 810 236            | 1 592 019         | 3 519 743       | 10 471 523  | (NA)                           | 19 289 387                      | 459 729                                |
| 1954 <sup>6</sup> . . . . .                     | (NA)           | (NA)                               | 1 004 532                  | 4 229 300         | 722 443            | 1 422 339         | 2 645 588       | 7 299 607   | (NA)                           | (NA)                            | 340 677                                |
| <b>ADMINISTRATIVE AND AUXILIARY UNITS:</b>      |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 <sup>1</sup> . . . . .                     | 417            | 274                                | 100 359                    | 922 863           | (x)                | (x)               | (x)             | (x)   | (x)                            | (x)                             | (x)                                    |
| 1958 <sup>5</sup> . . . . .                     | 390            | 198                                | 77 838                     | 568 169           | (x)                | (x)               | (x)             | (x)   | (x)                            | (x)                             | (x)                                    |
| 1954 <sup>6</sup> . . . . .                     | (NA)           | (NA)                               | 45 406                     | 278 306           | (x)                | (x)               | (x)             | (x)   | (x)                            | (x)                             | (x)                                    |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 <sup>1</sup> . . . . .                     | 9 948          | 4 722                              | 1 511 819                  | 9 284 279         | 1 049 357          | 2 090 531         | 5 405 786       | 17 010 665  | 12 942 644                     | 29 840 182                      | 701 947                                |
| 1958 <sup>5</sup> . . . . .                     | 8 086          | 3 797                              | 1 140 807                  | 5 755 220         | 817 009            | 1 605 794         | 3 557 614       | 10 624 264  | (NA)                           | 19 547 559                      | 468 049                                |
| 1954 <sup>6</sup> . . . . .                     | 5 758          | 2 837                              | 959 126                    | 3 950 994         | 722 443            | 1 422 339         | 2 645 588       | 7 299 607   | (NA)                           | (NA)                            | 340 677                                |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1962 <sup>7</sup> . . . . .                     | (NA)           | (NA)                               | 1 523 390                  | 9 083 435         | 1 045 954          | 2 120 880         | 5 317 740       | 16 416 428  | 12 674 742                     | 29 133 357                      | 652 741                                |
| 1961 <sup>8</sup> . . . . .                     | (NA)           | (NA)                               | 1 432 111                  | 8 207 422         | 969 785            | 1 950 631         | 4 680 787       | 14 433 000  | 11 564 659                     | 25 918 916                      | 639 090                                |
| 1960 <sup>8</sup> . . . . .                     | (NA)           | (NA)                               | 1 376 584                  | 7 515 435         | 962 004            | 1 931 966         | 4 465 545       | 13 484 239  | (NA)                           | (NA)                            | 636 789                                |
| 1959 <sup>8</sup> . . . . .                     | (NA)           | (NA)                               | 1 274 147                  | 6 751 591         | 926 664            | 1 854 705         | 4 195 929       | 12 825 837  | (NA)                           | (NA)                            | 553 788                                |
| 1957 <sup>8</sup> . . . . .                     | (NA)           | (NA)                               | 1 084 367                  | 5 133 431         | 794 504            | 1 565 205         | 3 292 470       | 9 620 386   | (NA)                           | (NA)                            | 524 090                                |
| 1956 <sup>8</sup> . . . . .                     | (NA)           | (NA)                               | 1 080 346                  | 4 903 040         | 816 796            | 1 617 919         | 3 261 155       | 9 111 975   | (NA)                           | (NA)                            | 475 362                                |
| 1955 <sup>8</sup> . . . . .                     | (NA)           | (NA)                               | 1 000 960                  | 4 313 717         | 758 694            | 1 521 004         | 2 895 957       | 8 002 066   | (NA)                           | (NA)                            | 334 597                                |
| 1953 <sup>9</sup> . . . . .                     | (NA)           | (NA)                               | 1 095 852                  | 4 424 751         | 851 443            | 1 702 904         | 3 077 463       | 7 876 186   | (NA)                           | (NA)                            | 406 425                                |
| 1952 <sup>9</sup> . . . . .                     | (NA)           | (NA)                               | 957 251                    | 3 750 218         | 740 504            | 1 521 034         | 2 629 427       | 6 873 204   | (NA)                           | (NA)                            | (NA)                                   |
| 1951 <sup>9</sup> . . . . .                     | 4 294          | (NA)                               | 876 851                    | 3 193 256         | 692 059            | 1 396 428         | 2 277 716       | 5 753 226   | (NA)                           | (NA)                            | 296 252                                |
| 1950 <sup>9</sup> . . . . .                     | 3 873          | (NA)                               | 765 613                    | 2 532 870         | 609 819            | 1 221 179         | 1 799 660       | 4 815 364   | (NA)                           | (NA)                            | 195 458                                |
| 1949 <sup>9</sup> . . . . .                     | (NA)           | (NA)                               | 663 147                    | 2 144 778         | 506 129            | 1 025 573         | 1 459 988       | 3 901 654   | (NA)                           | (NA)                            | 187 284                                |
| 1947 <sup>9</sup> . . . . .                     | 3 970          | (NA)                               | 796 357                    | 2 258 657         | 634 661            | 1 277 994         | 1 636 714       | 3 860 235   | (NA)                           | (NA)                            | 224 606                                |
| 1946 <sup>9</sup> . . . . .                     | 1 979          | (NA)                               | (NA)                       | (NA)              | 247 930            | (NA)              | 323 388         | 941 469   | (NA)                           | (NA)                            | (NA)                                   |
| 1937 <sup>10</sup> . . . . .                    | 1 597          | (NA)                               | 374 290                    | 559 482           | 306 003            | (NA)              | 407 961         | 1 102 133   | (NA)                           | (NA)                            | (NA)                                   |
| 1935 . . . . .                                  | 1 589          | (NA)                               | 275 343                    | 347 533           | 224 437            | (NA)              | 240 952         | 685 716   | (NA)                           | (NA)                            | (NA)                                   |
| 1933 <sup>11</sup> . . . . .                    | 1 365          | (NA)                               | 202 129                    | 211 777           | 163 736            | (NA)              | 145 404         | 404 199   | (NA)                           | (NA)                            | (NA)                                   |
| 1931 . . . . .                                  | 1 596          | (NA)                               | (NA)                       | (NA)              | 216 596            | (NA)              | 239 634         | 762 626   | (NA)                           | (NA)                            | (NA)                                   |
| 1929 . . . . .                                  | 1 861          | (NA)                               | 421 283                    | 649 498           | 343 138            | (NA)              | 474 203         | 1 389 424   | (NA)                           | (NA)                            | (NA)                                   |
| 1927 . . . . .                                  | 1 837          | (NA)                               | 322 397                    | 509 350           | 255 782            | (NA)              | 356 415         | 1 049 374   | (NA)                           | (NA)                            | (NA)                                   |
| 1925 <sup>12</sup> . . . . .                    | 1 807          | (NA)                               | 308 592                    | 462 975           | 251 188            | (NA)              | 337 979         | 939 520   | (NA)                           | (NA)                            | (NA)                                   |
| 1923 . . . . .                                  | 1 782          | (NA)                               | 331 505                    | 473 751           | 255 383            | (NA)              | 330 425         | 806 436   | (NA)                           | (NA)                            | (NA)                                   |
| 1921 . . . . .                                  | 1 487          | (NA)                               | 239 944                    | 338 863           | 179 142            | (NA)              | 216 016         | 547 071   | (NA)                           | (NA)                            | (NA)                                   |
| 1919 . . . . .                                  | 1 570          | (NA)                               | 305 222                    | 379 020           | 241 095            | (NA)              | 272 152         | 671 678   | (NA)                           | (NA)                            | (NA)                                   |
| 1914 . . . . .                                  | 1 048          | (NA)                               | 155 699                    | 117 868           | 127 459            | (NA)              | 80 148          | 200 510   | (NA)                           | (NA)                            | (NA)                                   |
| 1909 . . . . .                                  | 1 027          | (NA)                               | 111 087                    | 73 360            | 92 455             | (NA)              | 52 222          | 121 369   | (NA)                           | (NA)                            | (NA)                                   |
| 1904 <sup>13</sup> . . . . .                    | 798            | (NA)                               | 75 019                     | 45 283            | 63 863             | (NA)              | 33 525          | 80 048  | (NA)                           | (NA)                            | (NA)                                   |
| 1899 <sup>13</sup> . . . . .                    | 592            | (NA)                               | 48 491                     | 25 999            | 43 280             | (NA)              | 21 188          | 44 395  | (NA)                           | (NA)                            | (NA)                                   |

Standard Notes: - Represents Zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The figures for 1939 through 1963 include data for employees of manufacturing establishments who are engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>2</sup>For the period 1954 to 1963, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture."

<sup>3</sup>The total value of shipments and cost of materials for industry groups (2- and 3-digit) includes extensive duplication arising from shipments between establishments in the same industry classification. For a more complete explanation, see Introduction.

<sup>4</sup>The figures for 1958 to 1963 include expenditures for plants under construction and not yet in operation.

<sup>5</sup>Data for 1947, 1954, and later years, exclude establishments primarily engaged in the manufacture of automatic temperature controls, whereas data for 1949 to 1953 include these establishments.

<sup>6</sup>In addition to data for operating establishments, figures for employment and payroll for manufacturing central administrative offices and auxiliary units are shown for the years 1949 to 1953 in the annual survey of manufactures volumes. Data for these units are not available for the years 1955 to 1957, 1959 to 1962, and prior to 1949.

<sup>7</sup>Figures for 1958 to 1963, for operating manufacturing establishments are not strictly comparable with prior years due to revisions of the Standard Industrial Classification

System. Prior to 1958, data excludes establishments primarily engaged in the manufacture of household ranges and ovens; household refrigerators and home and farm freezers; household laundry equipment; household vacuum cleaners; sewing machines; water heaters, except electric; and other household appliances. Establishments primarily engaged in the manufacture of hearing aids; high frequency, induction, and dielectric heating apparatus; commercial food warming equipment; industrial electric heating units and devices; and insulated wire and cable made from purchased wire, are included in data prior to 1958.

<sup>8</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>9</sup>Data for 1939 and earlier years exclude establishments primarily engaged in the manufacture of electric (dry) shavers.

<sup>10</sup>Figures for 1937 and earlier years include data for establishments primarily engaged in the manufacture of vacuum cleaners, turbo-generators and water-wheel generator sets, dictating machines and electric industrial furnaces and ovens. Value added for 1939 and basis comparable with earlier years was \$1,000 million.

<sup>11</sup>The figures for 1933 and earlier years include data for establishments primarily engaged in the manufacture of certain types of beauty and barber-shop equipment classified for later years in the "Miscellaneous manufactures" industries.

<sup>12</sup>The figures for 1925 and earlier years include data for establishments primarily engaged in the manufacture of certain types of mechanical refrigerators, classified for later years in the machinery (except electrical) industries.

<sup>13</sup>The figures for 1899 and 1904 include data for establishments primarily engaged in the manufacture of signs and advertising novelties, classified for later years in the "Miscellaneous manufactures" industries.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Code | Industry group and geographic area    | 1963           |                                    |                |                   |                    |                   |                 |  | 1958                                |                        |  |
|------|---------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |                                       | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |                                       | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 36   | ELECTRICAL MACHINERY, TOTAL . . . . . | 9 948          | 4 722                              | 1 511 819      | 9 284 279         | 1 049 357          | 2 090 531         | 5 405 786       | 17 010 665                                     | 701 947                             | 1 140 807              | 10 624 264                                     |
|      | NORTHEAST . . . . .                   | 4 058          | 1 964                              | 582 032        | 3 646 251         | 393 518            | 779 159           | 2 057 730       | 6 131 016                                      | 240 317                             | 467 130                | 4 167 435                                      |
|      | NEW ENGLAND . . . . .                 | 977            | 518                                | 161 306        | 927 672           | 110 258            | 218 651           | 528 529         | 1 654 469                                      | 60 781                              | 121 514                | 1 044 858                                      |
|      | MAINE . . . . .                       | 13             | 8                                  | 2 036          | 8 028             | 1 655              | 3 395             | 5 617           | 10 724   | 508                                 | 862                    | 5 528  |
|      | NEW HAMPSHIRE . . . . .               | 61             | 35                                 | 11 508         | 58 862            | 8 840              | 17 441            | 38 735          | 100 912  | 4 020                               | 7 726                  | 55 546   |
|      | VERMONT . . . . .                     | 8              | 6                                  | 1 871          | 10 174            | 1 451              | 2 888             | 6 678           | 19 939   | 928                                 | 1 397                  | 9 015  |
|      | MASSACHUSETTS . . . . .               | 529            | 275                                | 96 183         | 572 522           | 63 235             | 125 907           | 316 566         | 985 805  | 36 684                              | 76 377                 | 646 849  |
|      | RHODE ISLAND . . . . .                | 45             | 29                                 | 6 777          | 30 350            | 5 152              | 9 828             | 17 669          | 61 622   | 1 207                               | 3 465                  | 25 063   |
|      | CONNECTICUT . . . . .                 | 321            | 165                                | 42 931         | 247 736           | 29 925             | 59 192            | 143 264         | 475 467  | 17 434                              | 31 687                 | 302 857  |
|      | MIDDLE ATLANTIC . . . . .             | 3 081          | 1 446                              | 420 726        | 2 718 579         | 283 400            | 560 508           | 1 529 201       | 4 476 547                                      | 179 536                             | 345 616                | 3 122 577                                      |
|      | NEW YORK . . . . .                    | 1 611          | 716                                | 185 978        | 1 225 235         | 117 660            | 232 683           | 628 932         | 1 959 554                                      | 75 774                              | 144 442                | 1 336 714                                      |
|      | NEW JERSEY . . . . .                  | 861            | 394                                | 127 738        | 848 065           | 89 200             | 176 612           | 504 571         | 1 314 683                                      | 45 315                              | 104 934                | 858 342  |
|      | PENNSYLVANIA . . . . .                | 609            | 336                                | 107 010        | 645 279           | 76 540             | 151 213           | 395 698         | 1 190 613                                      | 58 447                              | 96 240                 | 927 521  |
|      | NORTH CENTRAL . . . . .               | 2 651          | 1 454                              | 529 593        | 3 126 914         | 393 840            | 782 618           | 2 038 256       | 6 238 207                                      | 236 563                             | 467 084                | 4 389 240                                      |
|      | EAST NORTH CENTRAL . . . . .          | 2 222          | 1 226                              | 458 480        | 2 725 402         | 343 806            | 681 809           | 1 797 056       | 5 443 666                                      | 207 930                             | 415 193                | 3 928 951                                      |
|      | OHIO . . . . .                        | 495            | 281                                | 117 182        | 734 707           | 86 128             | 173 039           | 485 812         | 1 547 622                                      | 51 757                              | 107 818                | 1 140 800                                      |
|      | INDIANA . . . . .                     | 231            | 133                                | 91 105         | 550 254           | 73 382             | 146 942           | 402 451         | 1 125 703                                      | 43 501                              | 74 953                 | 673 927  |
|      | ILLINOIS . . . . .                    | 929            | 530                                | 168 200        | 932 048           | 125 346            | 244 306           | 593 376         | 1 797 715                                      | 74 171                              | 159 623                | 1 448 521                                      |
|      | MICHIGAN . . . . .                    | 355            | 158                                | 32 231         | 193 759           | 25 267             | 51 624            | 135 396         | 376 278  | 13 418                              | 27 016                 | 252 227  |
|      | WISCONSIN . . . . .                   | 212            | 124                                | 49 762         | 314 634           | 33 683             | 65 898            | 180 021         | 596 348  | 25 083                              | 45 721                 | 413 476  |
|      | WEST NORTH CENTRAL . . . . .          | 429            | 228                                | 71 113         | 401 512           | 50 034             | 100 809           | 241 200         | 794 541  | 28 633                              | 51 891                 | 460 289  |
|      | MINNESOTA . . . . .                   | 152            | 79                                 | 18 953         | 121 748           | 12 201             | 24 473            | 63 055          | 225 256  | 7 632                               | 10 787                 | 92 108   |
|      | IOWA . . . . .                        | 56             | 35                                 | 19 635         | 107 380           | 12 896             | 25 918            | 61 772          | 252 644  | 6 320                               | 14 765                 | 163 748  |
|      | MISSOURI . . . . .                    | 148            | 86                                 | 24 801         | 128 983           | 18 610             | 37 657            | 87 929          | 227 391  | 10 809                              | 21 492                 | 169 586  |
|      | SOUTH DAKOTA . . . . .                | 4              | (D)                                | (0)            | (D)               | (D)                | (0)               | (0)             | (D)  | (D)                                 | (D)                    | (D)  |
|      | NEBRASKA . . . . .                    | 28             | 11                                 | 5 348          | 28 983            | 3 891              | 7 756             | 18 653          | 64 379   | 2 635                               | 3 349                  | 22 796   |
|      | KANSAS . . . . .                      | 41             | (0)                                | (0)            | (0)               | (0)                | (D)               | (0)             | (D)  | (0)                                 | 1 457                  | 11 291   |
|      | SOUTH . . . . .                       | 1 159          | 524                                | 189 588        | 1 064 650         | 134 105            | 269 900           | 608 289         | 2 250 503                                      | 96 461                              | 104 166                | 1 115 504                                      |
|      | SOUTH ATLANTIC . . . . .              | 561            | 264                                | 98 233         | 585 691           | 63 904             | 128 890           | 303 291         | 1 104 020                                      | 48 636                              | 54 304                 | 548 049  |
|      | DELAWARE . . . . .                    | 11             | 6                                  | 2 539          | 2 717             | 439                | 834               | 1 811           | 8 399  | 1 068                               | (D)                    | (0)  |
|      | MARYLAND . . . . .                    | 108            | 49                                 | 26 871         | 187 297           | 14 960             | 30 162            | 84 714          | 312 625  | 8 317                               | 20 140                 | 187 494  |
|      | DISTRICT OF COLUMBIA . . . . .        | 14             | 4                                  | 1 553          | 738               | 103                | 213               | 430             | 1 064  | 73                                  | (D)                    | (0)  |
|      | VIRGINIA . . . . .                    | 55             | 32                                 | 16 909         | 97 299            | 11 143             | 21 953            | 50 777          | 180 664  | 5 953                               | 5 960                  | 69 819   |
|      | WEST VIRGINIA . . . . .               | 20             | 13                                 | 4 470          | 25 138            | 3 770              | 7 806             | 19 382          | 62 427   | 4 698                               | 3 516                  | 53 224   |
|      | NORTH CAROLINA . . . . .              | 83             | 48                                 | 23 195         | 117 975           | 16 464             | 33 418            | 70 301          | 279 179  | 13 109                              | 13 846                 | 143 130  |
|      | SOUTH CAROLINA . . . . .              | 19             | 13                                 | 5 612          | 20 742            | 4 447              | 8 497             | 13 573          | 33 007   | 3 087                               | 1 715                  | 12 337   |
|      | GEORGIA . . . . .                     | 55             | 26                                 | 5 359          | 29 404            | 3 852              | 7 926             | 18 196          | 73 308   | 1 896                               | 3 808                  | 41 313   |
|      | FLORIDA . . . . .                     | 196            | 73                                 | 15 125         | 104 381           | 8 726              | 18 081            | 44 107          | 153 347  | 10 435                              | 5 046                  | 37 536   |
|      | EAST SOUTH CENTRAL . . . . .          | 220            | 134                                | 48 201         | 238 915           | 39 507             | 78 069            | 172 060         | 667 574  | 24 758                              | 34 606                 | 423 934  |
|      | KENTUCKY . . . . .                    | 61             | 39                                 | 21 319         | 120 282           | 17 889             | 35 257            | 89 072          | 350 172  | 10 083                              | 17 132                 | 238 268  |
|      | TENNESSEE . . . . .                   | 92             | 56                                 | 17 530         | 79 550            | 13 939             | 27 798            | 54 979          | 230 442  | 8 692                               | 10 708                 | 123 949  |
|      | ALABAMA . . . . .                     | 34             | 15                                 | 3 793          | 19 515            | 2 961              | 6 206             | 13 299          | 37 527   | 1 813                               | 3 766                  | 33 797   |
|      | MISSISSIPPI . . . . .                 | 33             | 24                                 | 5 559          | 19 568            | 4 718              | 8 808             | 14 710          | 49 433   | 4 170                               | 3 000                  | 27 920   |
|      | WEST SOUTH CENTRAL . . . . .          | 378            | 126                                | 43 154         | 240 044           | 30 694             | 62 941            | 132 938         | 478 909  | 23 067                              | 15 257                 | 143 521  |
|      | ARKANSAS . . . . .                    | 35             | 21                                 | 7 599          | 29 216            | 6 596              | 12 948            | 22 636          | 79 169   | 3 206                               | 2 914                  | 29 214   |
|      | LOUISIANA . . . . .                   | 30             | 4                                  | 262            | 1 190             | 202                | 408               | 783             | 2 391  | 108                                 | 158                    | 1 199  |
|      | OKLAHOMA . . . . .                    | 52             | 18                                 | 9 489          | 57 626            | 6 293              | 12 458            | 23 884          | 105 802  | 3 506                               | 2 161                  | 19 088   |
|      | TEXAS . . . . .                       | 261            | 83                                 | 25 804         | 152 012           | 17 603             | 37 127            | 85 635          | 291 547  | 16 247                              | 10 024                 | 94 020   |
|      | WEST . . . . .                        | 2 086          | 786                                | 211 472        | 1 450 680         | 126 850            | 257 192           | 710 400         | 2 424 392                                      | 128 466                             | 102 859                | 959 701  |
|      | MOUNTAIN . . . . .                    | 164            | 56                                 | 15 021         | 86 193            | 10 094             | 20 660            | 48 070          | 147 024  | 20 831                              | 5 339                  | 44 539   |
|      | IDAHO . . . . .                       | 2              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | WYOMING . . . . .                     | 2              | (D)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (D)                                 | (0)                    | (0)  |
|      | COLORADO . . . . .                    | 67             | 25                                 | 3 486          | 18 768            | 2 429              | 4 820             | 10 580          | 43 322   | (0)                                 | 1 907                  | 16 137   |
|      | NEW MEXICO . . . . .                  | 14             | 5                                  | 378            | 1 938             | 292                | 528               | 1 242           | 3 117  | 297                                 | (D)                    | (0)  |
|      | ARIZONA . . . . .                     | 51             | 14                                 | 9 131          | 55 876            | 5 742              | 11 767            | 28 731          | 86 431   | (0)                                 | 2 362                  | 19 907   |
|      | UTAH . . . . .                        | 17             | 8                                  | 1 672          | 8 154             | 1 349              | 3 027             | 6 490           | 12 161   | 329                                 | 593                    | 5 300  |
|      | NEVADA . . . . .                      | 11             | 2                                  | 267            | 1 225             | 222                | 417               | 844             | 1 636  | 124                                 | (D)                    | (0)  |
|      | PACIFIC . . . . .                     | 1 922          | 730                                | 196 451        | 1 364 487         | 116 756            | 236 532           | 662 330         | 2 277 368                                      | 107 635                             | 97 520                 | 915 162  |
|      | WASHINGTON . . . . .                  | 69             | 22                                 | 2 693          | 17 036            | 1 718              | 3 236             | 8 279           | 29 673   | 1 187                               | 1 242                  | 12 240   |
|      | OREGON . . . . .                      | 64             | 20                                 | 5 759          | 33 295            | 3 682              | 6 546             | 17 815          | 55 381   | 3 163                               | 2 467                  | 28 960   |
|      | CALIFORNIA . . . . .                  | 1 781          | 688                                | 187 965        | 1 313 998         | 111 328            | 226 697           | 636 113         | 2 192 114                                      | 103 263                             | 93 811                 | 873 912  |
|      | ALASKA . . . . .                      | 2              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | HAWAII . . . . .                      | 6              | (0)                                | (D)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
| 361  | ELECTRIC DISTRIBUTION PRODUCTS, TOTAL | 1 137          | 522                                | 132 125        | 822 019           | 91 840             | 183 688           | 484 186         | 1 534 661                                      | 50 548                              | 134 395                | 1 338 652                                      |
|      | NORTHEAST . . . . .                   | 426            | 190                                | 58 246         | 382 899           | 39 315             | 78 396            | 222 361         | 664 841  | 21 284                              | 66 048                 | 666 671  |
|      | NEW ENGLAND . . . . .                 | 108            | 50                                 | 16 299         | 103 225           | 10 590             | 21 447            | 55 375          | 200 321  | 7 089                               | 19 917                 | 192 286  |
|      | NEW HAMPSHIRE . . . . .               | 15             | 9                                  | 2 827          | 15 099            | 2 091              | 4 177             | 9 365           | 39 044   | 1 247                               | (D)                    | (0)  |
|      | MASSACHUSETTS . . . . .               | 54             | 23                                 | 9 840          | 68 000            | 5 953              | 12 211            | 34 281          | 124 257  | 4 678                               | 13 541                 | 131 391  |
|      | MIDDLE ATLANTIC . . . . .             | 318            | 140                                | 41 947         | 279 674           | 28 725             | 56 949            | 166 986         | 464 520  | 14 195                              | 46 131                 | 474 403  |
|      | NEW YORK . . . . .                    | 134            | 62                                 | 7 323          | 42 084            | 5 181              | 9 961             | 24 705          | 71 019   | 2 306                               | 7 612                  | 62 790   |
|      | NEW JERSEY . . . . .                  | 116            | 46                                 | 10 264         | 62 011            | 7 512              | 14 742            | 38 934          | 112 439  | 3 690                               | 12 568                 | 101 568  |
|      | PENNSYLVANIA . . . . .                | 68             | 32                                 | 24 360         | 175 579           | 16 032             | 32 246            | 103 347         | 281 062  | 8 199                               | 25 951                 | 310 045  |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area   | 1963           |                                    |                |                   |                    |                   |                 | 1958   |                                     |                        |  |
|------|--------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |                                      | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |                                      | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 361  | ELECTRIC DISTRIBUTION PRODUCTS—CONT. | 305            | 161                                | 38 826         | 225 247           | 28 479             | 56 766            | 140 242         | 422 116  | 15 384                              | 40 035                 | 364 894  |
|      | NORTH CENTRAL . . . . .              | 261            | 137                                | 32 348         | 192 152           | 23 469             | 46 430            | 117 630         | 367 349  | 13 897                              | (0)                    | (0)  |
|      | OHIO . . . . .                       | 61             | 35                                 | 6 060          | 35 191            | 4 408              | 8 881             | 21 596          | 78 769   | 1 925                               | 5 774                  | 53 666   |
|      | INDIANA . . . . .                    | 24             | 12                                 | 4 234          | 25 464            | 3 043              | 5 821             | 15 470          | 50 134   | 2 845                               | 6 191                  | 47 904   |
|      | ILLINOIS . . . . .                   | 103            | 53                                 | 15 153         | 86 011            | 11 342             | 22 568            | 55 196          | 161 674  | 6 122                               | (0)                    | (0)  |
|      | MICHIGAN . . . . .                   | 45             | 20                                 | 2 564          | 16 737            | 1 855              | 3 698             | 10 134          | 29 961   | 937                                 | 3 581                  | 32 977   |
|      | WISCONSIN . . . . .                  | 28             | 17                                 | 4 337          | 28 749            | 2 821              | 5 462             | 15 234          | 46 811   | 2 068                               | 3 353                  | 36 703   |
|      | WEST NORTH CENTRAL . . . . .         | 44             | 24                                 | 6 478          | 33 095            | 5 010              | 10 336            | 22 612          | 54 767   | 1 487                               | (0)                    | (0)  |
|      | MISSOURI . . . . .                   | 15             | 11                                 | 4 476          | 23 662            | 3 452              | 7 266             | 16 268          | 26 377   | 1 095                               | 5 004                  | 47 572   |
|      | SOUTH . . . . .                      | 143            | 64                                 | 13 467         | 71 553            | 9 813              | 19 951            | 43 179          | 176 497  | 3 783                               | 9 121                  | 101 207  |
|      | SOUTH ATLANTIC . . . . .             | 58             | 29                                 | 7 601          | 40 046            | 5 475              | 11 318            | 23 448          | 103 883  | 2 123                               | 6 127                  | 65 923   |
|      | MARYLAND . . . . .                   | 17             | 7                                  | 499            | 2 565             | 368                | 723               | 1 114           | 3 985  | 251                                 | 906                    | 4 925  |
|      | NORTH CAROLINA . . . . .             | 8              | 4                                  | 2 147          | 10 902            | 1 571              | 3 286             | 6 377           | 41 021   | 416                                 | 1 696                  | 24 600   |
|      | FLORIDA . . . . .                    | 11             | 10                                 | 3 490          | 20 308            | 2 366              | 4 941             | 11 696          | 46 854   | 1 063                               | 2 701                  | 30 068   |
|      | FLORIDA . . . . .                    | 9              | 4                                  | 309            | 1 434             | 240                | 489               | 880             | 2 638  | (0)                                 | 749                    | 5 724  |
|      | EAST SOUTH CENTRAL . . . . .         | 26             | 13                                 | 3 252          | 16 116            | 2 578              | 4 952             | 10 864          | 42 962   | 414                                 | 1 608                  | 20 200   |
|      | KENTUCKY . . . . .                   | 7              | 6                                  | 2 292          | 11 474            | 1 857              | 3 502             | 7 802           | 31 297   | 176                                 | 951                    | 13 846   |
|      | ALABAMA . . . . .                    | 8              | 3                                  | 404            | 2 557             | 259                | 507               | 1 503           | 7 235  | 75                                  | (0)                    | (0)  |
|      | MISSISSIPPI . . . . .                | 5              | 3                                  | 466            | 1 759             | 397                | 828               | 1 321           | 3 957  | 140                                 | (0)                    | (0)  |
|      | WEST SOUTH CENTRAL . . . . .         | 59             | 22                                 | 2 614          | 15 391            | 1 760              | 3 681             | 8 867           | 29 652   | 1 246                               | 1 386                  | 15 084   |
|      | TEXAS . . . . .                      | 48             | 18                                 | 1 606          | 10 054            | 1 142              | 2 382             | 6 184           | 20 297   | 1 063                               | (0)                    | (0)  |
|      | WEST . . . . .                       | 263            | 107                                | 21 512         | 142 258           | 14 117             | 28 356            | 77 914          | 267 632  | 10 092                              | 19 191                 | 205 862  |
|      | MOUNTAIN . . . . .                   | 26             | 11                                 | 1 986          | 11 796            | 1 238              | 2 513             | 5 802           | 29 908   | 2 103                               | 852                    | 9 417  |
|      | PACIFIC . . . . .                    | 237            | 96                                 | 19 526         | 130 462           | 12 879             | 25 843            | 72 112          | 237 724  | 7 989                               | 18 339                 | 196 445  |
|      | WASHINGTON . . . . .                 | 8              | 3                                  | 511            | 3 207             | 258                | 540               | 1 488           | 7 395  | (0)                                 | (0)                    | (0)  |
|      | CALIFORNIA . . . . .                 | 215            | 86                                 | 14 026         | 98 192            | 9 488              | 19 777            | 55 374          | 184 514  | 4 705                               | 16 235                 | 167 669  |
| 362  | ELECTRIC INDUSTRIAL APPARATUS, TOTAL | 1 244          | 586                                | 160 953        | 1 004 907         | 116 890            | 236 294           | 640 570         | 1 889 181                                      | 72 031                              | 156 332                | 1 447 753                                      |
|      | NORTHEAST . . . . .                  | 401            | 181                                | 46 490         | 308 049           | 32 751             | 67 334            | 187 622         | 558 034  | 19 880                              | 49 207                 | 454 195  |
|      | NEW ENGLAND . . . . .                | 96             | 40                                 | 6 025          | 32 982            | 4 131              | 8 281             | 19 463          | 61 025   | 1 496                               | 6 374                  | 49 173   |
|      | MASSACHUSETTS . . . . .              | 42             | 20                                 | 2 034          | 10 574            | 1 437              | 2 797             | 6 137           | 17 770   | 491                                 | 2 184                  | 15 639   |
|      | CONNECTICUT . . . . .                | 43             | 15                                 | 3 402          | 20 041            | 2 264              | 4 632             | 11 867          | 39 346   | 704                                 | 3 788                  | 31 139   |
|      | MIDDLE ATLANTIC . . . . .            | 305            | 141                                | 40 465         | 275 067           | 28 620             | 59 053            | 168 159         | 497 009  | 18 384                              | 42 833                 | 405 022  |
|      | NEW YORK . . . . .                   | 145            | 58                                 | 22 278         | 164 072           | 16 479             | 34 077            | 103 994         | 277 161  | 9 554                               | 24 685                 | 242 741  |
|      | NEW JERSEY . . . . .                 | 77             | 36                                 | 5 750          | 33 745            | 3 509              | 7 170             | 17 646          | 50 065   | 1 776                               | 7 000                  | 51 977   |
|      | PENNSYLVANIA . . . . .               | 83             | 47                                 | 12 437         | 77 250            | 8 632              | 17 806            | 46 519          | 169 783  | 7 054                               | 11 148                 | 110 304  |
|      | NORTH CENTRAL . . . . .              | 499            | 278                                | 89 469         | 563 013           | 65 970             | 132 584           | 370 525         | 1 037 005                                      | 40 824                              | 89 386                 | 808 523  |
|      | EAST NORTH CENTRAL . . . . .         | 430            | 246                                | 80 395         | 508 478           | 59 215             | 118 983           | 333 373         | 954 469  | 36 622                              | 78 687                 | 722 724  |
|      | OHIO . . . . .                       | 114            | 68                                 | 30 596         | 207 890           | 21 960             | 45 515            | 137 195         | 374 202  | 15 530                              | 32 661                 | 310 082  |
|      | INDIANA . . . . .                    | 40             | 24                                 | 11 590         | 65 945            | 8 945              | 17 148            | 44 592          | 124 376  | 2 564                               | 10 028                 | 91 377   |
|      | ILLINOIS . . . . .                   | 123            | 65                                 | 10 028         | 53 584            | 7 505              | 15 115            | 34 301          | 110 421  | 4 252                               | 10 343                 | 92 844   |
|      | MICHIGAN . . . . .                   | 97             | 54                                 | 7 533          | 47 056            | 5 689              | 11 802            | 29 798          | 73 160   | 1 972                               | 5 001                  | 41 113   |
|      | WISCONSIN . . . . .                  | 56             | 35                                 | 20 648         | 134 003           | 15 116             | 29 403            | 87 487          | 272 310  | 12 304                              | 20 654                 | 187 308  |
|      | WEST NORTH CENTRAL . . . . .         | 69             | 32                                 | 9 074          | 54 535            | 6 755              | 13 601            | 37 152          | 82 536   | 4 202                               | 10 699                 | 85 799   |
|      | MINNESOTA . . . . .                  | 33             | 16                                 | 3 360          | 21 635            | 2 341              | 4 778             | 13 255          | 39 113   | 1 310                               | 2 979                  | 29 496   |
|      | MISSOURI . . . . .                   | 26             | 14                                 | 5 403          | 31 269            | 4 185              | 8 422             | 22 954          | 40 693   | 2 845                               | 7 263                  | 52 812   |
|      | SOUTH . . . . .                      | 126            | 60                                 | 16 653         | 83 878            | 12 420             | 24 939            | 52 567          | 207 383  | 7 826                               | 10 165                 | 119 585  |
|      | SOUTH ATLANTIC . . . . .             | 55             | 25                                 | 9 434          | 52 383            | 6 176              | 12 464            | 28 759          | 120 676  | 3 841                               | 6 953                  | 82 654   |
|      | MARYLAND . . . . .                   | 11             | 6                                  | 1 086          | 5 436             | 816                | 1 599             | 3 459           | 10 938   | 189                                 | 778                    | 5 842  |
|      | NORTH CAROLINA . . . . .             | 7              | 4                                  | 2 073          | 9 848             | 1 373              | 3 015             | 6 668           | 27 267   | 822                                 | (0)                    | (0)  |
|      | EAST SOUTH CENTRAL . . . . .         | 22             | 15                                 | 3 331          | 14 340            | 2 963              | 5 878             | 11 477          | 48 596   | 2 430                               | 1 690                  | 22 334   |
|      | TENNESSEE . . . . .                  | 10             | 7                                  | 2 319          | 10 289            | 2 064              | 4 109             | 8 342           | 39 003   | 982                                 | (0)                    | (0)  |
|      | WEST SOUTH CENTRAL . . . . .         | 49             | 20                                 | 3 888          | 17 155            | 3 281              | 6 597             | 12 331          | 38 111   | 1 555                               | 1 522                  | 14 597   |
|      | OKLAHOMA . . . . .                   | 8              | 4                                  | 500            | 2 687             | 346                | 706               | 1 440           | 3 458  | 136                                 | (0)                    | (0)  |
|      | TEXAS . . . . .                      | 28             | 7                                  | 692            | 4 091             | 485                | 983               | 2 223           | 6 385  | 313                                 | (0)                    | (0)  |
|      | WEST . . . . .                       | 219            | 68                                 | 8 530          | 51 641            | 5 836              | 11 837            | 31 204          | 87 606   | 3 489                               | 7 574                  | 65 450   |
|      | MOUNTAIN . . . . .                   | 24             | 5                                  | 1 061          | 4 320             | 835                | 1 572             | 2 924           | 9 076  | (0)                                 | 814                    | 4 413  |
|      | COLORADO . . . . .                   | 11             | 3                                  | 877            | 3 606             | 692                | 1 324             | 2 427           | 7 847  | 438                                 | 759                    | 4 014  |
|      | ARIZONA . . . . .                    | 6              | 1                                  | 117            | 391               | 94                 | 156               | 295             | 702  | 18                                  | 21                     | 108  |
|      | PACIFIC . . . . .                    | 195            | 63                                 | 7 469          | 47 321            | 5 001              | 10 265            | 28 280          | 78 530   | (0)                                 | 6 760                  | 61 037   |
|      | WASHINGTON . . . . .                 | 10             | 4                                  | 147            | 1 005             | 95                 | 186               | 550             | 1 996  | 85                                  | 178                    | 1 771  |
|      | CALIFORNIA . . . . .                 | 173            | 57                                 | 7 254          | 46 018            | 4 856              | 9 988             | 27 520          | 76 006   | 2 918                               | 6 555                  | 58 927   |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area           | 1963              |                                       |                   |                      |                    |                      |                    |   | 1958                                   |                           |   |
|------|--|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|---|--|---------------------------|---|
|      |  | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted<br>(\$1,000) | Capital expenditures, new<br>(\$1,000) | All employees<br>(number) | Value added by manufacture, adjusted<br>(\$1,000) |
|      |  | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |  |                           |   |
| 363  | HOUSEHOLD APPLIANCES, TOTAL . . . . .        | 700               | 339                                   | 145 855           | 863 963              | 116 147            | 229 001              | 613 844            | 2 097 915   | 71 252                                 | 142 951                   | 1 548 808   |
|      | NORTHEAST . . . . .                          | 241               | 96                                    | 24 886            | 139 714              | 19 076             | 37 860               | 92 048             | 326 939   | 9 401                                  | 26 553                    | 235 324   |
|      | NEW ENGLAND . . . . .                        | 50                | 27                                    | 9 506             | 53 681               | 7 159              | 14 418               | 34 846             | 161 237   | 4 841                                  | 8 209                     | 94 751  |
|      | CONNECTICUT . . . . .                        | 19                | 16                                    | 7 949             | 44 674               | 5 993              | 12 095               | 29 230             | 140 715   | 3 156                                  | 6 773                     | 83 508  |
|      | MIDDLE ATLANTIC . . . . .                    | 191               | 69                                    | 15 380            | 86 033               | 11 917             | 23 442               | 57 202             | 165 702   | 4 560                                  | 18 344                    | 140 573   |
|      | NEW YORK . . . . .                           | 140               | 51                                    | 7 238             | 35 702               | 5 732              | 11 234               | 24 128             | 71 303  | 1 913                                  | 7 189                     | 55 558  |
|      | NEW JERSEY . . . . .                         | 26                | 5                                     | 3 781             | 26 051               | 2 777              | 5 650                | 17 981             | 38 127  | 906                                    | 5 959                     | 35 695  |
|      | PENNSYLVANIA . . . . .                       | 25                | 13                                    | 4 361             | 24 280               | 3 408              | 6 558                | 15 093             | 56 272  | 1 741                                  | 5 196                     | 49 320  |
|      | NORTH CENTRAL . . . . .                      | 249               | 141                                   | 88 114            | 551 961              | 70 358             | 138 310              | 399 735            | 1 303 872   | 44 118                                 | 88 401                    | 951 196   |
|      | EAST NORTH CENTRAL . . . . .                 | 209               | 118                                   | 79 387            | 505 690              | 62 801             | 123 150              | 362 371            | 1 168 777   | 40 536                                 | 77 211                    | 830 740   |
|      | OHIO . . . . .                               | 39                | 26                                    | 32 127            | 220 018              | 25 147             | 49 722               | 156 977            | 536 031   | 17 634                                 | 29 859                    | 394 390   |
|      | INDIANA . . . . .                            | 20                | 11                                    | 9 287             | 56 897               | 7 687              | 14 982               | 43 231             | 151 274   | 4 713                                  | 8 666                     | 66 134  |
|      | ILLINOIS . . . . .                           | 78                | 47                                    | 24 026            | 144 991              | 19 157             | 36 618               | 102 908            | 293 830   | 9 538                                  | 23 518                    | 229 224   |
|      | MICHIGAN . . . . .                           | 41                | 17                                    | 7 568             | 46 761               | 6 130              | 12 523               | 35 175             | 109 675   | 5 358                                  | 8 368                     | 75 606  |
|      | WISCONSIN . . . . .                          | 31                | 17                                    | 6 379             | 37 023               | 4 680              | 9 305                | 24 080             | 77 967  | 3 293                                  | 6 800                     | 65 386  |
|      | WEST NORTH CENTRAL . . . . .                 | 40                | 23                                    | 8 727             | 46 271               | 7 557              | 15 160               | 37 364             | 135 095   | 3 582                                  | 11 190                    | 120 456   |
|      | IOWA . . . . .                               | 10                | 7                                     | 3 573             | 21 031               | 3 181              | 6 355                | 17 997             | 84 707  | 1 635                                  | 5 015                     | 70 226  |
|      | SOUTH . . . . .                              | 113               | 65                                    | 25 634            | 126 878              | 21 545             | 42 503               | 94 181             | 366 736   | 13 705                                 | 20 831                    | 267 506   |
|      | SOUTH ATLANTIC . . . . .                     | 36                | 17                                    | 3 444             | 13 244               | 2 966              | 5 948                | 10 123             | 30 527  | 2 443                                  | 2 829                     | 26 378  |
|      | EAST SOUTH CENTRAL . . . . .                 | 48                | 36                                    | 19 042            | 100 759              | 16 001             | 31 597               | 74 980             | 308 213   | 10 550                                 | 16 991                    | 235 292   |
|      | TENNESSEE . . . . .                          | 28                | 21                                    | 6 322             | 25 608               | 5 357              | 10 878               | 18 842             | 63 616  | 2 923                                  | 5 966                     | 60 394  |
|      | WEST SOUTH CENTRAL . . . . .                 | 29                | 12                                    | 3 148             | 12 875               | 2 578              | 4 958                | 9 078              | 27 996  | 712                                    | 1 011                     | 5 836   |
|      | WEST . . . . .                               | 98                | 38                                    | 7 259             | 45 594               | 5 196              | 10 384               | 28 008             | 105 748   | 4 028                                  | 7 166                     | 94 782  |
|      | MOUNTAIN . . . . .                           | 6                 | -                                     | 25                | 90                   | 20                 | 37                   | 63                 | 158   | 8                                      | (0)                       | (0)   |
|      | PACIFIC . . . . .                            | 92                | 38                                    | 7 234             | 45 504               | 5 176              | 10 347               | 27 945             | 105 590   | 4 020                                  | (0)                       | (0)   |
|      | WASHINGTON . . . . .                         | 9                 | 4                                     | 325               | 1 679                | 255                | 472                  | 1 211              | 2 991   | 126                                    | (0)                       | (0)   |
|      | OREGON . . . . .                             | 7                 | 3                                     | 146               | 738                  | 113                | 202                  | 445                | 2 622   | 10                                     | (0)                       | (0)   |
|      | CALIFORNIA . . . . .                         | 76                | 31                                    | 6 763             | 43 087               | 4 808              | 9 673                | 26 289             | 99 977  | 3 884                                  | 6 726                     | 92 295  |
| 364  | LIGHTING AND WIRING DEVICES, TOTAL . . . . . | 1 951             | 813                                   | 132 984           | 709 630              | 104 508            | 206 705              | 487 642            | 1 559 630   | 62 104                                 | 124 218                   | 1 183 319   |
|      | NORTHEAST . . . . .                          | 937               | 402                                   | 66 566            | 339 653              | 52 588             | 102 869              | 234 404            | 708 065   | 24 980                                 | 62 233                    | 557 801   |
|      | NEW ENGLAND . . . . .                        | 172               | 85                                    | 20 189            | 100 146              | 16 101             | 31 477               | 74 291             | 208 085   | 7 991                                  | 19 064                    | 175 938   |
|      | CONNECTICUT . . . . .                        | 63                | 31                                    | 7 495             | 41 534               | 5 800              | 11 523               | 28 581             | 80 689  | 2 474                                  | 8 617                     | 75 897  |
|      | MIDDLE ATLANTIC . . . . .                    | 765               | 317                                   | 46 377            | 239 507              | 36 487             | 71 392               | 163 113            | 499 980   | 16 989                                 | 43 169                    | 381 863   |
|      | NEW YORK . . . . .                           | 448               | 153                                   | 19 015            | 97 718               | 14 666             | 28 433               | 64 670             | 179 575   | 6 193                                  | 18 382                    | 144 183   |
|      | NEW JERSEY . . . . .                         | 164               | 71                                    | 14 248            | 77 597               | 11 181             | 22 238               | 52 785             | 157 379   | 5 582                                  | 12 391                    | 107 033   |
|      | PENNSYLVANIA . . . . .                       | 153               | 93                                    | 13 114            | 64 192               | 10 640             | 20 721               | 45 658             | 163 026   | 5 214                                  | 12 396                    | 130 647   |
|      | NORTH CENTRAL . . . . .                      | 497               | 244                                   | 44 585            | 255 895              | 34 081             | 68 256               | 171 981            | 570 629   | 21 797                                 | 41 935                    | 407 358   |
|      | EAST NORTH CENTRAL . . . . .                 | 424               | 208                                   | 39 585            | 227 105              | 30 397             | 60 766               | 154 490            | 501 292   | 18 720                                 | 38 002                    | 371 074   |
|      | OHIO . . . . .                               | 115               | 62                                    | 13 636            | 77 138               | 10 816             | 21 224               | 54 754             | 201 706   | 4 997                                  | 12 399                    | 141 700   |
|      | INDIANA . . . . .                            | 32                | 13                                    | 6 574             | 44 967               | 5 290              | 11 324               | 33 793             | 89 445  | 5 588                                  | 5 886                     | 54 016  |
|      | ILLINOIS . . . . .                           | 204               | 107                                   | 16 160            | 87 370               | 11 948             | 23 449               | 54 624             | 180 479   | 7 052                                  | 17 281                    | 154 955   |
|      | WEST NORTH CENTRAL . . . . .                 | 73                | 36                                    | 5 000             | 28 790               | 3 684              | 7 490                | 17 491             | 69 337  | 3 077                                  | 3 933                     | 36 284  |
|      | MINNESOTA . . . . .                          | 18                | 7                                     | 617               | 3 499                | 513                | 1 131                | 2 616              | 14 049  | 1 131                                  | 193                       | 1 919   |
|      | MISSOURI . . . . .                           | 46                | 26                                    | 4 263             | 24 765               | 3 073              | 6 177                | 14 517             | 54 042  | 1 885                                  | 3 618                     | 33 671  |
|      | SOUTH . . . . .                              | 161               | 61                                    | 13 169            | 65 662               | 11 081             | 22 480               | 49 358             | 182 274   | 11 220                                 | 9 830                     | 121 077   |
|      | SOUTH ATLANTIC . . . . .                     | 78                | 25                                    | 5 523             | 29 538               | 4 603              | 9 585                | 22 050             | 80 694  | 5 979                                  | 3 849                     | 54 659  |
|      | WEST VIRGINIA . . . . .                      | 5                 | 4                                     | 2 541             | 14 593               | 2 262              | 4 765                | 12 114             | 36 785  | (0)                                    | 2 165                     | 36 851  |
|      | FLORIDA . . . . .                            | 28                | 7                                     | 377               | 1 558                | 296                | 607                  | 1 033              | 3 049   | 83                                     | (0)                       | (0)   |
|      | EAST SOUTH CENTRAL . . . . .                 | 27                | 21                                    | 5 910             | 27 966               | 5 043              | 10 052               | 21 443             | 77 020  | 3 552                                  | 5 024                     | 55 341  |
|      | KENTUCKY . . . . .                           | 13                | 9                                     | 2 370             | 10 587               | 1 990              | 3 982                | 7 887              | 27 869  | 1 831                                  | (0)                       | (0)   |
|      | MISSISSIPPI . . . . .                        | 5                 | 5                                     | 1 384             | 6 166                | 1 204              | 2 422                | 4 876              | 22 342  | 715                                    | 1 127                     | 15 074  |
|      | WEST SOUTH CENTRAL . . . . .                 | 56                | 15                                    | 1 736             | 8 158                | 1 435              | 2 843                | 5 865              | 24 560  | 1 689                                  | 957                       | 11 077  |
|      | WEST . . . . .                               | 357               | 107                                   | 8 772             | 48 874               | 6 845              | 13 278               | 32 230             | 100 739   | 4 162                                  | 10 220                    | 97 083  |
|      | MOUNTAIN . . . . .                           | 19                | 3                                     | 227               | 1 266                | 182                | 357                  | 751                | 2 376   | 324                                    | 139                       | 1 377   |
|      | COLORADO . . . . .                           | 10                | 2                                     | 163               | 947                  | 131                | 257                  | 563                | 1 735   | (0)                                    | (0)                       | (0)   |
|      | PACIFIC . . . . .                            | 338               | 104                                   | 8 545             | 47 608               | 6 663              | 12 921               | 31 479             | 98 363  | 3 838                                  | 10 081                    | 95 706  |
|      | CALIFORNIA . . . . .                         | 321               | 100                                   | 7 943             | 44 652               | 6 190              | 12 137               | 29 344             | 92 554  | 3 605                                  | 9 665                     | 91 846  |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area       | 1963              |                                       |                   |                      |                    |                      |                    |   | 1958                                   |                           |   |
|------|--|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|---|--|---------------------------|---|
|      |  | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted<br>(\$1,000) | Capital expenditures, new<br>(\$1,000) | All employees<br>(number) | Value added by manufacture, adjusted<br>(\$1,000) |
|      |  | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |  |                           |   |
| 365  | RAOIO & TV RECEIVING EQUIPMENT, TOTAL    | 515               | 238                                   | 90 818            | 458 905              | 74 104             | 143 485              | 322 263            | 1 037 342   | 39 215                                 | 73 926                    | 687 032   |
|      | NORTHEAST . . . . .                      | 229               | 110                                   | 28 464            | 147 000              | 22 179             | 42 228               | 98 188             | 306 843   | 7 536                                  | 26 748                    | 238 808   |
|      | NEW ENGLAND . . . . .                    | 27                | 15                                    | 2 833             | 12 956               | 2 259              | 4 221                | 8 374              | 23 136  | 688                                    | 3 129                     | 35 053  |
|      | MASSACHUSETTS . . . . .                  | 13                | 8                                     | 1 842             | 7 362                | 1 536              | 2 784                | 5 370              | 15 909  | 461                                    | 1 406                     | 11 190  |
|      | MIDDLE ATLANTIC . . . . .                | 202               | 95                                    | 25 631            | 134 044              | 19 920             | 38 007               | 89 814             | 283 707   | 6 848                                  | 23 619                    | 203 755   |
|      | NEW YORK . . . . .                       | 138               | 60                                    | 14 131            | 78 195               | 10 507             | 19 906               | 49 280             | 163 493   | 4 515                                  | 11 490                    | 114 162   |
|      | NEW JERSEY . . . . .                     | 45                | 24                                    | 7 062             | 34 673               | 5 568              | 10 645               | 23 633             | 80 002  | 1 504                                  | 6 732                     | 50 186  |
|      | PENNSYLVANIA . . . . .                   | 19                | 11                                    | 4 438             | 21 176               | 3 845              | 7 456                | 16 901             | 40 212  | 829                                    | 5 397                     | 39 407  |
|      | NORTH CENTRAL . . . . .                  | 130               | 81                                    | 50 866            | 256 018              | 42 931             | 83 859               | 189 973            | 578 556   | 21 784                                 | 39 835                    | 382 469   |
|      | EAST NORTH CENTRAL . . . . .             | 113               | 69                                    | 48 568            | 246 247              | 41 075             | 80 261               | 183 241            | 561 351   | 21 469                                 | 38 325                    | 373 876   |
|      | OHIO . . . . .                           | 14                | 7                                     | 1 105             | 5 038                | 796                | 1 611                | 2 843              | 9 401   | 120                                    | 2 845                     | 21 745  |
|      | INDIANA . . . . .                        | 18                | 13                                    | 16 814            | 88 950               | 14 329             | 28 131               | 69 145             | 238 364   | 8 639                                  | 11 133                    | 119 969   |
|      | ILLINOIS . . . . .                       | 66                | 43                                    | 29 326            | 146 021              | 24 882             | 48 409               | 106 873            | 303 209   | 12 445                                 | 21 509                    | 207 654   |
|      | WEST NORTH CENTRAL . . . . .             | 17                | 12                                    | 2 298             | 9 771                | 1 856              | 3 598                | 6 732              | 17 205  | 315                                    | 1 510                     | 8 593   |
|      | IOWA . . . . .                           | 5                 | 5                                     | 1 198             | 4 678                | 1 000              | 2 001                | 3 493              | 7 841   | 114                                    | (0)                       | (0)   |
|      | SOUTH . . . . .                          | 49                | 16                                    | 5 745             | 22 068               | 4 953              | 9 145                | 14 953             | 85 578  | 4 001                                  | 2 947                     | 34 264  |
|      | WEST . . . . .                           | 108               | 32                                    | 5 921             | 34 319               | 4 219              | 8 598                | 19 649             | 66 080  | 5 913                                  | 4 396                     | 31 485  |
|      | MOUNTAIN . . . . .                       | 5                 | -                                     | 32                | 166                  | 25                 | 48                   | 115                | 238   | 20                                     | (0)                       | (0)   |
|      | PACIFIC . . . . .                        | 103               | 32                                    | 5 889             | 34 153               | 4 194              | 8 550                | 19 534             | 65 842  | 5 893                                  | (0)                       | (0)   |
|      | CALIFORNIA . . . . .                     | 100               | 32                                    | 5 866             | 34 093               | 4 183              | 8 533                | 19 513             | 65 764  | 5 884                                  | (0)                       | (0)   |
| 366  | COMMUNICATION EQUIPMENT, TOTAL . . . . . | 1 222             | 691                                   | 476 849           | 3 394 593            | 269 681            | 541 828              | 1 589 412          | 5 341 463   | 193 861                                | 219 946                   | 2 121 031   |
|      | NORTHEAST . . . . .                      | 521               | 313                                   | 194 569           | 1 447 942            | 109 893            | 220 112              | 701 702            | 2 095 711   | 65 693                                 | 100 263                   | 1 034 207   |
|      | NEW ENGLAND . . . . .                    | 148               | 94                                    | 51 496            | 348 172              | 29 572             | 60 231               | 169 598            | 564 831   | 18 291                                 | 22 198                    | 229 284   |
|      | MASSACHUSETTS . . . . .                  | 88                | 55                                    | 40 692            | 274 924              | 23 546             | 47 714               | 136 999            | 458 170   | 13 649                                 | 15 701                    | 164 539   |
|      | CONNECTICUT . . . . .                    | 42                | 28                                    | 6 818             | 46 973               | 3 670              | 7 686                | 19 258             | 72 778  | 3 792                                  | 2 777                     | 24 596  |
|      | MIDDLE ATLANTIC . . . . .                | 373               | 219                                   | 143 073           | 1 099 770            | 80 321             | 159 881              | 532 104            | 1 530 880   | 47 402                                 | 78 065                    | 804 923   |
|      | NEW YORK . . . . .                       | 195               | 119                                   | 73 675            | 569 036              | 36 043             | 71 410               | 237 368            | 812 506   | 21 121                                 | 40 603                    | 454 413   |
|      | NEW JERSEY . . . . .                     | 116               | 65                                    | 57 898            | 451 231              | 37 340             | 74 908               | 254 299            | 612 512   | 20 353                                 | 32 781                    | 314 442   |
|      | PENNSYLVANIA . . . . .                   | 62                | 35                                    | 11 500            | 79 503               | 6 938              | 13 563               | 40 437             | 105 862   | 5 928                                  | 4 681                     | 36 068  |
|      | NORTH CENTRAL . . . . .                  | 224               | 117                                   | 108 736           | 689 243              | 65 389             | 129 546              | 353 597            | 1 206 269   | 48 692                                 | 77 142                    | 720 443   |
|      | EAST NORTH CENTRAL . . . . .             | 186               | 93                                    | 82 898            | 522 880              | 51 035             | 100 343              | 277 547            | 913 153   | 37 023                                 | (0)                       | (0)   |
|      | OHIO . . . . .                           | 42                | 21                                    | 15 055            | 87 417               | 8 865              | 17 647               | 43 682             | 150 948   | 4 232                                  | 4 103                     | 24 871  |
|      | INDIANA . . . . .                        | 22                | 9                                     | 12 997            | 81 454               | 9 219              | 18 001               | 50 962             | 124 971   | 7 478                                  | 8 135                     | 80 115  |
|      | ILLINOIS . . . . .                       | 83                | 46                                    | 43 563            | 275 594              | 27 129             | 52 736               | 150 109            | 512 836   | 20 056                                 | 50 143                    | 475 766   |
|      | MICHIGAN . . . . .                       | 25                | 9                                     | 1 973             | 13 574               | 1 139              | 2 534                | 7 258              | 18 312  | (0)                                    | (0)                       | (0)   |
|      | WISCONSIN . . . . .                      | 14                | 8                                     | 9 310             | 64 841               | 4 683              | 9 425                | 25 536             | 106 086   | (0)                                    | (0)                       | (0)   |
|      | WEST NORTH CENTRAL . . . . .             | 38                | 24                                    | 25 838            | 166 363              | 14 354             | 29 203               | 76 050             | 293 116   | 11 669                                 | (0)                       | (0)   |
|      | SOUTH . . . . .                          | 168               | 100                                   | 71 023            | 476 196              | 40 198             | 81 503               | 207 477            | 831 341   | 33 403                                 | 28 270                    | 268 726   |
|      | SOUTH ATLANTIC . . . . .                 | 102               | 65                                    | 48 471            | 334 734              | 26 480             | 53 244               | 141 572            | 549 141   | 19 763                                 | (0)                       | (0)   |
|      | MARYLAND . . . . .                       | 29                | 20                                    | 22 441            | 163 097              | 11 942             | 24 013               | 71 170             | 270 327   | 6 840                                  | 16 089                    | 151 558   |
|      | FLORIDA . . . . .                        | 42                | 23                                    | 10 074            | 77 379               | 5 203              | 10 792               | 28 574             | 112 889   | 5 596                                  | 1 255                     | 10 627  |
|      | EAST SOUTH CENTRAL . . . . .             | 16                | 10                                    | 5 324             | 28 412               | 3 634              | 7 022                | 16 841             | 48 142  | 1 448                                  | (0)                       | (0)   |
|      | TENNESSEE . . . . .                      | 8                 | 5                                     | 4 234             | 22 855               | 2 746              | 5 208                | 12 903             | 37 861  | 857                                    | (0)                       | (0)   |
|      | WEST SOUTH CENTRAL . . . . .             | 50                | 25                                    | 17 228            | 113 050              | 10 084             | 21 237               | 49 064             | 234 058   | 12 192                                 | (0)                       | (0)   |
|      | WEST . . . . .                           | 309               | 161                                   | 102 401           | 779 677              | 52 693             | 107 615              | 332 670            | 1 220 855   | 45 791                                 | 29 107                    | 257 968   |
|      | MOUNTAIN . . . . .                       | 22                | 16                                    | 4 603             | 29 764               | 3 734              | 7 754                | 21 454             | 43 636  | 1 509                                  | (0)                       | (0)   |
|      | COLORADO . . . . .                       | 7                 | 3                                     | 170               | 1 051                | 112                | 182                  | 604                | 1 114   | 60                                     | (0)                       | (0)   |
|      | NEW MEXICO . . . . .                     | 3                 | 3                                     | 254               | 1 312                | 194                | 319                  | 833                | 2 066   | 204                                    | (0)                       | (0)   |
|      | PACIFIC . . . . .                        | 287               | 145                                   | 97 798            | 749 913              | 48 959             | 99 861               | 311 216            | 1 177 219   | 44 282                                 | (0)                       | (0)   |
|      | WASHINGTON . . . . .                     | 15                | 5                                     | 954               | 6 858                | 542                | 1 056                | 2 244              | 9 680   | 279                                    | (0)                       | (0)   |
|      | CALIFORNIA . . . . .                     | 267               | 138                                   | 96 738            | 742 467              | 48 338             | 98 662               | 308 606            | 1 166 416   | 43 963                                 | 27 219                    | 239 802   |
| 367  | ELECTRONIC COMPONENTS, TOTAL . . . . .   | 2 291             | 1 150                                 | 288 527           | 1 535 747            | 210 906            | 417 151              | 920 686            | 2 508 117   | 175 943                                | 197 910                   | 1 433 885   |
|      | NORTHEAST . . . . .                      | 1 005             | 534                                   | 141 355           | 766 208              | 101 562            | 198 217              | 445 145            | 1 236 923   | 83 570                                 | 112 515                   | 789 700   |
|      | NEW ENGLAND . . . . .                    | 305               | 170                                   | 49 324            | 246 198              | 36 259             | 70 378               | 150 944            | 376 908   | 17 531                                 | 38 098                    | 232 642   |
|      | NEW HAMPSHIRE . . . . .                  | 18                | 11                                    | 4 795             | 20 132               | 4 060              | 7 774                | 14 900             | 30 133  | 1 678                                  | 3 064                     | 16 488  |
|      | MASSACHUSETTS . . . . .                  | 183               | 98                                    | 28 953            | 146 408              | 20 865             | 41 120               | 89 331             | 225 896   | 10 076                                 | 29 333                    | 179 313   |
|      | RHODE ISLAND . . . . .                   | 14                | 11                                    | 1 830             | 7 313                | 1 371              | 2 612                | 4 011              | 20 917  | 547                                    | 374                       | 2 000   |
|      | CONNECTICUT . . . . .                    | 81                | 43                                    | 11 403            | 60 880               | 8 147              | 15 092               | 35 303             | 85 489  | 4 752                                  | 4 566                     | 30 996  |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area | 1963           |                                    |                |                   |                    |                   |                 |  | 1958                                |                        |  |
|------|------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |                                    | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |                                    | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 367  | ELECTRONIC COMPONENTS—CONTINUED    |                |                                    |                |                   |                    |                   |                 |  |                                     |                        |  |
|      | MIDDLE ATLANTIC                    | 700            | 364                                | 92 031         | 520 010           | 65 303             | 127 839           | 294 201         | 860 015  | 65 939                              | 74 417                 | 557 058  |
|      | NEW YORK                           | 297            | 158                                | 35 201         | 204 564           | 23 663             | 47 026            | 103 858         | 314 878  | 27 978                              | 23 243                 | 178 809  |
|      | NEW JERSEY                         | 256            | 123                                | 24 595         | 159 414           | 17 983             | 34 590            | 81 675          | 216 049  | 10 468                              | 24 093                 | 168 096  |
|      | PENNSYLVANIA                       | 147            | 83                                 | 32 235         | 176 032           | 23 657             | 46 223            | 108 668         | 329 088  | 27 593                              | 27 081                 | 210 153  |
|      | NORTH CENTRAL                      | 497            | 286                                | 59 608         | 277 949           | 47 153             | 92 664            | 187 815         | 476 696  | 24 669                              | 46 658                 | 330 107  |
|      | EAST NORTH CENTRAL                 | 398            | 235                                | 49 726         | 235 503           | 39 494             | 77 546            | 159 829         | 388 431  | 21 458                              | 39 995                 | 284 553  |
|      | OHIO                               | 72             | 36                                 | 9 435          | 47 362            | 7 068              | 14 412            | 33 063          | 78 493   | 2 822                               | 7 695                  | 57 018   |
|      | INDIANA                            | 48             | 31                                 | 10 917         | 54 353            | 9 139              | 18 185            | 40 331          | 93 940   | 4 718                               | 10 295                 | 77 811   |
|      | ILLINOIS                           | 198            | 132                                | 23 525         | 105 651           | 18 613             | 36 097            | 68 320          | 163 169  | 12 216                              | 17 321                 | 112 928  |
|      | MICHIGAN                           | 48             | 17                                 | 3 047          | 13 734            | 2 522              | 4 940             | 9 632           | 28 938   | 811                                 | 2 281                  | 22 891   |
|      | WISCONSIN                          | 32             | 19                                 | 2 802          | 14 403            | 2 152              | 3 912             | 8 483           | 23 891   | 891                                 | 2 403                  | 13 905   |
|      | WEST NORTH CENTRAL                 | 99             | 51                                 | 9 882          | 42 446            | 7 659              | 15 118            | 27 986          | 88 265   | 3 211                               | 6 663                  | 45 554   |
|      | MINNESOTA                          | 40             | 22                                 | 2 412          | 11 956            | 1 861              | 3 736             | 8 128           | 29 966   | 994                                 | 1 796                  | 12 449   |
|      | IOWA                               | 14             | 11                                 | 3 205          | 13 787            | 2 615              | 4 937             | 9 776           | 32 481   | 793                                 | 1 794                  | 17 255   |
|      | MISSOURI                           | 18             | 7                                  | 819            | 2 997             | 710                | 1 405             | 2 314           | 5 194  | 228                                 | 1 108                  | 4 814  |
|      | KANSAS                             | 13             | 6                                  | 1 736          | 6 997             | 1 363              | 2 780             | 4 463           | 8 453  | 795                                 | (0)                    | (0)  |
|      | SOUTH                              | 238            | 98                                 | 34 630         | 167 753           | 27 371             | 55 417            | 114 957         | 284 951  | 14 703                              | 17 019                 | 138 740  |
|      | SOUTH ATLANTIC                     | 135            | 69                                 | 17 639         | 80 165            | 14 096             | 27 723            | 57 125          | 140 086  | 8 765                               | 6 417                  | 39 601   |
|      | MARYLAND                           | 25             | 9                                  | 1 187          | 5 943             | 813                | 1 644             | 3 884           | 10 368   | 812                                 | 377                    | (D)  |
|      | VIRGINIA                           | 16             | 10                                 | 5 870          | 30 977            | 4 784              | 9 166             | 23 391          | 49 363   | 2 832                               | (D)                    | (D)  |
|      | WEST VIRGINIA                      | 4              | 3                                  | 905            | 3 800             | 719                | 1 424             | 2 419           | 5 354  | 136                                 | (0)                    | (0)  |
|      | SOUTH CAROLINA                     | 6              | 4                                  | 3 586          | 13 527            | 2 806              | 5 399             | 8 750           | 20 393   | 1 751                               | (D)                    | (D)  |
|      | GEORGIA                            | 9              | 2                                  | 139            | 603               | 119                | 247               | 455             | 1 445  | 90                                  | (0)                    | (0)  |
|      | FLORIDA                            | 53             | 25                                 | 2 218          | 11 389            | 1 735              | 3 592             | 7 747           | 19 201   | 1 419                               | 1 121                  | 8 190  |
|      | EAST SOUTH CENTRAL                 | 41             | 16                                 | 7 397          | 34 087            | 6 097              | 11 988            | 24 239          | 62 591   | 2 467                               | 6 189                  | 47 425   |
|      | ALABAMA                            | 11             | 3                                  | 921            | 4 252             | 677                | 1 479             | 2 768           | 9 021  | 855                                 | 2 099                  | 17 709   |
|      | WEST SOUTH CENTRAL                 | 62             | 13                                 | 9 594          | 53 501            | 7 178              | 15 706            | 33 593          | 82 274   | 3 471                               | 4 413                  | 51 714   |
|      | WEST                               | 550            | 231                                | 52 841         | 323 078           | 34 784             | 70 761            | 172 084         | 524 193  | 52 963                              | 21 718                 | 175 338  |
|      | MOUNTAIN                           | 44             | 17                                 | 6 803          | 37 171            | 3 831              | 7 902             | 15 683          | 57 184   | (0)                                 | 1 490                  | 8 461  |
|      | COLORADO                           | 9              | 4                                  | 257            | 1 032             | 226                | 491               | 819             | 1 235  | 110                                 | 121                    | 401  |
|      | ARIZONA                            | 19             | 7                                  | 5 776          | 32 456            | 3 068              | 6 087             | 12 000          | 48 687   | (0)                                 | 737                    | 3 295  |
|      | UTAH                               | 5              | 3                                  | 622            | 3 085             | 432                | 1 123             | 2 448           | 6 229  | 208                                 | (0)                    | (0)  |
|      | PACIFIC                            | 506            | 214                                | 46 038         | 285 907           | 30 953             | 62 859            | 156 401         | 467 009  | (0)                                 | 20 228                 | 166 877  |
|      | WASHINGTON                         | 9              | 2                                  | 151            | 1 251             | 103                | 203               | 640             | 1 779  | 56                                  | 30                     | 163  |
|      | CALIFORNIA                         | 489            | 211                                | 45 845         | 284 430           | 30 816             | 62 585            | 155 624         | 464 833  | (0)                                 | 19 956                 | 164 866  |
| 369  | ELECTRICAL PRODUCTS, NEC, TOTAL    | 888            | 383                                | 83 708         | 494 515           | 65 281             | 132 379           | 347 183         | 1 042 356                                      | 36 993                              | 76 664                 | 711 043  |
|      | NORTHEAST                          | 298            | 138                                | 21 456         | 114 786           | 16 294             | 32 143            | 76 260          | 233 660  | 7 973                               | 23 563                 | 190 711  |
|      | NEW ENGLAND                        | 71             | 37                                 | 5 634          | 30 312            | 4 187              | 8 198             | 18 638          | 58 926   | 2 854                               | 4 525                  | 35 731   |
|      | MASSACHUSETTS                      | 35             | 20                                 | 2 933          | 15 799            | 2 138              | 4 103             | 9 213           | 29 482   | 1 139                               | (0)                    | (0)  |
|      | CONNECTICUT                        | 26             | 11                                 | 1 674          | 9 553             | 1 179              | 2 400             | 5 597           | 16 364   | 1 288                               | (0)                    | (0)  |
|      | MIDDLE ATLANTIC                    | 227            | 101                                | 15 822         | 84 474            | 12 107             | 23 945            | 57 622          | 174 734  | 5 119                               | 19 038                 | 154 980  |
|      | NEW YORK                           | 114            | 55                                 | 7 117          | 33 864            | 5 389              | 10 636            | 20 929          | 69 619   | 2 194                               | 11 238                 | 84 058   |
|      | NEW JERSEY                         | 61             | 24                                 | 4 140          | 23 343            | 3 330              | 6 669             | 17 618          | 48 110   | 1 036                               | 3 410                  | 29 345   |
|      | PENNSYLVANIA                       | 52             | 22                                 | 4 565          | 27 267            | 3 388              | 6 640             | 19 075          | 57 005   | 1 889                               | 4 390                  | 41 577   |
|      | NORTH CENTRAL                      | 250            | 146                                | 49 389         | 307 588           | 39 479             | 80 633            | 224 388         | 643 064  | 19 295                              | 43 630                 | 424 250  |
|      | EAST NORTH CENTRAL                 | 201            | 120                                | 45 573         | 287 347           | 36 320             | 74 330            | 208 575         | 588 844  | 18 205                              | 40 274                 | 397 559  |
|      | OHIO                               | 38             | 26                                 | 9 168          | 54 653            | 7 068              | 14 027            | 35 702          | 118 072  | 4 497                               | 12 482                 | 137 328  |
|      | INDIANA                            | 27             | 20                                 | 18 692         | 132 224           | 15 730             | 33 350            | 104 927         | 253 199  | 6 956                               | (0)                    | (0)  |
|      | ILLINOIS                           | 74             | 37                                 | 6 419          | 32 826            | 4 770              | 9 314             | 21 045          | 72 097   | 2 490                               | 4 609                  | 43 560   |
|      | MICHIGAN                           | 41             | 19                                 | 6 665          | 40 976            | 5 638              | 11 614            | 32 852          | 89 037   | 3 019                               | 3 424                  | 37 122   |
|      | WISCONSIN                          | 21             | 18                                 | 4 629          | 26 668            | 3 114              | 6 025             | 14 049          | 56 439   | 1 243                               | (0)                    | (0)  |
|      | WEST NORTH CENTRAL                 | 49             | 26                                 | 3 816          | 20 241            | 3 159              | 6 303             | 15 813          | 54 220   | 1 090                               | 3 356                  | 26 691   |
|      | MINNESOTA                          | 14             | 7                                  | 748            | 3 267             | 646                | 1 153             | 2 677           | 10 349   | 313                                 | 477                    | 2 993  |
|      | MISSOURI                           | 18             | 10                                 | 1 437          | 7 171             | 1 108              | 2 230             | 5 162           | 16 700   | 229                                 | (0)                    | (D)  |
|      | SOUTH AND WEST                     | 340            | 99                                 | 12 683         | 72 141            | 9 508              | 19 603            | 46 535          | 165 632  | 9 725                               | 7 758                  | 82 990   |
|      | VIRGINIA                           | 6              | 3                                  | 129            | 548               | 107                | 225               | 427             | 1 917  | 13                                  | (0)                    | (D)  |
|      | NORTH CAROLINA                     | 17             | 8                                  | 2 047          | 10 425            | 1 595              | 3 274             | 7 213           | 36 214   | 1 866                               | (0)                    | (0)  |
|      | GEORGIA                            | 13             | 6                                  | 578            | 3 253             | 489                | 991               | 2 681           | 10 528   | 298                                 | 564                    | 6 868  |
|      | FLORIDA                            | 34             | 10                                 | 1 952          | 11 855            | 1 095              | 2 301             | 5 311           | 13 516   | (0)                                 | 1 317                  | 9 110  |
|      | KENTUCKY                           | 9              | 4                                  | 387            | 1 768             | 330                | 666               | 1 390           | 3 715  | (0)                                 | (0)                    | (0)  |
|      | MISSISSIPPI                        | 3              | 3                                  | 132            | 496               | 111                | 225               | 370             | 1 147  | 27                                  | (0)                    | (0)  |
|      | TEXAS                              | 35             | 9                                  | 1 209          | 6 385             | 1 006              | 2 059             | 4 848           | 14 957   | 1 589                               | 1 101                  | 10 802   |
|      | COLORADO                           | 8              | 4                                  | 213            | 1 263             | 177                | 358               | 1 040           | 3 608  | 477                                 | 133                    | 1 838  |
|      | OREGON                             | 12             | 4                                  | 359            | 2 207             | 243                | 460               | 1 292           | 4 285  | 170                                 | 132                    | 1 314  |
|      | CALIFORNIA                         | 140            | 33                                 | 3 530          | 21 059            | 2 649              | 5 342             | 13 843          | 42 050   | 1 276                               | (0)                    | (0)  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.



TABLE 3. Detailed Statistics: 1963

| Item  | Electrical machinery (SIC 36) | Electric distribution products (SIC 361) | Electric industrial apparatus (SIC 362) | Household appliances (SIC 363) | Lighting and wiring devices (SIC 364) | Radio and TV receiving equipment (SIC 365) | Communication equipment (SIC 366) | Electronic components (SIC 367) | Electrical products, n.e.c. (SIC 369) |
|---|-------------------------------|--|---|--------------------------------|---------------------------------------|--|-----------------------------------|---------------------------------|---------------------------------------|
| ESTABLISHMENTS, TOTAL . . . . . NUMBER . .                                | 9 948                         | 1 137                                    | 1 244                                   | 700                            | 1 951                                 | 515  | 1 222                             | 2 291                           | 888                                   |
| WITH 1 TO 19 EMPLOYEES . . . . . DO. . .                                  | 5 226                         | 615                                      | 658                                     | 361                            | 1 138                                 | 277  | 531                               | 1 141                           | 505                                   |
| WITH 20 TO 99 EMPLOYEES . . . . . DO. . .                                 | 2 630                         | 296                                      | 306                                     | 159                            | 547                                   | 121  | 344                               | 624                             | 233                                   |
| WITH 100 EMPLOYEES OR MORE . . . . . DO. . .                              | 2 092                         | 226                                      | 280                                     | 180                            | 266                                   | 117  | 347                               | 526                             | 150                                   |
| PROPRIETORS AND WORKING PARTNERS . . . . . DO. . .                        | 2 491                         | 267                                      | 220                                     | 150                            | 643                                   | 123  | 189                               | 565                             | 334                                   |
| ALL EMPLOYEES (AVERAGE FOR THE YEAR) . . . . . DO. . .                    | 1 511 819                     | 132 125                                  | 160 953                                 | 145 855                        | 132 984                               | 90 818                                     | 476 849                           | 288 527                         | 83 708                                |
| PAYROLL (ALL EMPLOYEES), TOTAL FOR YEAR \$1,000 . .                       | 9 284 279                     | 822 019                                  | 1 004 907                               | 863 963                        | 709 630                               | 458 905                                    | 3 394 593                         | 1 535 747                       | 494 515                               |
| PRODUCTION WORKERS:   |                               |  |   |                                |                                       |  |                                   |                                 |                                       |
| AVERAGE FOR THE YEAR . . . . . NUMBER . .                                 | 1 049 357                     | 91 840                                   | 116 890                                 | 116 147                        | 104 508                               | 74 104                                     | 269 681                           | 210 906                         | 65 281                                |
| JANUARY-MARCH . . . . . DO. . . . .                                       | 1 047 935                     | 91 226                                   | 117 066                                 | 112 434                        | 103 186                               | 66 639                                     | 282 028                           | 210 774                         | 64 582                                |
| MAY . . . . . DO. . . . .   | 1 036 830                     | 91 204                                   | 117 489                                 | 112 365                        | 102 040                               | 69 472                                     | 267 940                           | 211 066                         | 65 254                                |
| AUGUST . . . . . DO. . . . .  | 1 047 495                     | 92 263                                   | 115 689                                 | 116 245                        | 105 273                               | 78 635                                     | 265 395                           | 210 462                         | 63 533                                |
| NOVEMBER . . . . . DO. . . . .  | 1 065 456                     | 92 731                                   | 117 317                                 | 123 545                        | 107 736                               | 81 663                                     | 263 370                           | 211 330                         | 67 764                                |
| MAN-HOURS . . . . . \$1,000 . . . . .                                     | 2 090 531                     | 183 688                                  | 236 294                                 | 229 001                        | 206 705                               | 143 485                                    | 541 828                           | 417 151                         | 132 379                               |
| JANUARY-MARCH . . . . . DO. . . . .                                       | 528 263                       | 45 956                                   | 59 529                                  | 56 634                         | 50 504                                | 32 149                                     | 144 445                           | 105 798                         | 33 248                                |
| APRIL-JUNE . . . . . DO. . . . .  | 528 992                       | 46 600                                   | 60 189                                  | 56 521                         | 51 918                                | 34 496                                     | 139 303                           | 106 670                         | 33 295                                |
| JULY-SEPTEMBER . . . . . DO. . . . .                                      | 499 507                       | 44 625                                   | 56 583                                  | 54 895                         | 49 934                                | 37 322                                     | 125 384                           | 99 802                          | 30 962                                |
| OCTOBER-DECEMBER . . . . . DO. . . . .                                    | 533 854                       | 46 507                                   | 59 996                                  | 60 967                         | 54 349                                | 39 518                                     | 132 696                           | 104 881                         | 34 940                                |
| WAGES . . . . . \$1,000 . . . . .   | 5 405 786                     | 484 186                                  | 640 570                                 | 613 844                        | 487 642                               | 322 263                                    | 1 589 412                         | 920 686                         | 347 183                               |
| COST OF MATERIALS, ETC., TOTAL <sup>1</sup> . . . . . DO. . .             | 12 942 644                    | 1 034 627                                | 1 276 219                               | 2 089 219                      | 1 268 752                             | 1 443 499                                  | 3 527 069                         | 1 403 403                       | 899 856                               |
| MATERIALS, PARTS, CONTAINERS, AND SUPPLIES CONSUMED . . . . . DO. . . . . | 11 708 631                    | 942 108                                  | 1 172 504                               | 1 915 685                      | 1 151 629                             | 1 384 512                                  | 3 123 719                         | 1 210 358                       | 808 116                               |
| COST OF REALES . . . . . DO. . . . .                                      | 711 479                       | 62 285                                   | 44 968                                  | 127 363                        | 76 389                                | 36 384                                     | 186 139                           | 106 195                         | 71 756                                |
| FUELS CONSUMED . . . . . DO. . . . .                                      | 70 926                        | 5 525                                    | 12 900                                  | 14 513                         | 9 133                                 | 3 252                                      | 10 921                            | 9 462                           | 5 220                                 |
| ELECTRIC ENERGY:  |                               |  |   |                                |                                       |  |                                   |                                 |                                       |
| PURCHASED:  |                               |  |   |                                |                                       |  |                                   |                                 |                                       |
| QUANTITY . . . . . MILLION KW.-HRS. . . . .                               | 12 792                        | 1 086                                    | 2 427                                   | 1 772                          | 1 005                                 | 472  | 2 720                             | 2 355                           | 955                                   |
| COST . . . . . \$1,000 . . . . .  | 147 178                       | 12 473                                   | 23 071                                  | 20 151                         | 13 911                                | 6 161                                      | 31 985                            | 29 063                          | 10 363                                |
| GENERATED LESS SOLD . . . . . MILLION KW.-HRS. . . . .                    | 16 433                        | 2 439                                    | 2 399                                   | 2 375                          | (D)                                   | (D)  | (D)                               | 2 833                           | 1 339                                 |
| CONTRACT WORK . . . . . \$1,000 . . . . .                                 | 304 423                       | 12 230                                   | 22 763                                  | 11 507                         | 17 702                                | 13 190                                     | 174 305                           | 48 325                          | 4 401                                 |
| VALUE OF SHIPMENTS (INCLUDING REALES):                                    |                               |  |   |                                |                                       |  |                                   |                                 |                                       |
| TOTAL <sup>1</sup> . . . . . DO. . . . .                                  | 29 840 182                    | 2 565 859                                | 3 153 942                               | 4 118 406                      | 2 829 032                             | 2 435 051                                  | 8 881 958                         | 3 909 772                       | 1 946 162                             |
| VALUE OF REALES . . . . . DO. . . . .                                     | 927 958                       | 82 500                                   | 66 320                                  | 167 423                        | 98 217                                | 44 978                                     | 217 868                           | 139 673                         | 110 982                               |
| VALUE ADDED BY MANUFACTURE, ADJUSTED . . . . . DO. . .                    | 17 010 665                    | 1 534 661                                | 1 889 181                               | 2 097 915                      | 1 559 630                             | 1 037 342                                  | 5 341 463                         | 2 508 117                       | 1 042 356                             |
| MANUFACTURERS' INVENTORIES:   |                               |  |   |                                |                                       |  |                                   |                                 |                                       |
| BEGINNING OF YEAR, TOTAL . . . . . DO. . . . .                            | 5 148 799                     | 520 475                                  | 593 094                                 | 625 091                        | 417 766                               | 335 241                                    | 1 724 531                         | 665 241                         | 267 360                               |
| FINISHED PRODUCTS . . . . . DO. . . . .                                   | 1 358 692                     | 135 312                                  | 156 190                                 | 315 062                        | 189 796                               | 136 383                                    | 167 402                           | 172 368                         | 86 179                                |
| WORK-IN-PROCESS . . . . . DO. . . . .                                     | 2 437 313                     | 224 476                                  | 255 816                                 | 150 460                        | 104 785                               | 90 899                                     | 1 224 657                         | 292 376                         | 93 844                                |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO. . . . .                       | 1 352 794                     | 160 687                                  | 181 088                                 | 159 569                        | 123 185                               | 107 959                                    | 332 472                           | 200 497                         | 87 337                                |
| END OF YEAR, TOTAL . . . . . DO. . . . .                                  | 5 239 708                     | 526 724                                  | 590 188                                 | 716 085                        | 421 910                               | 401 233                                    | 1 663 346                         | 660 914                         | 259 308                               |
| FINISHED PRODUCTS . . . . . DO. . . . .                                   | 1 453 815                     | 133 788                                  | 154 460                                 | 366 539                        | 187 629                               | 182 566                                    | 170 451                           | 174 376                         | 84 006                                |
| WORK-IN-PROCESS . . . . . DO. . . . .                                     | 2 462 976                     | 229 544                                  | 266 471                                 | 167 711                        | 107 272                               | 94 642                                     | 1 214 057                         | 292 116                         | 91 163                                |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO. . . . .                       | 1 322 924                     | 163 392                                  | 169 257                                 | 181 835                        | 127 016                               | 124 025                                    | 278 838                           | 194 422                         | 84 139                                |
| EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL DD. . .                       | 750 251                       | 52 836                                   | 80 344                                  | 79 276                         | 66 247                                | 40 064                                     | 206 780                           | 185 342                         | 39 362                                |
| NEW, TOTAL . . . . . DO. . . . .  | 701 947                       | 50 548                                   | 72 031                                  | 71 252                         | 62 104                                | 39 215                                     | 193 861                           | 175 943                         | 36 993                                |
| NEW STRUCTURES AND ADDITIONS TO PLANT . . . . . DO. . .                   | 176 031                       | 12 570                                   | 14 944                                  | 14 026                         | 15 292                                | 14 756                                     | 49 495                            | 46 467                          | 8 481                                 |
| NEW MACHINERY AND EQUIPMENT . . . . . DO. . . . .                         | 525 916                       | 37 978                                   | 57 087                                  | 57 226                         | 46 812                                | 24 459                                     | 144 366                           | 129 476                         | 28 512                                |
| USED PLANT AND EQUIPMENT . . . . . DO. . . . .                            | 48 304                        | 2 288                                    | 8 313                                   | 8 024                          | 4 143                                 | 849  | 12 919                            | 9 399                           | 2 369                                 |
| SELECTED OPERATING RATIOS:  |                               |  |   |                                |                                       |  |                                   |                                 |                                       |
| PAYROLL/TOTAL EMPLOYMENT . . . . .  | 6 141                         | 6 222                                    | 6 243                                   | 5 923                          | 5 336                                 | 5 053                                      | 7 119                             | 5 323                           | 5 908                                 |
| PRODUCTION WORKERS/TOTAL EMPLOYMENT . . . . .                             | .69                           | .70                                      | .73                                     | .80                            | .79                                   | .82  | .57                               | .73                             | .78                                   |
| MAN-HOURS/PRODUCTION WORKERS . . . . .                                    | 1 992                         | 2 000                                    | 2 022                                   | 1 972                          | 1 978                                 | 1 936                                      | 2 009                             | 1 978                           | 2 028                                 |
| PRODUCTION WORKER WAGES/MAN-HOURS . . . . .                               | 2.59                          | 2.64                                     | 2.71                                    | 2.68                           | 2.36                                  | 2.25                                       | 2.93                              | 2.21                            | 2.62                                  |
| COST OF MATERIALS AND PAYROLLS/TOTAL VALUE OF SHIPMENTS . . . . .         | .74                           | .72                                      | .72                                     | .72                            | .70                                   | .78  | .78                               | .75                             | .72                                   |
| COST OF MATERIALS/TOTAL VALUE OF SHIPMENTS . . . . .                      | .43                           | .40                                      | .40                                     | .51                            | .45                                   | .59  | .40                               | .36                             | .46                                   |
| ADJUSTED VALUE ADDED/TOTAL EMPLOYMENT . . . . .                           | 11 252                        | 11 615                                   | 11 737                                  | 14 384                         | 11 728                                | 11 422                                     | 11 202                            | 8 693                           | 12 452                                |
| SALARIES AND WAGES/ADJUSTED VALUE ADDED . . . . .                         | .55                           | .54                                      | .53                                     | .41                            | .45                                   | .44  | .64                               | .61                             | .47                                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.





## ELECTRICAL TRANSMISSION, DISTRIBUTION, AND INDUSTRIAL APPARATUS

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3611—Electric Measuring Instruments and Test Equipment
- 3612—Power, Distribution, and Specialty Transformers
- 3613—Switchgear and Switchboard Apparatus
- 3621—Motors and Generators
- 3622—Industrial Controls
- 3623—Welding Apparatus
- 3624—Carbon and Graphite Products
- 3629—Electrical Industrial Apparatus, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

In addition to the 1963 Census of Manufactures product statistics shown in table 6A, detail as published in the 1963 Current Industrial Reports Series are also shown.

### 3611—ELECTRIC MEASURING INSTRUMENTS AND TEST EQUIPMENT

This industry comprises establishments primarily engaged in manufacturing pocket, portable, panelboard, and graphic recording instruments for measuring electricity such as voltmeters, ammeters, watt meters, watthour meters, demand meters, and other meters and indicating instruments. This industry also includes establishments primarily engaged in manufacturing analyzers for testing the electrical characteristics of internal combustion engines, radio apparatus, etc. For a detailed list of products of industry 3611, refer to table 6A, product codes 3611110 to 3611385.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Electric Measuring Instruments Industry totaled \$749 million. This amount included shipments of electric measuring instruments (primary products) valued at \$588 million, shipments of other products (secondary products) valued at \$112 million, and miscellaneous receipts (mainly resales) at \$48 million.

This industry's shipments of electric measuring instruments represented 84 percent of its total product shipments. The industry specialization ratio in 1958 was 74 percent. Secondary products shipped by this industry in 1963 consisted mainly of other electronic components and accessories, n.e.c. (\$18 million), and electronic military, industrial, and commercial equipment, n.e.c. (\$10 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 45 percent of the total industry shipments are represented by plants specializing in product class 36112, Test equipment for testing electrical, radio, and communication circuits and motors.

Shipments of electric measuring instruments by this industry represented 78 percent of all shipments of these products (\$756 million) by all industries. In 1958 the coverage ratio was 81 percent. Other industries shipping electric measuring instruments consisted mainly of industry 3662, Radio, TV Communications Equipment, \$33 million; and industry 3821, Mechanical Measuring Devices, \$22 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3611, e.g., 36111, Integrating instruments, electrical, 96 percent; 36113, Other electrical measuring instruments, 71 percent; and 36110, Electrical measuring instruments, n.s.k., 97 percent.

#### 3612—POWER, DISTRIBUTION, AND SPECIALTY TRANSFORMERS

This industry comprises establishments primarily engaged in manufacturing power, distribution, and specialty transformers. Establishments primarily engaged in manufacturing radio frequency or voice frequency transformers, coils, or chokes are classified in industry 3679, and resistor welding transformers in industry 3623. For a detailed list of products of industry 3612, refer to table 6A, product codes 3612111 to 3612384.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Transformers Industry totaled \$723 million. This amount included shipments of power, distribution, and specialty transformers (primary products) valued at \$652 million, shipments of other products (secondary products) valued at \$58 million, and miscellaneous receipts (mainly resales) at \$12 million.

This industry's shipments of transformers represented 92 percent of its total product shipments. The industry specialization ratio in 1958 was 94 percent. Secondary products shipped by this industry in 1963 consisted mainly of other electrical measuring instruments (\$10 million), and coils, transformers, reactors, and chokes for electronic applications (\$4 million).

Shipments of transformers by this industry represented 94 percent of all shipments of these products (\$692 million) by all industries. In 1958 the coverage ratio was 93 percent. Other industries shipping transformers consisted mainly of industry 3642, Lighting Fixtures, \$6 million.

The production index for the primary products of the industry increased to 125 in 1963 from the 1958 level of 88. The unit value index for 1963 was 89 compared to 114 in 1958. Both indexes were computed on a basis of 1954 = 100.



### 3613—SWITCHGEAR AND SWITCHBOARD APPARATUS

This industry comprises establishments primarily engaged in manufacturing switchgear and switchboard apparatus. Important products of this industry include power switches, circuit breakers, power switching equipment, and similar switchgear for general industrial application; switchboards and cubicles, control and metering panels, power fuse mountings, and similar switchboard apparatus and supplies. Establishments primarily engaged in manufacturing industrial controls are classified in industry 3622, and those manufacturing current carrying wiring devices in industry 3643. For a detailed list of products of industry 3613, refer to table 6A, product codes 3613111 to 3613493.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Switchgear and Switchboards Industry totaled \$1,094 million. This amount included shipments of switchgear and switchboard apparatus (primary products) valued at \$897 million, shipments of other products (secondary products) valued at \$136 million, and miscellaneous receipts (mainly resales) at \$61 million.

This industry's shipments of switchgear and switchboard apparatus represented 87 percent of its total product shipments. The industry specialization ratio in 1958 was 80 percent. Secondary products shipped by this industry in 1963 consisted mainly of general industry power circuit devices and controls (\$67 million), current carrying wiring devices, including lightning rods and electric conduit and conduit fittings (\$6 million each).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 46 percent of the total industry shipments are represented by plants specializing in product class 36131, Switchgear, including power switchgear assemblies and other switching and interrupting devices 2300 volts and over; and 29 percent in product class 36133, Low voltage panelboards and distribution boards and switching and interrupting devices 750 volts and under.

Shipments of switchgear and switchboards by this industry represented 89 percent of all shipments of these products (\$1,008 million) by all industries. In 1958 the coverage ratio was 90 percent. Other industries shipping switchgear and switchboard apparatus consisted mainly of industry 3622, Industrial Controls, \$28 million; and industry 3643, Current Carrying Devices, \$10-\$20 million.

The production index for the primary products of the industry increased to 125 in 1963 from the 1958 level of 109. The unit value index for 1963 was 112 compared to 113 in 1958. Both indexes were computed on a basis of 1954 = 100.

### 3621—MOTORS AND GENERATORS

This industry comprises establishments primarily engaged in manufacturing electric motors (except starting motors) and power generators; motor generator sets; railway motors and control equipment; and motors, generators, and control equipment for gasoline electric and oil electric busses and trucks. Establishments primarily engaged in manufacturing turbo-generators are classified in industry 3611, and starting motors and battery charging generators for internal combustion engines in industry 3694. For a detailed list of products of industry 3621, refer to table 6A, product codes 3621101 to 3621611.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Motors and Generators Industry totaled \$1,710 million. This amount included shipments of motors and generators (primary products) valued at \$1,332 million, shipments of other products (secondary products) valued at \$308 million, and miscellaneous receipts (mainly resales) at \$70 million.

This industry's shipments of motors and generators represented 81 percent of its total product shipments. The industry specialization ratio in 1958 was 83 percent. Secondary products shipped by this industry in 1963 consisted mainly of speed changers, industrial high speed drivers, and gears (\$22 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 46 percent of the total industry shipments are represented by plants specializing in product class 36211, Fractional horsepower motors; and 32 percent in 36212, Integral horsepower motors and generators, except land transportation.

Shipments of motors and generators by this industry represented 84 percent of all shipments of these products (\$1,578 million) by all industries. In 1958 the coverage ratio was 85 percent.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3621, e.g., Fractional horsepower motors, 91 percent; Integral horsepower motors and generators, except land transportation, 92 percent; Land transportation motors, generators, and control equipment and parts, and Prime moving generator sets, except steam or hydraulic turbines, combined, 40 percent; and Motor generators and other rotating equipment, 92 percent.

#### 3622—INDUSTRIAL CONTROLS

This industry comprises establishments primarily engaged in manufacturing motor starters and controllers, control accessories, electronic controls, and other industrial controls. Establishments primarily engaged in manufacturing automatic temperature controls are classified in industry 3822. For a detailed list of products of industry 3622, refer to table 6A, product codes 3622012 to 3622099.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Industrial Controls Industry totaled \$649 million. This amount included shipments of industrial controls (primary products) valued at \$500 million, shipments of other products (secondary products) valued at \$129 million, and miscellaneous receipts (mainly resales) at \$19 million.

This industry's shipments of industrial controls represented 79 percent of its total product shipments. The industry specialization ratio in 1958 also was 79 percent. Secondary products shipped by this industry in 1963 consisted mainly of resistors for electronic application (\$57 million), and switchgear, including power switchgear assemblies and other switching and interrupting devices 2300 volts and over (\$23 million).

Shipments of industrial controls by this industry represented 79 percent of all shipments of these products (\$633 million) by all industries. In 1958 the coverage ratio was 70 percent. Other industries shipping industrial controls consisted mainly of industry



3613, Switchgear and Switchboards, \$67 million; and industry 3822, Automatic Temperature Controls, \$13 million.

#### 3623—WELDING APPARATUS

This industry comprises establishments primarily engaged in manufacturing welding apparatus and accessories. Establishments which coat only and those which draw the wire and coat it are also included. Establishments primarily engaged in manufacturing gas welding apparatus are classified in industry 3548. For a detailed list of products of industry 3623, refer to table 6A, product codes 3623111 to 3623381.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Electric Welding Apparatus Industry totaled \$330 million. This amount included shipments of electric welding apparatus (primary products) valued at \$288 million, shipments of other products (secondary products) valued at \$20 million, and miscellaneous receipts (mainly resales) at \$22 million.

This industry's shipments of electric welding apparatus represented 93 percent of its total product shipments. The industry specialization ratio in 1958 also was 93 percent. Secondary products shipped by this industry in 1963 consisted mainly of essential oils, fireworks, and pyrotechnics and chemicals and chemical preparations, n.e.c. (\$5-\$10 million).

While the primary products of the industry represent more than one class of products, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 53 percent of the total industry shipments are represented by plants specializing in product class 36232, Arc welding electrodes, metal.

Shipments of electric welding apparatus by this industry represented 89 percent of all shipments of these products (\$325 million) by all industries. In 1958 the coverage ratio was 92 percent. Other industries shipping electric welding apparatus consisted mainly of industry 3621, Motors and Generators, \$5-\$10 million.

The production index for the primary products of the industry increased to 154 in 1963 from the 1958 level of 113. The unit value index for 1963 was 132 compared to 129 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3624—CARBON AND GRAPHITE PRODUCTS

This industry comprises establishments primarily engaged in manufacturing lighting carbons; carbon, graphite, and metal graphite brushes and brush stock; carbon or graphite electrodes for thermal and electrolytic uses; and other carbon, graphite, and metal graphite products for use in the electrical industries. For a detailed list of products of industry 3624, refer to table 6A, product codes 3624011 to 3624089.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Carbon and Graphite Products Industry totaled \$227 million. This amount included shipments of carbon and graphite products (primary products) valued at \$209 million, shipments of other products (secondary products) valued at \$16 million, and miscellaneous receipts (mainly resales) at \$2 million.

This industry's shipments of carbon and graphite products represented 93 percent of its total product shipments. The industry specialization ratio in 1958 was 97 percent. Secondary products shipped by this industry in 1963 consisted mainly of resistors for electronic applications (\$2-\$5 million).

Shipments of carbon and graphite products by this industry represented 96 percent of all shipments of these products (\$218 million) by all industries. In 1958 the coverage ratio was 95 percent. Other industries shipping carbon and graphite products consisted mainly of industry 3621, Motors and Generators (over \$2 million); and industry 3694, Engine Electrical Equipment (\$2-\$5 million).

#### 3629—ELECTRICAL INDUSTRIAL APPARATUS, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing industrial and commercial electric apparatus and equipment, n.e.c., such as blasting machines, fixed and variable capacitors and condensers, and rectifiers for industrial applications. Establishments primarily engaged in manufacturing fixed and variable capacitors and condensers for electronic end products are classified in industry 3679 and rectifiers for electronic end products in industry 3674. For a detailed list of products of industry 3629, refer to table 6A, product codes 3629111 to 3629398.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Electric Industrial Goods, N.E.C., Industry totaled \$238 million. This amount included shipments of electric industrial goods, n.e.c. (primary products) valued at \$180 million, shipments of other products (secondary products) valued at \$46 million, and miscellaneous receipts (mainly resales) at \$12 million.

This industry's shipments of electric industrial goods, n.e.c., represented 80 percent of its total product shipments. The industry specialization ratio in 1958 was 71 percent. Secondary products shipped by this industry in 1963 consisted mainly of coils, transformers, reactors, and chokes for electronic applications (\$2 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 22 percent of the total industry shipments are represented by plants specializing in product class 36291, Capacitors for industrial use (except for electronic applications); 26 percent in 36292, Rectifying apparatus; and 48 percent in 36293, Other electrical equipment for industrial use.

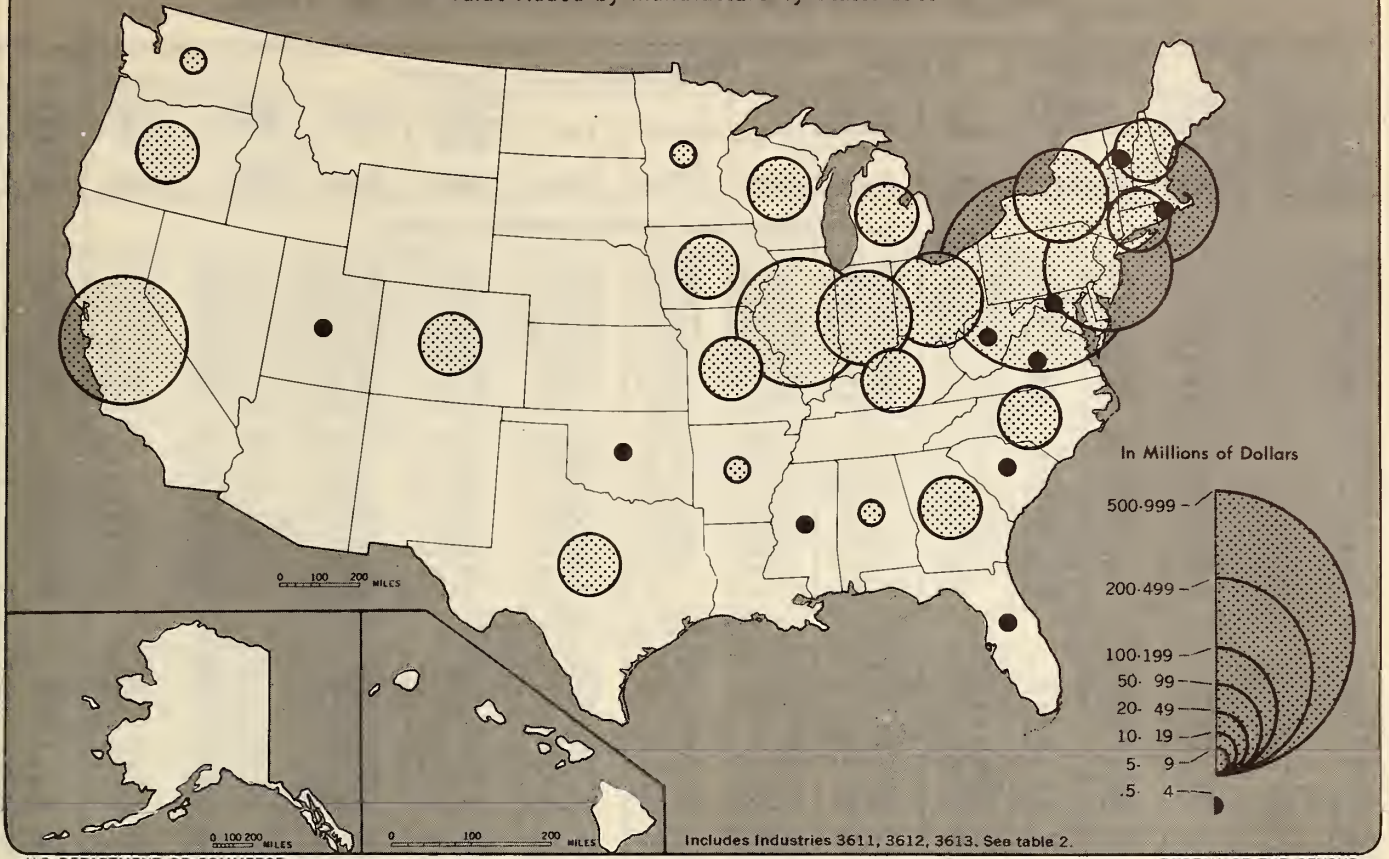
Shipments of electric industrial goods, n.e.c., by this industry represented 72 percent of all shipments of these products (\$250 million) by all industries. In 1958 the coverage ratio was 73 percent. Other industries shipping electrical industrial goods, n.e.c., consisted mainly of industry 3622, Industrial Controls, \$4 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3629, e.g., product class 36292, Rectifying apparatus, 57 percent; and, product class 36293, Other electrical equipment for industrial use, 80 percent.



# ELECTRIC DISTRIBUTION PRODUCTS: SIC 361

Value Added by Manufacture by State: 1963



# ELECTRIC INDUSTRIAL APPARATUS: SIC 362

Value Added by Manufacture by State: 1963

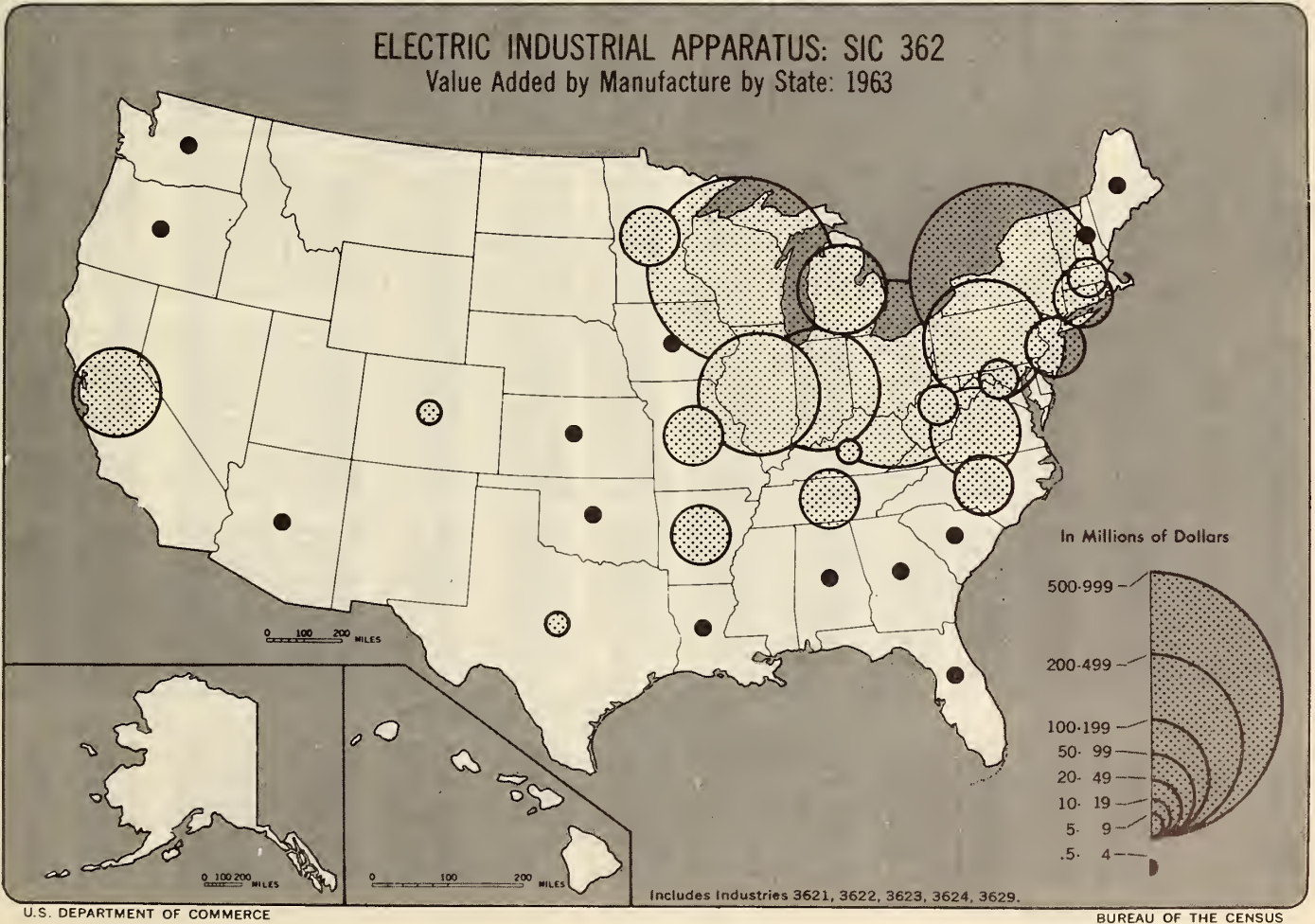




TABLE 1. General Statistics: 1963 and Earlier Years

| Year  | Companies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expenditures,<br>new<br>(\$1,000) | Special-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|-----------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|---|-----------------------------------|------------------------------------|--|--|--|
|   |                       | Total<br>(number) | With 20<br>employ-<br>ees or<br>more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                   |                                    |  |  |  |
| INDUSTRY 3611.—ELECTRIC MEASURING INSTRUMENTS |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |  |  |  |
| 1963.....                                     | 536                   | 560               | 209  | 44,715            | 273,645              | 30,109             | 59,905               | 149,616            | 505,309   | 245,417                           | 749,220                            | 19,207                                       | 84   | 78                                       |
| 1962 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | (59,512)          | (339,956)            | (42,605)           | (88,978)             | (205,229)          | (588,690)   | (800,812)                         | (879,561)                          | (22,642)                                     | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | (57,679)          | (335,864)            | (40,343)           | (82,459)             | (194,634)          | (558,020)   | (285,471)                         | (830,937)                          | (22,801)                                     | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | (51,847)          | (300,393)            | (36,823)           | (74,933)             | (179,339)          | (514,433)   | (278,032)                         | (795,039)                          | (25,317)                                     | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | (50,031)          | (281,527)            | (36,266)           | (74,150)             | (173,323)          | (509,869)   | (270,991)                         | (770,613)                          | (22,044)                                     | (NA)   | (NA)                                     |
| 1958.....                                     | 476                   | 492               | 200  | 46,923            | 254,833              | 31,702             | 63,646               | 147,165            | 419,396   | 235,188                           | 673,522                            | 19,421                                       | 74   | 81                                       |
| 1956 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 38,743            | 187,849              | 28,105             | 55,396               | 114,736            | 340,714   | 151,652                           | 467,406                            | 13,122                                       | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 34,767            | 160,868              | 25,216             | 49,738               | 95,677             | 272,856   | 126,187                           | 386,738                            | 11,168                                       | (NA)   | (NA)                                     |
| 1954 <sup>2</sup> .....                       | 299                   | 303               | 143  | 33,049            | 145,131              | 24,223             | 47,679               | 90,873             | 245,588   | 114,127                           | 368,186                            | 20,926                                       | 75   | 76                                       |
| 1953 <sup>1 2</sup> .....                     | (NA)                  | (NA)              | (NA)   | 38,115            | 161,151              | 29,393             | 59,722               | 108,551            | 272,026   | 118,746                           | 390,772                            | (NA)   | (NA)   | (NA)                                     |
| 1952 <sup>1 2</sup> .....                     | (NA)                  | (NA)              | (NA)   | 30,545            | 121,926              | 23,646             | 48,436               | 85,246             | 202,182   | 96,824                            | 299,006                            | (NA)   | (NA)   | (NA)                                     |
| 1951 <sup>1 2</sup> .....                     | (NA)                  | (NA)              | (NA)   | 25,414            | 98,880               | 19,635             | (NA)                 | 69,527             | 153,705   | 79,391                            | 233,096                            | (NA)   | (NA)   | (NA)                                     |
| 1950 <sup>1 2</sup> .....                     | (NA)                  | (NA)              | (NA)   | 19,143            | 65,544               | 14,263             | 28,642               | 43,357             | 113,314   | 52,530                            | 165,844                            | (NA)   | (NA)   | (NA)                                     |
| 1949 <sup>1 2</sup> .....                     | (NA)                  | (NA)              | (NA)   | 16,180            | 53,490               | 11,403             | 22,726               | 34,748             | 87,612  | 36,013                            | 123,625                            | (NA)   | (NA)   | (NA)                                     |
| 1947 <sup>2</sup> .....                       | 150                   | 154               | 58   | 20,926            | 60,661               | 16,086             | 32,576               | 42,326             | 103,946   | 49,434                            | 153,380                            | (NA)   | (NA)   | (NA)                                     |
| 1939 <sup>2</sup> .....                       | (NA)                  | 59                | (NA)   | 9,318             | 15,223               | 6,976              | (NA)                 | 9,881              | 29,693  | 12,104                            | 41,797                             | (NA)   | (NA)   | (NA)                                     |
| 1937 <sup>2</sup> .....                       | (NA)                  | 33                | (NA)   | (NA)              | (NA)                 | 6,935              | (NA)                 | 10,102             | 30,159  | 10,257                            | 40,416                             | (NA)   | (NA)   | (NA)                                     |
| INDUSTRY 3612.—TRANSFORMERS                   |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |  |  |  |
| 1963.....                                     | 144                   | 177               | 99   | 33,365            | 209,514              | 23,640             | 46,873               | 129,628            | 381,514   | 337,001                           | 722,896                            | 13,161                                       | 92   | 94                                       |
| 1962 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 35,075            | 215,228              | 24,590             | 49,078               | 133,946            | 400,762   | 345,850                           | 740,359                            | 22,594                                       | (NA)   | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 34,857            | 207,363              | 23,522             | 46,180               | 128,146            | 402,251   | 303,768                           | 708,099                            | 40,524                                       | (NA)   | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 36,608            | 211,851              | 24,724             | 48,600               | 129,214            | 422,501   | 308,360                           | 718,264                            | 14,297                                       | (NA)   | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 35,507            | 201,687              | 24,048             | 47,974               | 125,904            | 429,065   | 296,910                           | 721,572                            | 14,875                                       | (NA)   | (NA)                                     |
| 1958.....                                     | 157                   | 175               | 82   | 34,601            | 186,361              | 22,578             | 45,112               | 108,592            | 364,212   | 256,870                           | 642,267                            | 13,816                                       | 94   | 93                                       |
| 1957 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 48,075            | 242,191              | 34,165             | 69,964               | 156,732            | 499,091   | 357,542                           | 861,960                            | 15,997                                       | 89   | 94                                       |
| 1956 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 46,725            | 228,908              | 34,579             | 69,767               | 154,283            | 451,468   | 365,312                           | 785,126                            | 24,429                                       | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 40,066            | 190,907              | 28,493             | 59,412               | 124,764            | 380,977   | 295,897                           | 664,751                            | 17,131                                       | (NA)   | (NA)                                     |
| 1954 <sup>2</sup> .....                       | 152                   | 164               | 89   | 40,956            | 186,491              | 29,234             | 58,414               | 121,715            | 394,276   | 277,814                           | 688,447                            | 22,852                                       | 87   | 94                                       |
| 1953 <sup>1 2</sup> .....                     | (NA)                  | (NA)              | (NA)   | 45,358            | 202,003              | 33,111             | 69,013               | 136,278            | 410,783   | 301,207                           | 711,990                            | (NA)   | (NA)   | (NA)                                     |
| 1952 <sup>1 2</sup> .....                     | (NA)                  | (NA)              | (NA)   | 37,374            | 165,643              | 26,623             | 55,266               | 110,766            | 357,832   | 253,355                           | 610,968                            | (NA)   | (NA)   | (NA)                                     |
| 1951 <sup>1 2</sup> .....                     | (NA)                  | (NA)              | (NA)   | 37,335            | 152,257              | 27,170             | (NA)                 | 101,992            | 328,311   | 227,862                           | 556,173                            | (NA)   | (NA)   | (NA)                                     |
| 1950 <sup>1 2</sup> .....                     | (NA)                  | (NA)              | (NA)   | 33,363            | 119,693              | 23,912             | 49,771               | 79,006             | 242,739   | 181,212                           | 423,951                            | (NA)   | (NA)   | (NA)                                     |
| 1949 <sup>1 2</sup> .....                     | (NA)                  | (NA)              | (NA)   | 34,218            | 120,696              | 24,618             | 50,496               | 79,795             | 232,875   | 174,107                           | 406,982                            | (NA)   | (NA)   | (NA)                                     |
| 1947 <sup>2</sup> .....                       | 134                   | 144               | 85   | 36,635            | 107,978              | 28,160             | 58,568               | 78,525             | 195,102   | 162,085                           | 356,968                            | (NA)   | (NA)   | (NA)                                     |
| 1939 <sup>2</sup> .....                       | (NA)                  | 47                | (NA)   | (NA)              | (NA)                 | 9,260              | (NA)                 | 14,064             | 38,898  | 32,711                            | 71,609                             | (NA)   | (NA)   | (NA)                                     |
| INDUSTRY 3613.—SWITCHGEAR AND SWITCHBOARDS    |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |  |  |  |
| 1963.....                                     | 338                   | 400               | 214  | 54,045            | 338,860              | 38,091             | 76,910               | 204,942            | 647,838   | 452,209                           | 1,093,743                          | 18,180                                       | 87   | 89                                       |
| 1962 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 59,650            | 356,347              | 43,369             | 84,111               | 211,967            | 654,760   | 458,480                           | 1,108,404                          | 16,618                                       | (X)  | (X)                                      |
| 1961 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 57,138            | 336,346              | 41,099             | 80,988               | 197,817            | 606,624   | 430,446                           | 1,039,332                          | 15,575                                       | (X)  | (X)                                      |
| 1960 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 57,427            | 325,925              | 41,860             | 82,869               | 194,487            | 636,584   | 421,957                           | 1,038,760                          | 24,368                                       | (X)  | (X)                                      |
| 1959 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 57,132            | 319,349              | 41,726             | 82,472               | 190,224            | 638,834   | 429,478                           | 1,047,620                          | (35,459)                                     | (X)  | (X)                                      |
| 1958 <sup>3</sup> .....                       | 339                   | 402               | 203  | 52,871            | 283,152              | 36,263             | 72,769               | 170,453            | 555,044   | 375,977                           | 962,558                            | 17,820                                       | 80   | 90                                       |
| INDUSTRY 3622.—INDUSTRIAL CONTROLS            |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |  |  |  |
| 1963.....                                     | 421                   | 427               | 118  | 32,990            | 214,597              | 22,772             | 44,898               | 125,418            | 450,507   | 207,587                           | 648,683                            | 15,419                                       | 79   | 79                                       |
| 1962 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 32,870            | 205,336              | 21,814             | 43,923               | 117,850            | 414,800   | 186,531                           | 593,261                            | 16,293                                       | (X)  | (X)                                      |
| 1961 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 31,635            | 192,320              | 20,301             | 40,301               | 105,951            | 388,190   | 171,068                           | 548,283                            | 17,698                                       | (X)  | (X)                                      |
| 1960 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 30,540            | 178,963              | 19,991             | 39,547               | 101,445            | 373,243   | 162,694                           | 532,400                            | 18,424                                       | (X)  | (X)                                      |
| 1959 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 28,227            | 165,574              | 19,190             | 38,744               | 97,893             | 349,843   | 152,959                           | 496,681                            | 9,796  | (X)  | (X)                                      |
| 1958 (new SIC) <sup>2</sup> .....             | 205                   | 216               | 75   | 27,150            | 145,270              | 17,311             | 33,660               | 81,769             | 281,890   | 125,017                           | 413,163                            | 7,611  | 79   | 70                                       |
| 1958 (old SIC) <sup>2</sup> .....             | (NA)                  | 618               | 278  | 80,021            | 428,422              | 53,574             | 106,429              | 252,222            | 836,934   | 500,994                           | 1,375,721                          | 25,421                                       | (NA)   | (NA)                                     |
| 1957 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 91,465            | 475,370              | 62,811             | 126,654              | 291,826            | 972,549   | 540,089                           | 1,509,511                          | 35,618                                       | (NA)   | (NA)                                     |
| 1956 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 93,393            | 471,511              | 66,482             | 136,594              | 298,665            | 947,136   | 528,282                           | 1,416,044                          | 36,835                                       | (NA)   | (NA)                                     |
| 1955 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 79,383            | 377,826              | 56,078             | 113,437              | 235,697            | 711,250   | 394,488                           | 1,082,307                          | 31,703                                       | (NA)   | (NA)                                     |
| 1954 <sup>2</sup> .....                       | 389                   | 452               | 246  | 79,314            | 361,398              | 56,183             | 111,372              | 228,245            | 687,308   | 396,238                           | 1,096,715                          | 31,478                                       | 89   | 91                                       |
| 1953 <sup>1 2</sup> .....                     | (NA)                  | (NA)              | (NA)   | 88,393            | 399,015              | 64,038             | 133,277              | 258,917            | 775,972   | 444,938                           | 1,220,910                          | (NA)   | (NA)   | (NA)                                     |
| 1952 <sup>1 2</sup> .....                     | (NA)                  | (NA)              | (NA)   | 77,685            | 335,353              | 55,947             | 119,929              | 221,536            | 714,300   | 373,888                           | 1,088,188                          | (NA)   | (NA)   | (NA)                                     |
| 1951 <sup>1 2</sup> .....                     | (NA)                  | (NA)              | (NA)   | 75,044            | 306,808              | 54,806             | (NA)                 | 205,718            | 577,916   | 383,200                           | 961,116                            | (NA)   | (NA)   | (NA)                                     |
| 1950 <sup>1 2</sup> .....                     | (NA)                  | (NA)              | (NA)   | 65,060            | 246,105              | 48,567             | 96,977               | 155,305            | 417,333   | 291,774                           | 709,107                            | (NA)   | (NA)   | (NA)                                     |
| 1949 <sup>1 2</sup> .....                     | (NA)                  | (NA)              | (NA)   | 67,115            | 232,798              | 47,813             | 104,069              | 146,368            | 441,927   | 218,867                           | 660,794                            | (NA)   | (NA)   | (NA)                                     |
| 1947 <sup>2</sup> .....                       | (NA)                  | 321               | (NA)   | 67,461            | 204,081              | 49,690             | (NA)                 | 137,747            | 358,431   | 220,717                           | 579,148                            | (NA)   | (NA)   | (NA)                                     |
| 1939 <sup>2</sup> .....                       | (NA)                  | 217               | (NA)   | (NA)              | (NA)                 | 14,747             | (NA)                 | 20,345             | 71,830  | 39,477                            | 111,309                            | (NA)   | (NA)   | (NA)                                     |
| INDUSTRY 3621.—MOTORS AND GENERATORS          |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |  |  |  |
| 1963.....                                     | 316                   | 384               | 244  | 94,170            | 583,225              | 68,693             | 140,174              | 378,790            | 993,207   | 715,189                           | 1,709,818                          | 35,804                                       | 81   | 84                                       |
| 1962 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 93,957            | 576,039              | 67,656             | 135,665              | 361,836            | 974,834   | 697,821                           | 1,657,777                          | 34,841                                       | (X)  | (X)                                      |
| 1961 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 95,880            | 570,497              | 67,669             | 133,259              | 349,174            | 933,140   | 640,946                           | 1,567,328                          | 29,417                                       | (X)  | (X)                                      |
| 1960 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 101,653           | 581,876              | 72,324             | 141,440              | 358,916            | 966,574   | 676,106                           | 1,647,803                          | 37,204                                       | (X)  | (X)                                      |
| 1959 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 99,621            | 557,603              | 71,272             | 142,823              | 350,341            | 975,821   | 663,812                           | 1,614,704                          | 31,948                                       | (X)  | (X)                                      |
| 1958.....                                     | 317                   | 378               | 237  | 93,541            | 488,854              | 64,795             | 127,799              | 303,785            | 813,124   | 545,523                           | 1,392,573                          | 28,311                                       | 83   | 85                                       |
| 1957 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 117,268           | 592,251              | 83,318             | 163,120              | 380,583            | 1,030,290   | 687,356                           | 1,705,431                          | (S)  | 84   | 88                                       |
| 1956 <sup>1</sup> .....                       | (NA)                  | (NA)              | (NA)   | 122,875           | 601,048              | 91,421             | 180,797              | 403,014            | 1,026,739   | 722,083                           | 1,706,006                          | (S)  | (NA)   | (NA)                                     |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3621.—MOTORS AND GENERATORS—Continued   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1955 <sup>1</sup>                                | (NA)                       | (NA)              | (NA)   | 113,256           | 522,257              | 83,444             | 166,648              | 351,013            | 858,160  | 593,879                           | 1,397,038                          | (S)   | (NA)  | (NA)                                     |
| 1954 <sup>2</sup>                                | 266                        | 309               | 217  | 112,003           | 494,556              | 82,420             | 161,343              | 334,271            | 817,601  | 597,352                           | 1,453,713                          | 38,310  | 82  | 84                                       |
| 1953 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 138,315           | 621,933              | 106,418            | (NA)                 | 445,310            | 1,075,379  | 737,234                           | 1,812,613                          | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 132,307           | 576,136              | 100,060            | (NA)                 | 409,032            | 998,277  | 717,425                           | 1,715,463                          | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 122,423           | 495,012              | 93,091             | (NA)                 | 345,462            | 827,837  | 632,537                           | 1,460,374                          | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | (NA)              | (NA)                 | (NA)               | (NA)                 | (NA)               | (NA)   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | (NA)              | (NA)                 | (NA)               | (NA)                 | (NA)               | (NA)   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1947 <sup>2</sup>                                | 224                        | 253               | (NA)   | 125,300           | 368,461              | 100,966            | (NA)                 | 279,175            | 564,218  | 431,661                           | 995,640                            | (NA)  | 81  | 92                                       |
| 1939 <sup>2</sup>                                | (NA)                       | 132               | (NA)   | (NA)              | (NA)                 | 44,423             | (NA)                 | 67,376             | 159,954  | 104,242                           | 264,196                            | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3623.—ELECTRIC WELDING APPARATUS        |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963   | 133                        | 149               | 75   | 9,629             | 72,113               | 6,565              | 14,075               | 44,617             | 162,411  | 168,553                           | 330,227                            | 5,364   | 93  | 89                                       |
| 1962 <sup>1</sup>                                | (NA)                       | (NA)              | (NA)   | 10,092            | 75,179               | 6,510              | 13,782               | 40,796             | 135,546  | 171,659                           | 308,559                            | 4,727   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup>                                | (NA)                       | (NA)              | (NA)   | 10,662            | 73,266               | 6,912              | 13,848               | 38,942             | 129,534  | 163,371                           | 294,372                            | (7,546)   | (NA)  | (NA)                                     |
| 1960 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 11,003            | 76,118               | 7,305              | 14,538               | 40,733             | 142,295  | 166,516                           | 310,901                            | 4,624   | (NA)  | (NA)                                     |
| 1959 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 10,183            | 70,086               | 6,869              | 14,263               | 40,001             | 133,526  | 164,673                           | 297,379                            | 3,814   | (NA)  | (NA)                                     |
| 1958   | 123                        | 135               | 70   | 9,895             | 60,761               | 6,392              | 12,746               | 33,048             | 112,709  | 135,219                           | 247,739                            | 4,330   | 93  | 92                                       |
| 1957 <sup>1</sup>                                | (NA)                       | (NA)              | (NA)   | 10,054            | 67,922               | 6,614              | 14,517               | 38,150             | 135,732  | 159,133                           | 291,419                            | (S)   | 94  | 94                                       |
| 1956 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 10,187            | 67,796               | 6,999              | 15,488               | 39,745             | 140,904  | 153,869                           | 284,864                            | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 8,912             | 53,941               | 6,042              | 13,095               | 31,180             | 108,650  | 119,180                           | 222,423                            | (S)   | (NA)  | (NA)                                     |
| 1954 <sup>2</sup>                                | 111                        | 119               | 62   | 8,186             | 45,719               | 5,484              | 11,400               | 26,427             | 77,494   | 99,557                            | 179,945                            | 4,713   | 90  | 92                                       |
| INDUSTRY 3624.—CARBON AND GRAPHITE PRODUCTS      |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963   | 40                         | 53                | 40   | 10,123            | 61,984               | 7,963              | 16,104               | 44,068             | 141,423  | 84,758                            | 226,889                            | 11,441  | 93  | 96                                       |
| 1962 <sup>1</sup>                                | (NA)                       | (NA)              | (NA)   | 9,706             | 56,489               | 7,254              | 14,627               | 37,978             | 128,402  | 70,074                            | 196,490                            | 10,931  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup>                                | (NA)                       | (NA)              | (NA)   | 9,239             | 52,323               | 6,886              | 13,511               | 34,917             | 113,946  | 66,323                            | 182,887                            | 5,499   | (NA)  | (NA)                                     |
| 1960 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 9,602             | 52,756               | 7,275              | 14,086               | 35,835             | 120,794  | 66,721                            | 184,147                            | 7,007   | (NA)  | (NA)                                     |
| 1959 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 9,938             | 53,625               | 7,662              | 15,389               | 37,416             | 118,143  | 70,171                            | 193,120                            | (5,753)   | (NA)  | (NA)                                     |
| 1958   | 34                         | 46                | 35   | 8,904             | 45,628               | 6,620              | 13,015               | 30,551             | 102,483  | 58,990                            | 154,925                            | 11,068  | 97  | 95                                       |
| 1957 <sup>1</sup>                                | (NA)                       | (NA)              | (NA)   | 9,908             | 49,877               | 7,801              | 15,295               | 35,363             | 110,974  | 69,891                            | 179,155                            | 16,051  | 96  | 96                                       |
| 1956 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 9,999             | 47,479               | 7,989              | 16,699               | 35,887             | 109,955  | 76,059                            | 178,388                            | 10,693  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup>                                | (NA)                       | (NA)              | (NA)   | 8,701             | 38,184               | 6,939              | 13,954               | 27,765             | 88,175   | 55,716                            | 148,333                            | (S)   | (NA)  | (NA)                                     |
| 1954 <sup>2</sup>                                | 43                         | 53                | 31   | 8,297             | 35,976               | 6,352              | 12,600               | 24,190             | 64,579   | 48,712                            | 111,718                            | 6,492   | 98  | 94                                       |
| 1952 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 10,479            | 40,324               | 8,705              | (NA)                 | 31,744             | 72,282   | 71,017                            | 143,299                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 10,251            | 37,809               | 8,596              | (NA)                 | 30,198             | 73,325   | 62,301                            | 135,626                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 8,576             | 28,776               | 7,051              | (NA)                 | 21,854             | 59,387   | 41,167                            | 100,554                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 7,494             | 22,742               | 6,096              | (NA)                 | 16,895             | 43,772   | 30,479                            | 74,251                             | (NA)  | (NA)  | (NA)                                     |
| 1947 <sup>2</sup>                                | 36                         | 44                | 25   | 7,818             | 22,028               | 6,426              | 12,856               | 16,504             | 40,218   | 28,527                            | 68,745                             | (NA)  | 95  | 95                                       |
| 1939 <sup>2</sup>                                | (NA)                       | 31                | (NA)   | 4,053             | 6,675                | 3,189              | (NA)                 | 4,484              | 11,694   | 6,682                             | 18,376                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup>                                | (NA)                       | 30                | (NA)   | (NA)              | (NA)                 | 4,098              | (NA)                 | 5,776              | 14,315   | 9,075                             | 23,390                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3629.—ELECTRIC INDUSTRIAL GOODS, N.E.C. |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963   | 226                        | 231               | 109  | 14,041            | 72,988               | 10,897             | 21,043               | 47,677             | 141,633  | 100,132                           | 238,325                            | 4,003   | 80  | 72                                       |
| 1962 <sup>1</sup>                                | (NA)                       | (NA)              | (NA)   | 20,588            | 92,263               | 15,613             | 30,010               | 58,048             | 159,035  | 112,501                           | 270,812                            | 6,700   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup>                                | (NA)                       | (NA)              | (NA)   | 18,073            | 79,892               | 13,652             | 25,915               | 50,668             | 142,811  | 94,818                            | 236,321                            | 7,181   | (NA)  | (NA)                                     |
| 1960 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 19,875            | 90,988               | 15,332             | 28,540               | 55,687             | 149,942  | 112,021                           | 261,448                            | 8,249   | (NA)  | (NA)                                     |
| 1959 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 20,011            | 95,197               | 15,233             | 29,991               | 59,075             | 169,148  | 116,032                           | 282,148                            | 7,798   | (NA)  | (NA)                                     |
| 1958 (new SIO) <sup>4</sup>                      | 273                        | 286               | 111  | 16,842            | 78,595               | 11,888             | 23,619               | 47,011             | 137,547  | 93,079                            | 228,929                            | 8,467   | 71  | 73                                       |
| 1958 (old SIO) <sup>4</sup>                      | (NA)                       | 334               | 136  | 17,592            | 80,744               | 12,488             | 24,837               | 47,959             | 139,101  | 95,372                            | 231,959                            | 8,565   | (NA)  | (NA)                                     |
| 1957 <sup>1</sup>                                | (NA)                       | (NA)              | (NA)   | 22,618            | 91,013               | 16,787             | 32,831               | 54,148             | 163,357  | 119,267                           | 282,809                            | 9,874   | 82  | 60                                       |
| 1956 <sup>1</sup>                                | (NA)                       | (NA)              | (NA)   | 20,450            | 82,671               | 15,883             | 31,561               | 51,717             | 165,410  | 118,305                           | 275,354                            | 8,335   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup>                                | (NA)                       | (NA)              | (NA)   | 16,996            | 64,582               | 13,420             | 26,096               | 42,314             | 123,072  | 94,044                            | 212,848                            | 6,267   | (NA)  | (NA)                                     |
| 1954 <sup>2</sup>                                | 223                        | 235               | 97   | 14,996            | 56,361               | 11,293             | 21,988               | 36,394             | 108,637  | 73,594                            | 183,250                            | 3,717   | 81  | 64                                       |
| 1953 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 11,863            | 44,185               | 9,244              | 18,326               | 30,267             | 83,371   | 51,294                            | 134,665                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 9,660             | 37,577               | 6,780              | 13,905               | 22,066             | 69,589   | 43,747                            | 113,336                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 10,008            | 33,519               | 7,937              | 16,195               | 23,515             | 64,572   | 45,155                            | 109,727                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | 10,043            | 29,458               | 8,263              | 16,976               | 21,569             | 48,803   | 34,222                            | 83,025                             | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1 2</sup>                              | (NA)                       | (NA)              | (NA)   | (NA)              | (NA)                 | (NA)               | (NA)                 | (NA)               | (NA)   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1947 <sup>2</sup>                                | 191                        | 194               | (NA)   | 10,901            | 28,481               | 8,779              | 18,170               | 20,250             | 41,163   | 33,193                            | 74,356                             | 2,465   | (NA)  | (NA)                                     |
| 1939 <sup>2</sup>                                | (NA)                       | 39                | (NA)   | (NA)              | (NA)                 | 907                | (NA)                 | 1,181              | 3,669  | 2,555                             | 6,224                              | (NA)  | (NA)  | (NA)                                     |

See footnotes on next page.

TABLE 1. General Statistics: 1963 and Earlier Years—Continued

## Footnotes for Table 1-36A-Continued

NOTE: See introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Data for Alaska and Hawaii are not included.

<sup>3</sup>Industries 3613 and 3622 were single industry 3616 (old SIC) prior to 1958.

<sup>4</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. The 1957 and earlier figures are on the old SIC definition of the industry.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                  | 1963              |                                       |                   |                      |                    |                      |                    |                                      |                   |                    | 1958                      |                  |                                      |
|---|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3611.—ELECTRIC MEASURING INSTRUMENTS |                   |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 560               | 209                                   | 44,715            | 273,645              | 30,109             | 59,905               | 149,616            | 505,309                              | 245,417           | 749,220            | 19,207                    | 46,923           | 419,396                              |
| Northeast.....                                | 232               | 86                                    | 14,010            | 84,602               | 9,599              | 19,111               | 46,415             | 150,348                              | 71,749            | 223,248            | 5,234                     | 19,608           | 160,720                              |
| Massachusetts....                             | 35                | 11                                    | 2,520             | 17,913               | 1,398              | 2,836                | 7,309              | 31,642                               | 14,257            | 46,097             | 922                       | 5,240            | 49,541                               |
| Connecticut.....                              | 18                | 7                                     | 693               | 4,022                | 478                | 985                  | 2,195              | 5,498                                | 3,956             | 9,475              | 168                       | 518              | 4,198                                |
| New York.....                                 | 77                | 30                                    | 3,552             | 21,308               | 2,367              | 4,777                | 11,246             | 33,249                               | 20,165            | 55,461             | 1,128                     | 4,060            | 31,556                               |
| Pennsylvania....                              | 29                | 10                                    | 1,024             | 5,199                | 779                | 1,543                | 3,385              | 7,986                                | 5,030             | 13,221             | 363                       | 1,068            | 7,834                                |
| North Central.....                            | 122               | 50                                    | 10,479            | 58,880               | 7,164              | 14,017               | 32,533             | 109,123                              | 57,479            | 167,912            | 3,410                     | 11,291           | 91,730                               |
| Ohio.....                                     | 34                | 16                                    | 3,003             | 16,499               | 2,012              | 3,930                | 8,276              | 30,803                               | 17,509            | 48,155             | 744                       | 2,359            | 17,140                               |
| Illinois.....                                 | 34                | 14                                    | 4,640             | 27,247               | 3,143              | 6,215                | 15,935             | 50,629                               | 26,344            | 79,086             | 1,524                     | 4,638            | 39,032                               |
| Wisconsin.....                                | 9                 | 4                                     | 516               | 3,018                | 322                | 603                  | 1,263              | 4,248                                | 1,849             | 6,354              | 203                       | 531              | 3,694                                |
| South.....                                    | 67                | 21                                    | 4,213             | 22,387               | 2,897              | 6,037                | 12,931             | 43,059                               | 25,319            | 68,571             | 1,681                     | 2,166            | 22,294                               |
| West.....                                     | 139               | 52                                    | 16,013            | 107,776              | 10,449             | 20,740               | 57,737             | 202,779                              | 90,870            | 289,489            | 8,882                     | 13,858           | 144,652                              |
| California.....                               | 119               | 41                                    | 9,177             | 67,776               | 6,265              | 13,068               | 37,552             | 129,719                              | 57,688            | 186,946            | 3,596                     | 11,354           | 113,597                              |
| INDUSTRY 3612.—TRANSFORMERS                   |                   |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 177               | 99                                    | 33,365            | 209,514              | 23,640             | 46,873               | 129,628            | 381,514                              | 337,001           | 722,896            | 13,161                    | 34,601           | 364,212                              |
| Northeast.....                                | 55                | 29                                    | 16,468            | 113,444              | 11,060             | 22,474               | 67,199             | 175,173                              | 141,138           | 319,214            | 6,235                     | 18,973           | 202,533                              |
| New York.....                                 | 14                | 8                                     | 826               | 3,837                | 599                | 1,104                | 2,274              | 4,762                                | 4,867             | 10,018             | 214                       | 843              | 5,587                                |
| Pennsylvania....                              | 14                | 9                                     | 8,905             | 62,706               | 6,119              | 12,303               | 39,074             | 83,679                               | 79,039            | 162,971            | 2,610                     | 9,941            | 117,950                              |
| North Central.....                            | 59                | 38                                    | 11,558            | 65,166               | 8,770              | 16,632               | 43,390             | 120,752                              | 118,103           | 239,468            | 5,343                     | 11,759           | 109,416                              |
| Ohio.....                                     | 7                 | 5                                     | 1,084             | 6,645                | 851                | 1,802                | 4,742              | 14,255                               | 11,220            | 25,752             | 401                       | 1,091            | 16,085                               |
| Illinois.....                                 | 23                | 14                                    | 4,848             | 25,377               | 4,086              | 7,861                | 18,919             | 46,825                               | 47,790            | 95,438             | 990                       | 4,409            | 36,744                               |
| Wisconsin.....                                | 10                | 7                                     | 1,518             | 9,680                | 964                | 1,826                | 5,297              | 15,641                               | 10,037            | 24,754             | 698                       | 1,348            | 13,354                               |
| South Atlantic....                            | 13                | 8                                     | 2,980             | 17,404               | 2,128              | 4,478                | 10,495             | 54,693                               | 46,268            | 100,839            | 1,041                     | 3,123            | 39,098                               |
| East South Central.                           | 6                 | 5                                     | 538               | 3,039                | 374                | 750                  | 1,927              | 7,951                                | 10,972            | 19,034             | 165                       | 674              | 12,226                               |
| West South Central.                           | 8                 | 4                                     | 452               | 2,416                | 329                | 648                  | 1,369              | 5,246                                | 6,374             | 11,816             | 121                       | 674              | 12,226                               |
| West.....                                     | 36                | 15                                    | 1,369             | 8,045                | 979                | 1,891                | 5,248              | 17,699                               | 14,146            | 32,525             | 256                       | 746              | 13,165                               |
| California.....                               | 30                | 13                                    | 1,126             | 6,740                | 816                | 1,584                | 4,553              | 15,090                               | 12,654            | 28,470             | 243                       | 674              | 12,226                               |
| INDUSTRY 3613.—SWITCHGEAR AND SWITCHBOARDS    |                   |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 400               | 214                                   | 54,045            | 338,860              | 38,091             | 76,910               | 204,942            | 647,838                              | 452,209           | 1,093,743          | 18,180                    | 52,871           | 555,044                              |
| New England.....                              | 33                | 20                                    | 5,197             | 28,163               | 3,609              | 6,998                | 16,165             | 52,519                               | 42,880            | 96,067             | 1,524                     | 5,296            | 43,316                               |
| Connecticut.....                              | 13                | 8                                     | 2,515             | 14,429               | 1,688              | 3,359                | 8,215              | 28,544                               | 27,204            | 56,959             | 811                       | 2,405            | 23,356                               |
| Middle Atlantic....                           | 106               | 55                                    | 22,571            | 156,690              | 15,047             | 29,813               | 92,582             | 286,801                              | 173,328           | 457,797            | 8,291                     | 22,171           | 260,120                              |
| New York.....                                 | 43                | 24                                    | 2,945             | 16,939               | 2,215              | 4,080                | 11,185             | 33,008                               | 26,024            | 59,973             | 964                       | 2,709            | 25,653                               |
| New Jersey.....                               | 38                | 18                                    | 5,195             | 32,077               | 3,698              | 7,333                | 20,509             | 64,396                               | 31,158            | 96,449             | 2,101                     | 4,520            | 50,206                               |
| Pennsylvania....                              | 25                | 13                                    | 14,431            | 107,674              | 9,134              | 18,400               | 60,888             | 189,397                              | 116,146           | 301,375            | 5,226                     | 14,942           | 184,261                              |
| East North Central.                           | 105               | 59                                    | 12,798            | 79,567               | 9,306              | 18,851               | 49,078             | 150,857                              | 98,479            | 246,240            | 6,093                     | 13,537           | 132,269                              |
| Ohio.....                                     | 20                | 14                                    | 1,973             | 12,047               | 1,545              | 3,149                | 8,578              | 33,711                               | 21,852            | 54,166             | 780                       | 2,324            | 20,441                               |
| Indiana.....                                  | 10                | 5                                     | 1,295             | 7,245                | 961                | 1,845                | 4,651              | 10,725                               | 5,658             | 16,642             | 109                       | 1,014            | 6,988                                |
| Illinois.....                                 | 46                | 25                                    | 5,665             | 33,387               | 4,113              | 8,492                | 20,342             | 64,220                               | 38,794            | 102,452            | 3,608                     | 5,852            | 55,814                               |
| Michigan.....                                 | 20                | 9                                     | 1,562             | 10,837               | 1,152              | 2,332                | 6,833              | 15,279                               | 12,848            | 27,728             | 429                       | 2,873            | 29,078                               |
| Wisconsin.....                                | 9                 | 6                                     | 2,303             | 16,051               | 1,535              | 3,033                | 8,674              | 26,922                               | 19,327            | 45,252             | 1,167                     | 1,474            | 19,948                               |
| West North Central.                           | 18                | 13                                    | 3,866             | 20,683               | 3,221              | 7,234                | 15,199             | 44,560                               | 24,694            | 69,304             | 531                       | 3,448            | 31,479                               |
| Minnesota.....                                | 7                 | 5                                     | 498               | 2,648                | 368                | 705                  | 1,657              | 3,936                                | 3,657             | 7,688              | 123                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South.....                                    | 49                | 26                                    | 5,284             | 26,307               | 4,085              | 8,038                | 16,457             | 65,548                               | 51,617            | 116,199            | 775                       | 3,832            | 39,815                               |
| Maryland.....                                 | 6                 | 3                                     | 290               | 1,168                | 216                | 427                  | 361                | 2,287                                | 1,479             | 3,710              | 61                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Georgia.....                                  | 6                 | 6                                     | 1,291             | 6,987                | 871                | 1,795                | 3,929              | 14,306                               | 15,020            | 29,254             | 122                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Texas.....                                    | 16                | 7                                     | 518               | 3,224                | 360                | 717                  | 1,751              | 7,036                                | 12,703            | 19,753             | 116                       | 632              | 7,269                                |
| Mountain.....                                 | 11                | 4                                     | 287               | 1,540                | 219                | 446                  | 1,016              | 4,166                                | 3,878             | 7,854              | 60                        | 4,587            | 48,045                               |
| Pacific.....                                  | 78                | 37                                    | 4,042             | 25,910               | 2,604              | 5,530                | 14,445             | 43,387                               | 57,333            | 100,282            | 906                       | 4,207            | 41,846                               |
| California.....                               | 66                | 32                                    | 3,723             | 23,676               | 2,407              | 5,125                | 13,269             | 38,450                               | 50,425            | 88,363             | 866                       | 4,207            | 41,846                               |
| INDUSTRY 3621.—MOTORS AND GENERATORS          |                   |                                       |                   |                      |                    |                      |                    |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 384               | 244                                   | 94,170            | 583,225              | 68,693             | 140,174              | 378,790            | 993,207                              | 715,189           | 1,709,818          | 35,804                    | 93,541           | 813,124                              |
| New England.....                              | 18                | 13                                    | 2,982             | 17,102               | 2,050              | 4,149                | 10,790             | 29,841                               | 23,775            | 54,700             | 633                       | 3,209            | 25,089                               |
| Connecticut.....                              | 9                 | 6                                     | 1,944             | 12,279               | 1,301              | 2,678                | 7,765              | 23,810                               | 20,316            | 44,657             | 405                       | 2,212            | 19,048                               |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                   | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3621.—MOTORS AND GENERATORS—Continued |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Middle Atlantic....                            | 88             | 57                                 | 26,507         | 183,928           | 18,448             | 38,517            | 113,207         | 314,211                              | 232,358           | 546,358            | 10,435                    | 30,395           | 291,229                              |
| New York.....                                  | 38             | 23                                 | 15,319         | 113,985           | 11,387             | 23,600            | 75,293          | 184,897                              | 162,396           | 348,226            | 6,389                     | 18,472           | 181,859                              |
| New Jersey.....                                | 24             | 14                                 | 4,450          | 27,011            | 2,554              | 5,302             | 13,482          | 36,890                               | 27,588            | 65,565             | 1,217                     | 5,567            | 41,701                               |
| Pennsylvania.....                              | 26             | 20                                 | 6,738          | 42,932            | 4,507              | 9,615             | 24,432          | 92,424                               | 42,374            | 132,567            | 2,829                     | 6,356            | 67,669                               |
| East North Central.                            | 143            | 101                                | 43,765         | 274,231           | 31,951             | 64,992            | 179,007         | 453,072                              | 301,184           | 758,156            | 14,817                    | 43,814           | 364,449                              |
| Ohio.....                                      | 48             | 36                                 | 21,487         | 141,279           | 15,626             | 32,392            | 95,181          | 236,159                              | 161,302           | 404,508            | 7,983                     | 23,314           | 205,689                              |
| Indiana.....                                   | 20             | 14                                 | 8,263          | 50,257            | 6,359              | 12,423            | 34,556          | 95,096                               | 52,845            | 146,327            | 1,962                     | 7,358            | 68,936                               |
| Illinois.....                                  | 34             | 22                                 | 3,698          | 20,450            | 2,783              | 5,617             | 13,750          | 31,892                               | 25,146            | 60,620             | 1,940                     | 3,226            | 27,505                               |
| Michigan.....                                  | 18             | 13                                 | 3,645          | 19,093            | 2,942              | 6,046             | 13,475          | 25,663                               | 22,193            | 46,220             | 940                       | 2,607            | 17,291                               |
| Wisconsin.....                                 | 23             | 16                                 | 6,672          | 43,152            | 4,241              | 8,514             | 22,045          | 64,262                               | 39,698            | 100,481            | 1,992                     | 7,309            | 45,028                               |
| West North Central.                            | 22             | 15                                 | 7,233          | 43,819            | 5,564              | 11,223            | 31,471          | 62,125                               | 56,140            | 117,128            | 3,806                     | 8,970            | 71,078                               |
| Minnesota.....                                 | 9              | 6                                  | 2,320          | 15,701            | 1,615              | 3,307             | 9,780           | 26,999                               | 17,903            | 44,707             | 1,064                     | 2,129            | 21,946                               |
| South Atlantic.....                            | 18             | 12                                 | 3,218          | 13,328            | 2,299              | 4,475             | 8,072           | 23,138                               | 15,657            | 40,980             | 1,128                     | 1,125            | 8,192                                |
| Virginia.....                                  | 5              | 4                                  | 751            | 3,042             | 603                | 1,230             | 2,040           | 6,225                                | 6,169             | 11,949             | 114                       | 196              | 1,142                                |
| East South Central.                            | 10             | 8                                  | 2,380          | 8,636             | 2,205              | 4,381             | 7,315           | 29,405                               | 23,324            | 50,402             | 1,767                     | 539              | 4,183                                |
| West South Central.                            | 20             | 12                                 | 2,857          | 11,150            | 2,589              | 5,185             | 9,298           | 30,924                               | 23,067            | 52,607             | 1,189                     | 1,143            | 12,500                               |
| Arkansas.....                                  | 10             | 8                                  | 2,630          | 10,033            | 2,408              | 4,811             | 8,470           | 27,459                               | 20,507            | 46,714             | 1,074                     | 1,124            | 12,331                               |
| West.....                                      | 65             | 26                                 | 5,228          | 31,031            | 3,587              | 7,252             | 19,630          | 50,491                               | 39,684            | 89,487             | 2,029                     | 4,346            | 36,404                               |
| INDUSTRY 3622.—INDUSTRIAL CONTROLS             |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                     | 427            | 118                                | 32,990         | 214,597           | 22,772             | 44,898            | 125,418         | 450,507                              | 207,587           | 648,683            | 15,419                    | 27,150           | 281,890                              |
| New England.....                               | 43             | 16                                 | 1,997          | 11,371            | 1,245              | 2,518             | 5,629           | 23,013                               | 11,381            | 32,952             | 508                       | 1,352            | 12,754                               |
| Massachusetts.....                             | 20             | 10                                 | 993            | 5,494             | 647                | 1,252             | 2,745           | 10,616                               | 5,753             | 16,441             | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Connecticut.....                               | 20             | 4                                  | 994            | 5,826             | 591                | 1,250             | 2,849           | 12,349                               | 5,576             | 16,396             | 280                       | 637              | 6,453                                |
| Middle Atlantic....                            | 91             | 19                                 | 2,943          | 24,972            | 2,046              | 4,286             | 11,657          | 37,693                               | 30,358            | 66,340             | 559                       | 1,980            | 14,514                               |
| New York.....                                  | 46             | 8                                  | 1,775          | 17,585            | 1,380              | 2,957             | 8,440           | 25,123                               | 20,349            | 44,750             | 257                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| New Jersey.....                                | 25             | 7                                  | 523            | 2,646             | 399                | 782               | 1,819           | 3,887                                | 4,076             | 8,183              | 148                       | 177              | 1,191                                |
| Pennsylvania.....                              | 20             | 4                                  | 645            | 4,741             | 267                | 547               | 1,398           | 8,683                                | 5,933             | 13,407             | 154                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| East North Central.                            | 128            | 44                                 | 20,599         | 131,456           | 15,062             | 29,162            | 86,291          | 297,471                              | 116,144           | 409,292            | 11,974                    | 18,656           | 194,282                              |
| Ohio.....                                      | 31             | 9                                  | 2,432          | 16,907            | 1,411              | 2,767             | 8,652           | 30,177                               | 18,433            | 48,270             | 470                       | 2,508            | 23,432                               |
| Illinois.....                                  | 43             | 15                                 | 3,386          | 20,299            | 2,405              | 4,944             | 11,573          | 55,590                               | 24,650            | 80,004             | 1,512                     | 2,567            | 30,969                               |
| Wisconsin.....                                 | 19             | 8                                  | 12,635         | 81,606            | 9,893              | 18,876            | 60,021          | 191,548                              | 58,925            | 247,826            | 9,619                     | 12,143           | 131,010                              |
| West North Central.                            | 20             | 5                                  | 983            | 6,150             | 546                | 1,109             | 2,723           | 9,083                                | 6,211             | 14,815             | 133                       | 598              | 6,295                                |
| South.....                                     | 53             | 17                                 | 5,251          | 32,491            | 3,068              | 6,188             | 14,644          | 67,657                               | 34,226            | 100,733            | 1,566                     | 3,626            | 43,551                               |
| West.....                                      | 92             | 17                                 | 1,217          | 8,157             | 805                | 1,635             | 4,474           | 15,590                               | 9,267             | 24,551             | 679                       | 938              | 10,494                               |
| California.....                                | 67             | 14                                 | 1,005          | 6,853             | 664                | 1,351             | 3,694           | 13,056                               | 6,891             | 19,688             | 572                       | 753              | 8,532                                |
| INDUSTRY 3623.—ELECTRIC WELDING APPARATUS      |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                     | 149            | 75                                 | 9,629          | 72,113            | 6,565              | 14,075            | 44,617          | 162,411                              | 168,553           | 330,227            | 5,364                     | 9,895            | 112,709                              |
| Northeast.....                                 | 43             | 18                                 | 1,712          | 10,988            | 1,063              | 2,162             | 5,910           | 36,248                               | 35,244            | 71,367             | 961                       | 1,521            | 18,726                               |
| New York.....                                  | 12             | 5                                  | 379            | 2,730             | 207                | 439               | 1,074           | 10,972                               | 8,533             | 19,647             | 284                       | 347              | 3,684                                |
| Pennsylvania.....                              | 13             | 8                                  | 1,059          | 6,584             | 698                | 1,395             | 3,998           | 20,839                               | 24,240            | 44,118             | 625                       | 837              | 11,212                               |
| East North Central.                            | 67             | 42                                 | 6,357          | 51,189            | 4,425              | 9,735             | 32,952          | 105,183                              | 105,645           | 210,465            | 3,834                     | 6,506            | 76,953                               |
| Ohio.....                                      | 11             | 7                                  | 2,915          | 27,041            | 2,030              | 4,517             | 17,786          | 60,359                               | 61,684            | 122,187            | 2,560                     | 3,168            | 42,459                               |
| Michigan.....                                  | 36             | 23                                 | 1,836          | 13,666            | 1,320              | 2,902             | 8,473           | 23,348                               | 19,814            | 43,491             | 312                       | 1,742            | 18,313                               |
| Wisconsin.....                                 | 9              | 6                                  | 908            | 7,258             | 623                | 1,336             | 4,073           | 13,521                               | 18,262            | 31,742             | 627                       | 878              | 9,546                                |
| West North Central.                            | 12             | 4                                  | 320            | 1,935             | 204                | 421               | 978             | 4,087                                | 4,062             | 7,791              | 129                       | 529              | 4,698                                |
| Missouri.....                                  | 6              | 2                                  | 135            | 855               | 92                 | 192               | 461             | 1,415                                | 1,040             | 2,336              | 47                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South.....                                     | 9              | 3                                  | 546            | 3,444             | 427                | 886               | 2,387           | 7,790                                | 14,832            | 22,835             | 159                       | 530              | 4,882                                |
| West.....                                      | 17             | 7                                  | 694            | 4,557             | 446                | 871               | 2,390           | 9,103                                | 8,770             | 17,769             | 281                       | 809              | 7,450                                |
| INDUSTRY 3624.—CARBON AND GRAPHITE PRODUCTS    |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                     | 53             | 40                                 | 10,123         | 61,984            | 7,963              | 16,104            | 44,068          | 141,423                              | 84,758            | 226,889            | 11,441                    | 8,904            | 102,483                              |
| Northeast.....                                 | 27             | 18                                 | 5,099          | 30,624            | 3,988              | 8,133             | 21,635          | 55,264                               | 37,982            | 93,250             | 5,292                     | 4,744            | 44,036                               |
| New York.....                                  | 12             | 8                                  | 2,505          | 16,589            | 1,836              | 3,866             | 11,193          | 30,999                               | 24,881            | 56,425             | 2,018                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pennsylvania.....                              | 10             | 7                                  | 2,370          | 12,618            | 1,992              | 3,938             | 9,645           | 22,351                               | 10,472            | 32,584             | 3,074                     | 2,356            | 14,068                               |
| North Central,<br>South and West....           | 26             | 22                                 | 5,024          | 31,360            | 3,975              | 7,971             | 22,433          | 86,159                               | 46,776            | 133,639            | 6,149                     | 4,160            | 58,447                               |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                     | 1963           |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     | 1958                   |  |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|------------------------|--|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |                        |  |
| INDUSTRY 3629.—ELECTRIC INDUSTRIAL GOODS, N.E.C. |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| Total.....                                       | 231            | 109                                | 14,041         | 72,988            | 10,897             | 21,043            | 47,677          | 141,633  | 100,132                     | 238,325                      | 4,003                               | 16,842                 | 137,547  |
| New England.....                                 | 21             | 8                                  | 803            | 2,981             | 685                | 1,287             | 2,158           | 5,006  | 2,826                       | 7,906                        | 255                                 | 1,592                  | 9,396  |
| Massachusetts....                                | 8              | 3                                  | 224            | 859               | 189                | 339               | 673             | 1,464  | 995                         | 2,444                        | (D)                                 | 663                    | 4,009  |
| Connecticut.....                                 | 7              | 2                                  | 343            | 1,269             | 291                | 530               | 847             | 1,577  | 893                         | 2,542                        | 6                                   | (2)                    | (2)  |
| Middle Atlantic....                              | 69             | 31                                 | 4,397          | 25,832            | 3,201              | 6,230             | 16,519          | 54,941   | 33,725                      | 88,312                       | 1,247                               | 4,414                  | 38,451   |
| New York.....                                    | 37             | 14                                 | 2,300          | 13,183            | 1,669              | 3,215             | 7,994           | 25,170   | 16,452                      | 42,429                       | 606                                 | 2,239                  | 17,906   |
| New Jersey.....                                  | 18             | 9                                  | 472            | 2,274             | 364                | 704               | 1,479           | 4,472  | 3,580                       | 8,016                        | 269                                 | (2)                    | (2)  |
| Pennsylvania....                                 | 14             | 8                                  | 1,625          | 10,375            | 1,168              | 2,311             | 7,046           | 25,299   | 13,693                      | 37,867                       | 372                                 | (2)                    | (2)  |
| West North Central.                              | 14             | 7                                  | 538            | 2,631             | 441                | 848               | 1,980           | 7,221  | 5,303                       | 12,161                       | 134                                 | 602                    | 3,728  |
| Minnesota.....                                   | 9              | 5                                  | 429            | 2,096             | 359                | 699               | 1,622           | 6,192  | 4,124                       | 9,911                        | 120                                 | (2)                    | (2)  |
| All other divisions.                             | 127            | 72                                 | 8,308          | 41,544            | 6,570              | 12,678            | 27,020          | 74,465   | 58,278                      | 129,946                      | 2,367                               | 10,234                 | 85,972   |
| Illinois.....                                    | 33             | 20                                 | 1,970          | 8,700             | 1,613              | 3,089             | 5,621           | 13,655   | 13,727                      | 27,148                       | 432                                 | (2)                    | (2)  |
| Michigan.....                                    | 10             | 4                                  | 276            | 1,395             | 228                | 435               | 862             | 2,729  | 1,570                       | 4,287                        | 129                                 | 211                    | 1,082  |
| California.....                                  | 34             | 12                                 | 1,102          | 6,381             | 778                | 1,663             | 3,759           | 9,713  | 7,505                       | 17,099                       | 422                                 | (2)                    | (2)  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3611, Electric Measuring Instruments: New England—New Hampshire, 10 (1,000-2,499); Vermont, 1 (1-19); Middle Atlantic—New Jersey, 62 (3,723); East North Central—Indiana, 9 (883); Michigan, 19 (660); West North Central—Minnesota, 6 (500-999); Iowa, 5 (20-99); Missouri, 1 (100-249); Nebraska, 1 (1-19); Kansas, 4 (20-99); South Atlantic—Maryland, 9 (100-249); Virginia, 4 (20-99); North Carolina, 2 (500-999); South Carolina, 1 (500-999); Georgia, 2 (250-499); Florida, 5 (20-99); East South Central—Kentucky, 1 (1-19); Tennessee, 5 (20-99); Alabama, 4 (20-99); Mississippi, 1 (250-499); West South Central—Louisiana, 2 (1-19); Oklahoma, 6 (500-999); Texas, 25 (500-999); Mountain—Colorado, 10 (1,677); Arizona, 1 (1-19); Utah, 1 (1-19); Nevada, 1 (1-19); Pacific—Washington, 2 (250-499); Oregon, 5 (4,812).

SIC 3612, Transformers: New England—New Hampshire, 1 (1-19); Massachusetts, 5 (5,208); Rhode Island, 1 (1-19); Connecticut, 4 (100-249); Middle Atlantic—New Jersey, 16 (1,346); East North Central—Indiana, 4 (2,031); Michigan, 6 (342); West North Central—Minnesota, 2 (1-19); Missouri, 7 (1,000-2,499); South Atlantic—Maryland, 2 (1-19); Virginia, 2 (250-499); West Virginia, 1 (20-99); North Carolina, 2 (500-999); South Carolina, 1 (1-19); Georgia, 3 (1,000-2,499); Florida, 2 (100-249); East South Central—Kentucky, 1 (20-99); Alabama, 2 (250-499); Mississippi, 3 (100-249); West South Central—Arkansas, 1 (100-249); Texas, 7 (100-249); Mountain—Colorado, 1 (1-19); Arizona, 1 (1-19); Pacific—Oregon, 4 (100-249).

SIC 3613, Switchgear and Switchboards: New England—New Hampshire, 4 (250-499); Vermont, 1 (20-99); Massachusetts, 14 (2,112); Rhode Island, 1 (100-249); West North Central—Iowa, 3 (500-999); Missouri, 7 (2,503); Kansas, 1 (1-19); South Atlantic—Delaware, 1 (1-19); Virginia, 2 (20-99); West Virginia, 1 (1-19); North Carolina, 4 (500-999); Florida, 2 (20-99); East South Central—Kentucky, 5 (1,000-2,499); Tennessee, 1 (1-19); Alabama, 2 (20-99); Mississippi, 1 (1-19); West South Central—Arkansas, 1 (100-249); Louisiana, 1 (1-19); Mountain—Colorado, 5 (100-249); New Mexico, 1 (1-19); Arizona, 2 (1-19); Utah, 2 (100-249); Nevada, 2 (1-19); Pacific—Washington, 6 (100-249); Oregon, 5 (100-249); Hawaii, 1 (1-19).

SIC 3621, Motors and Generators: New England—New Hampshire, 2 (250-499); Massachusetts, 7 (500-999); West North Central—Iowa, 3 (100-249); Missouri, 8 (4,667); Nebraska, 2 (20-99); South Atlantic—Maryland, 2 (250-499); West Virginia, 1 (20-99); North Carolina, 2 (1,000-2,499); South Carolina, 2 (1,000-2,499); Florida, 6 (20-99); East South Central—Kentucky, 2 (500-999); Tennessee, 7 (1,640); Mississippi, 1 (100-249); West South Central—Louisiana, 2 (20-99); Oklahoma, 2 (100-249); Texas, 6 (20-99); Mountain—Colorado, 5 (683); New Mexico, 1 (1-19); Arizona, 3 (1-19); Nevada, 1 (1-19); Pacific—Oregon, 1 (20-99); California, 54 (4,507).

SIC 3622, Industrial Controls: New England—New Hampshire, 1 (1-19); Rhode Island, 2 (1-19); East North Central—Indiana, 3 (1,057); Michigan, 29 (1,089); West North Central—Minnesota, 7 (250-499); Iowa, 1 (1-19); Missouri, 4 (500-999); Nebraska, 1 (1-19); South Atlantic—Maryland, 6 (250-499); District of Columbia, 2 (20-99); Virginia, 2 (2,500-4,999); West Virginia, 1 (1-19); North Carolina, 2 (250-499); Georgia, 2 (20-99); Florida, 1 (20-99); East South Central—Kentucky, 2 (20-99); Tennessee, 2 (1-19); Alabama, 1 (1-19); Mississippi, 1 (1-19); West South Central—Oklahoma, 2 (250-499); Texas, 15 (250-499); Mountain—Colorado, 3 (1-19); Arizona, 2 (20-99); Utah, 2 (20-99); Nevada, 1 (1-19); Pacific—Washington, 5 (20-99); Oregon, 9 (20-99).

SIC 3623, Electric Welding Apparatus: New England—Massachusetts, 6 (20-99); Connecticut, 5 (100-249); Middle Atlantic—New Jersey, 7 (100-249); East North Central—Indiana, 1 (1-19); Illinois, 10 (500-999); West North Central—Minnesota, 6 (100-249); Kansas, 1 (20-99); South Atlantic—Maryland, 2 (250-499); Virginia, 1 (1-19); West Virginia, 1 (1-19); Florida, 1 (1-19); East South Central—Alabama, 1 (20-99); West South Central—Arkansas, 1 (1-19); Oklahoma, 2 (20-99); Mountain—Colorado, 2 (100-249); Pacific—Washington, 1 (20-99); Oregon, 1 (1-19); California, 13 (509).

SIC 3624, Carbon and Graphite Products: New England—Massachusetts, 1 (20-99); Connecticut, 2 (1-19); Middle Atlantic—New Jersey, 2 (100-249); East North Central—Ohio, 8 (1,939); Illinois, 3 (250-499); Michigan, 3 (687); Wisconsin, 2 (100-249); South Atlantic—West Virginia, 2 (100-249); North Carolina, 1 (500-999); East South Central—Tennessee, 1 (500-999); Alabama, 1 (20-99); Pacific—California, 5 (131).

SIC 3629, Electric Industrial Goods, N.E.C.: New England—Maine, 1 (100-249); New Hampshire, 2 (20-99); Rhode Island, 3 (20-99); East North Central—Ohio, 16 (1,823); Indiana, 14 (1,000-2,499); Wisconsin, 3 (250-499); West North Central—Missouri, 3 (20-99); Nebraska, 2 (1-19); South Atlantic—Virginia, 2 (20-99); West Virginia, 2 (100-249); Georgia, 2 (1-19); Florida, 1 (1-19); East South Central—Kentucky, 1 (20-99); Mississippi, 1 (20-99); West South Central—Oklahoma, 1 (1-19); Texas, 1 (250-499); Mountain—Wyoming, 1 (20-99); Colorado, 1 (1-19); Arizona, 1 (20-99); Nevada, 1 (1-19); Pacific—Washington, 2 (20-99).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.



TABLE 3. Detailed Statistics: 1963

| Item   | Electric measuring instruments (SIC 3611) | Transformers (SIC 3612) | Switchgear and switchboards (SIC 3613) | Motors and generators (SIC 3621) | Industrial controls (SIC 3622) | Electric welding apparatus (SIC 3623) | Carbon and graphite products (SIC 3624) | Electric industrial goods, n.e.c. (SIC 3629) |
|--|---|-------------------------|--|----------------------------------|--------------------------------|---------------------------------------|---|--|
| Primary product specialization ratio <sup>1</sup> .....        | .84                                       | .92                     | .87                                    | .81                              | .79                            | .93                                   | .93                                     | .80  |
| Coverage ratio <sup>2</sup> .....                              | .78                                       | .94                     | .89                                    | .84                              | .79                            | .89                                   | .96                                     | .72  |
| Establishments, total.....number..                             | 560                                       | 177                     | 400                                    | 384                              | 427                            | 149                                   | 53                                      | 231  |
| With 1 to 19 employees.....do....                              | 351                                       | 78                      | 186                                    | 140                              | 309                            | 74                                    | 13                                      | 122  |
| With 20 to 99 employees.....do....                             | 125                                       | 51                      | 120                                    | 82                               | 81                             | 50                                    | 18                                      | 75   |
| With 100 employees or more.....do....                          | 84  | 48                      | 94                                     | 162                              | 37                             | 25                                    | 22                                      | 34   |
| Proprietors and working partners.....do....                    | 150                                       | 43                      | 74                                     | 65                               | 68                             | 34                                    | 5                                       | 48   |
| All employees (average for the year).....do....                | 44,715                                    | 33,365                  | 54,045                                 | 94,170                           | 32,990                         | 9,629                                 | 10,123                                  | 14,041                                       |
| Payroll (all employees), total for year.....\$1,000..          | 273,645                                   | 209,514                 | 338,860                                | 583,225                          | 214,597                        | 72,113                                | 61,984                                  | 72,988                                       |
| Production workers:  |   |                         |  |                                  |                                |                                       |   |  |
| Average for the year.....number..                              | 30,109                                    | 23,640                  | 38,091                                 | 68,693                           | 22,772                         | 6,565                                 | 7,963                                   | 10,897                                       |
| March.....do....   | 30,489                                    | 23,479                  | 37,258                                 | 68,792                           | 22,762                         | 6,488                                 | 7,966                                   | 11,058                                       |
| May.....do....   | 29,691                                    | 23,465                  | 38,048                                 | 69,511                           | 22,659                         | 6,816                                 | 7,970                                   | 10,533                                       |
| August.....do....  | 29,843                                    | 23,861                  | 38,559                                 | 67,871                           | 22,506                         | 6,517                                 | 7,875                                   | 10,920                                       |
| November.....do....  | 30,428                                    | 23,789                  | 38,514                                 | 68,603                           | 23,159                         | 6,427                                 | 8,048                                   | 11,080                                       |
| Man-hours.....1,000..  | 59,905                                    | 46,873                  | 76,910                                 | 140,174                          | 44,898                         | 14,075                                | 16,104                                  | 21,043                                       |
| January-March.....do....                                       | 15,463                                    | 11,694                  | 18,799                                 | 35,539                           | 11,294                         | 3,464                                 | 4,044                                   | 5,188  |
| April-June.....do....  | 15,050                                    | 12,115                  | 19,435                                 | 36,033                           | 11,251                         | 3,579                                 | 4,083                                   | 5,243  |
| July-September.....do....                                      | 14,145                                    | 11,505                  | 18,975                                 | 33,127                           | 10,902                         | 3,521                                 | 3,930                                   | 5,103  |
| October-December.....do....                                    | 15,247                                    | 11,559                  | 19,701                                 | 35,475                           | 11,451                         | 3,511                                 | 4,050                                   | 5,509  |
| Wages.....\$1,000..  | 149,616                                   | 129,628                 | 204,942                                | 378,790                          | 125,418                        | 44,617                                | 44,068                                  | 47,677                                       |
| Cost of materials, etc., total.....do....                      | 245,417                                   | 337,001                 | 452,209                                | 715,189                          | 207,587                        | 168,553                               | 84,758                                  | 100,132                                      |
| Materials, parts, containers, and supplies consumed.....do.... | 217,126                                   | 324,538                 | 400,444                                | 662,068                          | 195,509                        | 150,549                               | 71,382                                  | 92,996                                       |
| Cost of resales.....do....                                     | 18,439                                    | 2,905                   | 40,941                                 | 21,844                           | 6,309                          | 12,690                                | 1,325                                   | 2,800  |
| Fuels consumed.....do....                                      | 1,039                                     | 2,397                   | 2,089                                  | 5,403                            | 1,219                          | 951                                   | 3,914                                   | 1,413  |
| Electric energy:   |   |                         |  |                                  |                                |                                       |   |  |
| Purchased:   |   |                         |  |                                  |                                |                                       |   |  |
| Quantity.....million kw.-hrs..                                 | 271                                       | 478                     | 337                                    | 862                              | 241                            | 104                                   | 1,123                                   | 97   |
| Cost.....\$1,000..   | 3,306                                     | 4,847                   | 4,320                                  | 10,090                           | 3,031                          | 1,510                                 | 7,186                                   | 1,254  |
| Generated less sold.....million kw.-hrs..                      | (D)                                       | (D)                     | (D)                                    | (D)                              | -                              | (D)                                   | (D)                                     | (D)  |
| Contract work.....\$1,000..                                    | 5,501                                     | 2,314                   | 4,415                                  | 15,780                           | 1,519                          | 2,844                                 | 951                                     | 1,669  |
| Value of shipments (including resales), total.....do....       | 749,220                                   | 722,896                 | 1,093,743                              | 1,709,818                        | 648,683                        | 330,227                               | 226,889                                 | 238,325                                      |
| Value of resales.....do....                                    | 25,827                                    | 4,595                   | 52,078                                 | 34,777                           | 9,133                          | 16,640                                | 1,870                                   | 3,900  |
| Value added by manufacture, adjusted.....do....                | 505,309                                   | 381,514                 | 647,838                                | 993,207                          | 450,507                        | 162,411                               | 141,423                                 | 141,633                                      |
| Manufacturers' inventories:                                    |   |                         |  |                                  |                                |                                       |   |  |
| Beginning of year, total.....do....                            | 176,906                                   | 140,088                 | 203,481                                | 335,091                          | 110,383                        | 56,075                                | 51,457                                  | 40,088                                       |
| Finished products.....do....                                   | 38,718                                    | 43,745                  | 52,849                                 | 85,259                           | 33,839                         | 19,963                                | 8,368                                   | 8,761  |
| Work-in-process.....do....                                     | 82,460                                    | 51,238                  | 90,778                                 | 146,936                          | 48,504                         | 14,902                                | 33,042                                  | 12,432                                       |
| Materials, supplies, fuel, etc.....do....                      | 55,728                                    | 45,105                  | 59,854                                 | 102,896                          | 28,040                         | 21,210                                | 10,047                                  | 18,895                                       |
| End of year, total.....do....                                  | 181,276                                   | 134,874                 | 210,574                                | 321,517                          | 118,887                        | 56,666                                | 50,228                                  | 42,890                                       |
| Finished products.....do....                                   | 41,917                                    | 37,902                  | 53,969                                 | 83,993                           | 31,526                         | 20,511                                | 8,062                                   | 10,368                                       |
| Work-in-process.....do....                                     | 80,882                                    | 52,700                  | 95,962                                 | 144,227                          | 60,228                         | 15,111                                | 32,640                                  | 14,265                                       |
| Materials, supplies, fuel, etc.....do....                      | 58,477                                    | 44,272                  | 60,643                                 | 93,297                           | 27,133                         | 21,044                                | 9,526                                   | 18,257                                       |
| Expenditures for plant and equipment, total.....do....         | 19,957                                    | 14,032                  | 18,847                                 | 41,890                           | 15,938                         | 5,705                                 | 11,860                                  | 4,951  |
| New, total.....do....  | 19,207                                    | 13,161                  | 18,180                                 | 35,804                           | 15,419                         | 5,364                                 | 11,441                                  | 4,003  |
| New structures and additions to plant.....do....               | 6,467                                     | 1,043                   | 5,060                                  | 3,820                            | 6,219                          | 1,382                                 | 2,367                                   | 1,156  |
| New machinery and equipment.....do....                         | 12,740                                    | 12,118                  | 13,120                                 | 31,984                           | 9,200                          | 3,982                                 | 9,074                                   | 2,847  |
| Used plant and equipment.....do....                            | 750                                       | 871                     | 667                                    | 6,086                            | 519                            | 341                                   | 419                                     | 948  |
| Selected operating ratios:                                     |   |                         |  |                                  |                                |                                       |   |  |
| Payroll/Total employment.....                                  | 6,119                                     | 6,279                   | 6,270                                  | 6,193                            | 6,505                          | 7,489                                 | 6,123                                   | 5,198  |
| Production workers/Total employment.....                       | .67                                       | .71                     | .70                                    | .73                              | .69                            | .68                                   | .79                                     | .78  |
| Man-hours/Production workers.....                              | 1,989                                     | 1,983                   | 2,019                                  | 2,041                            | 1,972                          | 2,144                                 | 2,022                                   | 1,931  |
| Production worker wages/Man-hours.....                         | 2.50                                      | 2.77                    | 2.66                                   | 2.70                             | 2.79                           | 3.17                                  | 2.73                                    | 2.27   |
| Cost of materials and payrolls/Total value of shipments.....   | .69                                       | .76                     | .73                                    | .76                              | .65                            | .73                                   | .65                                     | .73  |
| Cost of materials/Total value of shipments.....                | .33                                       | .47                     | .41                                    | .42                              | .32                            | .51                                   | .37                                     | .42  |
| Adjusted value added/Total employment.....                     | 11,300                                    | 11,435                  | 11,987                                 | 10,547                           | 13,656                         | 16,971                                | 13,970                                  | 10,087                                       |
| Salaries and wages/Adjusted value added.....                   | .54                                       | .55                     | .52                                    | .59                              | .48                            | .44                                   | .44                                     | .52  |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3611.—ELECTRIC MEASURING INSTRUMENTS |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 560                   | 193                                | 90               | 68                 | 71                 | 54                 | 45                   | 24                   | 8                    | 5                        | 2                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 44,715                | 326                                | 608              | 900                | 2,210              | 3,621              | 7,330                | 9,058                | 5,520                | 15,142                   | (D)                      |
| Payroll.....\$1,000..                         | 273,645               | 1,820                              | 3,183            | 5,264              | 12,714             | 21,589             | 43,013               | 52,342               | 32,226               | 101,494                  | (D)                      |
| Value added, adjusted.....do....              | 505,309               | 3,320                              | 4,992            | 8,859              | 22,144             | 34,899             | 78,856               | 89,619               | 72,439               | 190,181                  | (D)                      |
| Value of shipments.....do....                 | 749,220               | 5,587                              | 8,075            | 13,202             | 34,459             | 58,720             | 115,724              | 139,819              | 105,851              | 267,783                  | (D)                      |
| Capital expenditures, new...do....            | 19,207                | 1,396                              | 312              | 435                | 963                | 1,744              | 2,400                | 3,162                | 1,733                | 7,062                    | (D)                      |
| INDUSTRY 3612.—TRANSFORMERS                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 177                   | 30                                 | 25               | 23                 | 30                 | 21                 | 23                   | 7                    | 9                    | 7                        | 2                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 33,365                | 69                                 | 163              | 332                | 922                | 1,376              | 3,575                | 2,441                | 6,610                | 17,877                   | (D)                      |
| Payroll.....\$1,000..                         | 209,514               | 289                                | 817              | 1,573              | 4,135              | 7,058              | 18,671               | 13,259               | 37,820               | 125,892                  | (D)                      |
| Value added, adjusted.....do....              | 381,514               | 477                                | 1,209            | 2,072              | 8,683              | 13,300             | 39,074               | 42,494               | 64,452               | 209,753                  | (D)                      |
| Value of shipments.....do....                 | 722,896               | 892                                | 2,370            | 3,894              | 16,916             | 28,618             | 76,047               | 69,133               | 148,222              | 376,804                  | (D)                      |
| Capital expenditures, new...do....            | 13,161                | 35                                 | 68               | 87                 | 249                | 397                | 910                  | 1,305                | 3,325                | 6,785                    | (D)                      |
| INDUSTRY 3613.—SWITCHGEAR AND SWITCHBOARDS    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 400                   | 93                                 | 40               | 53                 | 78                 | 42                 | 42                   | 20                   | 20                   | 9                        | 3                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 54,045                | 168                                | 281              | 732                | 2,521              | 3,097              | 6,326                | 7,359                | 12,973               | 12,454                   | 8,134                    |
| Payroll.....\$1,000..                         | 338,860               | 946                                | 1,680            | 4,509              | 16,060             | 18,304             | 34,799               | 42,273               | 75,692               | 80,925                   | 63,672                   |
| Value added, adjusted.....do....              | 647,838               | 1,826                              | 2,929            | 7,697              | 32,772             | 36,171             | 83,398               | 84,510               | 125,803              | 176,136                  | 96,586                   |
| Value of shipments.....do....                 | 1,093,743             | 3,848                              | 6,034            | 14,346             | 69,223             | 71,430             | 151,326              | 139,497              | 227,942              | 245,285                  | 164,812                  |
| Capital expenditures, new...do....            | 18,180                | 57                                 | 68               | 226                | 849                | 1,869              | 1,267                | 1,775                | 5,035                | 3,607                    | 3,427                    |
| INDUSTRY 3621.—MOTORS AND GENERATORS          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 384                   | 72                                 | 34               | 34                 | 49                 | 33                 | 68                   | 39                   | 34                   | 17                       | 4                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 94,170                | 109                                | 237              | 498                | 1,546              | 2,260              | 11,209               | 13,563               | 23,776               | 24,940                   | 16,032                   |
| Payroll.....\$1,000..                         | 583,225               | 745                                | 1,095            | 2,409              | 7,337              | 13,062             | 58,023               | 68,955               | 138,973              | 165,899                  | 126,727                  |
| Value added, adjusted.....do....              | 993,207               | 1,160                              | 1,773            | 4,534              | 13,073             | 23,873             | 104,450              | 118,506              | 254,998              | 266,704                  | 204,136                  |
| Value of shipments.....do....                 | 1,709,818             | 2,048                              | 3,098            | 8,825              | 24,268             | 47,449             | 186,657              | 220,177              | 402,337              | 448,694                  | 366,265                  |
| Capital expenditures, new...do....            | 35,804                | 66                                 | 113              | 176                | 532                | 447                | 3,926                | 5,324                | 9,938                | 7,433                    | 7,849                    |
| INDUSTRY 3622.—INDUSTRIAL CONTROLS            |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 427                   | 174                                | 67               | 68                 | 53                 | 28                 | 15                   | 10                   | 3                    | 7                        | 2                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 32,990                | 331                                | 475              | 937                | 1,660              | 2,053              | 2,142                | 3,587                | 1,889                | 19,916                   | (D)                      |
| Payroll.....\$1,000..                         | 214,597               | 2,103                              | 2,745            | 5,480              | 9,872              | 12,669             | 13,445               | 23,326               | 11,432               | 133,525                  | (D)                      |
| Value added, adjusted.....do....              | 450,507               | 3,874                              | 4,778            | 9,796              | 18,302             | 23,768             | 21,888               | 46,261               | 25,292               | 296,548                  | (D)                      |
| Value of shipments.....do....                 | 648,683               | 6,977                              | 8,764            | 17,124             | 31,534             | 38,396             | 40,085               | 72,394               | 34,515               | 398,894                  | (D)                      |
| Capital expenditures, new...do....            | 15,419                | 120                                | 138              | 268                | 456                | 951                | 470                  | 743                  | 634                  | 11,639                   | (D)                      |
| INDUSTRY 3623.—ELECTRIC WELDING APPARATUS     |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 149                   | 35                                 | 14               | 25                 | 31                 | 19                 | 17                   | 6                    | 1                    | 1                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 9,629                 | 49                                 | 98               | 356                | 1,013              | 1,338              | 2,510                | 4,265                | (D)                  | (D)                      | -                        |
| Payroll.....\$1,000..                         | 72,113                | 327                                | 638              | 2,212              | 6,767              | 9,244              | 17,777               | 35,148               | (D)                  | (D)                      | -                        |
| Value added, adjusted.....do....              | 162,411               | 809                                | 1,207            | 4,289              | 14,408             | 17,049             | 40,227               | 84,422               | (D)                  | (D)                      | -                        |
| Value of shipments.....do....                 | 330,227               | 1,591                              | 2,100            | 9,511              | 26,832             | 38,317             | 93,886               | 157,990              | (D)                  | (D)                      | -                        |
| Capital expenditures, new...do....            | 5,364                 | 216                                | 32               | 136                | 609                | 399                | 1,322                | 2,650                | (D)                  | (D)                      | -                        |

See footnotes at end of table.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963—Continued

| Item   | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3624.—CARBON AND GRAPHITE PRODUCTS      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 53                    | 4                                  | 4                | 5                  | 12                 | 6                  | 7                    | 6                    | 9                    | -                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 10,123                | 32                                 | (D)              | 65                 | 398                | 428                | 961                  | 2,138                | 6,101                | -                        | -                        |
| Payroll.....\$1,000..                            | 61,984                | 166                                | (D)              | 371                | 2,422              | 2,833              | 4,502                | 12,908               | 38,782               | -                        | -                        |
| Value added, adjusted.....do....                 | 141,423               | 228                                | (D)              | 673                | 4,170              | 5,146              | 6,559                | 25,898               | 98,749               | -                        | -                        |
| Value of shipments.....do....                    | 226,889               | 446                                | (D)              | 861                | 5,886              | 7,617              | 10,989               | 46,678               | 154,412              | -                        | -                        |
| Capital expenditures, new.....do....             | 11,441                | 7                                  | (D)              | 25                 | 340                | 451                | 286                  | 1,061                | 9,271                | -                        | -                        |
| INDUSTRY 3629.—ELECTRIC INDUSTRIAL GOODS, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                      | 231                   | 51                                 | 27               | 44                 | 48                 | 27                 | 23                   | 6                    | 3                    | 2                        | -                        |
| All employees:                                   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                 | 14,041                | 90                                 | 185              | 626                | 1,544              | 1,928              | 3,373                | 2,024                | 4,271                | (D)                      | -                        |
| Payroll.....\$1,000..                            | 72,988                | 459                                | 952              | 3,286              | 7,522              | 8,958              | 15,799               | 9,296                | 26,716               | (D)                      | -                        |
| Value added, adjusted.....do....                 | 141,633               | 1,037                              | 1,539            | 5,976              | 13,643             | 14,354             | 31,017               | 14,582               | 59,485               | (D)                      | -                        |
| Value of shipments.....do....                    | 238,325               | 1,645                              | 2,548            | 10,898             | 23,772             | 26,318             | 52,482               | 24,018               | 96,644               | (D)                      | -                        |
| Capital expenditures, new.....do....             | 4,003                 | 54                                 | 106              | 130                | 657                | 472                | 707                  | 474                  | 1,403                | (D)                      | -                        |

- Represents zero.  
 (D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left. n.e.c. Not elsewhere classified.  
<sup>1</sup>Includes capital expenditures of approximately \$1-\$2 million for plants under construction but not in operation.  
<sup>2</sup>Includes capital expenditures of approximately \$100-\$200 thousand for plants under construction but not in operation.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|---|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |   | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |   | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |   | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3611      | Electric measuring instruments...1963.. | 749,220            | 588,425          | 112,438            | 48,357                 | 84                                   | 755,620                            | 588,425               | 167,195                  | 78                            |
|           | 1958..                                  | 673,522            | 474,548          | 163,387            | 35,587                 | 74                                   | 587,755                            | 474,548               | 113,207                  | 81                            |
| 3612      | Transformers.....1963..                 | 722,896            | 652,468          | 58,386             | 12,042                 | 92                                   | 692,204                            | 652,468               | 39,736                   | 94                            |
|           | 1958..                                  | 642,267            | 596,412          | 37,662             | 8,193                  | 94                                   | 638,307                            | 596,412               | 41,895                   | 93                            |
| 3613      | Switchgear and switchboards.....1963..  | 1,093,743          | 897,002          | 135,562            | 61,179                 | 87                                   | 1,008,480                          | 897,002               | 111,478                  | 89                            |
|           | 1958..                                  | 962,558            | 797,912          | 116,216            | 48,430                 | 80                                   | 891,371                            | 797,912               | 93,459                   | 90                            |
| 3621      | Motors and generators.....1963..        | 1,709,818          | 1,331,864        | 307,611            | 70,343                 | 81                                   | 1,578,186                          | 1,331,864             | 246,322                  | 84                            |
|           | 1958..                                  | 1,392,573          | 1,104,285        | 232,189            | 56,099                 | 83                                   | 1,291,390                          | 1,104,285             | 187,105                  | 85                            |
| 3622      | Industrial controls.....1963..          | 648,683            | 500,116          | 129,102            | 19,465                 | 79                                   | 633,277                            | 500,116               | 133,158                  | 79                            |
|           | 1958..                                  | 413,163            | 314,741          | 81,536             | 16,886                 | 79                                   | 447,294                            | 314,741               | 132,556                  | 70                            |
| 3623      | Electric welding apparatus.....1963..   | 330,227            | 287,709          | 20,402             | 22,116                 | 93                                   | 324,895                            | 287,709               | 37,186                   | 89                            |
|           | 1958..                                  | 247,739            | 215,185          | 15,298             | 17,256                 | 93                                   | 233,235                            | 215,185               | 18,050                   | 92                            |
| 3624      | Carbon and graphite products.....1963.. | 226,889            | 208,671          | 16,047             | 2,171                  | 93                                   | 217,817                            | 208,671               | 9,146                    | 96                            |
|           | 1958..                                  | 154,925            | 149,467          | 4,452              | 1,006                  | 97                                   | 156,818                            | 149,467               | 7,351                    | 95                            |
| 3629      | Electric industrial goods, n.e.c.1963.. | 238,325            | 180,350          | 45,913             | 12,062                 | 80                                   | 250,474                            | 180,350               | 70,124                   | 72                            |
|           | 1958..                                  | 228,929            | 155,951          | 63,291             | 9,687                  | 71                                   | 213,073                            | 155,951               | 57,122                   | 73                            |

Note: See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars except for ranges (shown in parentheses) which are expressed in millions of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous

receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                        | Class of products and miscellaneous receipts   | All industries | Electric measuring instruments (SIC 3611) | Other industries |
|---|--|----------------|---|------------------|
| ELECTRIC MEASURING INSTRUMENTS INDUSTRY |  |                |   |                  |
|   | Total shipments and receipts of the industry.....  | (X)            | 749,220                                   | (X)              |
|   | Primary products.....  | 755,620        | 588,425                                   | 167,195          |
| 36111                                   | Integrating instruments, electrical.....   | 93,250         | 89,630                                    | 3,620            |
| 36112                                   | Test equipment for testing electrical, radio, and communication circuits, and motors.....                          | 433,407        | 340,204                                   | 103,203          |
| 36113                                   | Other electrical measuring instruments.....  | 204,728        | 144,771                                   | 59,957           |
| 36110                                   | Electrical measuring instruments, n.s.k.....   | 14,235         | 13,820                                    | 415              |
|   | Secondary products.....  | (X)            | 112,438                                   | (X)              |
| 36220                                   | General industry power circuit devices and controls.....   | (X)            | 4,256                                     | (X)              |
| 36513                                   | Recorders, audio amplifiers, phonographs, tuners, speaker systems, and other audio equipment and accessories.....  | (X)            | 2,362                                     | (X)              |
| 36626                                   | Electronic military, industrial, and commercial equipment, n.e.c.....  | (X)            | 10,318                                    | (X)              |
| 36795                                   | Other electronic components and accessories, n.e.c., including parts for electron tubes (except glass blanks)..... | (X)            | 18,375                                    | (X)              |
| 38112                                   | Laboratory and scientific instruments.....   | (X)            | 9,330                                     | (X)              |
| 38213                                   | Industrial process instruments.....  | (X)            | 5,651                                     | (X)              |
| 38216                                   | Other mechanical measuring and controlling instruments.....  | (X)            | 2,013                                     | (X)              |
|   | All other secondary products.....  | (X)            | 60,133                                    | (X)              |
| 35711                                   | Electronic data processing machines, and associated equipment, except typewriters.....                             | (X)            | (over 2)                                  | (X)              |
| 36292                                   | Rectifying apparatus.....  | (X)            | (2-5)                                     | (X)              |
| 36622                                   | Radio and television broadcast equipment, and closed circuit systems.....  | (X)            | (2-5)                                     | (X)              |
| 36625                                   | Electronic search and detection apparatus, including radar, infrared and sonar.....                                | (X)            | (10-20)                                   | (X)              |
| 36794                                   | Coils, transformers, reactors, and chokes for electronic applications.....   | (X)            | (2-5)                                     | (X)              |
| 36930                                   | X-ray equipment, including X-ray tubes and electro-therapeutic apparatus.....                                      | (X)            | (5-10)                                    | (X)              |
| 38111                                   | Aircraft, flight, nautical, and navigational instruments and automatic pilots.....                                 | (X)            | (2-5)                                     | (X)              |
| 38311                                   | Optical instruments and lenses, except sighting and fire control equipment.....                                    | (X)            | (over 2)                                  | (X)              |
|   | Miscellaneous receipts.....  | (X)            | 48,357                                    | (X)              |
|   | Resales.....   | (X)            | 25,827                                    | (X)              |
|   | Contract work.....   | (X)            | 3,403                                     | (X)              |
|   | Receipts for research and developmental work.....  | (X)            | 3,043                                     | (X)              |
|   | Receipts for repair work.....  | (X)            | 6,085                                     | (X)              |
|   | All other scrap and refuse.....  | (X)            | 184                                       | (X)              |
|   | All other miscellaneous receipts.....  | (X)            | 9,815                                     | (X)              |
|   | Listing of other industries with over \$2 million shipments of each primary product class:                         |                |   |                  |
| 36111                                   | 3613 Switchgear and switch boards.....   | (X)            | (X)                                       | (over 2)         |
| 36112                                   | 1941 Sighting and fire control equipment.....  | (X)            | (X)                                       | (10-20)          |
|   | 3636 Sewing machines.....  | (X)            | (X)                                       | (over 2)         |
|   | 3651 Radio and TV receiving sets.....  | (X)            | (X)                                       | 4,059            |
|   | 3661 Telephone; telegraph apparatus.....   | (X)            | (X)                                       | (over 2)         |
|   | 3662 Radio, TV communications equipment.....   | (X)            | (X)                                       | 30,760           |
|   | 3679 Electronic components, n.e.c.....   | (X)            | (X)                                       | 4,599            |
|   | 3821 Mechanical measuring devices.....   | (X)            | (X)                                       | 4,932            |
|   | 3861 Photographic equipment.....   | (X)            | (X)                                       | 2,059            |
| 36113                                   | 3612 Transformers.....   | (X)            | (X)                                       | 10,173           |
|   | 3613 Switchgear and switchboards.....  | (X)            | (X)                                       | (over 2)         |
|   | 3662 Radio, TV communications equipment.....   | (X)            | (X)                                       | 2,348            |
|   | 3679 Electronic components, n.e.c.....   | (X)            | (X)                                       | 9,662            |
|   | 3821 Mechanical measuring devices.....   | (X)            | (X)                                       | 16,991           |
|   | 3822 Automatic temperature controls.....   | (X)            | (X)                                       | (5-10)           |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963—Continued

| Prod. class code                     | Class of products and miscellaneous receipts   | All industries | Transformers (SIC 3612)                | Other industries |
|--------------------------------------|--|----------------|--|------------------|
| TRANSFORMERS INDUSTRY                |  |                |  |                  |
|                                      | Total shipments and receipts of the industry.....  | (X)            | 722,896                                | (X)              |
|                                      | Primary products.....  | 692,204        | 652,468                                | 39,736           |
| 36121                                | Specialty transformers and fluorescent ballasts, except parts.....   | 163,008        | 147,644                                | 15,364           |
| 36122                                | Power and distribution transformers, except parts.....   | 434,476        | 416,705                                | 17,771           |
| 36123                                | Power regulators, boosters, and reactors, other transformers, and transformer parts.....                                 | 90,282         | 83,715                                 | 6,567            |
| 36120                                | Transformers, n.s.k.....   | 4,438          | 4,404                                  | 34               |
|                                      | Secondary products.....  | (X)            | 58,386                                 | (X)              |
| 36113                                | Other electrical measuring instruments.....  | (X)            | 10,173                                 | (X)              |
| 36794                                | Coils, transformers, reactors, and chokes for electronic applications.....   | (X)            | 4,384                                  | (X)              |
|                                      | All other secondary products.....  | (X)            | 43,829                                 | (X)              |
| 33577                                | Magnet wire.....   | (X)            | (over 2)                               | (X)              |
| 36131                                | Switchgear, including power switchgear assemblies and other switching and interrupting devices 2300 volts and over.....  | (X)            | (5-10)                                 | (X)              |
| 36292                                | Rectifying apparatus.....  | (X)            | (5-10)                                 | (X)              |
| 36430                                | Current carrying wiring devices, including lightning rods.....   | (X)            | (over 2)                               | (X)              |
| 36441                                | Pole line and transmission hardware.....   | (X)            | (over 2)                               | (X)              |
| 36795                                | Other electronic components and accessories, n.e.c., including parts for electron tubes (except glass blanks).....       | (X)            | (2-5)                                  | (X)              |
|                                      | Miscellaneous receipts.....  | (X)            | 12,042                                 | (X)              |
|                                      | Resales.....   | (X)            | 4,595                                  | (X)              |
|                                      | Copper and copper-base alloy production scrap.....   | (X)            | 2,338                                  | (X)              |
|                                      | All other scrap and refuse.....  | (X)            | 2,518                                  | (X)              |
|                                      | All other miscellaneous receipts.....  | (X)            | 2,591                                  | (X)              |
|                                      | Listing of other industries with over \$2 million shipments of each primary product class:                               |                |  |                  |
| 36121                                | 3642 Lighting fixtures.....  | (X)            | (X)                                    | 5,510            |
|                                      | 3679 Electronic components, n.e.c.....   | (X)            | (X)                                    | (over 2)         |
|                                      | 3699 Electrical products, n.e.c.....   | (X)            | (X)                                    | (over 2)         |
| 36122                                | 1999 Ordnance and accessories, n.e.c.....  | (X)            | (X)                                    | (over 2)         |
|                                      | 3613 Switchgear and switchboards.....  | (X)            | (X)                                    | (over 2)         |
| 36123                                | 3621 Motors and generators.....  | (X)            | (X)                                    | (2-5)            |
|                                      |  | All industries | Switchgear and switchboards (SIC 3613) | Other industries |
| SWITCHGEAR AND SWITCHBOARDS INDUSTRY |  |                |  |                  |
|                                      | Total shipments and receipts of the industry.....  | (X)            | 1,093,743                              | (X)              |
|                                      | Primary products.....  | 1,008,480      | 897,002                                | 111,478          |
| 36131                                | Switchgear, including power switchgear assemblies and other switching and interrupting devices, 2300 volts and over..... | 437,168        | 372,704                                | 64,464           |
| 36132                                | Circuit breakers.....  | 208,882        | 197,483                                | 11,399           |
| 36133                                | Low voltage panelboards and distribution boards and other switching and interrupting devices, 750 volts and under.....   | 304,214        | 273,143                                | 31,071           |
| 36134                                | Fuses and fuse equipment under 2300 volts (except power distribution cut-outs).....                                      | 41,935         | 37,782                                 | 4,153            |
| 36130                                | Switchgear and switchboards, n.s.k.....  | 16,281         | 15,890                                 | 391              |
|                                      | Secondary products.....  | (X)            | 135,562                                | (X)              |
| 36220                                | General industry power circuit devices and controls.....   | (X)            | 66,679                                 | (X)              |
| 36430                                | Current carrying wiring devices, including lightning rods.....   | (X)            | 5,824                                  | (X)              |
| 36442                                | Electrical conduit and conduit fittings.....   | (X)            | 5,799                                  | (X)              |
|                                      | Other secondary products.....  | (X)            | 57,260                                 | (X)              |
| 36111                                | Integrating instruments, electrical.....   | (X)            | (over 2)                               | (X)              |
| 36113                                | Other electrical measuring instruments.....  | (X)            | (over 2)                               | (X)              |
| 36122                                | Power and distribution transformers, except parts.....   | (X)            | (over 2)                               | (X)              |
| 36292                                | Rectifying apparatus.....  | (X)            | (over 2)                               | (X)              |
| 36623                                | Intercommunication equipment (except telephone and telegraph) and electric alarm and signal systems and devices.....     | (X)            | (2-5)                                  | (X)              |
| 38216                                | Other mechanical measuring and controlling instruments.....  | (X)            | (2-5)                                  | (X)              |
|                                      | Miscellaneous receipts.....  | (X)            | 61,179                                 | (X)              |
|                                      | Contract work.....   | (X)            | 2,565                                  | (X)              |
|                                      | Resales.....   | (X)            | 52,078                                 | (X)              |
|                                      | Other.....   | (X)            | 6,536                                  | (X)              |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code   | Class of products and miscellaneous receipts   | All industries | Switchgear and switchboards (SIC 3613) | Other industries |
|--|--|----------------|--|------------------|
| SWITCHGEAR AND SWITCHBOARDS INDUSTRY—Continued   |  |                |  |                  |
| Listing of other industries with over \$2 million shipments of each primary product class: |  |                |  |                  |
| 36131  | 1999 Ordnance and accessories, n.e.c.....  | (X)            | (X)                                    | (over 2)         |
|  | 3612 Transformers.....   | (X)            | (X)                                    | (5-10)           |
|  | 3622 Industrial controls.....  | (X)            | (X)                                    | 22,752           |
|  | 3629 Electric industrial goods, n.e.c.....   | (X)            | (X)                                    | (2-5)            |
|  | 3643 Current carrying devices.....   | (X)            | (X)                                    | (2-5)            |
|  | 3644 Noncurrent carrying devices.....  | (X)            | (X)                                    | (5-10)           |
|  | 3661 Telephone; telegraph apparatus.....   | (X)            | (X)                                    | (over 2)         |
|  | 3679 Electronic components, n.e.c.....   | (X)            | (X)                                    | 3,691            |
| 36132  | 3629 Electric industrial goods, n.e.c.....   | (X)            | (X)                                    | (2-5)            |
|  | 3822 Automatic temperature controls.....   | (X)            | (X)                                    | (2-5)            |
| 36133  | 3621 Motors and generators.....  | (X)            | (X)                                    | 2,955            |
|  | 3622 Industrial controls.....  | (X)            | (X)                                    | 5,220            |
|  | 3643 Current carrying devices.....   | (X)            | (X)                                    | 7,040            |
|  | 3662 Radio, TV communications equipment.....   | (X)            | (X)                                    | 5,032            |
| 36134  | 3643 Noncurrent carrying devices.....  | (X)            | (X)                                    | (over 2)         |
|  |  | All industries | Motors and generators (SIC 3621)       | Other industries |
| MOTORS AND GENERATORS INDUSTRY   |  |                |  |                  |
| Total receipts and shipments of the industry.....  |  | (X)            | 1,709,818                              | (X)              |
| Primary products.....  |  | 1,578,186      | 1,331,864                              | 246,322          |
| 36211  | Fractional horsepower motors.....  | 620,265        | 565,744                                | 54,521           |
| 36212  | Integral horsepower motors and generators, except land transportation.....   | 380,244        | 350,450                                | 29,794           |
| 36213  | Land transportation motors, generators, and control equipment and parts.....   | 89,823         | 77,859                                 | 116,597          |
| 36214  | Prime mover generator sets, except steam or hydraulic turbine.....   | 104,633        |  |                  |
| 36215  | Motor generator sets and other rotating equipment.....   | 246,226        | 225,390                                | 20,836           |
| 36216  | Parts and supplies for motors, generators, and motor generator sets, except land transportation                                    | 127,593        | 103,137                                | 24,456           |
| 36210  | Motors and generators, n.s.k.....  | 9,402          | 9,284                                  | 118              |
| Secondary products.....  |  | (X)            | 307,611                                | (X)              |
| 35611  | Industrial pumps, except hydraulic fluid power.....  | (X)            | 6,944                                  | (X)              |
| 35662  | Speed changers, industrial high speed drives, and gears.....   | (X)            | 21,568                                 | (X)              |
| 36133  | Low voltage panelboards and distribution boards and switching and interrupting devices 750 volts and under.....                    | (X)            | 2,955                                  | (X)              |
| 36220  | General industry power circuit devices and controls.....   | (X)            | 4,887                                  | (X)              |
| 36343  | Other small household electric appliances.....   | (X)            | 3,124                                  | (X)              |
| 38111  | Aircraft, flight, nautical, and navigational instruments and automatic pilots.....   | (X)            | 6,827                                  | (X)              |
| Other secondary products.....  |  | (X)            | 261,306                                | (X)              |
| 19291  | Ammunition over 30 mm (or 1.18 inches and over), n.e.c.....  | (X)            | (over 2)                               | (X)              |
| 33577  | Magnet wire.....   | (X)            | (20-50)                                | (X)              |
| 34331  | Oil burners, residential and industrial, (sold separately), except parts.....  | (X)            | (over 2)                               | (X)              |
| 34332  | Warm air furnaces (except floor and wall), except parts.....   | (X)            | (over 2)                               | (X)              |
| 35111  | Steam, gas, and hydraulic turbine generator sets units and parts.....  | (X)            | (over 2)                               | (X)              |
| 35112  | Steam, gas, and hydraulic turbine and parts; steam engines and parts.....  | (X)            | (10-20)                                | (X)              |
| 35191  | Gasoline engines, except outboard, aircraft, and automotive engines.....   | (X)            | (2-5)                                  | (X)              |
| 35195  | Outboard motors.....   | (X)            | (over 2)                               | (X)              |
| 35361  | Hoists.....  | (X)            | (2-5)                                  | (X)              |
| 35532  | Woodworking machinery (designed primarily for home workshops, garages, and service shops) (excluding power-driven hand tools)..... | (X)            | (over 2)                               | (X)              |
| 35616  | Parts and attachments for pumps, air and gas compressors, and pumping equipment.....   | (X)            | (5-10)                                 | (X)              |
| 35641  | Industrial fans and blowers.....   | (X)            | (5-10)                                 | (X)              |
| 35690  | General industry machinery, n.e.c.....   | (X)            | (10-20)                                | (X)              |
| 36123  | Power regulators, boosters, and reactors, other transformers and transformer parts.....  | (X)            | (2-5)                                  | (X)              |
| 36231  | Arc welding machines, components, and accessories, except electrodes.....  | (X)            | (5-10)                                 | (X)              |
| 36240  | Carbon and graphite products.....  | (X)            | (over 2)                               | (X)              |
| 36292  | Rectifying apparatus.....  | (X)            | (2-5)                                  | (X)              |
| 36293  | Other electrical equipment for industrial use.....   | (X)            | (5-10)                                 | (X)              |
| 36341  | Electric fans, except industrial types.....  | (X)            | (2-5)                                  | (X)              |
| 36626  | Electronic, military, industrial, and commercial equipment, n.e.c.....   | (X)            | (2-5)                                  | (X)              |
| 36942  | Battery charging generators.....   | (X)            | (10-20)                                | (X)              |
| 36943  | Cranking motors.....   | (X)            | (2-5)                                  | (X)              |
| 36945  | Other complete electrical equipment for internal combustion engines.....   | (X)            | (2-5)                                  | (X)              |
| 37175  | Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufacturers.....                          | (X)            | (over 2)                               | (X)              |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963—Continued

| Prod. class code   | Class of products and miscellaneous receipts  | All industries | Motors and generators (SIC 3621) | Other industries |
|--|---|----------------|----------------------------------|------------------|
| MOTORS AND GENERATORS INDUSTRY—Continued   |   |                |                                  |                  |
| Secondary products—Continued   |   |                |                                  |                  |
| Other secondary products—Continued   |   |                |                                  |                  |
| 37224  | Aircraft engine parts and accessories.....  | (X)            | (over 2)                         | (X)              |
| 37291  | Other aircraft parts and auxiliary equipment.....   | (X)            | (10-29)                          | (X)              |
| 37293  | Research and development on aircraft parts.....   | (X)            | (2-5)                            | (X)              |
|  | Miscellaneous receipts.....   | (X)            | 70,343                           | (X)              |
|  | Contract work.....  | (X)            | 5,425                            | (X)              |
|  | Resales.....  | (X)            | 34,777                           | (X)              |
|  | Iron and steel scrap.....   | (X)            | 4,433                            | (X)              |
|  | Copper and copper-base alloy scrap.....   | (X)            | 1,916                            | (X)              |
|  | Aluminum and aluminum-base alloy scrap.....   | (X)            | 364                              | (X)              |
|  | All other scrap and refuse.....   | (X)            | 1,149                            | (X)              |
|  | Receipts for repair work.....   | (X)            | 13,987                           | (X)              |
|  | Other miscellaneous receipts.....   | (X)            | 8,292                            | (X)              |
| Listing of other industries with over \$2 million shipments of each primary product class: |   |                |                                  |                  |
| 36211  | 3548 Metalworking machinery, n.e.c.....   | (X)            | (X)                              | 6,808            |
|  | 3679 Electronic components, n.e.c.....  | (X)            | (X)                              | 4,696            |
|  | 3821 Mechanical measuring devices.....  | (X)            | (X)                              | (over 2)         |
|  | 3871 Watches and clocks.....  | (X)            | (X)                              | 7,231            |
| 36212  | 1999 Ordnance and accessories, n.e.c.....   | (X)            | (X)                              | (over 2)         |
|  | 3511 Steam engines and turbines.....  | (X)            | (X)                              | (over 2)         |
| 36213 and 36214  | 3519 Internal combustion engines.....   | (X)            | (X)                              | 38,023           |
|  | 3532 Mining machinery and equipment.....  | (X)            | (X)                              | (over 2)         |
|  | 3561 Pumps and compressors.....   | (X)            | (X)                              | (2-5)            |
|  | 3613 Switchgear and switchboards.....   | (X)            | (X)                              | (over 2)         |
|  | 3642 Lighting fixtures.....   | (X)            | (X)                              | (over 2)         |
|  | 3741 Locomotives and parts.....   | (X)            | (X)                              | (over 2)         |
| 36215  | 3511 Steam engines and turbines.....  | (X)            | (X)                              | (over 2)         |
|  | 3662 Radio, TV communication equipment.....   | (X)            | (X)                              | 4,688            |
|  | 3811 Scientific instruments.....  | (X)            | (X)                              | (2-5)            |
|  | 3822 Automatic temperature controls.....  | (X)            | (X)                              | (over 2)         |
| 36216  | 3351 Copper rolling and drawing.....  | (X)            | (X)                              | (2-5)            |
|  | 3511 Steam engines and turbines.....  | (X)            | (X)                              | (2-5)            |
|  | 3623 Electric welding apparatus.....  | (X)            | (X)                              | (over 2)         |
|  | 2634 Electric housewares and fans.....  | (X)            | (X)                              | (over 2)         |
|  | 3694 Engines electrical equipment.....  | (X)            | (X)                              | (2-5)            |
|  |   | All industries | Industrial controls (SIC 3622)   | Other industries |
| INDUSTRIAL CONTROLS INDUSTRY   |   |                |                                  |                  |
|  | Total shipments and receipts of the industry.....   | (X)            | 648,683                          | (X)              |
| 36220  | General industrial power circuit devices and controls.....  | 633,274        | 500,116                          | 133,158          |
|  | Secondary products.....   | (X)            | 129,102                          | (X)              |
| 36131  | Switchgear, including power switchgear assemblies and other switching and interrupting devices 2300 volts and over..... | (X)            | 22,752                           | (X)              |
| 36133  | Low voltage panelboards and distribution boards and switching and interrupting devices 750 volts and under.....         | (X)            | 5,220                            | (X)              |
| 36293  | Other electrical equipment for industrial use.....  | (X)            | 3,575                            | (X)              |
| 36793  | Resistors for electronic applications.....  | (X)            | 57,201                           | (X)              |
|  | Other secondary products.....   | (X)            | 40,354                           | (X)              |
| 35552  | Other printing trades machinery, including parts and attachments.....   | (X)            | (over 2)                         | (X)              |
| 36430  | Current carrying wiring devices, including lightning rods.....  | (X)            | (5-10)                           | (X)              |
| 36945  | Other complete electrical equipment for internal combustion engines.....  | (X)            | (5-10)                           | (X)              |
| 38220  | Automatic temperature controls.....   | (X)            | (2-5)                            | (X)              |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code   | Class of products and miscellaneous receipts   | All industries | Industrial controls (SIC 3622) | Other industries |
|--|--|----------------|--------------------------------|------------------|
| INDUSTRIAL CONTROLS INDUSTRY—Continued   |  |                |                                |                  |
|  | Miscellaneous receipts.....  | (X)            | 19,465                         | (X)              |
|  | Contract work.....   | (X)            | 990                            | (X)              |
|  | Resales.....   | (X)            | 9,133                          | (X)              |
|  | Other miscellaneous receipts.....  | (X)            | 9,342                          | (X)              |
| Listing of other industries with over \$2 million shipments of industrial controls:        |  |                |                                |                  |
| 36220  | 1999 Ordnance and accessories, n.e.c.....  | (X)            | (X)                            | (over 2)         |
|  | 3494 Valves and pipe fittings.....   | (X)            | (X)                            | (5-10)           |
|  | 3611 Electric measuring instruments.....   | (X)            | (X)                            | 4,256            |
|  | 3613 Switchgear and switchboards.....  | (X)            | (X)                            | 66,679           |
|  | 3621 Motors and generators.....  | (X)            | (X)                            | 4,887            |
|  | 3643 Current carrying devices.....   | (X)            | (X)                            | (10-20)          |
|  | 3661 Telephone; telegraph apparatus.....   | (X)            | (X)                            | (over 2)         |
|  | 3662 Radio, TV communications equipment.....   | (X)            | (X)                            | 5,540            |
|  | 3679 Electronic components, n.e.c.....   | (X)            | (X)                            | 2,410            |
|  | 3822 Automatic temperature controls.....   | (X)            | (X)                            | 13,375           |
| ELECTRIC WELDING APPARATUS INDUSTRY  |  |                |                                |                  |
|  | Total shipments and receipts of the industry.....  | (X)            | 330,227                        | (X)              |
|  | Primary products.....  | 324,895        | 287,709                        | 37,186           |
| 36231  | Arc welding machines, components, and accessories, except electrodes.....                            | 104,508        | 87,259                         | 17,249           |
| 36232  | Arc welding electrodes, metal.....   | 148,328        | 139,499                        | 8,829            |
| 36232  | Resistance welders, components, accessories, and electrodes.....                                     | 68,300         | 57,192                         | 11,108           |
| 36230  | Electric welding apparatus, n.s.k.....   | 3,759          | 3,759                          |                  |
|  | Secondary products.....  | (X)            | 20,402                         | (X)              |
| 28993  | Essential oils, fireworks, and pyrotechnics, and chemicals and chemical preparations, n.e.c..        | (X)            | (5-10)                         | (X)              |
| 36216  | Parts and supplies for motors, generators, and motor generator sets, except land transportation..... | (X)            | (over 2)                       | (X)              |
|  | Miscellaneous receipts.....  | (X)            | 22,116                         | (X)              |
|  | Contract work.....   | (X)            | 1,546                          | (X)              |
|  | Resales.....   | (X)            | 16,640                         | (X)              |
|  | Other miscellaneous receipts.....  | (X)            | 3,930                          | (X)              |
| Listing of other industries with over \$2 million shipments of each primary product class: |  |                |                                |                  |
| 36231  | 3621 Motors and generators.....  | (X)            | (X)                            | (5-10)           |
|  | 3723 Aircraft propellers.....  | (X)            | (X)                            | (over 2)         |
| 36232  | 3312 Blast furnaces and steel mills.....   | (X)            | (X)                            | (over 2)         |
|  | 3351 Copper rolling and drawing.....   | (X)            | (X)                            | (over 2)         |
|  | 3356 Rolling and drawing, n.e.c.....   | (X)            | (X)                            | (over 2)         |
| 36233  | 3694 Engine electrical equipment.....  | (X)            | (X)                            | (over 2)         |
|  | 3717 Motor vehicles and parts.....   | (X)            | (X)                            | (over 2)         |
| CARBON AND GRAPHITE PRODUCTS INDUSTRY  |  |                |                                |                  |
|  | Total shipments and receipts of the industry.....  | (X)            | 226,889                        | (X)              |
|  | Primary products.....  | 217,817        | 208,671                        | 9,146            |
| 36240  | Carbon and graphite products.....  | 217,817        | 208,671                        | 9,146            |
|  | Secondary products.....  | (X)            | 16,047                         | (X)              |
| 32970  | Nonclay refractories, except dead-burned magnesia.....   | (X)            | (over 2)                       | (X)              |
| 35990  | Carburetors, pistons and other machine shop products.....  | (X)            | (over 2)                       | (X)              |
| 36793  | Resistors for electronic applications.....   | (X)            | (2-5)                          | (X)              |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code                                | Class of products and miscellaneous receipts  | All industries | Carbon and graphite products (SIC 3624)      | Other industries |
|---|---|----------------|--|------------------|
| CARBON AND GRAPHITE PRODUCTS INDUSTRY—Continued |   |                |  |                  |
|   | Miscellaneous receipts.....   | (X)            | 2,171  | (X)              |
|   | Contract work.....  | (X)            | 198  | (X)              |
|   | Resales.....  | (X)            | 1,870  | (X)              |
|   | Other miscellaneous receipts.....   | (X)            | 103  | (X)              |
| 36240   | Listing of other industries with over \$2 million shipments carbon and graphite products:                                 |                |  |                  |
|   | 3621 Motors and generators.....   | (X)            | (X)  | (over 2)         |
|   | 3694 Engine electrical equipment.....   | (X)            | (X)  | (2-5)            |
|   |   | All industries | Electric industrial goods, n.e.c. (SIC 3629) | Other industries |
| ELECTRIC INDUSTRIAL GOODS, N.E.C., INDUSTRY     |   |                |  |                  |
|   | Total shipments and receipts of the industry.....   | (X)            | 238,325                                      | (X)              |
|   | Primary products.....   | 250,474        | 180,350                                      | 70,124           |
| 36291   | Capacitors for industrial use (except for electronic applications).....   | 51,430         | 38,951                                       | 12,479           |
| 36292   | Rectifying apparatus.....   | 86,898         | 49,956                                       | 36,942           |
| 32693   | Other electrical equipment for industrial use.....  | 103,681        | 83,127                                       | 20,554           |
| 36290   | Electric industrial goods, n.s.k.....   | 8,465          | 8,316  | 149              |
|   | Secondary products.....   | (X)            | 45,913                                       | (X)              |
| 36794   | Coils, transformers, reactors, and chokes for electronic applications.....  | (X)            | 2,132  | (X)              |
|   | All other secondary products.....   | (X)            | 43,781                                       | (X)              |
| 36131   | Switchgear, including power switchgear assemblies and other switching and interrupting devices, 2,300 volts and over..... | (X)            | (2-5)  | (X)              |
| 36132   | Circuit breakers.....   | (X)            | (2-5)  | (X)              |
| 36311   | Electric household ranges and ovens and surface cooking unit equipment and parts (except small appliances).....           | (X)            | (over 2)                                     | (X)              |
| 36344   | Parts and attachments for small household electric appliances.....  | (X)            | (over 2)                                     | (X)              |
| 36430   | Current carrying wiring devices, including lightning rods.....  | (X)            | (2-5)  | (X)              |
| 36792   | Capacitors for electronic applications.....   | (X)            | (2-5)  | (X)              |
|   | Miscellaneous receipts.....   | (X)            | 12,062                                       | (X)              |
|   | Contract work.....  | (X)            | 490  | (X)              |
|   | Resales.....  | (X)            | 3,900  | (X)              |
|   | Other miscellaneous receipts.....   | (X)            | 7,672  | (X)              |
| 36291   | Listing of other industries with over \$2 million shipments of each primary product class:                                |                |  |                  |
|   | 3642 Lighting fixtures.....   | (X)            | (X)  | (over 2)         |
|   | 3679 Electronic components, n.e.c.....  | (X)            | (X)  | (5-10)           |
| 36292   | 3611 Electric measuring instruments.....  | (X)            | (X)  | (2-5)            |
|   | 3612 Transformers.....  | (X)            | (X)  | (5-10)           |
|   | 3613 Switchgear and switchboards.....   | (X)            | (X)  | (over 2)         |
|   | 3621 Motors and generators.....   | (X)            | (X)  | (2-5)            |
|   | 3661 Telephone; telegraph apparatus.....  | (X)            | (X)  | (over 2)         |
| 36293   | 3621 Motors and generators.....   | (X)            | (X)  | (5-10)           |
|   | 3622 Industrial controls.....   | (X)            | (X)  | 3,575            |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.





TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Total shipments including interplant transfers              |   |  |   |
|--------------|---|---|---|--|---|
|              |   | 1963  |   | 1958   |   |
|              |   | Quantity  | Value (\$1,000)                                     | Quantity                                       | Value (\$1,000)                                     |
| 3612- --     | POWER, DISTRIBUTION, AND SPECIALTY TRANSFORMERS--Continued  |   |   |  |   |
| 36123 --     | Power regulators, boosters, and reactors, other transformers, and transformer parts--Continued                      |   |   |  |   |
| 36123 82     | Tripping transformers (current and potential):  |   |   |  |   |
| 36123 84     | 5 KVA and under.....  | }   | 3,086   | } 97,008                                       | 8,569   |
| 36123 00     | Over 5 KVA.....   |   |   |  |   |
| 36123 00     | Transformer parts and supplies, power regulators, boosters, and reactors, n.s.k.....                                | (X)   |   | (X)  | 4,521   |
| 36120 00     | Transformers, n.s.k.....  | (X)   | 4,438   | (X)  | 5,976   |
|              |   | Value of shipments including interplant transfers (\$1,000) |   |  |   |
|              |   | 1963  |   | 1958   |   |
| 3613- --     | SWITCHGEAR AND SWITCHBOARD APPARATUS, TOTAL.....  |   | 1,008,480   |  | 891,371   |
|              | Switchgear including power switchgear assemblies and other switching and interrupting devices 2,300 volts and over: |   |   |  |   |
| 36131 00     | As reported in the census of manufactures.....  |   | 437,168   |  | 419,932   |
|              | As reported on Census Annual Form MA-36A (see table 6A.3).....  |   | 416,950   |  | (X)   |
| 36132 00     | Circuit breakers:   |   |   |  |   |
|              | As reported in the census of manufactures.....  |   | 208,882   |  | 200,990   |
|              | As reported on Census Annual Form MA-36A (see table 6A.3).....  |   | 211,629   |  | (X)   |
| 36133 00     | Low voltage panelboards and distribution boards and other switching and interrupting devices 750 volts and under:   |   |   |  |   |
|              | As reported in the census of manufactures.....  |   | 304,214   |  | 224,223   |
|              | As reported on Census Annual Form MA-36A (see table 6A.3).....  |   | 282,435   |  | (X)   |
| 36134 00     | Fuses and fuse equipment under 2,300 volts (except power distribution cutouts):                                     |   |   |  |   |
|              | As reported in the census of manufactures.....  |   | 41,935  |  | 30,675  |
|              | As reported on Census Annual Form MA-36A (see table 6A.3).....  |   | 39,972  |  | (X)   |
| 36130 00     | Switchgear and switchboard apparatus, n.s.k.....  |   | 16,281  |  | 15,551  |
|              |   | Value of shipments (\$1,000)                                |   |  |   |
|              |   | 1963  |   | 1958   |   |
|              |   | Total shipments including interplant transfers              | Shipments to other companies (commercial shipments) | Total shipments including interplant transfers | Shipments to other companies (commercial shipments) |
| 3621- --     | MOTORS AND GENERATORS, TOTAL.....   | 1,578,186   | 1,365,251   | 1,291,390                                      | 1,155,700   |
| 36211 00     | Fractional horsepower motors:   |   |   |  |   |
|              | As reported in the census of manufactures.....  | 620,265   | 472,957   | 435,820  | 365,226   |
|              | As reported on Census Annual Form MA-36H (see table 6A.4 and 5).....  | 592,363   | 442,800   | (X)  | (X)   |
| 36212 00     | Integral horsepower motors and generators:  |   |   |  |   |
|              | As reported in the census of manufactures.....  | 380,244   | 346,534   | 430,458  | 394,398   |
|              | As reported on Census Annual Form MA-36H (see table 6A.4 and 5).....  | 363,497   | 329,825   | (X)  | (X)   |
| 36213 00     | Land transportation motors, generators, and control equipment and parts:  |   |   |  |   |
|              | As reported in the census of manufactures.....  | 89,823  | 85,376  | 52,367   | 52,367  |
|              | As reported on Census Annual Form MA-36H (see table 6A.4 and 5).....  | 89,468  | 85,550  | (X)  | (X)   |
| 36214 00     | Prime mover generator sets, except steam or hydraulic turbine:  |   |   |  |   |
|              | As reported in the census of manufactures.....  | 104,633   | 104,633   | 73,865   | (3)   |
|              | As reported on Census Annual Form MA-36H (see table 6A.4 and 5).....  | 102,694   | 102,669   | (X)  | (X)   |
| 36215 00     | Motor-generator sets and other rotating equipment:  |   |   |  |   |
|              | As reported in the census of manufactures.....  | 246,226   | 218,756   | 164,057  | (4)   |
|              | As reported on Census Annual Form MA-36H (see table 6A.4 and 5).....  | 239,111   | 211,313   | (X)  | (X)   |
| 36216 11     | Parts and supplies for motors, generators, and motor-generator sets, except for land transportation equipment.....  | 127,593   | 127,593   | 108,881  | 107,648   |
| 36210 00     | Motors, generators and generator sets, n.s.k.....   | 9,402   | 9,402   | 25,942   | 25,942  |
|              |   | Value of shipments including interplant transfers (\$1,000) |   |  |   |
|              |   | 1963  |   | 1958   |   |
| 3622- --     | INDUSTRIAL CONTROLS, TOTAL.....   |   | 633,274   |  | 447,297   |
|              | Industrial controls:  |   |   |  |   |
|              | As reported in the census of manufactures.....  |   | 633,274   |  | 447,297   |
|              | As reported on Census Annual Form M36A (see table 6A.6).....  |   | 594,913   |  | (X)   |

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

|          | Product  | Unit of measure | Total shipments including interplant transfers              |                 |          |                 |
|----------|--|-----------------|---|-----------------|----------|-----------------|
|          |  |                 | 1963  |                 | 1958     |                 |
|          |  |                 | Quantity  | Value (\$1,000) | Quantity | Value (\$1,000) |
| 3623- -- | ELECTRIC WELDING APPARATUS, TOTAL.....   |                 | (X)   | 324,895         | (X)      | 233,235         |
| 36231 -- | Arc welding machines, components, and accessories, except electrodes.....  |                 | (X)   | 104,508         | (X)      | 65,797          |
|          | Arc welding machines:  |                 |   |                 |          |                 |
|          | Alternating current transformer arc welders:   |                 |   |                 |          |                 |
| 36231 11 | 180 amp. and below.....  | Number.....     | 72,508  | 7,771           | 64,824   | 7,314           |
| 36231 15 | Over 180 amp.....  | ..do.....       | 55,103  | 9,482           | (NA)     | 4,739           |
|          | Direct current arc welders:  |                 |   |                 |          |                 |
| 36231 31 | Generators only.....   | ..do.....       | 7,809   | 3,884           | (NA)     | 1,788           |
| 36231 32 | Rectifier types, including a.c.-d.c.....   | ..do.....       | 16,117  | 12,592          | 8,443    | 7,191           |
|          | Complete units only:   |                 |   |                 |          |                 |
| 36231 33 | Engine driven.....   | ..do.....       |   |                 |          |                 |
| 36231 35 | Motor driven.....  | ..do.....       | 34,604  | 30,529          | 23,125   | 14,072          |
| 36231 98 | Accessories for arc welding machinery (including electrode holders, ground clamps, arc torches, automatic welding heads, semi-automatic welding guns, standard positioners, etc., but excluding welding rods).....   |                 | (X)   | 36,524          | (X)      | 21,512          |
| 36231 00 | Arc welding machines, components, and electrodes, n.s.k.....   |                 | (X)   | 3,726           | (X)      | 3,502           |
| 36232 -- | Arc welding electrodes, metal.....   |                 | (X)   | 148,328         | (X)      | 116,438         |
|          | Cut lengths:   |                 |   |                 |          |                 |
| 36232 11 | Mild steel.....  | 1,000 lbs...    | 465,106   | 68,827          | 390,363  | 58,556          |
| 36232 23 | Low alloy steel, except hard surfacing.....  | ..do.....       | 42,795  | 12,888          | 28,559   | 6,442           |
| 36232 25 | Stainless steel (chromium 4 percent or more).....  | ..do.....       | 13,827  | 17,770          | 13,794   | 16,573          |
| 36232 31 | Nonferrous, except hard surfacing.....   | ..do.....       | 9,483   | 10,264          | 3,301    | 6,482           |
| 36232 41 | Hard surfacing, all types (including tool steel).....  | ..do.....       | 15,082  | 15,880          | 16,272   | 14,622          |
| 36232 53 | Coils and spools, all metals, for automatic arc welding and inert gas shielded arc welding (including electrodes for submerged arc welding).....   | ..do.....       | 98,566  | 22,492          | 67,273   | 12,275          |
| 36232 00 | Metal arc welding electrodes, n.s.k.....   |                 | (X)   | 207             | (X)      | 1,488           |
| 36233 -- | Resistance welders, components, accessories and electrodes.....  |                 | (X)   | 68,300          | (X)      | 47,760          |
| 36233 11 | Spot welders (including single electrode, multi-electrode, and gun types).....   | Number.....     | 8,502   | 20,380          | 4,887    | 10,834          |
| 36233 21 | Projection welders.....  | ..do.....       | 430   | 3,440           | 332      | 2,622           |
| 36233 31 | Seam welders.....  | ..do.....       | 172   | 4,151           | 450      | 3,727           |
| 36233 41 | Flash, upset and butt welders.....   | ..do.....       | 942   | 3,033           | 569      | 1,776           |
| 36233 51 | Other resistance welders.....  | ..do.....       | (X)   | 15,442          | (X)      | 8,335           |
| 36233 61 | Resistance welder transformers (sold separately).....  | Number.....     | 7,757   | 2,251           | 4,521    | 1,039           |
| 36233 71 | Resistance welder electrodes.....  | 1,000 lbs...    | 1,732   | 4,252           | 2,824    | 5,293           |
| 36233 81 | Resistance welder accessories, including electrode holders, etc.....   |                 | (X)   | 12,448          | (X)      | 9,176           |
| 36233 00 | Resistance welders, parts, components, accessories and electrodes, n.s.k.....  |                 | (X)   | 2,903           | (X)      | 4,958           |
| 36230 00 | Electric welding apparatus, n.s.k.....   |                 | (X)   | 3,759           | (X)      | 3,240           |
|          |  |                 | Value of shipments including interplant transfers (\$1,000) |                 |          |                 |
|          |  |                 | 1963  |                 | 1958     |                 |
| 3624- -- | CARBON AND GRAPHITE PRODUCTS, TOTAL.....   |                 | 217,817   |                 | 156,818  |                 |
|          | Contacts and brush plates (carbon, carbon-graphite, electro-graphite, graphite, metal graphite, and metal impregnated):  |                 |   |                 |          |                 |
| 36240 11 | Automotive (starter and generator) brushes, including replacement brushes (automotive and light truck type - 6 to 12 volts, inclusive, excluding automobile accessory brushes).....  |                 | 11,419  |                 | 7,804    |                 |
| 36240 13 | Other fractional horsepower brushes and contacts, including replacement brushes (brushes 1/4 square inch or less in cross section for 1-1/2 inches long or less) and automobile accessory brushes.....   |                 | 7,187   |                 | 5,997    |                 |
| 36240 15 | Other industrial brushes and contacts (brushes over 1/4 square inch in cross section and over 1-1/2 inches long).....  |                 | 18,834  |                 | 15,139   |                 |
| 36240 17 | Brush plates.....  |                 | 1,930   |                 | 2,239    |                 |
|          | Electrodes (carbon, carbon graphite, electro-graphite, graphite, metal graphite, and metal impregnated):   |                 |   |                 |          |                 |
|          | Electrodes for electric furnaces and electrolytic cell use, including paste for self-bake electrodes:  |                 |   |                 |          |                 |
| 36240 52 | Carbon.....  |                 | 25,175  |                 | 75,343   |                 |
| 36240 56 | Graphite.....  |                 | 78,424  |                 |          |                 |
|          | All other carbon and graphite products:  |                 |   |                 |          |                 |
| 36240 81 | For electrical uses, including welding products -- rods, plates, paste brazing and soldering tips; illuminating carbons; pile and rheostat resistance discs, plugs, plates and rods; power tube and rectifier parts and plates or rods; spectroscopic products; battery; electronic graphite; telephone components; resistance elements; etc., excluding silver or other metal contacts..... |                 | 25,971  |                 | 17,302   |                 |
| 36240 83 | For mechanical uses, including one-piece seals, bushings and bearings, packing rings for steam seal, rotor vanes, etc., excluding metallic oilless bearings.....   |                 | 11,743  |                 | 6,725    |                 |
| 36240 86 | For aerospace uses, including unmachined stock and machined items.....   |                 | 35,950  |                 | 25,358   |                 |
| 36240 87 | For nuclear uses, including unmachined stock and machined parts for use in nuclear reactors and for in processing nuclear materials.....   |                 |   |                 |          |                 |
| 36240 89 | For all other uses, including chemical, metallurgical, refractory, etc.....  |                 |   |                 |          |                 |
| 36240 00 | Carbon and graphite products, n.s.k.....   |                 | 1,184   |                 | 911      |                 |

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure | Total shipments including interplant transfers |                  |          |                 |
|--------------|--|-----------------|--|------------------|----------|-----------------|
|              |  |                 | 1963   |                  | 1958     |                 |
|              |  |                 | Quantity                                       | Value (\$1,000)  | Quantity | Value (\$1,000) |
| 3629--       | ELECTRICAL INDUSTRIAL APPARATUS, N.E.C., TOTAL.....  |                 | (X)  | 250,474          | (X)      | 213,073         |
| 36291--      | Capacitors for industrial use (except for electronic applicators).....   |                 | (X)  | 51,430           | (X)      | 57,122          |
| 36291 11     | Power capacitors, including shunt and series capacitors and accessories.....   |                 | (X)  | 22,202           | (X)      | 22,635          |
| 36291 31     | A.c. capacitors (except electrolytic):   |                 |  |                  |          |                 |
|              | General purpose for motors, controls, etc.....   | 1,000 units...  | 6,118  | 14,351           | 4,813    | 11,506          |
| 36291 35     | Capacitors for fluorescent lamp ballasts.....  | ...do.....      | 18,351   | 12,120           | 15,251   | 13,399          |
| 36291 98     | Other capacitors, except for electronic applications.....  |                 | (X)  | 2,757            | (X)      | 9,582           |
| 36292--      | Rectifying apparatus.....  |                 | (X)  | 86,898           | (X)      | 73,072          |
|              | Rectifying (power conversion) apparatus (except for electronic applications) including all apparatus using semiconductors and/or electron tubes as power conversion means: |                 |  |                  |          |                 |
|              | Semiconductor power conversion apparatus:  |                 |  |                  |          |                 |
|              | Semiconductor battery chargers:  |                 |  |                  |          |                 |
| 36292 21     | Automotive.....  | No. of units..  | 758,601  | 16,436           | (NA)     | 5,924           |
| 36292 25     | Industrial and railroad.....   | ...do.....      | 182,250  | 9,646            | (NA)     | 8,639           |
| 36292 31     | Semiconductor computer supplies.....   |                 | (X)  | ( <sup>5</sup> ) | (X)      | 9,339           |
|              | Semiconductor high-voltage power supplies in excess of 2kv. (excluding separate associated apparatus such as controls, capacitors, switch gear, etc.):                     |                 |  |                  |          |                 |
| 36292 41     | 100 kw. and below.....   |                 | }  | (X)              | (X)      | 6,221           |
| 36292 45     | Above 100 kw.....  |                 |  |                  |          |                 |
| 36292 49     | All other a.c. to d.c. semiconductor power conversion apparatus.....   |                 | (X)  | 19,128           | (X)      | 7,767           |
| 36292 51     | Power mercury arc rectifiers.....  |                 | (X)  | 10,971           | (X)      | 11,456          |
| 36292 98     | Other rectifying (power conversion) apparatus.....   |                 | (X)  | 20,737           | (X)      | 22,328          |
| 36292 00     | Rectifying apparatus, n.s.k.....   |                 | (X)  | 1,452            | (X)      | 1,398           |
| 36293--      | Other electrical equipment for industrial use.....   |                 | (X)  | 103,681          | (X)      | 77,064          |
| 36293 11     | Coil windings, electrical.....   | 1,000 units...  | 20,026   | 45,572           | (NA)     | 39,977          |
| 36293 98     | Other miscellaneous electrical equipment for industrial use, n.e.c.....  |                 | (X)  | 58,109           | (X)      | 37,087          |
| 36290 00     | Electrical industrial apparatus, n.s.k.....  |                 | (X)  | 8,465            | (X)      | 5,815           |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>See Current Industrial Reports Series M360, Fluorescent Lamp Ballasts, for more detailed product data.

<sup>2</sup>Included with code 3612198 to avoid disclosing operations of individual companies.

<sup>3</sup>Represents over 95 percent of the total value of shipments.

<sup>4</sup>Represents between 80 and 90 percent of total value of shipments.

<sup>5</sup>Data for product code 3629231 in 1963 are included with 3629251 to prevent disclosing figures for individual companies.



TABLE 6A-2. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product  | Total shipments including interplant transfers |                    |             |                    |
|--------------|--|--|--------------------|-------------|--------------------|
|              |  | 1963   |                    | 1958        |                    |
|              |  | Quantity                                       | Value<br>(\$1,000) | Quantity    | Value<br>(\$1,000) |
| 36111 --     | Integrating instruments, electrical, total.....  | (X)  | 89,219             | (X)         | 88,809             |
|              | A.c. watt-hour meters:   |  |                    |             |                    |
|              | Single phase:  |  |                    |             |                    |
| 36111 10     | Detachable types.....  | 2,762,273                                      | 42,349             | } 2,620,000 | } 41,051           |
| 36111 12     | Base types.....  | (X)  | (1)                |             |                    |
| 36111 13     | House types.....   | (X)  | (1)                |             |                    |
| 36111 14     | Switchboard types.....   | (X)  | (1)                |             |                    |
| 36111 15     | Polyphase.....   | 235,038  | 8,363              | 174,000     | 8,094              |
| 36111 33     | Combined watt-hour and demand meters, single phase and polyphase, and combined watt-hour and time switch meters.....   | 173,765  | 12,511             | 168,000     | 9,278              |
| 36111 41     | Demand meters (including kw. and kv.-a.).....  | 22,931   | 2,733              | 69,000      | 1,821              |
| 36111 51     | Other electrical integrating meters, including d.c. watt-hour meters, ampere-hour meters, and other miscellaneous integrating instruments not included in the above classifications..... | 50,634   | 13,228             | (X)         | 12,124             |
| 36111 61     | Parts for integrating meters, electrical type (including meter mounting and test equipment), sold separately.....  | (X)  | 20,035             | (X)         | 14,593             |
| 36111 00     | Integrating instruments, electrical, n.s.k.....  | -  | -                  | (X)         | 1,848              |
| 36112 --     | Test, measuring, and analyzing equipment for electronic and electrical circuits and equipment, total.....  | (X)  | 427,248            | (X)         | 341,883            |
|              | Voltage, current, and resistance measuring equipment (except multimeters):   |  |                    |             |                    |
|              | Electronic:  |  |                    |             |                    |
| 36112 20     | Digital.....   | (X)  | 26,390             | } 22,389    | } 22,389           |
| 36112 21     | Analog.....  | (X)  | 18,889             |             |                    |
| 36112 22     | Electrical (service-type equipment).....   | (X)  | 3,821              |             |                    |
| 36112 23     | Multimeters:   | (X)  | 7,794              |             |                    |
| 36112 24     | Electronic.....  | (X)  | 2,714              |             |                    |
|              | Power and energy measuring equipment:  |  |                    |             |                    |
|              | Electronic:  |  |                    |             |                    |
| 36112 25     | Analog.....  | (X)  | 3,753              | } 1,814     | } 1,814            |
| 36112 26     | Digital.....   | (X)  | 1,814              |             |                    |
| 36112 27     | Electrical power measuring equipment.....  | (X)  | 1,814              |             |                    |
|              | Frequency measuring equipment:   |  |                    |             |                    |
|              | Frequency meters, electronic:  |  |                    |             |                    |
| 36112 67     | 890 Megacycles and above.....  | 5,526  | 1,839              | } (X)       | } 18,391           |
| 36112 68     | Other.....   | 16,765   | 17,733             |             |                    |
| 36112 69     | Frequency meters, electrical and mechanical.....   | 47,901   | 3,524              |             |                    |
|              | Waveform measuring and/or analyzing equipment:   |  |                    |             |                    |
|              | Oscilloscopes and plug-in accessories:   |  |                    |             |                    |
| 36112 12     | Under 10 mc.....   | (X)  | 16,164             | } (X)       | } 34,901           |
| 36112 13     | 10 mc. and over.....   | (X)  | 53,864             |             |                    |
| 36112 14     | Oscillographs (low frequency).....   | (X)  | 15,500             | (X)         | 7,488              |
| 36112 16     | Other waveform measuring and analyzing equipment.....  | (X)  | 15,500             |             |                    |
|              | Signal generating equipment:   |  |                    |             |                    |
| 36112 56     | Audio.....   | (X)  | 11,540             | } (X)       | } 31,605           |
| 36112 58     | RF (over 20 kc. to 890 megacycles).....  | (X)  | 16,484             |             |                    |
| 36112 59     | Microwave (890 megacycles and above).....  | (X)  | 11,136             |             |                    |
| 36112 39     | Analyzers for testing characteristics of internal combustion engines...  | (X)  | 27,479             | (X)         | 14,042             |

See footnotes at end of table.

TABLE 6A-2. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product  | Total shipments including interplant transfers |                 |          |                 |
|--------------|--|--|-----------------|----------|-----------------|
|              |  | 1963   |                 | 1958     |                 |
|              |  | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 36112 --     | Test, measuring, and analyzing equipment for electronic and electrical circuits and equipment--Continued   |  |                 |          |                 |
|              | Field strength and intensity measuring equipment (including RFI measuring equipment):  |  |                 |          |                 |
| 36112 91     | Electronic.....  | (X)  | 7,400           | }        |                 |
| 36112 92     | Electrical field measuring equipment.....  | (X)  | 235             |          |                 |
|              | Impedance and standing wave ratio measuring equipment (transfer function measuring equipment):   |  |                 |          |                 |
| 36112 93     | Electronic impedance and related measuring equipment.....  | (X)  | 6,346           | }        |                 |
| 36112 94     | Standing wave measuring equipment (slotted lines, sliding shorts, reflectometers, and other SWR equipment).....  | (X)  | 5,620           |          |                 |
| 36112 96     | Time measuring and counting equipment, electronic (electronic chronoscopes and chronometers, range calibrators, time interval measuring equipment, etc.).....  | (X)  | 10,426          | }        |                 |
| 36112 97     | X - Y plotters, electronic.....  | (X)  | 9,063           |          |                 |
| 36112 99     | X - Y plotters, other than electronic.....   | (X)  | 9,063           |          |                 |
|              | Multifunction test and measuring equipment:  |  |                 |          |                 |
| 36112 44     | Combination and/or group test sets.....  | (X)  | 16,390          | }        | (X) 190,687     |
|              | Component part test sets:  |  |                 |          |                 |
| 36112 45     | Electron tube test equipment.....  | (X)  | 7,760           |          |                 |
| 36112 46     | Semiconductor test equipment.....  | (X)  | 5,939           |          |                 |
| 36112 47     | Other component part test sets and equipment.....  | (X)  | 4,506           |          |                 |
| 36112 48     | Equipment and subassembly test equipment, n.e.c.....   | (X)  | 46,574          |          |                 |
|              | Standards and calibration equipment for test and measuring equipment (excluding laboratory types):   |  |                 |          |                 |
| 36112 71     | Electronic.....  | (X)  | 7,373           | }        |                 |
| 36112 73     | Electrical.....  | (X)  | 5,640           |          |                 |
| 36112 52     | Microwave test equipment, n.e.c. (890 megacycles and above).....   | (X)  | 13,603          | }        |                 |
| 36112 82     | Associated devices for electronic and electrical test and measuring equipment (electronic component parts, connectors, filters, etc., are collected as part of Current Industrial Reports, Series M36N).....   | (X)  | 13,839          |          |                 |
| 36112 98     | Other test measuring and analyzing equipment for electronic and electrical circuits and equipment.....   | (X)  | 26,096          |          |                 |
| 36112000     | Test, measuring, and analyzing equipment for electronic and electrical circuits and equipment, n.s.k.....  | -  | -               | (X)      | 22,380          |
| 36113 --     | Other electrical measuring instruments, total.....   | (X)  | 191,039         | (X)      | 140,053         |
|              | Electrical indicating instruments, defined as instruments wherein a pointer is made to move over a calibrated scale, such movement being effected by the action of the electrical current and/or voltage (panel type instruments, including aircraft types, but excluding instruments for use on motor vehicles, which are capable of accuracies within + or - 2% of full scale indication, but including + or - 3% miniaturized instruments and rectifier instruments, and can be enclosed in a case suitable for mounting on a panel, and which are an end product.) |  |                 |          |                 |
|              | Panel types other than ruggedized or sealed (generally of 2% accuracy not exceeding 4.5" flange diameter):   |  |                 |          |                 |
| 36113 12     | A.c. (including moving iron vane and dynamometer types).....   | 366,989  | 4,568           | }        | 2,378,000       |
| 36113 13     | D.c. (including rectifier and thermocouple types).....   | 1,468,638                                      | 16,316          |          |                 |
|              | Panel types ruggedized or sealed (generally of 2% accuracy not exceeding 4.5" flange diameter):  |  |                 |          |                 |
| 36113 14     | A.c. (including moving iron vane and dynamometer types).....   | 116,405  | 1,424           | }        |                 |
| 36113 15     | D.c. (including rectifier and thermocouple types).....   | 607,003  | 6,446           |          |                 |
|              | Panel types with control or signal initiating means (including instrument relays):   |  |                 |          |                 |
| 36113 16     | Indicating.....  | 121,005  | 10,067          | }        | (X) 17,388      |
| 36113 17     | Nonindicating.....   |  |                 |          |                 |
| 36113 18     | All other panel type instruments.....  | 81,332   | 4,247           |          |                 |
|              | Switchboard instruments, which are generally of accuracies within + or - 1% of full scale indication, and can be enclosed in a case suitable for mounting on a panel, and which are an end product, and are magnetically shielded, and are 4 inches or larger in size:   |  |                 |          |                 |
| 36113 23     | A.c. (including moving iron vane and dynamometer types).....   | 52,296   | 3,918           | }        | 104,000         |
| 36113 25     | D.c. (including rectifier and thermocouple types).....   | 61,132   | 3,157           |          |                 |

See footnotes at end of table.



TABLE 6A-2. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product  | Total shipments including interplant transfers |                    |           |                    |
|--------------|--|--|--------------------|-----------|--------------------|
|              |  | 1963   |                    | 1958      |                    |
|              |  | Quantity                                       | Value<br>(\$1,000) | Quantity  | Value<br>(\$1,000) |
| 36113 --     | Other electrical measuring instruments--Continued  |  |                    |           |                    |
|              | Portable instruments, which are generally capable of accuracies within + or - 2% full scale indication, and can be enclosed in a case so that they can be moved and used at various locations, and which are an end product: |  |                    |           |                    |
|              | Portable types (accuracy rating 0.11% thru 0.50%):   |  |                    |           |                    |
| 36113 32     | A.c. (current and voltage, including moving iron vane and dynamometer).....  | 10,919   | 1,527              |           |                    |
| 36113 33     | D.c. (current and voltage).....  | 10,896   | 1,216              |           |                    |
| 36113 34     | All other (including watt, var, PF, phase angle, etc.).....  | (NA)   | 170                |           |                    |
| 36113 36     | Portable types (accuracy rating 0.51% thru 2%):  |  |                    | (X)       | 3,377              |
|              | A.c. (current and voltage, including moving iron vane and dynamometer).....  | 7,730  | 477                |           |                    |
| 36113 37     | D.c. (current and voltage).....  | 7,284  | 453                |           |                    |
| 36113 38     | All other (including watt, var, PF, phase angle, etc.).....  | 1,324  | 305                |           |                    |
| 36113 35     | Laboratory portable instruments, with accuracies within + or - 1% up to 1/10% of full scale and better, all case sizes.....  | 9,583  | 2,639              | (X)       | 4,904              |
|              | Self balancing:  |  |                    |           |                    |
| 36113 63     | Indicating, noncontrolling.....  | (X)  | 6,186              | (X)       | 13,838             |
| 36113 64     | Indicating, with electrical control.....   |  |                    |           |                    |
| 36113 65     | Indicating, with pneumatic control.....  |  |                    |           |                    |
| 36113 45     | Other electrical indicating instruments, except motor vehicle and test equipment.....  |  |                    |           |                    |
|              | Electrical recording instruments (portable and for panel mounting not including control types):  |  |                    |           |                    |
|              | Direct deflecting (direct acting), except potentiometer, self or oscillographic types:   |  |                    |           |                    |
| 36113 60     | A.c.....   | 5,983  | 1,755              |           |                    |
| 36113 61     | D.c.....   | 7,698  | 3,743              |           |                    |
| 36113 62     | Other.....   |  |                    |           |                    |
|              | Self balancing:  |  |                    |           |                    |
| 36113 66     | Recording, noncontrolling.....   | 4,743  | 4,759              | (X)       | 37,871             |
| 36113 67     | Recording, with electrical control.....  | 980  | 1,284              |           |                    |
| 36113 68     | Recording, with pneumatic control.....   |  |                    |           |                    |
|              | Oscillographic:  |  |                    |           |                    |
| 36113 69     | Galvanometer type.....   | 23,261   | 59,061             |           |                    |
| 36113 70     | Oscilloscope type.....   | (X)  | 20,956             |           |                    |
| 36113 72     | Other electrical recording instruments.....  |  |                    |           |                    |
| 36113 71     | Parts for indicating and recording instruments.....  | (X)  | 14,228             | (X)       | 10,387             |
| 36113 81     | Instrument transformers.....   | (X)  | 19,372             | 202,000   | 12,607             |
| 36113 85     | Ammeters and voltmeters for motor vehicles.....  | 1,870,256                                      | 2,765              | 1,894,000 | 3,015              |
| 36113 00     | Other electrical measuring instruments, n.s.k.....   | -  | -                  | (X)       | 4,661              |

Source: Current Industrial Reports Series M38B, "Selected Instruments and Related Products."

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Included with 3611151 to avoid disclosing operations of individual companies.

TABLE 6A-3. Switchgear, Switchboard Apparatus and Relays--Quantity and Value of Shipments: 1963 and 1958

| Product code | Product  | Value of shipments including interplant transfers (\$1,000) |         |
|--------------|--|---|---------|
|              |  | 1963  | 1958    |
| 36131 --     | Switchgear, including power switchgear assemblies and other switching and interrupting devices, 2,300 volts and over, total.....   | 416,950   | 419,932 |
| 36131 11     | Automatic and manual panels (generator, transformers, feed-control, etc.).....   | 14,769  | 32,081  |
| 36131 15     | Metal enclosed switchgear (using power-circuit breakers, oil and oilless, and low voltage air-circuit breakers).....   | 97,290  | 136,517 |
| 36131 17     | Metal enclosed bus bar structures, over 750 volts (for sale separately).....   | 4,421   | 14,941  |
| 36131 31     | Relays (except instrument and circuit), regulators, and miscellaneous switchboard devices (for sale separately).....   | 39,950  | 47,589  |
|              | Power switching equipment (including attachments, auxiliaries, bus supports and fittings, and accessories, but excluding power fuses sold separately):   |   |         |
| 36131 41     | Outdoor.....   | 43,091  | 36,276  |
| 36131 45     | Indoor.....  | 6,323   | 7,908   |
| 36131 51     | Power and distribution fuses and fuse links for 2,300 volts and over, a.c. service (excluding distribution cut-outs).....  | 29,726  | 8,994   |
| 36131 81     | Power connectors (excluding connectors used under National Electrical applications).....   |   | 9,902   |
| 36131 83     | Distribution cut-outs.....   | 19,608  | 16,050  |
|              | Duct, including plug-in units and accessories (not exceeding 750 volts consisting of enclosed sectionalized prefabricated bus bars rated 20 amperes or more and associated structures and fittings):                         |   |         |
| 36131 86     | Busways.....   | 31,003  | 23,182  |
| 36131 88     | Trolley-type.....  | 1,829   |         |
|              | Relays, circuit:   |   |         |
| 36131 91     | A.c. and d.c. magnetic control circuit relays, excluding overload relays.....  | 119,366   | 81,601  |
| 36131 94     | Overload relays.....   | 9,574   | 4,891   |
| 36132 --     | Circuit breakers, total.....   | 211,629   | 200,990 |
| 36132 43     | Power circuit breakers (all voltage).....  | 99,112  | 81,596  |
| 36132 52     | Molded case circuit breakers assembled as complete units in supporting and enclosing housings of insulating materials; with or without accessories or attachments.....   | 88,040  | 50,559  |
| 36132 56     | Individually enclosed molded case circuit breakers (excluding panelboards and busway plugs, but including a group of such breakers in a single cabinet intended to function as service equipment) (750 volts and under)..... | 13,964  | 40,447  |
| 36132 98     | Other circuit breakers.....  | 10,513  | 28,388  |
| 36133 --     | Low voltage panelboards and distribution boards and other switching and interrupting devices, 750 volts and under, total.....  | 282,435   | 224,223 |
|              | Panelboards and distribution boards:   |   |         |
|              | Panelboards (including enclosing cabinets):  |   |         |
| 36133 11     | Fusible (including combination switch and fuse).....   | 31,215  | 16,628  |
| 36135 12     | Circuit breaker.....   | 45,243  | 35,629  |
|              | Distribution switchboards:   |   |         |
| 36133 15     | Fusible.....   | 15,037  | 9,904   |
| 36133 17     | Circuit breaker.....   | 36,314  | 18,545  |
| 36133 19     | Other (including theater switchboards).....  | 9,027   | 8,403   |
|              | Switches (except switches commonly known as snap, toggle, and rotary switches; and switch devices intended primarily to be used with electric motor controls):   |   |         |
|              | Knife switches, open and enclosed:   |   |         |
| 36133 21     | Open knife switches, parts and switch interiors.....   | 6,674   | 4,134   |
| 36133 23     | Enclosed safety switches (including pull out types).....   | 35,786  | 49,057  |
|              | Load centers:  |   |         |
| 36133 24     | Enclosed fusible, service entrance, and branch circuit cut-outs.....   | 14,829  | 14,213  |
| 36133 26     | Circuit breaker type.....  | 26,748  |         |
| 36133 27     | Time switches (repetitive with respect to fixed time of day).....  | 10,681  | 7,065   |
| 36133 29     | Other switches (excluding snap, toggle, push, etc., but including meter service equipment, other than meter mounting and test devices).....  | 12,502  | 19,797  |
| 36133 98     | Other switchgear and switchboard apparatus.....  | 38,379  | 22,941  |
| 36133 00     | Low voltage panelboards and distribution boards and other switching and interrupting devices, 750 volts and under, n.s.k.....  | -   | 17,907  |
| 36134 --     | Fuses and fuse equipment, under 2,300 volts (except power distribution cut-outs), total.....   | 39,972  | 30,675  |
| 36134 31     | Nonrenewable plug fuses <sup>1</sup> .....   | 7,270   | 7,785   |
| 36134 51     | Nonrenewable cartridge fuses <sup>2</sup> .....  | 13,247  | 9,274   |
| 36134 71     | Renewable plug and cartridge fuses (including renewal links).....  | 4,215   | 5,626   |
| 36134 93     | Other fuses and open fuse material (including cut-outs, clips, bases, etc.).....   | 15,240  | 6,886   |
| 36134 00     | Fuses and fuse equipment, under 2,300 volts, n.s.k.....  | -   | 1,104   |

Source: Current Industrial Reports Series M36A, "Switchgear, Switchboard Apparatus, Relays, and Industrial Controls."

- Represents zero.

n.s.k. Not specified by kind.

<sup>1</sup>For 1963, quantity reported totaled 140,905.

<sup>2</sup>For 1963, quantity reported totaled 46,284.



TABLE 6A-4. Motors and Generators: 1963 and 1958

| Product code | Product  | Total shipments including interplant transfers |                 |
|--------------|--|--|-----------------|
|              |  | Quantity                                       | Value (\$1,000) |
|              |  | 1963   |                 |
|              |  | (1,000 units)                                  |                 |
| 36211 --     | Fractional horsepower motors (excluding hermetics), total.....   | 99,035   | 592,363         |
| 36211 01     | Automobile accessory motors (including all accessory motors, such as heater, convertible top, automatic windows, etc.; excluding starting motors and generators).....              | 28,876   | 120,685         |
|              | Aircraft and space motors (excluding generators):  |  |                 |
| 36211 03     | A.c.....   | 147  | 13,773          |
| 36211 04     | D.c.....   | 140  | 12,878          |
| 36211 05     | Toy motors (all sizes) (including those for advertising displays, etc.)....  | 1,365  | 1,821           |
| 36211 07     | Clock-type synchronous and subsynchronous timing motors.....   | 12,240   | 15,294          |
|              | Universal:   |  |                 |
|              | Cased motors (punching diameter):  |  |                 |
| 36211 08     | Less than 2-1/8" in diameter.....  | 266  | 1,216           |
| 36211 09     | 2-1/8" in diameter and over but less than 2-7/16" in diameter.....   | 1,042  | 3,387           |
| 36211 10     | 2-7/16" in diameter and over but less than 2-7/8" in diameter.....   | 1,017  | 5,287           |
| 36211 11     | 2-7/8" in diameter and over but less than 3-3/16" in diameter.....   | 1,240  | 9,116           |
| 36211 12     | 3-3/16" in diameter and over but less than 3-11/16" in diameter.....   | 436  | 5,049           |
| 36211 13     | 3-11/16" in diameter and over but less than 4-3/8" in diameter.....  | 96   | 3,246           |
| 36211 14     | 4-3/8" in diameter and over.....   | 19   | 598             |
|              | Uncased motors (punching diameter) (consisting of stator, rotor, and brush holder mechanisms, without end shields, bearings, or conventional frame, usually called "motor parts"): |  |                 |
| 36211 15     | Less than 2-1/8" in diameter.....  | 247  | 2,471           |
| 36211 16     | 2-1/8" in diameter and over but less than 2-7/16" in diameter.....   |  |                 |
| 36211 17     | 2-7/16" in diameter and over but less than 2-7/8" in diameter.....   | 256  | 966             |
| 36211 18     | 2-7/8" in diameter and over but less than 3-3/16" in diameter.....   | 194  | 800             |
| 36211 19     | 3-3/16" in diameter and over but less than 3-11/16" in diameter.....   | 595  | 2,620           |
| 36211 20     | 3-11/16" in diameter and over but less than 4-3/8" in diameter.....  | 225  | 1,713           |
| 36211 21     | 4-3/8" in diameter and over.....   | 27   | 501             |
|              | Direct current motors and generators (case diameter) (excluding automotive starting motors, generators, and accessory motors):   |  |                 |
| 36211 22     | Less than 3" in diameter (up to 1/70 hp.).....   | 611  | 9,522           |
| 36211 23     | 3" in diameter and over but less than 4-3/8" in diameter (1/70 hp. and over but less than 1/20 hp.).....   | 111  | 2,315           |
| 36211 24     | 4-5/8" in diameter and over but less than 6" in diameter (1/20 hp. and over but less than 1/6 hp.).....  | 355  | 6,429           |
| 36211 25     | 6" in diameter and over but less than 7-1/8" in diameter (1/6 hp. and over but less than 1 hp.).....   | 789  | 13,975          |
| 36211 26     | 7-1/8" in diameter and over but less than 9" in diameter (1/6 hp. and over but less than 1 hp.).....   | 25   | 3,253           |
|              | Alternating current:   |  |                 |
|              | Skeleton type shaded pole motors:  |  |                 |
|              | Less than 2-3/4" in diameter:  |  |                 |
| 36211 31     | Less than 5 mhp.....   | 3,916  | 9,746           |
| 36211 33     | Over 5 mhp.....  | 481  | 1,178           |
|              | 2-3/4" in diameter and over:   |  |                 |
| 36211 35     | Less than 5 mhp.....   | 1,523  | 4,215           |
| 36211 37     | 5 mhp. and over but less than 35 mhp.....  | 3,609  | 5,480           |
| 36211 39     | 35 mhp. and over.....  | 1,341  | 4,396           |
|              | Conventional type shaded pole motors (case diameters):   |  |                 |
| 36211 41     | Less than 1-1/2" in diameter, all horsepower ratings built in this diameter.....   | 203  | 676             |
|              | 1-1/2" in diameter and over but less than 2-1/2" in diameter:  |  |                 |
| 36211 42     | Less than 5 mhp.....   | 1,752  | 2,222           |
| 36211 43     | 5 mhp. and over but less than 16 mhp.....  | 1,413  | 5,530           |
| 36211 44     | 16 mhp. and over.....  | 819  | 1,528           |
|              | 2-1/2" in diameter and over but less than 3-3/4" in diameter:  |  |                 |
| 36211 45     | Less than 16 mhp.....  | 3,741  | 13,350          |
| 36211 46     | 16 mhp. and over but less than 1/20 hp.....  | 6,439  | 19,626          |
| 36211 47     | 1/20 hp. and over but less than 1/10 hp.....   |  |                 |
| 36211 48     | 1/10 hp. and over.....   | 300  | 1,289           |
|              | 3-3/4" in diameter and over but less than 4-1/2" in diameter:  |  |                 |
| 36211 49     | Less than 16 mhp.....  | 41   | 300             |
| 36211 51     | 16 mhp. and over but less than 1/20 hp.....  | 239  | 1,874           |
| 36211 52     | 1/20 hp. and over but less than 1/10 hp.....   | 471  | 4,118           |
| 36211 53     | 1/10 hp. and over.....   | 135  | 1,090           |
|              | 4-1/2" in diameter and over but less than 5-1/4" in diameter:  |  |                 |
| 36211 54     | Less than 1/20 hp.....   | 131  | 694             |
| 36211 55     | 1/20 hp. and over but less than 1/10 hp.....   | 1,023  | 6,657           |
| 36211 56-58  | 1/10 hp. and over.....   | 584  | 6,075           |

See footnotes at end of table.

TABLE 6A-4. Motors and Generators: 1963 and 1958--Continued

| Product code | Product   | Total shipments including interplant transfers |                 |
|--------------|---|--|-----------------|
|              |   | Quantity                                       | Value (\$1,000) |
|              |   | 1963   |                 |
|              |   | (1,000 units)                                  |                 |
| 36211 --     | Fractional horsepower motors (excluding hermetics)—Continued  |  |                 |
|              | Alternating current—Continued   |  |                 |
|              | Conventional type shaded pole motors (case diameters)—Continued   |  |                 |
| 36211 59     | 5-1/4" in diameter but less than 9" in diameter (all hp. ratings).....  | 1,782  | 17,561          |
|              | Other a. c. motors (case diameter) (including subfractional and fractional synchronous and subsynchronous timing motors, other than clock type):  |  |                 |
| 36211 61     | Less than 2-1/2" in diameter, all horsepower ratings built in this diameter.....  | 127  | 6,742           |
|              | 2-1/2" in diameter and over but less than 3-3/4" in diameter:   |  |                 |
| 36211 62     | Less than 16 mhp.....   | 380  | 6,755           |
| 36211 63     | 16 mhp. and over but less than 1/20 hp.....   | 261  | 4,015           |
| 36211 64     | 1/20 hp. and over but less than 1/10 hp.....  | 58   | 563             |
| 36211 65     | 1/10 hp. and over but less than 1/4 hp.....   | 85   | 1,673           |
| 36211 66     | 1/4 hp. and over.....   | 26   | 792             |
|              | 3-3/4" in diameter and over but less than 4-3/8" in diameter:   |  |                 |
| 36211 67     | Less than 16 mhp.....   | 30   | 617             |
| 36211 68     | 16 mhp. and over but less than 1/20 hp.....   | 94   | 1,764           |
| 36211 69     | 1/20 hp. and over but less than 1/10 hp.....  | 107  | 1,789           |
| 36211 70     | 1/10 hp. and over but less than 1/6 hp.....   | 27   | 466             |
| 36211 71     | 1/6 hp. and over.....   | 877  | 8,419           |
|              | 4-3/8" in diameter and over but less than 5-3/8" in diameter:   |  |                 |
| 36211 72     | Less than 1/20 hp.....  | 32   | 548             |
| 36211 73     | 1/20 hp. and over but less than 1/10 hp.....  | 401  | 5,662           |
| 36211 74     | 1/10 hp. and over but less than 1/6 hp.....   | 372  | 4,320           |
| 36211 75     | 1/6 hp. and over but less than 1/3 hp.....  | 165  | 3,664           |
| 36211 76     | 1/3 hp. and over.....   | 176  | 4,150           |
|              | 5-3/8" in diameter and over but less than 6" in diameter:   |  |                 |
| 36211 81     | Less than 1 hp.....   | 4,926  | 62,075          |
| 36212 03     | 1 hp. and over.....   |  |                 |
|              | 6" in diameter and over but less than 7-1/8" in diameter:   |  |                 |
| 36211 83     | Less than 1 hp.....   | 10,592   | 130,114         |
| 36212 05     | 1 hp. and over.....   | 109  | 3,925           |
|              | 7-1/8" in diameter and over but less than 9" in diameter:   |  |                 |
| 36211 85     | Less than 1 hp.....   | 161  | 7,523           |
| 36212 07     | 1 hp. and over.....   |  |                 |
| 36212 --     | Integral horsepower motors and generators, other than for land transportation equipment (for a. c. and d. c. motors, 200 hp. and below, the horsepower shown is for open type frame at a speed of 1,800 r.p.m. Motors at other speeds and enclosures have been converted to equivalent ratings at 1,800 r.p.m.), total <sup>1</sup> ..... | 1,666,223                                      | 363,497         |
|              | Integral horsepower motors (excluding cranking motors for internal combustion engines; propulsion motors for land transportation; motors mounted on the same shaft as arc welding generators; and hermetics):   |  |                 |
| 36212 01     | Aircraft and space motors (including a. c. and d. c. but excluding generators) all integral hp. ratings.....  | 51,202   | 4,140           |
|              | Alternating current:  |  |                 |
| 36212 11     | Single phase, all hp. ratings.....  | 178,367  | 14,651          |
|              | Polyphase—induction:  |  |                 |
| 36212 21     | 1-5 hp.....   | 752,305  | 58,088          |
| 36212 22     | 5.1-20 hp.....  | 272,973  | 51,638          |
| 36212 23     | 21-50 hp.....   | 73,030   | 30,027          |
| 36212 26     | 51-125 hp.....  | 28,055   | 30,047          |
| 36212 27     | 126-200 hp.....   | 9,439  | 19,349          |
| 36212 28     | 201-500 hp.....   | 3,048  | 16,407          |
| 36212 29     | Over 500 hp.....  | 1,119  | 18,117          |
|              | Synchronous motors:   |  |                 |
| 36212 31     | 450 r.p.m. or below (all hp. ratings).....  | 449  | 6,304           |
| 36212 32     | Above 450 r.p.m. (all hp. ratings).....   | 917  | 8,480           |
|              | Direct current motors and generators (excluding all arc welding generators, battery charging generators for internal combustion engines and generators used as an integral part of land transportation equipment):  |  |                 |
| 36212 41     | 1-5 hp. (3/4-4 kw.).....  | 13,827   | 5,360           |
| 36212 42     | 5.1-20 hp. (4.1-15 kw.).....  | 10,746   | 11,352          |
| 36212 43     | 21-50 hp. (16-40 kw.).....  | 7,823  | 9,428           |
| 36212 46     | 51-200 hp. (41-150 kw.).....  | 4,337  | 14,227          |
| 36212 47     | 201-500 hp. (151-400 kw.).....  | 1,764  | 14,110          |
| 36212 48     | Over 500 hp. (over 400 kw.).....  | 363  | 17,062          |

See footnotes at end of table.



TABLE 6A-4. Motors and Generators: 1963 and 1958--Continued

| Product code | Product   | Total shipments including interplant transfers |                 |
|--------------|---|--|-----------------|
|              |   | Quantity                                       | Value (\$1,000) |
|              |   | 1963   |                 |
|              |   | (number of units)                              |                 |
| 36212        | Integral horsepower motors and generators, other than for land transportation equipment (for a.c. and d.c. motors, 200 hp. and below, the horsepower shown is for open type frame at a speed of 1,800 r.p.m. Motors at other speeds and enclosures have been converted to equivalent ratings at 1,800 r.p.m.)—Continued |  |                 |
|              | Integral horsepower motors (excluding cranking motors for internal combustion engines; propulsion motors for land transportation; motors mounted on the same shaft as arc welding generators; and hermetics)—Con.   |  |                 |
|              | Alternating current generators (excluding all arc welding generators and generators used as an integral part of land transportation equipment and steam, gas-, and hydraulic-turbine driven generators):  |  |                 |
|              | 450 r.p.m. and slower speeds (all kw. ratios).....  | 80   | 1,480           |
|              | Over 450 r.p.m.:  |  |                 |
| 36212 53     | 3/4-5 kw.....   | 8,051  | 1,306           |
| 36212 54     | 5.1-15 kw.....  | 4,854  | 3,258           |
| 36212 55     | 15.1-50 kw.....   | 5,848  | 6,389           |
| 36212 56     | 50.1-150 kw.....  | 2,937  | 3,448           |
| 36212 57     | 150.1-400 kw.....   | 863  | 3,582           |
| 36212 59     | Over 400 kw.....  | 464  | 7,514           |
| 36213 --     | Land transportation motors, generators, and control equipment and parts, total.....   | (X)  | 89,468          |
| 36213 11     | Railway motors and generators, including those used for control purposes (for trolley cars, trolley coaches, rapid transit cars, trolley locomotives, third-rail locomotives, multiple unit cars for railway service, and mining locomotives) and parts and supplies.....   | (X)  | 33,672          |
| 36213 31     | Motors and generators, including those used for control purposes, for gasoline-electric and Diesel-electric buses, trucks, locomotives, rail cars, and parts and supplies.....  | (X)  | 31,392          |
| 36213 51     | All other land transportation motors, including those used for control purposes, for storage-battery powered transportation equipment (for industrial trucks, mining locomotives, and other transportation equipment) and parts and supplies.....   | (X)  | 6,556           |
| 36213 98     | Other electrical apparatus for land transportation equipment.....   | (X)  | 17,848          |
| 36214 --     | Prime mover generator sets, except steam or hydraulic turbines, total <sup>1</sup> .....  | 63,556   | 102,694         |
|              | Generator set units, except steam, gas, and water turbine sets:   |  |                 |
|              | Gasoline-engine driven generator sets:  |  |                 |
| 36214 12     | D.c. output (all ratings).....  | 6,459  | 4,300           |
|              | A.c. output:  |  |                 |
| 36214 13     | Under 3/4 kw.....   | 528  | 115             |
| 36214 14     | 3/4 kw.-5 kw.....   | 41,112   | 13,313          |
| 36214 15     | 5.1 kw.-15 kw.....  | 4,836  | 6,480           |
| 36214 16     | 15.1 kw. and over.....  | 1,830  | 6,097           |
|              | Diesel-engine driven generator sets:  |  |                 |
| 36214 31     | D.c. output (all kw. ratings).....  | 879  | 3,203           |
|              | A.c. output:  |  |                 |
| 36214 32     | Less than 50 kw.....  | 4,122  | 8,904           |
| 36214 33     | 51-250 kw.....  | 3,190  | 24,845          |
| 36214 34     | 251 kw. and over.....   | 600  | 35,437          |
| 36215 --     | Motor generator sets and other rotating equipment (including dynamotors, converters, inverters, and frequency changers), total <sup>1</sup> .....   | (X)  | 239,111         |
| 36215 11     | Synchronous converters and double current generators.....   | 14,939   | 5,292           |
|              | Other motor-generator sets:   |  |                 |
| 36215 21     | Fractional horsepower, a.c. and d.c. output (less than 3/4 kw.).....  | 62,752   | 8,270           |
|              | Integral horsepower:  |  |                 |
|              | A.c. output, based on the rating of the largest a.c. generator:   |  |                 |
| 36215 32     | 3/4-150 kw.....   | 6,980  | 18,520          |
| 36215 33     | Over 150 kw.....  | 145  | 2,131           |
|              | D.c. output, based on the rating of the largest d.c. generator:   |  |                 |
| 36215 34     | 3/4-170 kw.....   | 9,765  | 17,248          |
| 36215 36     | Over 170 kw.....  | 417  | 16,041          |
|              | Other rotating equipment:   |  |                 |
| 36215 53     | Synchros, servos, rate generators, resolvers, and combinations (including subfractional-under 1/100 hp. motors).....  | (X)  | 50,199          |
| 36215 57     | Synchro-type components.....  | (X)  | 2,894           |
| 36215 97     | All hermetic motors.....  | 11,249,370                                     | 106,956         |
| 36215 98     | All other rotating equipment.....   | (X)  | 11,560          |

See footnotes at end of table.

TABLE 6A-4. Motors and Generators 1963 and 1958--Continued

| Product code | Product  | Total shipments including interplant transfers |                 |
|--------------|--|--|-----------------|
|              |  | Quantity                                       | Value (\$1,000) |
|              |  | 1958   |                 |
|              |  | (1,000 units)                                  |                 |
| 36211 --     | Fractional horsepower motors <sup>1</sup> .....  | (X)  | 435,820         |
| 36211 10     | Aircraft (all types, except synchros, selsyns, and autosyns).....  | (X)  | 34,761          |
|              | A.c. types:  |  |                 |
| 36211 12     | Under 1/20 hp.....   | 366  | 15,979          |
| 36211 13     | 1/20 hp. and over but not including 1 hp.....  | 57   | 6,795           |
|              | D.c. types:  |  |                 |
| 36211 16     | Under 1/20 hp.....   | 178  | 6,058           |
| 36211 17     | 1/20 hp. and over but not including 1 hp.....  | 52   | 5,929           |
| 36211 21     | Clock-type synchronous and subsynchronous timing motors.....   | 5,984  | 8,292           |
| 36211 23     | Subfractional (under 1/100 hp.) used with synchro and servo devices.....   | 57   | 2,552           |
|              | Universal (other than listed above):   |  |                 |
| 36211 24     | Below 1/100 hp. (including toy motors).....  | 24   | 156             |
| 36211 25     | 1/100 hp. and over but not including 1/40 hp.....  | 712  | 4,376           |
| 36211 26     | 1/40 hp. and over but not including 1/20 hp.....   | 684  | 5,592           |
| 36211 27     | 1/20 hp. and over but not including 1/10 hp.....   | 2,412  | 10,684          |
| 36211 28     | 1/10 hp. and over but not including 1/6 hp.....  | 666  | 3,364           |
| 36211 29     | 1/6 hp. and over but not including 1 hp.....   | 2,037  | 21,511          |
|              | D.c. motors (other than listed above):   |  |                 |
| 36211 71     | Below 1/100 hp. (including toy motors).....  | 2,039  | 6,796           |
| 36211 72     | 1/100 hp. and over but not including 1/70 hp.....  | 58   | 623             |
| 36211 73     | 1/70 hp. and over but not including 1/40 hp.....   | 201  | 889             |
| 36211 74     | 1/40 hp. and over but not including 1/20 hp.....   | 653  | 3,226           |
| 36211 75-79  | 1/20 hp. and over but not including 1 hp.....  | 8,025  | 36,807          |
|              | Shaded pole a.c. motors:   |  |                 |
| 36211 81     | Below 1/100 hp. (including toy motors).....  | 7,587  | 20,363          |
| 36211 82     | 1/100 hp. and over but not including 1/70 hp.....  | 2,860  | 9,969           |
| 36211 83     | 1/70 hp. and over but not including 1/40 hp.....   | 2,222  | 6,777           |
| 36211 84     | 1/40 hp. and over but not including 1/20 hp.....   | 1,990  | 9,830           |
| 36211 87     | 1/20 hp. and over but not including 1/10 hp.....   | 1,485  | 9,853           |
| 36211 89     | 1/10 hp. and over but not including 1/6 hp.....  | 467  | 4,295           |
|              | Other a.c. motors:   |  |                 |
| 36211 91     | Below 1/100 hp. (including toy motors).....  | 150  | 1,654           |
| 36211 92     | 1/100 hp. and over but not including 1/20 hp.....  | 1,258  | 6,038           |
| 36211 93     | 1/20 hp. and over but not including 1/10 hp.....   | 797  | 8,790           |
| 36211 94     | 1/10 hp. and over but not including 1/6 hp.....  | 1,722  | 17,705          |
| 36211 95     | 1/6 hp. and over but not including 1/3 hp.....   | 5,082  | 55,387          |
| 36211 96     | 1/3 hp. and over but not including 1/2 hp.....   | 7,052  | 88,608          |
| 36211 98     | 1/2 hp. and over but not including 1 hp.....   | 2,000  | 47,396          |
| 36211 00     | Fractional horsepower motors, n.s.k.....   | (X)  | 9,526           |
|              |  | (number of units)                              |                 |
| 36212 --     | Integral horsepower motors and generators, other than for land transportation equipment <sup>1</sup> .....   | (X)  | 430,458         |
|              | Alterating current:  |  |                 |
| 36212 11     | Single phase, all sizes.....   | 628,346  | 25,551          |
|              | Polyphase-induction:   |  |                 |
| 36212 21     | 1 to 5 hp.....   | 641,076  | 57,981          |
| 36212 22     | 5.1 to 20 hp.....  | 216,971  | 46,097          |
| 36212 23     | 21 to 50 hp.....   | 44,755   | 26,719          |
| 36212 26     | 51 to 125 hp.....  | 18,573   | 22,678          |
| 36212 27     | 126 to 200 hp.....   | 7,094  | 19,719          |
| 36212 28     | 201 to 500 hp.....   | 2,727  | 15,584          |
| 36212 29     | Over 500 hp.....   | 2,159  | 34,595          |
|              | Synchronous and other a.c. motors:   |  |                 |
| 36212 36     | 1 to 50 hp.....  | 1,261  | 205             |
| 36212 37     | 51 to 500 hp.....  | 607  | 4,910           |
| 36212 39     | Over 500 hp.....   | 497  | 12,461          |
|              | D.c. motors and generators (excluding all arc welding generators, battery charging generators for internal combustion engines, and generators used as integral part of land transportation equipment): |  |                 |
| 36212 41     | 1 to 5 hp.....   | 12,218   | 4,441           |
| 36212 42     | 5.1 to 20 hp.....  | 18,238   | 13,239          |
| 36212 43     | 21 to 50 hp.....   | 4,156  | 8,189           |
| 36212 44     | 51 to 200 hp.....  | 3,075  | 17,847          |
| 36212 45     | 201 to 500 hp.....   | 1,134  | 12,273          |
| 36212 49     | Over 500 hp.....   | 190  | 21,849          |
|              | A.c. generators (excluding all arc welding generators and generators used as integral part of land transportation equipment):  |  |                 |
| 36212 52     | Under 16 kw.....   | 24,956   | 10,332          |
| 36212 55     | 16 to 150 kw.....  | 9,473  | 12,173          |
| 36212 56     | 151 to 400 kw.....   | 936  | 5,169           |
| 36212 59     | Over 500 kw.....   | 338  | 37,586          |
| 36212 98     | Other integral horsepower generators.....  | (X)  | 20,860          |
| 36212 00     | Integral horsepower generators, n.s.k.....   |  |                 |

See footnotes at end of table.



TABLE 6A-4. Motors and Generators: 1963 and 1958 -Continued

| Product Code | Product   | Total shipments including interplant transfers |                     |
|--------------|---|--|---------------------|
|              |   | Quantity                                       | Value (\$1,000)     |
|              |   | 1958   |                     |
|              |   | (number of units)                              |                     |
| 36213 --     | Motors, generators, and control apparatus (and parts) for land transportation equipment.....  | (X)  | 52,367              |
| 36213 11     | Railway motors, generators, and control equipment (for trolley cars, trolley coaches, rapid transit cars, trolley locomotives, third rail locomotives, multiple unit cars for railway service and mining locomotives) and parts and supplies..... | (X)  | ( <sup>2</sup> )    |
| 36213 31     | Motors, generators, and control equipment for gasoline-electric and Diesel-electric buses, trucks, locomotives, rail cars, and parts and supplies....   | (X)  | 29,277              |
| 36213 51     | Motors and control equipment for storage-battery powered transportation equipment (for industrial trucks, mining locomotives, and other transportation equipment) and parts and supplies.....   | (X)  | 4,769               |
| 36213 98     | Other electrical apparatus for land transportation equipment.....   | (X)  | <sup>2</sup> 18,321 |
| 36214 --     | Prime mover generator sets other than steam or hydraulic turbine <sup>1</sup> .....   | (X)  | 73,865              |
|              | Generator set units, except steam, gas, and water turbine sets:   |  |                     |
| 36214 11     | Gasoline-engine driven generator sets.....  | 53,449   | 56,541              |
| 36214 31     | Diesel-engine driven generator sets.....  | 2,264  | 15,425              |
| 36214 75     | Other generator set units, including wind-driven (except steam, gas, and water turbine sets and motor-generator sets).....  | (X)  | 1,899               |
| 36215 --     | Motor-generator sets and other rotating equipment <sup>1</sup> .....  | (X)  | 164,057             |
|              | Motor-generator sets (including dynamotors, converters, inverters, and frequency chargers):   |  |                     |
| 36215 11     | Synchronous converters and double current generators.....   | 35,805   | 9,068               |
|              | Other motor-generator sets:   |  |                     |
| 36215 21     | Fractional horsepower (less than 3/4 kw.).....  | 43,258   | 6,744               |
|              | Integral horsepower:  |  |                     |
| 36215 31     | 3/4 to 150 kw.....  | } 19,483                                       | 62,768              |
| 36215 33     | 151 to 400 kw.....  |  |                     |
| 36215 35     | Over 400 kw.....  |  |                     |
|              | Other rotating equipment:   |  |                     |
| 36215 53     | Synchros, servos, rate generators, resolvers, and combinations.....   | (X)  | 34,694              |
| 36215 57     | Synchro type components.....  | (X)  | 2,191               |
| 36215 98     | All other rotating equipment.....   | (X)  | 48,592              |
| 36210 00     | Motors, generators, and motor-generator sets, n.s.k.....  | (X)  | 25,942              |

Source: Current Industrial Reports Series M35H, "Motors and Generators."

- Represents zero.

n.s.k. Not specified by kind.

<sup>1</sup>Excludes parts and supplies, except as indicated.

<sup>2</sup>Railway motors, generators, and control equipment are included under code 3621398, "Other electrical apparatus for land transportation equipment."

TABLE 6A-5. Motors and Generators--Total and Commercial Shipments: 1963 and 1958

| Product code | Product  | 1963   |                 |   |                 | Produced and incorporated (quantity)<br>(1,000 units) |
|--------------|--|--|-----------------|---|-----------------|---|
|              |  | Total shipments including interplant transfers |                 | Shipments to other companies (commercial shipments) |                 |   |
|              |  | Quantity<br>(1,000 units)                      | Value (\$1,000) | Quantity<br>(1,000 units)                           | Value (\$1,000) |   |
| 36211 --     | Fractional horsepower motors (excluding hermetics), total <sup>1</sup> .....   | 99,035   | 592,363         | 69,603  | 442,800         | 16,785  |
| 36211 01-26  | Automobile accessory motors; aircraft and space motors; toy motors; clock type synchronous and subsynchronous timing motors; universal motors (cased and uncased); and direct current motors and generators..... | 50,319   | 236,915         | 27,036  | 128,834         | 15,132  |
|              | Alternating current:   |  |                 |   |                 |   |
|              | Skeleton type shaded pole motor:   |  |                 |   |                 |   |
|              | Less than 2-3/4" in diameter:  |  |                 |   |                 |   |
| 36211 31     | Less than 5 mph.....   | 3,916  | 9,746           | 3,428   | 8,935           | 484   |
| 36211 33     | Over 5 mph.....  | 481  | 1,178           | 401   | 1,038           | -   |
| 36211 35-39  | 2-3/4" in diameter and over, all horsepower ratings.....   | 6,473  | 14,091          | 4,111   | 9,443           | 264   |
|              | Conventional type shaded pole motors:  |  |                 |   |                 |   |
| 36211 41-48  | Less than 3-3/4" in diameter, all horsepower ratings.....  | 14,667   | 44,221          | 14,330  | 42,756          | 905   |
| 36211 49-59  | 3-3/4" in diameter and over but less than 9" in diameter, all horsepower ratings.....  | 4,406  | 38,369          | 4,112   | 36,223          |   |
|              | Other a.c. motors (including subfractional and fractional synchronous and subsynchronous timing motors, other than clock type):  |  |                 |   |                 |   |
| 36211 61-71  | Less than 4-3/8" in diameter.....  | 2,072  | 33,595          | 2,051   | 33,161          |   |
| 36211 72-76  | 4-3/8" in diameter and over but less than 5-3/8" in diameter, all horsepower ratings.....  | 1,146  | 18,344          | 777   | 13,478          |   |
| 36211 81     | 5-3/8" in diameter and over but less than 6" in diameter:  | 4,926  | 62,075          | 4,518   | 57,916          |   |
| 36212 03     | Less than 1 hp.....  |  |                 |   |                 |   |
| 36212 03     | 1 hp. and over.....  |  |                 |   |                 |   |
| 36211 83     | 6" in diameter and over but less than 7-1/8" in diameter:  | 10,592   | 130,114         | 9,064   | 117,819         |   |
| 36212 05     | Less than 1 hp.....  |  |                 |   |                 |   |
| 36212 05     | 1 hp. and over.....  | 109  | 3,925           |   |                 |   |
| 36211 85     | 7-1/8" in diameter and over but less than 9" in diameter:  | 161  | 7,523           |   |                 |   |
| 36212 07     | Less than 1 hp.....  |  |                 |   |                 |   |
| 36212 07     | 1 hp. and over.....  |  |                 |   |                 |   |
|              |  | (number of units)                              |                 | (number of units)                                   |                 | (number of units)                                     |
| 36212 --     | Integral horsepower motors and generators, other than for land transportation equipment (excluding hermetics), total <sup>1</sup> .....  | 1,666,233                                      | 363,497         | 1,608,104   | 329,825         | 8,522   |
| 36212 01     | Aircraft and space motors, all integral horsepower ratings.....  | 51,202   | 4,140           | 47,735  | 4,069           | -   |
|              | Alternating current:   |  |                 |   |                 |   |
| 36212 11     | Single phase, all horsepower ratings.....  | 178,367  | 14,651          | 173,153   | 14,389          | 5,776   |
|              | Polyphase--induction:  |  |                 |   |                 |   |
| 36212 21     | 1-5 hp.....  | 752,305  | 58,088          | 733,651   | 56,578          | 546   |
| 36212 22     | 5.1-20 hp.....   | 272,973  | 51,638          | 262,901   | 49,767          |   |
| 36212 23     | 21-50 hp.....  | 73,030   | 30,027          | 68,901  | 28,495          |   |
| 36212 26     | 51-125 hp.....   | 28,055   | 30,047          | 26,219  | 27,828          |   |
| 36212 27     | 126-200 hp.....  | 9,439  | 19,349          | 8,621   | 16,708          |   |
| 36212 28     | 201-500 hp.....  | 3,048  | 16,407          | 2,759   | 14,417          |   |
| 36212 29     | Over 500 hp.....   | 1,119  | 18,117          | 1,016   | 14,580          |   |
|              | Synchronous motors:  |  |                 |   |                 |   |
| 36212 31     | 450 r.p.m. or below (all hp. ratings).....   | 449  | 6,304           | 346   | 4,859           | -   |
| 36212 32     | Above 450 r.p.m. (all hp. ratings).....  | 917  | 8,480           | 732   | 6,961           | -   |
| 36212 41-48  | Direct current motors and generators.....  | 38,860   | 71,539          | 35,905  | 62,190          | -   |
| 36212 51-59  | Alternating current generators.....  | 23,097   | 26,977          | 21,829  | 22,181          | 2,200   |
| 36213 --     | Land transportation motors, generators, and control equipment and parts and supplies.....  | (X)  | 89,468          | (X)   | 85,550          | (X)   |
| 36214 --     | Prime mover generator sets, except steam or hydraulic turbine <sup>1</sup> .....   | 63,556   | 102,694         | 63,551  | 102,669         | 290   |
| 36215 --     | Motor generator sets and other rotating equipment, total <sup>1</sup> .....  | (X)  | 239,111         | (X)   | 211,313         | (X)   |
| 36215 11     | Synchronous converters and double current generators.....  |  |                 |   |                 | -   |
|              | Other motor-generator sets:  | 77,391   | 13,562          | 76,458  | 13,417          | 5,393   |
| 36215 21     | Fractional horsepower, (a.c. and d.c. output less than 3/4 kw.).....   |  |                 |   |                 |   |
|              | Integral horsepower:   |  |                 |   |                 |   |
|              | A.c. output, based on the rating of the largest a.c. generator:  |  |                 |   |                 |   |
| 36215 32     | 3/4-150 kw.....  | 6,980  | 18,520          | 9,753   | 17,741          | -   |
| 36215 33     | Over 150 kw.....   | 145  | 2,131           | 136   | 1,998           | -   |

See footnotes at end of table.





TABLE 6A-6. Industrial Controls--Value of Shipments: 1963 and 1958

| Product code | Product   | Value of shipments including interplant transfers (\$1,000) |                     |
|--------------|---|---|---------------------|
|              |   | 1963  | 1958                |
| 36220 --     | Industrial controls, total.....   | 594,913   | 447,297             |
|              | General industry devices:   |   |                     |
| 36220 12     | A.c. full voltage starters 600 volts or less, excluding controls for packaged adjustable speed drives and synchronous motor starters.....   | 80,593  | 75,367              |
| 36220 13     | A.c. contactors, 600 volts or less, excluding controls for packaged adjustable speed drives and synchronous motor yield control.....  | 16,480  |                     |
| 36220 14     | A.c. reduced voltage controls, 600 volts or less.....   | 21,036  | 12,528              |
| 36220 16     | Motor control centers, 600 volts or less.....   | 50,481  | 35,808              |
| 36220 18     | Starters and contactors for squirrel cage and wound rotor and synchronous motors, over 600 volts, air break and oil immersed.....   | 14,186  | 8,723               |
| 36220 19     | D.c. general purpose controls.....  | 7,009   | 7,082               |
| 36220 41     | Resistance welding controls, electronic and magnetic.....   | 8,169   | 3,048               |
| 36220 42     | Pilot circuit devices, such as limit switches, interval timers, etc. (excluding relays).....  | 55,845  | 41,405              |
| 36220 44     | Pushbuttons and pushbutton stations (excluding operators' desks and stations).....  | 27,949  |                     |
| 36220 81     | Rheostats and resistors (except for electronic applications), sold separately <sup>1</sup> .....  | 8,538   | 17,279              |
| 36220 98     | All other general industry devices (including brakes and low voltage synchronous motor starters).....   | 48,001  | <sup>2</sup> 85,722 |
|              | Specific application controllers, including all systems:  |   |                     |
| 36220 45     | Marine and Navy auxiliary controls and accessories.....   | 17,079  | 28,697              |
|              | Controls, constant and adjustable voltage, including all operators' desks and stations, for:  |   |                     |
| 36220 47     | Metal mills.....  | 29,835  | ( <sup>2</sup> )    |
| 36220 48     | Cranes and hoists.....  | 12,386  | ( <sup>2</sup> )    |
| 36220 49     | Metal mill, crane, and hoist accessories, sold separately.....  | 2,388   | ( <sup>2</sup> )    |
| 36220 51     | Electronic industrial controls, other than resistance welding controls, including automatic control equipment.....  | 35,129  | 40,021              |
| 36220 72     | Engineered a.c. and d.c. control assemblies, including those for machine tool applications.....   | 38,158  | 28,569              |
| 36220 73     | Other specific special purpose controllers, such as nonmetal mill and air-conditioning; specially engineered control assemblies; and all other controllers, whether magnetic or static..... | 47,248  |                     |
| 36220 96     | Controls for packaged adjustable speed drives, including electronic and nonelectronic and operators' desks and stations.....  | 26,710  | ( <sup>2</sup> )    |
| 36220 99     | Renewal parts for industrial control equipment.....   | 47,693  | 17,279              |

Source: Current Industrial Reports Series MA-36A, "Switchgear, Switchboard Apparatus, and Industrial Controls."

<sup>1</sup>In 1963, quantity reported totaled 89,474.

<sup>2</sup>Combined with code 3622098, "All other general industry devices (including brakes and low voltage synchronous motor starters) in 1958.



TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year  | Indexes (1954 = 100)                 |                                      | Product code | Product and year   | Indexes (1954 = 100)                 |                                      |
|--------------|---|--------------------------------------|--------------------------------------|--------------|--|--------------------------------------|--------------------------------------|
|              |   | Production                           | Unit value                           |              |  | Production                           | Unit value                           |
| 361--        | Electric distribution products...1963..<br>1958..   | ( <sup>1</sup> )<br>( <sup>1</sup> ) | ( <sup>1</sup> )<br>( <sup>1</sup> ) | 362--        | Electric industrial apparatus...1963..<br>1958..   | ( <sup>1</sup> )<br>( <sup>1</sup> ) | ( <sup>1</sup> )<br>( <sup>1</sup> ) |
| 3611-        | Electrical measuring instruments.....1963..<br>1958..   | ( <sup>1</sup> )                     | ( <sup>1</sup> )                     | 3621-        | Motors and generators.....1963..<br>1958..   | ( <sup>4</sup> )<br>( <sup>4</sup> ) | ( <sup>4</sup> )<br>( <sup>4</sup> ) |
| 36111        | Integrating instruments electrical.1963..<br>1958..   | 111<br>106                           | 115<br>115                           | 36212        | Integral horsepower motors and<br>generators.....1963..<br>1958..                              | 88<br>85                             | 105<br>124                           |
| 36113        | Other electrical measuring instru-<br>ments.....1963..<br>1958..  | 182<br>146                           | 146<br>125                           | 36214        | Prime mover generator sets, ex-<br>cept steam or hydraulic turbine...1963..<br>1958..          | 102<br>62                            | 107<br>123                           |
| 3612-        | Power, distribution, and speciality<br>transformers <sup>2</sup> .....1963..<br>1958..  | 125<br>88                            | 89<br>114                            | 3622-        | Industrial controls .....1963..<br>1958..  | ( <sup>1</sup> )<br>( <sup>1</sup> ) | ( <sup>1</sup> )<br>( <sup>1</sup> ) |
| 36121        | Speciality transformers and fluores-<br>cent ballasts, except parts.....1963..<br>1958..  | 140<br>99                            | 107<br>120                           | 3623-        | Electric welding apparatus.....1963..<br>1958..  | 154<br>113                           | 132<br>129                           |
| 36122        | Power and distribution transformers<br>except parts.....1963..<br>1958..  | 119<br>85                            | 83<br>113                            | 36231        | Arc welding machines components,<br>and accessories, except<br>electrodes.....1963..<br>1958.. | 236<br>146                           | 121<br>122                           |
| 3613-        | Switchgear and switchboard<br>apparatus <sup>3</sup> .....1963..<br>1958..  | 125<br>109                           | 112<br>113                           | 36232        | Arc welding electrodes, metal.....1963..<br>1958..   | 160<br>126                           | 128<br>128                           |
| 36132        | Circuit breakers.....1963..<br>1958..   | 125<br>108                           | 106<br>118                           | 36233        | Resistance welders, components<br>accessories, and electrodes.....1963..<br>1958..             | 88<br>68                             | 153<br>137                           |
| 36133        | Low voltage panelboards and dis-<br>tribution boards and other switch-<br>ing and interrupting devices 750<br>volt and under.....1963..<br>1958.. | 155<br>114                           | 121<br>121                           | 3624-        | Carbon and graphite products.....1963..<br>1958..  | ( <sup>1</sup> )<br>( <sup>1</sup> ) | ( <sup>1</sup> )<br>( <sup>1</sup> ) |
| 36134        | Fuses and fuse equipment under<br>2300 volts (except power distribu-<br>tion cutouts).....1963..<br>1958..  | 126<br>102                           | 129<br>112                           | 3629-        | Electrical industrial apparatus,<br>n.e.c.....1963..<br>1958..                                 | ( <sup>1</sup> )<br>( <sup>1</sup> ) | ( <sup>1</sup> )<br>( <sup>1</sup> ) |
|              |   |                                      |                                      | 36291        | Capacitors for industrial use<br>(except for electronic applica-<br>tors).....1963..<br>1958.. | 84<br>80                             | 96<br>111                            |

n.e.c. Not elsewhere classified.

<sup>1</sup>Not shown because comparable quantity or price data were not available for a significant portion of these products.<sup>2</sup>Adjusted to include product class 36123 (power regulators, boosters, and reactors, other transformers and transformer parts).<sup>3</sup>Adjusted to include product class 36131 (switchgear including power switchgear assemblies and other switching and interrupting devices 2,300 volts and over).<sup>4</sup>Not shown pending further review of the data covering fractional horsepower motors (product class 36211).

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class   | 1963                 | 1962 <sup>1</sup>    | 1961 <sup>1</sup>    | 1960 <sup>1</sup>    | 1959 <sup>1</sup> | 1958      | 1954      | 1947    |
|-------|---|----------------------|----------------------|----------------------|----------------------|-------------------|-----------|-----------|---------|
| 3611- | Electrical measuring instruments.....   | 721,741              | 888,735              | 797,413              | 795,931              | 719,132           | 587,755   | 347,154   | 157,453 |
| 36111 | Integrating instrument electrical.....  | <sup>2</sup> 89,219  | 94,583               | 96,423               | 100,540              | 104,011           | 88,809    | 73,091    | 63,650  |
| 36112 | Testing equipment for testing electrical,<br>radio, and communication circuits and motors   | <sup>2</sup> 427,248 | <sup>2</sup> 466,071 | <sup>2</sup> 414,442 | 426,358              | 403,086           | 341,883   | 190,023   | 54,805  |
| 36113 | Other electrical measuring equipment.....   | <sup>2</sup> 191,039 | 262,336              | 221,042              | 198,864              | 188,248           | 140,053   | 84,040    | 38,998  |
| 36110 | Electrical measuring instruments, n.s.k.....  | 14,235               | (65,745)             | (65,506)             | (70,169)             | (23,787)          | 17,010    | -         | -       |
| 3612- | Transformers.....   | 692,204              | 670,078              | 690,018              | 724,857              | 706,829           | 638,307   | 628,917   | 324,078 |
| 36121 | Specialty transformers and fluorescent<br>ballasts, except parts.....   | 163,008              | 203,528              | 189,682              | 177,046              | 172,441           | 130,023   | 109,554   | 80,672  |
| 36122 | Power and distribution transformers, except<br>parts.....   | 434,476              | 388,927              | 417,685              | 449,925              | 449,479           | 421,727   | 441,089   | 205,943 |
| 36123 | Power regulators, boosters, and reactors,<br>other transformers, and transformers parts.  | 90,282               | 68,885               | 74,666               | 92,366               | 90,141            | 80,982    | 78,274    | 37,463  |
| 36120 | Transformers, n.s.k.....  | 4,438                | (8,738)              | (7,985)              | (5,520)              | (S)               | 5,576     | -         | -       |
| 3613- | Switchgear and switchboards.....  | 940,126              | 932,948              | 869,818              | 898,758              | 917,104           | 891,371   | (NA)      | (NA)    |
| 36131 | Switchgear, including power switchgear<br>assemblies and other switching and inter-<br>rupting devices, 2,300 volts and over..... | <sup>3</sup> 406,628 | <sup>3</sup> 397,765 | <sup>3</sup> 364,076 | 377,448              | 402,163           | 419,932   | (NA)      | (NA)    |
| 36132 | Circuit breakers.....   | <sup>3</sup> 210,353 | <sup>3</sup> 201,391 | <sup>3</sup> 195,446 | 192,183              | 190,805           | 200,990   | (NA)      | (NA)    |
| 36133 | Low voltage panel-boards and distribution<br>boards and switching and interrupting<br>devices 750 volts and under.....            | <sup>3</sup> 267,987 | <sup>3</sup> 253,789 | <sup>3</sup> 240,897 | 244,517              | 243,840           | 224,223   | (NA)      | (NA)    |
| 36134 | Fuses and fuse equipment under 2,300 volts<br>(except power distribution cut outs).....   | <sup>3</sup> 38,877  | <sup>3</sup> 40,102  | <sup>3</sup> 37,180  | 52,446               | 52,649            | 30,675    | (NA)      | (NA)    |
| 36130 | Switchgear and switchboards, n.s.k.....   | 16,281               | (39,901)             | (32,219)             | (32,164)             | (27,647)          | 15,551    | (NA)      | (NA)    |
| 3621- | Motors and generators.....  | 1,520,203            | 1,529,561            | 1,443,815            | 1,508,325            | 1,423,468         | 1,291,390 | 1,338,459 | 753,776 |
| 36211 | Fractional horsepower motors.....   | <sup>4</sup> 588,438 | <sup>4</sup> 544,394 | <sup>4</sup> 501,834 | <sup>4</sup> 502,034 | 551,091           | 435,820   | 422,695   | 310,823 |
| 36212 | Integral horsepower motors and generators,<br>except land transportation.....   | <sup>4</sup> 363,497 | <sup>4</sup> 371,224 | <sup>4</sup> 363,784 | <sup>4</sup> 397,088 | 435,454           | 430,458   | 410,620   | 258,705 |
| 36213 | Land transportation motors, generators, and<br>control equipment and parts.....   | <sup>4</sup> 89,468  | <sup>4</sup> 79,641  | <sup>4</sup> 57,946  | <sup>4</sup> 71,107  | 66,439            | 52,367    | 81,403    | 69,532  |
| 36214 | Prime mover generator sets, except steam or<br>hydraulic turbine.....   | <sup>4</sup> 102,694 | <sup>4</sup> 86,153  | <sup>4</sup> 84,943  | <sup>4</sup> 82,797  | 71,656            | 73,865    | 96,335    | (NA)    |
| 36215 | Motor generator sets and other rotating<br>equipment.....   | <sup>4</sup> 239,111 | <sup>4</sup> 225,152 | <sup>4</sup> 214,780 | <sup>4</sup> 226,878 | 151,559           | 164,057   | 238,580   | 35,979  |
| 36216 | Parts and supplies for motors, generators,<br>and motor generator sets, except land<br>transportation.....                        | 127,593              | 170,002              | 161,225              | 166,743              | 147,269           | 108,881   | 88,826    | 78,737  |
| 36210 | Motors and generators, n.s.k.....   | 9,402                | (S)                  | (S)                  | (S)                  | (S)               | 25,942    | (NA)      | (NA)    |
| 36220 | General industry power circuit devices and<br>controls.....   | <sup>3</sup> 594,913 | <sup>2</sup> 577,573 | <sup>2</sup> 543,352 | 567,165              | 516,220           | 447,297   | 333,858   | 171,232 |
| 3623- | Electric welding apparatus.....   | 324,895              | 285,873              | 252,545              | 275,680              | 279,131           | 233,235   | 160,025   | 105,971 |
| 36231 | Arc welding machines, components, and<br>accessories, except electrodes.....  | 104,508              | 93,798               | 68,924               | 78,022               | 76,903            | 65,797    | 36,694    | 32,110  |
| 36232 | Arc welding electrodes, metal.....  | 148,328              | 143,517              | 132,079              | 133,055              | 144,036           | 116,438   | 72,255    | 43,987  |
| 36233 | Resistance welders, components, accessories<br>and electrodes.....  | 68,300               | 43,324               | 46,944               | 54,782               | 51,303            | 47,760    | 51,076    | 29,874  |
| 36230 | Electric welding apparatus, n.s.k.....  | 3,759                | 5,234                | 4,598                | 9,821                | 6,889             | 3,240     | -         | -       |
| 36240 | Carbon and graphite products.....   | 217,817              | 193,837              | 184,162              | 187,098              | 194,552           | 156,818   | 114,519   | 63,350  |
| 3629- | Electric industrial goods, n.e.c.....   | 250,474              | 315,220              | 295,298              | 290,011              | 271,904           | 213,073   | 171,863   | 86,013  |
| 36291 | Capacitors for industrial use (except for<br>electronic applications).....  | 51,430               | 80,219               | 74,172               | 73,888               | 73,620            | 57,122    | 64,161    | 34,026  |
| 36292 | Rectifying apparatus.....   | 86,898               | 79,175               | 81,996               | 88,611               | 86,909            | 73,072    | 59,343    | 20,501  |
| 36293 | Other electrical equipment for industrial<br>use.....   | 103,681              | 143,453              | 125,344              | 112,784              | 104,648           | 77,064    | 48,357    | 31,486  |
| 36290 | Electrical industrial goods, n.e.c., n.s.k..  | 8,465                | (12,393)             | (13,786)             | (14,728)             | (6,727)           | 5,815     | -         | -       |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.  
(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Source: Current Industrial Reports Series M38E, Selected Instruments and Related Products.

<sup>3</sup>Source: Current Industrial Reports Series M36A, Switchgear, Switchboard Apparatus, Relays, and Industrial Controls.

<sup>4</sup>Source: Current Industrial Reports Series M36H, Motors and Generators.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area   | Value of shipments |                  | Product class and geographic area  | Value of shipments |                          | Product class and geographic area  | Value of shipments      |                  |
|---|--------------------|------------------|--|--------------------|--------------------------|--|-------------------------|------------------|
|   | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958                     |  | 1963 <sup>2</sup>       | 1958             |
| INTEGRATING INSTRUMENTS, ELECTRICAL (36111)   |                    |                  | SPECIALTY TRANSFORMERS AND FLUORESCENT BALLASTS, EXCEPT PARTS (36121)--Con.  |                    |                          | SWITCHGEAR, INCLUDING POWER SWITCHGEAR ASSEMBLIES AND OTHER SWITCHING AND INTERRUPTING DEVICES, 2,300 VOLTS AND OVER (36131)--Con. |                         |                  |
| United States, total....  | 93,250             | 88,809           | East North Central.....  | 112,540            | ( <sup>2</sup> )         | South Atlantic.....  | 19,468                  |                  |
| Northeast.....  | 35,231             | 34,148           | Ohio.....  | 7,144              | 6,903                    | East South Central.....  | 16,328                  | } 22,297         |
| North Central and South....   | 53,919             | } 54,661         | Illinois.....  | 82,248             | 67,936                   | Kentucky.....  | 15,175                  |                  |
| Pacific.....  | 4,100              |                  | West North Central.....  | Michigan.....      | 1,756                    | ( <sup>2</sup> )   | West South Central..... | 5,907            |
| TEST EQUIPMENT FOR TESTING ELECTRICAL, RADIO AND COMMUNICATION CIRCUITS, AND MOTORS (36112) |                    |                  | West Missouri.....   | 1,379              | ( <sup>2</sup> )         | West.....  | 27,553                  | } 28,811         |
| United States, total....  | 443,407            | 341,883          | Missouri.....  | 1,379              | ( <sup>2</sup> )         | California.....  | 25,076                  |                  |
| New England.....  | 26,377             | 21,067           | South.....   | 5,202              | } 9,182                  | CIRCUIT BREAKERS (36132)   |                         |                  |
| Massachusetts.....  | 14,337             | 15,423           | West.....  | 3,938              |                          | United States, total....   | 208,882                 | 200,990          |
| Middle Atlantic.....  | 101,890            | 114,236          | POWER AND DISTRIBUTION TRANSFORMERS, EXCEPT PARTS (36122)  |                    |                          | New England.....   | 26,924                  | 24,113           |
| New York.....   | 39,745             | 45,930           | United States, total....   | 434,476            | 421,726                  | Middle Atlantic.....   | 126,628                 | 126,100          |
| New Jersey.....   | 52,228             | 54,520           | Northeast.....   | 192,647            | 235,788                  | Pennsylvania.....  | 100,750                 | 100,483          |
| Pennsylvania.....   | 9,917              | 13,786           | New York.....  | 3,159              | ( <sup>2</sup> )         | North Central.....   | 39,790                  | 29,577           |
| East North Central.....   | 68,301             | ( <sup>2</sup> ) | New Jersey.....  | 2,577              | 2,213                    | Indiana.....   | 4,091                   | ( <sup>2</sup> ) |
| Illinois.....   | 38,135             | 21,724           | North Central.....   | 99,550             | 90,086                   | Illinois.....  | 3,916                   | ( <sup>2</sup> ) |
| Michigan.....   | 11,077             | 8,009            | Illinois.....  | 1,756              | ( <sup>2</sup> )         | South.....   | 3,358                   | } 21,200         |
| Ohio.....   | 13,679             | ( <sup>2</sup> ) | Wisconsin.....   | 14,259             | 16,495                   | West.....  | 12,182                  |                  |
| West North Central.....   | 6,421              | ( <sup>2</sup> ) | South.....   | 107,007            | } 95,852                 | California.....  | 10,401                  |                  |
| South.....  | 26,275             | 8,983            | Texas.....   | 4,185              |                          | LOW VOLTAGE PANELBOARDS AND DISTRIBUTION BOARDS AND SWITCHING AND INTERRUPTING DEVICES 750 VOLTS AND UNDER (36133)                 |                         |                  |
| Maryland.....   | 4,685              | ( <sup>2</sup> ) | West.....  | 35,272             | United States, total.... | 304,214  | 224,223                 |                  |
| Florida.....  | 5,805              | ( <sup>2</sup> ) | POWER REGULATORS, BOOSTERS, AND REACTORS, OTHER TRANSFORMERS, AND TRANSFORMER PARTS (36123)                                  |                    |                          | New England.....   | 36,270                  | 25,330           |
| Texas.....  | 4,190              | ( <sup>2</sup> ) | United States, total....   | 90,282             | 80,982                   | Massachusetts.....   | 9,482                   | 6,393            |
| West.....   | 214,143            | 126,081          | Northeast.....   | 55,336             | 59,149                   | Middle Atlantic.....   | 78,121                  | 54,061           |
| California.....   | 132,272            | ( <sup>2</sup> ) | New Jersey.....  | 4,607              | ( <sup>2</sup> )         | New York.....  | 25,412                  | 25,060           |
| OTHER ELECTRICAL MEASURING INSTRUMENTS (36113)  |                    |                  | North Central.....   | 20,041             | 19,491                   | New Jersey.....  | 19,656                  | 18,728           |
| United States, total....  | 204,728            | 140,053          | Ohio.....  | 2,472              | ( <sup>2</sup> )         | Pennsylvania.....  | 33,053                  | 10,273           |
| New England.....  | 50,757             | 33,035           | Illinois.....  | 10,221             | 3,459                    | East North Central.....  | 74,646                  | 71,691           |
| New Hampshire.....  | 18,944             | ( <sup>2</sup> ) | Wisconsin.....   | 4,255              | ( <sup>2</sup> )         | Ohio.....  | 16,447                  | 17,715           |
| Massachusetts.....  | 24,930             | ( <sup>2</sup> ) | South.....   | 12,129             | } 2,342                  | Illinois.....  | 24,306                  | 19,707           |
| Connecticut.....  | 6,883              | 2,723            | West.....  | 2,776              |                          | Michigan.....  | 14,529                  | ( <sup>2</sup> ) |
| Middle Atlantic.....  | 44,884             | 35,445           | SWITCHGEAR, INCLUDING POWER SWITCHGEAR ASSEMBLIES AND OTHER SWITCHING AND INTERRUPTING DEVICES, 2,300 VOLTS AND OVER (36131) |                    |                          | West North Central.....  | 6,118                   | } 21,258         |
| New York.....   | 9,658              | 5,982            | United States, total....   | 437,168            | 419,932                  | South Atlantic.....  | 19,438                  |                  |
| New Jersey.....   | 18,852             | 23,305           | New England.....   | 30,587             | 29,598                   | Georgia.....   | 12,897                  |                  |
| Pennsylvania.....   | 16,374             | 6,158            | Connecticut.....   | 15,384             | ( <sup>2</sup> )         | East South Central.....  | 25,908                  | } 19,034         |
| East North Central.....   | 44,860             | 23,544           | Middle Atlantic.....   | 171,950            | 208,592                  | West South Central.....  | 13,717                  |                  |
| Ohio.....   | 19,892             | 9,642            | New York.....  | 17,567             | 12,103                   | Mountain.....  | 4,031                   | } 32,849         |
| Illinois.....   | 15,615             | 5,460            | New Jersey.....  | 33,284             | 21,598                   | Pacific.....   | 45,965                  |                  |
| Wisconsin.....  | 2,506              | 4,755            | Pennsylvania.....  | 121,099            | 174,891                  | California.....  | 40,542                  | 26,803           |
| West North Central.....   | 2,726              | 1,182            | East North Central.....  | 149,778            | 120,179                  | FUSES AND FUSE EQUIPMENT, UNDER 2,300 VOLTS (EXCEPT POWER DISTRIBUTION CUTOUPS) (36134)  |                         |                  |
| South.....  | 8,439              | } 46,847         | Ohio.....  | 25,105             | 19,604                   | United States, total....   |                         | 41,935           |
| Texas.....  | 4,620              |                  | Illinois.....  | 74,485             | 57,985                   | New England.....   |                         | 5,100            |
| Mountain.....   | 8,310              |                  | Wisconsin.....   | 29,473             | 21,442                   | Middle Atlantic.....   |                         | 4,824            |
| Pacific.....  | 44,752             |                  | SWITCHGEAR, INCLUDING POWER SWITCHGEAR ASSEMBLIES AND OTHER SWITCHING AND INTERRUPTING DEVICES, 2,300 VOLTS AND OVER (36131) |                    |                          | South.....   |                         | 2,072            |
| SPECIALTY TRANSFORMERS AND FLUORESCENT BALLASTS, EXCEPT PARTS (36121)                       |                    |                  | United States, total....   | 437,168            | 419,932                  | All other divisions.....   |                         | 29,939           |
| United States, total....  | 163,008            | 130,023          | New England.....   | 30,587             | 29,598                   |  |                         |                  |
| New England.....  | 2,886              | 2,866            | Connecticut.....   | 15,384             | ( <sup>2</sup> )         |  |                         |                  |
| Middle Atlantic.....  | 37,063             | 25,277           | Middle Atlantic.....   | 171,950            | 208,592                  |  |                         |                  |
| New York.....   | 7,675              | 4,771            | New York.....  | 17,567             | 12,103                   |  |                         |                  |
|   |                    |                  | New Jersey.....  | 33,284             | 21,598                   |  |                         |                  |
|   |                    |                  | Pennsylvania.....  | 121,099            | 174,891                  |  |                         |                  |
|   |                    |                  | East North Central.....  | 149,778            | 120,179                  |  |                         |                  |
|   |                    |                  | Ohio.....  | 25,105             | 19,604                   |  |                         |                  |
|   |                    |                  | Illinois.....  | 74,485             | 57,985                   |  |                         |                  |
|   |                    |                  | Wisconsin.....   | 29,473             | 21,442                   |  |                         |                  |
|   |                    |                  | West North Central.....  | 15,597             | 10,455                   |  |                         |                  |
|   |                    |                  | Missouri.....  | 7,738              | 7,081                    |  |                         |                  |

See footnotes at end of table.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area   | Value of shipments |                  | Product class and geographic area   | Value of shipments |                         | Product class and geographic area  | Value of shipments |                  |
|---|--------------------|------------------|---|--------------------|-------------------------|--|--------------------|------------------|
|   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958                    |  | 1963 <sup>1</sup>  | 1958             |
| FRACTIONAL HORSEPOWER MOTORS (36211)  |                    |                  | MOTOR-GENERATOR SETS AND OTHER ROTATING EQUIPMENT (36215)—Continued                                     |                    |                         | ARC WELDING MACHINES, COMPONENTS, AND ACCESSORIES, EXCEPT ELECTRODES (36231) |                    |                  |
| United States, total.....   | 620,265            | 435,820          | Middle Atlantic.....  | 71,436             | 84,068                  | United States, total...  | 104,508            | 65,797           |
| New England.....  | 15,841             | 15,604           | New York.....   | 22,532             | 15,700                  | Northeast.....   | 19,869             | 12,462           |
| Massachusetts.....  | 6,988              | 7,595            | New Jersey.....   | 6,226              | 27,555                  | New York.....  | 5,113              | ( <sup>2</sup> ) |
| Middle Atlantic.....  | 124,154            | 66,937           | Pennsylvania.....   | 42,678             | 40,813                  | East North Central.....  | 69,275             | ( <sup>2</sup> ) |
| New York.....   | 102,449            | 55,240           | East North Central.....   | 125,356            | 57,972                  | Illinois.....  | 1,062              | (Z)              |
| New Jersey.....   | 15,239             | 9,189            | Ohio.....   | 60,439             | 29,892                  | Michigan.....  | 10,742             | 6,122            |
| Pennsylvania.....   | 6,466              | 2,508            | Illinois.....   | 7,513              | 4,724                   | West North Central.....  | 8,123              | ( <sup>2</sup> ) |
| East North Central.....   | 328,448            | 274,256          | West North Central.....   | 5,875              | 18,757                  | Missouri.....  | 3,963              | 2,600            |
| Ohio.....   | 114,985            | 136,126          | Minnesota.....  | 2,911              |                         | South and West.....  | 7,241              | 4,435            |
| Indiana.....  | 98,497             | 69,796           | California.....   | 10,949             | 8,696                   | California.....  | 1,683              | ( <sup>2</sup> ) |
| Illinois.....   | 49,017             | 36,269           | PARTS AND SUPPLIES FOR MOTORS, GENERATORS, AND MOTOR-GENERATOR SETS, EXCEPT LAND TRANSPORTATION (36216) |                    |                         | ARC WELDING ELECTRODES, METAL (36232)  |                    |                  |
| Michigan.....   | 41,713             | 12,634           | United States, total....  | 127,593            | 108,881                 | United States, total...  | 148,238            | 116,438          |
| Wisconsin.....  | 24,236             | 19,431           | New England.....  | 6,918              | 4,707                   | Northeast.....   | 48,667             | 29,659           |
| West North Central.....   | 31,485             | 37,076           | Connecticut.....  | 4,156              | 3,624                   | Pennsylvania.....  | 33,129             | 20,488           |
| Missouri.....   | 28,266             | 33,939           | Middle Atlantic.....  | 49,006             | 40,033                  | North Central.....   | 72,360             | 65,634           |
| South Atlantic.....   | 17,680             | 28,161           | New York.....   | 13,930             | 19,899                  | Ohio.....  | 51,614             | 45,023           |
| East South Central.....   | 37,426             |                  | 19,238  | New Jersey.....    | 12,972                  | 4,671  | Michigan.....      | 1,513            |
| West South Central.....   | 45,022             | 13,786           | Pennsylvania.....   | 22,104             | 15,463                  | South and West.....  | 27,211             | 21,145           |
| Arkansas.....   | 45,022             |                  | East North Central.....   | 51,684             | 51,619                  | RESISTANCE WELDERS, COMPONENTS, ACCESSORIES AND ELECTRODES (36233)           |                    |                  |
| West.....   | 20,209             | Ohio.....        | 34,161  | 31,281             | United States, total... |  | 68,300             |                  |
| INTEGRAL HORSEPOWER MOTORS AND GENERATORS, EXCEPT LAND TRANSPORTATION (36212) |                    |                  | Indiana.....  | 4,868              | ( <sup>2</sup> )        | Northeast.....   |                    | 8,673            |
| United States, total....  | 380,244            | 430,458          | Illinois.....   | 2,222              | ( <sup>2</sup> )        | North Central.....   |                    | 57,490           |
| Northeast.....  | 173,318            | 217,089          | Michigan.....   | 4,779              | 3,499                   | Ohio.....  |                    | 10,998           |
| New Jersey.....   | 8,991              | ( <sup>2</sup> ) | Wisconsin.....  | 5,654              | 3,416                   | Michigan.....  |                    | 29,893           |
| East North Central.....   | 141,284            | 145,742          | West North Central.....   | 4,822              | 4,730                   | Wisconsin.....   |                    | 1,762            |
| Ohio.....   | 73,533             | 82,720           | South.....  | 7,909              | ( <sup>2</sup> )        | South and West.....  |                    | 2,137            |
| Michigan.....   | 4,742              | ( <sup>2</sup> ) | West.....   | 7,254              | ( <sup>2</sup> )        | CARBON AND GRAPHITE PRODUCTS (36240)   |                    |                  |
| Wisconsin.....  | 45,092             | 32,859           | California.....   | 6,822              | 3,375                   | United States, total...  |                    | 217,817          |
| West North Central.....   | 32,600             | ( <sup>2</sup> ) | GENERAL INDUSTRY POWER CIRCUIT DEVICES AND CONTROLS (36220)   |                    |                         | New England.....   |                    | 1,469            |
| Missouri.....   | 17,678             | 25,897           | United States, total....  | 633,274            | 447,297                 | Middle Atlantic.....   |                    | 87,906           |
| South.....  | 6,000              | (Z)              | New England.....  | 46,518             | 28,789                  | New York.....  |                    | 53,144           |
| West.....   | 27,042             | ( <sup>2</sup> ) | Connecticut.....  | 26,159             | 18,545                  | Middle Atlantic.....   |                    | 87,906           |
| PRIME MOVER GENERATOR SETS, EXCEPT STEAM OR HYDRAULIC TURBINE (36214)         |                    |                  | Middle Atlantic.....  | 107,852            | 78,892                  | New York.....  |                    | 53,144           |
| United States, total....  |                    | 104,633          | New Jersey.....   | 25,810             | 7,333                   | North Central and South....  |                    | 125,813          |
| Northeast.....  |                    | 18,926           | Pennsylvania.....   | 33,302             | 28,972                  | Illinois.....  |                    | 3,486            |
| East North Central.....   |                    | 57,658           | East North Central.....   | 328,562            | 237,362                 | Pacific.....   |                    | 2,629            |
| Ohio.....   |                    | 5,879            | Ohio.....   | 54,294             | 46,039                  | California.....  |                    | 2,629            |
| Illinois.....   |                    | 24,838           | New York.....   | 48,740             | 42,587                  | CAPACITORS FOR INDUSTRIAL USE (EXCEPT FOR ELECTRONIC APPLICATIONS) (36291)   |                    |                  |
| Michigan.....   |                    | 2,263            | New Jersey.....   | 25,810             | 7,333                   | United States, total...  |                    | 51,430           |
| Wisconsin.....  |                    | 24,678           | Pennsylvania.....   | 33,302             | 28,972                  | East North Central.....  |                    | 17,575           |
| West North Central.....   |                    | 18,949           | East North Central.....   | 328,562            | 237,362                 | All other divisions.....   |                    | 33,855           |
| South.....  |                    | 5,270            | Ohio.....   | 54,294             | 46,039                  |  |                    |                  |
| Pacific.....  |                    | 3,830            | Indiana.....  | 9,109              | 7,260                   |  |                    |                  |
| California.....   |                    | 3,830            | Illinois.....   | 84,125             | 55,807                  |  |                    |                  |
| MOTOR-GENERATOR SETS AND OTHER ROTATING EQUIPMENT (36215)                     |                    |                  | Michigan.....   | 23,622             | 9,068                   |  |                    |                  |
| United States, total....  | 246,226            | 164,057          | Wisconsin.....  | 157,412            | 119,188                 |  |                    |                  |
| New England.....  | 7,248              | 3,260            | West North Central.....   | 11,581             | 9,554                   |  |                    |                  |
|   |                    |                  | Minnesota.....  | 7,960              | 6,801                   |  |                    |                  |
|   |                    |                  | South.....  | 96,765             | 66,412                  |  |                    |                  |
|   |                    |                  | Texas.....  | 7,631              | ( <sup>2</sup> )        |  |                    |                  |
|   |                    |                  | Mountain.....   | 2,364              | 1,116                   |  |                    |                  |
|   |                    |                  | Pacific.....  | 39,632             | 25,172                  |  |                    |                  |
|   |                    |                  | Washington.....   | 3,685              | 3,188                   |  |                    |                  |
|   |                    |                  | California.....   | 35,090             | 21,691                  |  |                    |                  |

See footnotes at end of table.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area | Value of shipments |                  | Product class and geographic area                     | Value of shipments |                   | Product class and geographic area                                | Value of shipments |                  |
|-----------------------------------|--------------------|------------------|---|--------------------|-------------------|--|--------------------|------------------|
|                                   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958              |  | 1963 <sup>2</sup>  | 1958             |
| RECTIFYING APPARATUS (36292)      |                    |                  | RECTIFYING APPARATUS (36292)--Continued               |                    |                   | OTHER ELECTRICAL EQUIPMENT FOR INDUSTRIAL USE (36293)--Continued |                    |                  |
| United States, total.....         | 86,898             | 73,072           | South.....  | 4,742              | } 11,589          | Middle Atlantic.....   | 30,073             | 17,860           |
| New England.....                  | 1,858              | ( <sup>2</sup> ) | West.....   | 8,089              |                   | New York.....  | 3,010              | 3,748            |
| Middle Atlantic.....              | 35,138             | ( <sup>2</sup> ) |   |                    | New Jersey.....   | 6,368  | 3,800              |                  |
| Pennsylvania.....                 | 24,963             | 13,247           | OTHER ELECTRICAL EQUIPMENT FOR INDUSTRIAL USE (36293) |                    | Pennsylvania..... | 20,695   | 10,312             |                  |
| East North Central.....           | 30,878             | 27,262           | United States, total....                              | 103,681            | 77,064            | East North Central.....  | 51,102             | ( <sup>2</sup> ) |
| Ohio.....                         | 15,711             | 11,507           |   |                    |                   | Ohio.....  | 17,094             | 12,341           |
| Illinois.....                     | 10,646             | 8,288            | New England.....                                      | 7,123              | 9,723             | Indiana.....   | 12,186             | 6,116            |
| West North Central.....           | 6,193              | 7,117            | Connecticut.....                                      | 3,752              | 4,060             | Illinois.....  | 13,995             | 11,669           |
| Missouri.....                     | 1,736              | 1,654            |   |                    |                   | Michigan.....  | 4,376              | ( <sup>2</sup> ) |
|                                   |                    |                  |   |                    |                   | Wisconsin.....   | 3,451              | ( <sup>2</sup> ) |
|                                   |                    |                  |   |                    |                   | West North Central.....  | 2,613              | ( <sup>2</sup> ) |
|                                   |                    |                  |   |                    |                   | South.....   | 2,038              | } 11,818         |
|                                   |                    |                  |   |                    |                   | West.....  | 10,732             |                  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported.

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed, but the exact figures are withheld to avoid disclosure of individual company figures: 36111, New Hampshire, New York, Ohio, Indiana, Illinois, North Carolina, South Carolina, Texas, Oregon, and California; 36112, New Hampshire, Connecticut, Indiana, Wisconsin, Iowa, Missouri, Georgia, Mississippi, Oklahoma, Colorado, Washington, and Oregon; 36113, Indiana, Michigan, Minnesota, Oklahoma, Colorado, and California; 36121, Massachusetts, New Jersey, Pennsylvania, Indiana, Wisconsin, North Carolina, Mississippi, Oregon, and California; 36122, Massachusetts, Pennsylvania, Ohio, Indiana, Michigan, Missouri, Virginia, North Carolina, Georgia, Florida, Alabama, Mississippi, Arkansas, Oregon, and California; 36123, Massachusetts, Connecticut, Pennsylvania, Indiana, Missouri, West Virginia, Georgia, Alabama, and California; 36131, Massachusetts, Indiana, Michigan, Minnesota, Iowa, North Carolina, Georgia, Arkansas, Texas, and Oregon; 36132, Massachusetts, Connecticut, New York, New Jersey, Ohio, Michigan, Iowa, and Maryland; 36133, New Hampshire, Connecticut, Indiana, Wisconsin, Missouri, North Carolina, Kentucky, Texas, Colorado, Utah, and Washington; 36134, Massachusetts, Rhode Island, New York, Illinois, Minnesota, Missouri, and Arkansas; 36211, New Hampshire, Connecticut, Minnesota, Maryland, Virginia, North Carolina, South Carolina, Kentucky, Tennessee, Colorado, and California; 36212, Connecticut, New York, Pennsylvania, Indiana, Illinois, Minnesota, Virginia, Georgia, Arkansas, and California; 36214, Connecticut, New York, New Jersey, Pennsylvania, Minnesota, Iowa, Missouri, Virginia, South Carolina, and Louisiana; 36215, Connecticut, Indiana, Michigan, Wisconsin, Missouri, North Carolina, Kentucky, and Colorado; 36216, Massachusetts, Minnesota, Kentucky, and Oklahoma; 36220, Massachusetts, Missouri, Maryland, Virginia, North Carolina, Georgia, Kentucky, Oklahoma, and Colorado; 36231, Connecticut, New Jersey, Pennsylvania, Ohio, Wisconsin, Minnesota, Kansas, Texas, and Colorado; 36232, New York, New Jersey, Indiana, Wisconsin, Minnesota, Maryland, Alabama, and California; 36233, New York, Indiana, Illinois, and California; 36240, Massachusetts, New Jersey, Pennsylvania, Ohio, Michigan, Wisconsin, West Virginia, North Carolina, and Tennessee; 36291, Massachusetts, New York, New Jersey, Ohio, Indiana, Illinois, Wisconsin, and South Carolina; 36292, Massachusetts, New York, New Jersey, Indiana, Minnesota, North Carolina, Texas, and California; 36293, Maine, Massachusetts, Minnesota, and Missouri.

<sup>2</sup>Shipments of \$1 million or more were reported, but exact figures are withheld to avoid disclosure of individual company figures.

TABLE 7A. Materials by Kind: 1963 and 1958

| Code  | Material  | Unit of measure                | 1963     |                          | 1958     |                          |
|---|---|--------------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                                | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3611.—ELECTRIC MEASURING INSTRUMENTS |   |                                |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....  |                                | (X)      | 217,126                  | (X)      | 208,678                  |
|   | Mill shapes (except castings):  |                                |          |                          |          |                          |
|   | Carbon steel:   |                                |          |                          |          |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....                | 919      | 540                      | 612      | 189                      |
| 331012  | Sheet and strip.....  | ..do.....                      | 8,759    | 1,631                    | 6,775    | 1,520                    |
| 331013  | Plates.....   | ..do.....                      | 90       | 27                       | 238      | 48                       |
| 331015  | Structural shapes.....  | ..do.....                      |          |                          | 664      | 181                      |
| 331017  | Wire and wire products.....   | ..do.....                      | 227      | 354                      | 326      | 128                      |
| 331019  | All other carbon steel mill shapes and forms.....   | ..do.....                      |          |                          | 211      | 42                       |
|   | Alloy steel (except stainless):   |                                |          |                          |          |                          |
| 331021  | Bars and bar shapes.....  | ..do.....                      | 42       | 71                       | 1,180    | 511                      |
| 331029  | All other alloy steel mill shapes and forms.....  | ..do.....                      | 3,745    | 1,651                    | 2,709    | 980                      |
| 331031  | Stainless steel.....  | ..do.....                      | 563      | 763                      | 692      | 983                      |
|   | Copper and copper-base alloy:   |                                |          |                          |          |                          |
| 335728  | Bare wire (for electrical conduction only).....   | 1,000 lbs.....                 | 1,338    | 1,065                    | 1,880    | 1,124                    |
| 335790  | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content) | 6,407    | 3,257                    | 3,890    | 3,460                    |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                      | 1,000 lbs.....                 | 1,300    | 886                      |          |                          |
| 335123  | Plate, sheet, and strip (including military cups and discs).....                                | ..do.....                      | 1,512    | 1,263                    | 4,378    | 2,556                    |
| 335127  | Pipe and tube.....  | ..do.....                      |          |                          |          |                          |
|   | Aluminum and aluminum-base alloy:   |                                |          |                          |          |                          |
| 335202  | Sheet, plate, and foil.....   | ..do.....                      | 4,397    | 2,409                    | 5,787    | 3,162                    |
| 335205  | Extruded shapes (including extruded rod, bar, pipe tube, etc.).....                             | ..do.....                      | 914      | 787                      |          |                          |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing)..... | ..do.....                      | 2,075    | 807                      | 3,409    | 1,674                    |
|   | Castings (rough and semifinished):  |                                |          |                          |          |                          |
| 332300  | Steel.....  | Short tons.....                | 210      | 699                      | 1,126    | 1,007                    |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                 | 1,797    | 1,204                    | 2,346    | 1,553                    |
| 336200  | Copper and copper-base alloy.....   | ..do.....                      | 112      | 54                       | 572      | 403                      |
| 362110  | Fractional horsepower electric motors (under 1 hp.):  |                                |          |                          |          |                          |
| 362115  | Timing motors, synchronous and subsynchronous.....  | 1,000.....                     | 283      | 1,764                    | 34       | 413                      |
|   | Other fractional horsepower electric motors (excluding timing motors).....                      | ..do.....                      | 106      | 832                      | 20       | 533                      |
|   | Bearings:   |                                |          |                          |          |                          |
| 356218  | Ball.....   | .....                          | (X)      |                          | (X)      |                          |
| 356228  | Roller.....   | .....                          | (X)      | 862                      |          | 410                      |
| 367010  | Electron tubes, except X-ray.....   | 1,000 units.....               | 8,798    | 10,190                   | 5,090    | 7,640                    |
| 367408  | Solid state semiconductors.....   | ..do.....                      | 12,833   | 9,386                    | 1,276    | 2,367                    |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....               | .....                          | (X)      | 140,689                  | (X)      | 147,319                  |
| 973000  | Materials, containers, supplies, n.s.k.....   | .....                          | (X)      | 135,935                  | (X)      | 130,475                  |
| INDUSTRY 3612.—TRANSFORMERS                   |   |                                |          |                          |          |                          |
|   | Materials, components, parts, containers, and supplies consumed, total.....                     |                                | (X)      | 324,538                  | (X)      | 246,093                  |
|   | Mill shapes and forms (except castings):  |                                |          |                          |          |                          |
|   | Carbon steel:   |                                |          |                          |          |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....                | 8,021    | 1,388                    | 7,060    | 1,253                    |
| 331012  | Sheet and strip.....  | ..do.....                      | 164,036  | 39,325                   | 65,818   | 13,173                   |
| 331013  | Plates.....   | ..do.....                      | 48,301   | 6,527                    | 52,458   | 4,310                    |
| 331015  | Structural shapes.....  | ..do.....                      | 11,593   | 1,735                    | 9,549    | 2,228                    |
| 331019  | All other carbon steel mill shapes and forms.....   | ..do.....                      | 9,907    | 4,078                    | 7,537    | 3,212                    |
| 331020  | Alloy steel (except stainless).....   | ..do.....                      | 107,615  | 42,690                   | 111,913  | 44,449                   |
| 331031  | Stainless steel mill shapes and forms.....  | ..do.....                      | 880      | 822                      | 209      | 446                      |
|   | Copper and copper-base alloy:   |                                |          |                          |          |                          |
| 335728  | Bare wire (for electrical conduction only).....   | 1,000 lbs.....                 | 62,343   | 32,081                   | 45,002   | 22,185                   |
| 335790  | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content) | 81,912   | 34,886                   | 32,111   | 21,423                   |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                      | 1,000 lbs.....                 | 15,896   | 6,024                    |          |                          |
| 335123  | Plate, sheet and strip (including military cups and discs).....                                 | ..do.....                      | 30,151   | 2,045                    | 21,478   | 7,728                    |
| 335127  | Pipe and tube.....  | ..do.....                      | 978      | 655                      |          |                          |
|   | Aluminum and aluminum-base alloy:   |                                |          |                          |          |                          |
| 335205  | Extruded shapes, (including extruded rod, bar, pipe tube, etc.).....                            | ..do.....                      | 1,585    | 740                      | (NA)     | (NA)                     |
| 335207  | Sheet plate and foil.....   | ..do.....                      |          |                          | (NA)     | (NA)                     |
| 335209  | All other aluminum mill shapes and forms.....   | ..do.....                      | 5,199    | 2,424                    |          |                          |
| 970099  | All other materials and components, parts, containers and supplies consumed.....                | .....                          | (X)      | 143,716                  | (X)      | 119,454                  |
| 976000  | Materials, components, parts, containers and supplies consumed, n.s.k.....                      | .....                          | (X)      | 5,402                    | (X)      | 6,232                    |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code                                       | Material  | Unit of measure                | 1963     |                          | 1958     |                          |
|--|---|--------------------------------|----------|--------------------------|----------|--------------------------|
|  |   |                                | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3613.—SWITCHGEAR AND SWITCHBOARDS |   |                                |          |                          |          |                          |
|  | Materials, parts, containers and supplies, total.....   |                                | (X)      | 400,444                  | (X)      | 337,713                  |
|  | Mill shapes and forms (except castings):  |                                |          |                          |          |                          |
|  | Carbon steel:   |                                |          |                          |          |                          |
| 331011                                     | Bars and bar shapes.....  | Short tons.....                | 20,840   | 3,538                    | 18,428   | 3,098                    |
| 331012                                     | Sheet and strip.....  | ..do.....                      | 200,482  | 33,846                   | 97,174   | 15,904                   |
| 331013                                     | Plates.....   | ..do.....                      | 17,045   | 2,149                    | 18,701   | 3,032                    |
| 331015                                     | Structural shapes.....  | ..do.....                      | 10,406   | 2,222                    | 14,894   | 2,791                    |
| 331019                                     | All other carbon steel mill shapes and forms.....   | ..do.....                      | 6,365    | 1,843                    | 3,794    | 1,328                    |
| 331020                                     | Alloy steel (except stainless).....   | ..do.....                      | 2,666    | 1,364                    | 14,511   | 3,501                    |
| 331031                                     | Stainless steel.....  | ..do.....                      | 637      | 695                      | 482      | 664                      |
|  | Copper and copper-base alloy:   |                                |          |                          |          |                          |
| 335728                                     | Bare wire (for electrical conduction only).....   | 1,000 lbs.....                 | 3,023    | 1,999                    | 5,431    | 3,006                    |
| 335790                                     | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content) | 5,153    | 3,665                    | 5,961    | 4,771                    |
| 335102                                     | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....  | 1,000 lbs.....                 | 35,584   | 18,838                   | 41,740   | 22,457                   |
| 335123                                     | Plate, sheet and strip (including military cups and discs).....   | ..do.....                      | 11,471   | 6,657                    |          |                          |
| 335127                                     | Pipe and tube.....  | ..do.....                      | 2,423    | 1,341                    |          |                          |
|  | Aluminum and aluminum-base alloy:   |                                |          |                          |          |                          |
| 335202                                     | Sheet, plate, and foil.....   | ..do.....                      | 2,690    | 1,346                    | 6,992    | 2,301                    |
| 335205                                     | Extruded shapes (including extruded rod, bar, pipe tube, etc.)..  | ..do.....                      | 5,644    | 3,019                    |          |                          |
| 335209                                     | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing).....   | ..do.....                      | 2,030    | 982                      |          |                          |
|  | Castings (rough and semifinished):  |                                |          |                          |          |                          |
| 332300                                     | Steel.....  | Short tons.....                | 1,270    | 1,329                    | 3,642    | 3,502                    |
| 336100                                     | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                 | 3,212    | 2,747                    | 2,114    | 1,723                    |
| 336200                                     | Copper and copper-base alloy.....   | ..do.....                      | 10,297   | 6,863                    | 8,250    | 5,721                    |
|  | Industrial electrical control equipment (received for incorporation only into other industrial electrical control equipment shipped, as such, by this plant): |                                |          |                          |          |                          |
| 362200                                     | Purchased from other companies.....   |                                | (X)      | 239,991                  | (X)      | 231,619                  |
| 362209                                     | Received from other plants of your company.....   |                                | (X)      | 247,310                  | (X)      | 240,997                  |
| 282130                                     | Thermoplastic resins, including modified resins.....  | 1,000 lbs.....                 | 3,655    | 1,143                    | (NA)     | (NA)                     |
| 282140                                     | Thermosetting resins.....   | ..do.....                      | 12,314   | 4,478                    | (NA)     | (NA)                     |
| 970099                                     | All other materials and components, parts, containers and supplies consumed.....  |                                | (X)      | 177,255                  | (X)      | 169,620                  |
| 976000                                     | Materials, containers, supplies, n.s.k.....   |                                | (X)      | 135,824                  | (X)      | 119,330                  |
| INDUSTRY 3621.—MOTORS AND GENERATORS       |   |                                |          |                          |          |                          |
|  | Materials, parts, supplies, and containers, total.....  |                                | (X)      | 662,068                  | (X)      | 500,425                  |
|  | Mill shapes and forms (except castings):  |                                |          |                          |          |                          |
|  | Carbon steel:   |                                |          |                          |          |                          |
| 331011                                     | Bars and bar shapes.....  | Short tons.....                | 99,561   | 21,648                   | 43,155   | 9,108                    |
| 331012                                     | Sheet and strip.....  | ..do.....                      | 546,804  | 95,628                   | 284,490  | 58,757                   |
| 331013                                     | Plates.....   | ..do.....                      | 55,441   | 8,545                    | 46,554   | 7,846                    |
| 331017                                     | Wire and wire products.....   | ..do.....                      | 13,905   | 3,477                    | 3,110    | 1,070                    |
| 331019                                     | All other carbon steel mill shapes and forms.....   | ..do.....                      | 22,251   | 5,484                    | 22,299   | 6,697                    |
| 331020                                     | Alloy steel (except stainless).....   | ..do.....                      | 12,854   | 6,732                    | 58,382   | 13,026                   |
| 331031                                     | Stainless steel.....  | ..do.....                      | 4,218    | 4,456                    | 1,305    | 2,264                    |
|  | Copper and copper-base alloy:   |                                |          |                          |          |                          |
| 335728                                     | Bare wire.....  | 1,000 lbs.....                 | 25,307   | 15,475                   | 59,817   | 26,419                   |
| 335790                                     | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content) | 113,610  | 65,586                   | 66,246   | 42,386                   |
| 335102                                     | Rod, bar, and mechanical wire.....  | 1,000 lbs.....                 | 70,325   | 28,201                   | 27,972   | 11,611                   |
| 335123                                     | Plate, sheet and strip.....   | ..do.....                      | 5,809    | 3,212                    |          |                          |
| 335127                                     | Pipe and tube.....  | ..do.....                      | 452      | 438                      |          |                          |
|  | Aluminum and aluminum-base alloy:   |                                |          |                          |          |                          |
| 335202                                     | Sheet, plate and foil.....  | ..do.....                      | 1,491    | 964                      | 22,102   | 13,738                   |
| 335205                                     | Extruded shapes.....  | ..do.....                      | 4,251    | 1,904                    |          |                          |
| 335209                                     | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder welded tubing).....  | ..do.....                      | 12,674   | 3,630                    |          |                          |
|  | Primary metals:   |                                |          |                          |          |                          |
| 333122                                     | Copper and copper-base alloy refinery shapes.....   | Short tons.....                | 644      | 624                      | 576      | 416                      |
| 333401                                     | Aluminum and aluminum-base alloy refinery shapes.....   | ..do.....                      | 13,891   | 5,946                    | (NA)     | (NA)                     |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | Unit of measure  | 1963   |                          | 1958     |                          |
|--|---|------------------|--|--------------------------|----------|--------------------------|
|  |   |                  | Quantity                                       | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
|  |   |                  | INDUSTRY 3621.—MOTORS AND GENERATORS—Continued |                          |          |                          |
| Materials, parts, containers and supplies—Continued    |   |                  |  |                          |          |                          |
| Castings (rough and semifinished):                     |   |                  |  |                          |          |                          |
| 332011   | Iron (gray and malleable).....  | Short tons.....  | 92,032   | 29,470                   | 63,707   | 21,535                   |
| 332300   | Steel.....  | ..do.....        | 4,041  | 3,086                    | 4,916    | 3,443                    |
| 336100   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....   | 20,941   | 14,384                   | 11,225   | 7,681                    |
| 336200   | Copper and copper-base alloy.....   | ..do.....        | 2,428  | 2,167                    | 1,184    | 980                      |
| 339100   | Iron and steel forgings.....  | Short tons.....  | 6,915  | 3,985                    | 3,038    | 2,883                    |
| Engines:   |   |                  |  |                          |          |                          |
| 351901   | Diesel and semidiesel .....   | Number.....      | 2,744  | 5,111                    | 819      | 2,432                    |
| 351901   | Gasoline and other carburetor.....  | ..do.....        | 7,359  | 2,915                    | 12,755   | 4,207                    |
| 362120   | Integral horsepower electric motors and generators.....                           | Thousands.....   | 10   | 6,101                    | 11       | 10,467                   |
| Bearings:  |   |                  |  |                          |          |                          |
| 356218   | Ball.....   | .....            | (X)  | 19,029                   | (X)      |                          |
| 356228   | Roller.....   | .....            | (X)  | 1,825                    | (X)      | 12,157                   |
| 367010   | Electron tubes, except X-ray.....   | 1,000 units..... | 204  | 1,635                    | (NA)     | (NA)                     |
| 367408   | Solid state semiconductors.....   | ..do.....        | 1,138  | 2,081                    | (NA)     | (NA)                     |
| 970099   | All other materials, components, parts, containers, and supplies consumed.....    | .....            | (X)  | 264,684                  | (X)      | 230,850                  |
| 976000   | Materials, parts, supplies, and containers, n.s.k.....                            | .....            | (X)  | 33,645                   | (X)      | 9,265                    |
|  |   |                  | INDUSTRY 3622.—INDUSTRIAL CONTROLS             |                          |          |                          |
| Materials, parts, containers, and supplies, total..... |   |                  | (X)  | 195,509                  | (X)      | 113,401                  |
| Mill shapes and forms (except castings):               |   |                  |  |                          |          |                          |
| Carbon steel:  |   |                  |  |                          |          |                          |
| 331011   | Bars and bar shapes.....  | Short tons.....  | 8,743  | 1,810                    | 2,706    | 618                      |
| 331012   | Sheet and strip.....  | ..do.....        | 29,788   | 5,613                    | 18,756   | 3,446                    |
| 331013   | Plates.....   | ..do.....        | 1,055  | 210                      | 4,177    | 472                      |
| 331015   | Structural shapes.....  | ..do.....        | 2,543  | 608                      | 490      | 90                       |
| 331019   | All other carbon steel mill shapes and forms.....                                 | ..do.....        | 3,092  | 742                      | 358      | 117                      |
| 331020   | Alloy steel (except stainless).....   | ..do.....        | 1,662  | 488                      | 2,882    | 1,281                    |
| 331031   | Stainless steel.....  | ..do.....        | 1,339  | 1,905                    | 785      | 887                      |
| Copper and copper-base alloy:                          |   |                  |  |                          |          |                          |
| 335728   | Bare wire (for electrical conduction only).....                                   | 1,000 lbs.....   | 3,195  | 1,510                    | 2,133    | 1,248                    |
| 335790   | Insulated wire and cable.....   | 1,000 lbs.....   |  |                          |          |                          |
|  |   | (copper content) | 5,367  | 3,761                    | 3,102    | 2,169                    |
| 335102   | Rod, bar, and mechanical wire.....  | 1,000 lbs.....   | 4,099  | 2,388                    |          |                          |
| 335123   | Plate, sheet and strip.....   | ..do.....        | 4,007  | 2,547                    | 7,780    | 4,491                    |
| 335127   | Pipe and tube.....  | ..do.....        | 385  | 238                      |          |                          |
| Aluminum and aluminum-base alloy:                      |   |                  |  |                          |          |                          |
| 335202   | Sheet, plate and foil.....  | ..do.....        | 618  | 357                      | 304      | 121                      |
| 335205   | Extruded shapes (including extruded rod, bar, pipe tube, etc.).....               | ..do.....        | 398  | 224                      |          |                          |
| 335209   | All other aluminum mill shapes and forms (wire, rolled rod, and bar).....         | ..do.....        | 381  | 193                      | 191      | 122                      |
| Castings (rough and semifinished):                     |   |                  |  |                          |          |                          |
| 332300   | Steel.....  | Short tons.....  | 3,108  | 2,189                    | 3,650    | 1,450                    |
| 336100   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....   | 2,587  | 1,122                    | 1,808    | 1,116                    |
| 336200   | Copper and copper-base alloy.....   | ..do.....        | 958  | 837                      | 377      | 262                      |
| Industrial electrical control equipment:               |   |                  |  |                          |          |                          |
| 362200   | Purchased from other companies.....   | .....            | (X)  | 230,684                  | (X)      | 213,634                  |
| 362209   | Received from other plants of your company.....                                   | .....            | (X)  | 216,749                  | (X)      | 27,756                   |
| 282130   | Thermoplastic resins.....   | 1,000 lbs.....   | 487  | 281                      | (NA)     | (NA)                     |
| 282140   | Thermosetting resins.....   | ..do.....        | 8,720  | 1,827                    | (NA)     | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed..... | .....            | (X)  | 92,278                   | (X)      | 66,352                   |
| 976000   | Materials, containers, supplies, n.s.k.....                                       | .....            | (X)  | 126,948                  | (X)      | 17,769                   |
|  |   |                  | INDUSTRY 3623.—ELECTRIC WELDING APPARATUS      |                          |          |                          |
| Materials, parts, containers, and supplies, total..... |   |                  | (X)  | 150,549                  | (X)      | 122,036                  |
| Mill shapes and forms (except castings):               |   |                  |  |                          |          |                          |
| Carbon steel:  |   |                  |  |                          |          |                          |
| 331011   | Bars and bar shapes.....  | Short tons.....  | 9,998  | 2,403                    | 8,987    | 2,008                    |
| 331012   | Sheet and strip.....  | ..do.....        | 22,756   | 5,036                    | 17,012   | 3,539                    |
| 331017   | Wire and wire products.....   | ..do.....        | 236,169  | 36,183                   | 185,753  | 35,706                   |
| 331015   | Structural shapes.....  | ..do.....        | 2,203  | 642                      |          |                          |
| 331019   | All other carbon steel mill shapes and forms.....                                 | ..do.....        | 13,948   | 2,757                    | 18,914   | 2,509                    |
| 331020   | Alloy steel (except stainless).....   | ..do.....        | 6,175  | 4,569                    | 5,419    | 1,855                    |
| 331031   | Stainless steel.....  | ..do.....        | 8,830  | 12,718                   | 3,004    | 6,009                    |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure                 | 1963     |                          | 1958     |                          |
|---|---|---------------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                                 | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3623.—ELECTRIC WELDING APPARATUS—Continued                           |   |                                 |          |                          |          |                          |
| Mill shapes and forms (except castings)—Continued                             |   |                                 |          |                          |          |                          |
| Copper and copper-base alloy:   |   |                                 |          |                          |          |                          |
| 335728  | Bare wire.....  | 1,000 lbs.....                  | 1,385    | 847                      | 1,764    | 1,322                    |
| 335790  | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content)  | 6,375    | 4,245                    | 3,306    | 2,623                    |
| 335102  | Rod, bar, and mechanical wire.....  | 1,000 lbs.....                  | 4,866    | 3,666                    | 3,853    | 3,489                    |
| 335123  | Plate, sheet and strip.....   | ..do.....                       | 676      | 478                      |          |                          |
| 335127  | Pipe and tube.....  | ..do.....                       | 320      | 220                      |          |                          |
| 336200  | Copper and copper-base alloy castings.....  | ..do.....                       | 2,220    | 2,145                    | 2,779    | 2,204                    |
| 970099  | All other materials, components, parts, containers and supplies consumed.....     | .....                           | (X)      | 64,219                   | (X)      | 57,288                   |
| 976000  | Materials, containers, supplies, n.s.k.....                                       | .....                           | (X)      | 110,421                  | (X)      | 3,484                    |
| INDUSTRY 3624.—CARBON AND GRAPHITE PRODUCTS                                   |   |                                 |          |                          |          |                          |
| Materials, parts, containers, and supplies consumed, total <sup>3</sup> ..... |   |                                 |          |                          |          |                          |
| Mill shapes and forms (except castings):                                      |   |                                 |          |                          |          |                          |
| Copper and copper-base alloy:   |   |                                 |          |                          |          |                          |
| 335728  | Bare wire (for electrical conduction only).....                                   | 1,000 lbs.....                  | 659      | 619                      | (NA)     | (NA)                     |
| 335790  | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content)  | 33       | 17                       | (NA)     | (NA)                     |
| 335102  | Rod, bar, and mechanical wire.....  | 1,000 lbs.....                  | (D)      | (D)                      | (NA)     | (NA)                     |
| 335123  | Plate, sheet and strip.....   | ..do.....                       | 334      | 221                      | (NA)     | (NA)                     |
| 335127  | Pipe and tube.....  | ..do.....                       | (D)      | (D)                      | (NA)     | (NA)                     |
| 970099  | All other materials and components, parts, containers, and supplies consumed..... | .....                           | (X)      | 67,457                   | (NA)     | (NA)                     |
| 976000  | Materials, parts, containers, and supplies consumed, n.s.k.....                   | .....                           | (X)      | 3,068                    | (NA)     | (NA)                     |
| INDUSTRY 3629.—ELECTRIC INDUSTRIAL GOODS, N.E.C.                              |   |                                 |          |                          |          |                          |
| Materials, parts, containers, and supplies, total.....                        |   |                                 |          |                          |          |                          |
| Mill shapes and forms (except castings):                                      |   |                                 |          |                          |          |                          |
| Copper and copper-base alloy:   |   |                                 |          |                          |          |                          |
| 335728  | Bare wire.....  | 1,000 lbs.....                  | 5,636    | 3,262                    | 6,652    | 3,641                    |
| 335790  | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content). | 13,082   | 8,245                    | 6,575    | 5,433                    |
| 335102  | Rod, bar, and mechanical wire.....  | 1,000 lbs.....                  | 3,694    | 1,387                    | 3,370    | 2,229                    |
| 335123  | Plate, sheet and strip.....   | ..do.....                       | 2,100    | 396                      |          |                          |
| 335127  | Pipe and tube.....  | ..do.....                       | 492      | 322                      |          |                          |
| Aluminum and aluminum-base alloy:   |   |                                 |          |                          |          |                          |
| 335202  | Sheet, plate and foil.....  | ..do.....                       | 5,463    | 2,338                    | }        | (NA)                     |
| 335205  | Extruded shapes (including extruded rod, bar, pipe tube, etc.).....               | ..do.....                       | 1,243    | 505                      |          |                          |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod, and bar, etc.).....   | ..do.....                       |          |                          |          |                          |
| 367408  | Solid state semiconductors.....   | 1,000 units.....                | 23,089   | 2,109                    | (NA)     | (NA)                     |
| 970099  | All other materials and components, parts, containers, and supplies consumed..... | .....                           | (X)      | 60,137                   | (X)      | 63,421                   |
| 976000  | Materials, containers, supplies, n.s.k.....                                       | .....                           | (X)      | 14,295                   | (X)      | 11,772                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Represents (a) total cost of materials for small establishments reporting on "Short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

<sup>2</sup>An indeterminate amount of materials other than industrial electrical control equipment are included.

<sup>3</sup>Comparable data for 1958 not available.

TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Electric measuring instruments (SIC 3611) | Transformers (SIC 3612) | Switchgear and switchboards (SIC 3613) | Motors and generators (SIC 3621) | Industrial controls (SIC 3622) | Electric welding apparatus (SIC 3623) | Carbon and graphite products (SIC 3624) | Electric industrial goods, n.e.c. (SIC 3629) |
|---|---|-------------------------|--|----------------------------------|--------------------------------|---------------------------------------|---|--|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 5,453                                     | 8,224                   | 6,676                                  | 15,475                           | 4,243                          | 2,323                                 | 9,731                                   | 2,755  |
| Total cost of purchased fuels.....do....  | 1,506                                     | 2,265                   | 2,204                                  | 5,605                            | 1,285                          | 963                                   | 3,452                                   | 760  |
| Bituminous coal, lignite, and anthracite:   |   |                         |  |                                  |                                |                                       |   |  |
| Quantity.....1,000 short tons..   | (S)                                       | 118                     | 19                                     | 131                              | (S)                            | 11                                    | 49                                      | (S)  |
| Cost.....\$1,000..  | (S)                                       | 882                     | 147                                    | 997                              | (S)                            | 89                                    | 343                                     | (S)  |
| Coke and breeze:  |   |                         |  |                                  |                                |                                       |   |  |
| Quantity.....1,000 short tons..   | (S)                                       | -                       | (S)                                    | (S)                              | -                              | -                                     | (S)                                     | -  |
| Cost.....\$1,000..  | (S)                                       | -                       | (S)                                    | (S)                              | -                              | -                                     | (S)                                     | -  |
| Fuel oil (distillate and residual):   |   |                         |  |                                  |                                |                                       |   |  |
| Quantity.....1,000 barrels of 42 gallons..  | 168                                       | 95                      | 247                                    | 181                              | 93                             | 32                                    | (S)                                     | 80   |
| Cost.....\$1,000..  | 601                                       | 305                     | 835                                    | 669                              | 388                            | 128                                   | (S)                                     | 290  |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |   |                         |  |                                  |                                |                                       |   |  |
| Quantity.....million cu.ft..  | 947                                       | 1,826                   | 1,322                                  | 3,609                            | 1,117                          | 1,008                                 | 4,972                                   | 464  |
| Cost.....\$1,000..  | 614                                       | 962                     | 916                                    | 2,156                            | 706                            | 642                                   | 2,595                                   | 264  |
| Other fuels.....do....  | 232                                       | 116                     | 298                                    | 1,782                            | 121                            | 104                                   | 88                                      | 134  |
| Electric energy:  |   |                         |  |                                  |                                |                                       |   |  |
| Purchased:  |   |                         |  |                                  |                                |                                       |   |  |
| Quantity.....million kw.-hrs..  | 288                                       | 597                     | 319                                    | 832                              | 216                            | 88                                    | 1,035                                   | 156  |
| Cost.....\$1,000..  | 3,947                                     | 5,959                   | 4,472                                  | 9,870                            | 2,958                          | 1,360                                 | 6,279                                   | 1,995  |
| Generated less sold.....million kw.-hrs..   | -   | (S)                     | (S)                                    | 45                               | -                              | (S)                                   | -                                       | -  |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 80  | 428                     | 134                                    | 502                              | 59                             | 51                                    | 146                                     | 97   |
| Prime movers, total.....do....  | 1   | 96                      | 12                                     | 44                               | 2                              | 2                                     | 22                                      | 1  |
| Driving generators.....do....   | (Z)                                       | 92                      | 7                                      | 23                               | 1                              | 1                                     | 7                                       | 1  |
| Not driving generators.....do....   | 1   | 4                       | 5                                      | 21                               | 1                              | 1                                     | 15                                      | (Z)  |
| Electric motors, total.....do....   | 78  | 336                     | 130                                    | 497                              | 57                             | 49                                    | 124                                     | 96   |
| Driven by purchased energy.....do....   | 78  | 331                     | 123                                    | 458                              | 57                             | 49                                    | 124                                     | 96   |
| Driven by energy generated at establishment.....do....  | -   | 4                       | 8                                      | 39                               | -                              | (Z)                                   | -                                       | -  |
| Aggregate horsepower per 100 production workers.....  | 188                                       | 1,741                   | 309                                    | 742                              | 270                            | 783                                   | 2,013                                   | 621  |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.



**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3611-                          | ELECTRIC MEASURING INSTRUMENTS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 560                     | 44,715         | 273,645           | 30,109             | 59,905            | 149,616         | 505,309  | 245,417                     | 749,220                      | 19,207                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 448                     | 23,914         | 134,181           | 16,705             | 32,715            | 75,340          | 255,377  | 128,448                     | 378,424                      | 10,060                              |
|                                | 75-89% specialization.....   | 32                      | 7,758          | 55,067            | 5,177              | 11,000            | 31,287          | 107,717  | 45,060                      | 152,740                      | 3,018                               |
| 36111                          | Integrating instruments, electrical (primary product class of estab.).   | 19                      | 7,022          | 40,616            | 4,935              | 9,856             | 23,872          | 88,660   | 38,763                      | 129,652                      | 2,662                               |
| 36112                          | Test equipment for testing electrical, radio and communication circuits, and motors (primary product class of estab.).....                                 | 224                     | 24,750         | 155,460           | 16,179             | 31,737            | 81,688          | 285,323  | 146,778                     | 429,240                      | 10,610                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 157                     | 12,413         | 76,789            | 8,280              | 15,718            | 40,364          | 139,705  | 70,064                      | 202,936                      | 6,308                               |
|                                | 75-89% specialization.....   | 17                      | 4,947          | 33,313            | 3,381              | 7,193             | 19,618          | 68,098   | 29,295                      | 99,007                       | 1,936                               |
| 36113                          | Other electrical measuring instruments (primary product class of estab.).....  | 141                     | 11,611         | 70,889            | 7,966              | 16,242            | 39,448          | 120,815  | 54,222                      | 173,990                      | 4,202                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 107                     | 3,713          | 18,334            | 2,849              | 5,735             | 11,261          | 29,696   | 14,544                      | 43,907                       | 1,350                               |
|                                | 75-89% specialization.....   | 16                      | 3,597          | 24,101            | 2,555              | 5,420             | 14,044          | 48,587   | 20,949                      | 68,035                       | 1,310                               |
| 3612-                          | TRANSFORMERS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 177                     | 33,365         | 209,514           | 23,640             | 46,873            | 129,628         | 381,514  | 337,001                     | 722,896                      | 13,161                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 150                     | 19,985         | 117,460           | 14,766             | 28,832            | 75,407          | 242,592  | 228,694                     | 472,898                      | 9,140                               |
|                                | 75-89% specialization.....   | 11                      | 9,297          | 66,673            | 6,155              | 12,352            | 39,689          | 92,610   | 75,770                      | 167,680                      | 2,727                               |
| 36121                          | Speciality transformers and fluorescent ballasts, except parts (primary product class of estab.).  | 43                      | 8,735          | 47,260            | 7,412              | 13,612            | 32,367          | 88,397   | 81,328                      | 170,011                      | 2,030                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 30                      | 4,688          | 23,473            | 4,451              | 7,927             | 17,449          | 47,974   | 46,610                      | 95,527                       | 1,086                               |
| 36122                          | Power and distribution transformers, except parts (primary product class of estab.).....   | 60                      | 22,703         | 153,328           | 15,113             | 30,204            | 91,186          | 275,722  | 238,386                     | 518,160                      | 10,417                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 35                      | 6,652          | 39,821            | 4,674              | 9,373             | 25,204          | 105,767  | 97,329                      | 202,375                      | 4,370                               |
|                                | 75-89% specialization.....   | 13                      | 4,524          | 29,147            | 3,276              | 6,393             | 18,922          | 39,326   | 50,460                      | 91,348                       | 1,281                               |
| 36123                          | Power regulators, boosters, and reactors, other transformers, and transformer parts (primary product class of estab.).....                                 | 27                      | 1,550          | 7,363             | 1,215              | 2,491             | 4,891           | 14,859   | 15,157                      | 30,131                       | 539                                 |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 18                      | 349            | 1,667             | 297                | 625               | 1,287           | 2,805  | 2,665                       | 5,497                        | 143                                 |
| 3613-                          | SWITCHGEAR AND SWITCHBOARDS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 400                     | 54,045         | 338,860           | 38,091             | 76,910            | 204,942         | 647,838  | 452,209                     | 1,093,743                    | 18,180                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 302                     | 30,286         | 177,379           | 22,528             | 45,729            | 114,124         | 347,307  | 251,650                     | 599,005                      | 10,808                              |
|                                | 75-89% specialization.....   | 40                      | 13,582         | 94,095            | 8,614              | 17,493            | 51,884          | 163,329  | 109,808                     | 266,131                      | 4,199                               |
| 36131                          | Switchgear, including power switchgear assemblies and other switching and interrupting devices, 2300 volts and over (primary product class of estab.)..... | 101                     | 26,047         | 170,498           | 17,903             | 36,101            | 101,067         | 310,097  | 195,320                     | 501,523                      | 7,211                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 54                      | 7,802          | 43,589            | 5,602              | 11,055            | 26,471          | 86,657   | 50,942                      | 138,221                      | 2,069                               |
|                                | 75-89% specialization.....   | 16                      | 3,289          | 19,420            | 2,309              | 4,695             | 11,622          | 33,502   | 23,687                      | 57,352                       | 708                                 |
| 36132                          | Circuit breakers (primary product class of estab.).....  | 21                      | 11,106         | 71,790            | 7,329              | 14,191            | 39,975          | 141,104  | 77,315                      | 217,785                      | 4,502                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 13                      | 3,911          | 24,025            | 2,784              | 5,609             | 14,535          | 51,749   | 31,136                      | 82,235                       | 1,199                               |

See footnotes at end of table.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3613-                          | SWITCHGEAR AND SWITCHBOARDS—<br>Continued  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
| 36133                          | Low voltage panelboards and distribution boards and switching and interrupting devices, 750 volts and under (primary product class of estab.)..... | 142                     | 13,245         | 78,313            | 9,727              | 19,401            | 49,875          | 167,475  | 156,551                     | 322,294                      | 5,847                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 73                      | 4,033          | 23,682            | 2,931              | 5,788             | 14,976          | 45,918   | 45,430                      | 89,241                       | 1,256                               |
|                                | 75-89% specialization.....   | 21                      | 3,237          | 17,487            | 2,499              | 4,817             | 12,053          | 43,677   | 31,201                      | 74,971                       | 745                                 |
| 36134                          | Fuses and fuse equipment, under 2300 volts (except power distribution cut-outs) (primary product class of estab.).....                             | 10                      | 2,698          | 13,450            | 2,381              | 5,483             | 10,517          | 20,509   | 15,226                      | 35,673                       | 380                                 |
| 3621-                          | MOTORS AND GENERATORS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 384                     | 94,170         | 583,225           | 68,693             | 140,174           | 378,790         | 993,207  | 715,189                     | 1,709,818                    | 35,804                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 296                     | 46,633         | 261,353           | 35,784             | 72,408            | 174,154         | 452,735  | 327,904                     | 773,795                      | 17,188                              |
|                                | 75-89% specialization.....   | 24                      | 13,763         | 97,558            | 9,581              | 20,026            | 61,451          | 170,822  | 133,634                     | 306,422                      | 7,817                               |
| 36211                          | Fractional horsepower motors (primary product class of estab.)....   | 118                     | 45,799         | 268,441           | 35,394             | 71,875            | 185,976         | 455,773  | 322,028                     | 786,072                      | 18,276                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 76                      | 18,294         | 90,470            | 15,225             | 30,432            | 66,779          | 177,708  | 128,927                     | 305,862                      | 6,268                               |
|                                | 75-89% specialization.....   | 14                      | 5,840          | 40,351            | 4,412              | 9,006             | 27,209          | 76,355   | 52,072                      | 128,419                      | 3,365                               |
| 36212                          | Integral horsepower motors and generators, except land transportation (primary product class of estab.)..  | 55                      | 26,502         | 186,869           | 17,413             | 35,563            | 110,755         | 312,505  | 232,759                     | 545,473                      | 8,797                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 18                      | 2,112          | 14,359            | 1,505              | 3,023             | 9,013           | 25,229   | 17,759                      | 42,512                       | 873                                 |
|                                | 75-89% specialization.....   | 9                       | 3,140          | 19,376            | 2,145              | 4,351             | 12,043          | 29,374   | 15,479                      | 44,783                       | 860                                 |
| 36213                          | Land transportation motors, generators, and control equipment, and parts (primary product class of estab.).....                                    | 11                      | 1,419          | 8,951             | 967                | 1,905             | 5,169           | 20,869   | 12,558                      | 32,418                       | 310                                 |
| 36214                          | Prime mover generator sets, except steam or hydraulic turbine (primary product class of estab.)....  | 16                      | 2,663          | 15,244            | 1,796              | 3,507             | 8,660           | 28,697   | 32,526                      | 59,382                       | 1,544                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 7                       | 684            | 4,201             | 415                | 921               | 2,283           | 5,236  | 11,719                      | 16,029                       | 97                                  |
| 36215                          | Motor generator sets and other rotating equipment (primary product class of estab.).....   | 40                      | 10,700         | 61,127            | 7,988              | 17,066            | 40,155          | 106,440  | 65,100                      | 168,978                      | 4,441                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 24                      | 6,216          | 33,906            | 4,945              | 10,817            | 23,460          | 65,583   | 35,685                      | 98,617                       | 2,751                               |
|                                | 75-89% specialization.....   | 3                       | 148            | 631               | 126                | 227               | 366             | 868  | 1,857                       | 2,802                        | 16                                  |
| 36216                          | Parts and supplies for motors, generators, and motor generator sets, except land transportation (primary product class of estab.)....              | 40                      | 6,102          | 37,841            | 4,355              | 8,744             | 24,594          | 61,712   | 44,523                      | 104,540                      | 2,130                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 30                      | 1,538          | 8,435             | 1,299              | 2,591             | 6,479           | 13,455   | 11,276                      | 24,431                       | 408                                 |
|                                | 75-89% specialization.....   | 3                       | 593            | 4,280             | 481                | 971               | 3,465           | 8,473  | 4,230                       | 12,153                       | (D)                                 |
| 3622-                          | INDUSTRIAL CONTROLS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 427                     | 32,990         | 214,597           | 22,772             | 44,898            | 125,418         | 450,507  | 207,587                     | 648,683                      | 15,419                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 354                     | 16,457         | 110,681           | 10,439             | 21,113            | 54,683          | 219,469  | 122,421                     | 337,340                      | 5,037                               |
|                                | 75-89% specialization.....   | 28                      | 3,824          | 24,619            | 2,458              | 4,803             | 14,169          | 54,382   | 27,139                      | 80,710                       | 662                                 |
| 3623-                          | ELECTRIC WELDING APPARATUS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 147                     | 9,629          | 72,113            | 6,565              | 14,075            | 44,617          | 162,411  | 168,553                     | 330,227                      | 5,364                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 122                     | 6,912          | 45,958            | 4,690              | 10,003            | 27,985          | 109,290  | 122,994                     | 332,354                      | 3,226                               |
|                                | 75-89% specialization.....   | 7                       | 2,134          | 22,315            | 1,446              | 3,060             | 14,136          | 47,052   | 40,662                      | 86,982                       | 1,853                               |

See footnotes at end of table.



TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3623-                          | ELECTRIC WELDING APPARATUS—<br>Continued  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
| 36231                          | Arc welding machines, components, and accessories, except electrodes (primary product class of estab.). | 37                      | 2,749          | 17,785            | 1,908              | 4,169             | 10,883          | 42,708   | 39,673                      | 81,935                       | 1,037                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 25                      | 1,446          | 9,520             | 1,022              | 2,113             | 5,583           | 22,916   | 18,997                      | 40,952                       | 379                                 |
| 36232                          | Arc welding electrodes, metal (primary product class of estab.)....                                     | 28                      | 3,525          | 31,054            | 2,423              | 5,005             | 19,749          | 76,493   | 98,587                      | 175,033                      | 2,884                               |
| 36233                          | Resistance welders, components, accessories and electrodes (primary product class of estab.).....       | 48                      | 3,171          | 22,089            | 2,110              | 4,633             | 13,310          | 40,911   | 28,383                      | 68,955                       | 1,183                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 32                      | 1,707          | 11,047            | 1,104              | 2,431             | 7,023           | 22,106   | 16,909                      | 38,911                       | 563                                 |
|                                | 75-89% specialization.....  | 7                       | 783            | 6,099             | 523                | 1,081             | 3,388           | 10,560   | 5,554                       | 15,797                       | 540                                 |
| 3624-                          | CARBON AND GRAPHITE PRODUCTS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 53                      | 10,123         | 61,984            | 7,963              | 16,104            | 44,068          | 141,423  | 84,758                      | 226,889                      | 11,441                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 43                      | 8,181          | 49,314            | 6,451              | 13,005            | 35,777          | 120,385  | 72,931                      | 194,006                      | 9,956                               |
| 3629-                          | ELECTRIC INDUSTRIAL GOODS, N.E.C.   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 231                     | 14,041         | 72,988            | 10,897             | 21,043            | 47,677          | 141,633  | 100,132                     | 238,325                      | 4,003                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 186                     | 7,940          | 38,295            | 6,350              | 12,244            | 25,552          | 66,578   | 48,391                      | 113,407                      | 2,230                               |
|                                | 75-89% specialization.....  | 11                      | 1,898          | 11,081            | 1,294              | 2,556             | 6,315           | 21,222   | 14,056                      | 35,902                       | 604                                 |
| 36292                          | Rectifying apparatus (primary product class of estab.).....   | 45                      | 3,705          | 19,893            | 2,873              | 5,643             | 12,769          | 37,810   | 26,277                      | 62,097                       | 719                                 |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 33                      | 2,427          | 12,755            | 1,884              | 3,714             | 8,420           | 22,310   | 16,203                      | 37,383                       | 521                                 |
| 36293                          | Other electrical equipment for industrial use (primary product class of estab.).....                    | 96                      | 7,230          | 36,145            | 5,739              | 11,168            | 24,367          | 68,352   | 47,118                      | 114,169                      | 2,228                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 73                      | 4,665          | 21,824            | 3,817              | 7,360             | 14,612          | 37,614   | 26,573                      | 63,810                       | 1,327                               |
|                                | 75-89% specialization.....  | 7                       | 277            | 1,197             | 171                | 372               | 657             | 1,822  | 1,069                       | 2,913                        | 117                                 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations  | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3611.—ELECTRIC MEASURING INSTRUMENTS  |                          |   |         |            |                                       |   |         |            |
| Nonferrous die casting.....  | 7                        | 3   | 2       | 2          | 93                                    | 9   | (D)     | (D)        |
| Electroplating and other plating.....  | 38                       | 27  | 7       | 4          | 227                                   | 47  | 64      | 116        |
| Heat treating of metals.....   | 24                       | 19  | 5       | -          | 78                                    | 28  | 50      | -          |
| Automatic screw machine department.....  | 28                       | 17  | 7       | 4          | 279                                   | 23  | 70      | 186        |
| Machine shop.....  | 138                      | 59  | 46      | 33         | 2,320                                 | 102                                       | 478     | 1,740      |
| Tool and die shop.....   | 55                       | 33  | 15      | 7          | 546                                   | 55  | 148     | 343        |
| Foundry pattern shop.....  | 3                        | 3   | -       | -          | 5                                     | 5   | -       | -          |
| Stamping, blanking and forming of metals.....  | 88                       | 50  | 25      | 13         | 906                                   | 88  | 266     | 542        |
| Painting, lacquering and enameling on metals.....  | 90                       | 68  | 20      | 2          | 340                                   | 99  | (D)     | (D)        |
| Plastics molding.....  | 29                       | 17  | 7       | 5          | 271                                   | 33  | 68      | 170        |
| Assembly of product.....   | 2                        | -   | 1       | 1          | (D)                                   | -   | (D)     | (D)        |
| Shipping department, including packing and crating.....                                  | 2                        | 2   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| All other operations such as maintenance, wearhousing, etc.....                          | 2                        | 1   | 1       | -          | (D)                                   | (D)                                       | (D)     | -          |
| INDUSTRY 3612.—TRANSFORMERS  |                          |   |         |            |                                       |   |         |            |
| Heat treating of metals.....   | 27                       | 15  | 10      | 2          | 187                                   | 39  | (D)     | (D)        |
| Machine shop.....  | 36                       | 17  | 5       | 14         | 1,080                                 | 32  | 50      | 998        |
| Tool and die shop.....   | 20                       | 5   | 10      | 5          | 321                                   | 11  | 109     | 201        |
| Plate or structural fabrication.....   | 19                       | -   | 5       | 14         | 2,220                                 | -   | 46      | 2,174      |
| Stamping, blanking and forming of metals.....  | 55                       | 16  | 19      | 20         | 1,681                                 | 31  | 199     | 1,452      |
| Painting, lacquering and enameling on metals.....  | 70                       | 46  | 15      | 9          | 511                                   | 79  | 153     | 279        |
| INDUSTRY 3613.—SWITCHGEAR AND SWITCHBOARDS   |                          |   |         |            |                                       |   |         |            |
| Nonferrous foundry (except die casting).....   | 2                        | -   | -       | 2          | (D)                                   | -   | -       | (D)        |
| Electroplating and other plating.....  | 70                       | 49  | 15      | 6          | 438                                   | 91  | 153     | 194        |
| Heat treating of metals.....   | 27                       | 21  | 5       | 1          | 95                                    | 38  | (D)     | (D)        |
| Automatic screw machine department.....  | 25                       | 8   | 11      | 6          | 381                                   | 18  | 106     | 257        |
| Machine shop.....  | 98                       | 44  | 29      | 25         | 2,396                                 | 105                                       | 272     | 2,019      |
| Tool and die shop.....   | 79                       | 30  | 34      | 15         | 1,031                                 | 64  | 328     | 639        |
| Foundry pattern shop.....  | 4                        | 2   | 2       | -          | 17                                    | (D)                                       | (D)     | -          |
| Plate or structural fabrication.....   | 43                       | 15  | 14      | 14         | 1,513                                 | 30  | 124     | 1,359      |
| Stamping, blanking and forming of metals.....  | 140                      | 40  | 53      | 47         | 3,210                                 | 100                                       | 490     | 2,620      |
| Painting, lacquering and enameling on metals.....  | 139                      | 103                                       | 32      | 4          | 608                                   | 180                                       | 281     | 147        |
| Plastics molding.....  | 30                       | 12  | 10      | 8          | 652                                   | 26  | 112     | 514        |
| INDUSTRY 3621.—MOTORS AND GENERATORS   |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 3                        | -   | 1       | 2          | (D)                                   | -   | (D)     | (D)        |
| Nonferrous foundry (except die casting).....   | 13                       | 8   | 3       | 2          | 94                                    | 14  | (D)     | (D)        |
| Nonferrous die casting.....  | 60                       | 27  | 29      | 4          | 614                                   | 79  | 315     | 220        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 7                        | 2   | 4       | 1          | 54                                    | (D)                                       | (D)     | (D)        |
| Electroplating and other plating.....  | 39                       | 20  | 17      | 2          | 238                                   | (D)                                       | 159     | (D)        |
| Galvanizing and other hot dip coating.....   | 10                       | 7   | 3       | -          | 32                                    | 10  | 22      | -          |
| Heat treating of metals.....   | 58                       | 36  | 20      | 2          | 348                                   | (D)                                       | 185     | (D)        |
| Automatic screw machine department.....  | 61                       | 25  | 28      | 8          | 721                                   | 65  | 271     | 385        |
| Machine shop.....  | 172                      | 43  | 44      | 87         | 8,793                                 | 92  | 476     | 8,225      |
| Tool and die shop.....   | 118                      | 43  | 45      | 30         | 1,829                                 | 90  | 413     | 1,326      |
| Foundry pattern shop.....  | 14                       | 11  | 3       | -          | 51                                    | 25  | 26      | -          |
| Plate or structural fabrication.....   | 33                       | 14  | 8       | 11         | 1,088                                 | 33  | 84      | 971        |
| Stamping, blanking and forming of metals.....  | 129                      | 43  | 45      | 41         | 2,504                                 | 91  | 486     | 1,927      |
| Painting, lacquering and enameling on metals.....  | 125                      | 82  | 33      | 10         | 761                                   | 172                                       | 318     | 271        |
| INDUSTRY 3622.—INDUSTRIAL CONTROLS   |                          |   |         |            |                                       |   |         |            |
| Electroplating and other plating.....  | 14                       | 9   | 4       | 1          | 111                                   | 20  | (D)     | (D)        |
| Heat treating of metals.....   | 10                       | 6   | 3       | 1          | 68                                    | 11  | (D)     | (D)        |
| Automatic screw machine department.....  | 18                       | 12  | 4       | 2          | 163                                   | 22  | (D)     | (D)        |
| Machine shop.....  | 95                       | 46  | 33      | 16         | 2,042                                 | 71  | 294     | 1,677      |
| Tool and die shop.....   | 29                       | 18  | 5       | 6          | 547                                   | 31  | 57      | 459        |
| Plate or structural fabrication.....   | 20                       | 8   | 9       | 3          | 180                                   | 14  | 68      | 98         |
| Stamping, blanking and forming of metals.....  | 69                       | 36  | 23      | 10         | 1,474                                 | 61  | 170     | 1,243      |
| Painting, lacquering and enameling on metals.....  | 74                       | 64  | 8       | 2          | 276                                   | 99  | (D)     | (D)        |
| Plastics molding.....  | 11                       | 7   | -       | 4          | 295                                   | 13  | -       | 282        |

See footnotes at end of table.



TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963—Continued

| Metalworking operations   | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|---|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|   | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|   |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3623.—ELECTRIC WELDING APPARATUS                       |                          |   |         |            |                                       |   |         |            |
| Machine shop.....   | 61                       | 20  | 22      | 19         | 1,244                                 | 51  | 255     | 938        |
| Tool and die shop.....  | 17                       | 9   | 5       | 3          | 211                                   | 18  | 56      | 137        |
| Plate or structural fabrication.....                            | 22                       | 12  | 5       | 5          | 255                                   | 27  | 51      | 177        |
| Stamping, blanking and forming of metals.....                   | 22                       | 16  | 3       | 3          | 194                                   | 31  | 35      | 128        |
| Painting, lacquering and enameling on metals.....               | 30                       | 28  | 2       | -          | 67                                    | (D)                                       | (D)     | -          |
| INDUSTRY 3624.—CARBON AND GRAPHITE PRODUCTS                     |                          |   |         |            |                                       |   |         |            |
| Machine shop.....   | 19                       | 3   | 11      | 5          | 278                                   | 7   | 92      | 179        |
| Tool and die shop.....  | 7                        | 2   | 3       | 2          | 67                                    | (D)                                       | 17      | (D)        |
| Stamping, blanking and forming of metals.....                   | 8                        | 5   | 2       | 1          | 107                                   | 10  | (D)     | (D)        |
| Painting, lacquering and enameling on metal.....                | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| INDUSTRY 3629.—ELECTRIC INDUSTRIAL GOODS, N.E.C.                |                          |   |         |            |                                       |   |         |            |
| Electroplating and other plating.....                           | 1                        | -   | 1       | -          | (D)                                   | -   | (D)     | -          |
| Automatic screw machine department.....                         | 3                        | 2   | 1       | -          | 12                                    | (D)                                       | (D)     | -          |
| Machine shop.....   | 57                       | 29  | 21      | 7          | 496                                   | 50  | 169     | 277        |
| Tool and die shop.....  | 23                       | 17  | 5       | 1          | 102                                   | 38  | (D)     | (D)        |
| Plate or structural fabrication.....                            | 1                        | -   | 1       | -          | (D)                                   | -   | (D)     | -          |
| Stamping, blanking and forming of metals.....                   | 38                       | 20  | 15      | 3          | 265                                   | 38  | 115     | 112        |
| Painting, lacquering and enameling on metals.....               | 35                       | 28  | 6       | 1          | 160                                   | 55  | (D)     | (D)        |
| Assembly of product.....  | 2                        | -   | 1       | 1          | (D)                                   | -   | (D)     | (D)        |
| Shipping department, including packing and crating.             | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| All other operations such as maintenance, warehousing, etc..... | 2                        | 1   | 1       | -          | (D)                                   | (D)                                       | (D)     | -          |

Note: Very small establishments were not requested to report their metalworking operations and, in some instances, a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production-worker employment on the last line of the table below:

| Item  | INDUSTRY |       |       |        |       |       |        |       |
|---|----------|-------|-------|--------|-------|-------|--------|-------|
|   | 3611     | 3612  | 3613  | 3621   | 3622  | 3623  | 3624   | 3629  |
| Total number of establishments in the industry.....   | 560      | 177   | 400   | 384    | 339   | 149   | 53     | 231   |
| Number of establishments which reported one or more of the specified operations.....                              | 200      | 82    | 213   | 222    | 189   | 68    | 26     | 80    |
| Percent of industry production workers in these establishments.....   | 85-90    | 80-85 | 85-90 | 95-100 | 60-65 | 75-80 | 75-80  | 60-65 |
| Number of establishments which reported "none" of the operations apply.....                                       | 28       | 27    | 39    | 24     | 36    | 21    | 16     | 40    |
| Percent of industry production workers in these establishments.....   | 0-5      | 0-5   | 0-5   | 0-5    | 0-5   | 10-15 | 20-25  | 20-25 |
| Percent of industry production workers in establishments which completed the metalworking operations inquiry..... | 85-90    | 85-90 | 90-95 | 95-100 | 60-65 | 85-90 | 95-100 | 85-90 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishment.





## HOUSEHOLD APPLIANCES

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3631—Household Cooking Equipment
- 3632—Household Refrigerators and Home and Farm Freezers
- 3633—Household Laundry Equipment
- 3634—Electric Housewares and Fans
- 3635—Household Vacuum Cleaners
- 3636—Sewing Machines
- 3639—Household Appliances, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3631—HOUSEHOLD COOKING EQUIPMENT

This industry comprises establishments primarily engaged in manufacturing household cooking equipment, such as stoves, ranges and ovens. Establishments primarily engaged in manufacturing household cooking appliances, such as hot plates, grills, percolators, and toasters are classified in industry 3634. Establishments primarily engaged in manufacturing commercial cooking equipment are classified in industry 3589. For a detailed list of products of industry 3631, refer to table 6A, product codes 3631111 to 3631298.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Household Cooking Equipment Industry totaled \$473 million. This amount included shipments of household cooking equipment (primary products) valued at \$384 million, shipments of other products (secondary products) valued at \$60 million, and miscellaneous receipts (mainly products bought and resold) at \$30 million.

This industry's shipments of household cooking equipment represented 87 percent of its total product shipments. The industry specialization ratio in 1958 was 88 percent.

Secondary products shipped by this industry in 1963 include other household appliances and parts (\$6 million), and domestic heating stoves (except electric) (\$5 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 62 percent of the total industry shipments are represented by plants specializing in household ovens and ranges, equipment and parts, except electric; and 38 percent in electric household ranges and ovens.

Shipments of household cooking equipment by this industry represented 72 percent of all shipments of these products (\$537 million) by all industries. In 1958 the coverage ratio was also 72 percent. Other industries shipping household cooking equipment include industry 3433, Heating Equipment, Except Electric, \$10 million; and industry 3633, Household Laundry Equipment, over \$4 million.

The production index for the primary products of the industry increased to 114 in 1963 from the 1958 level of 90. The unit value index for 1963 was 104 compared to 107 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3632—HOUSEHOLD REFRIGERATORS AND HOME AND FARM FREEZERS

This industry comprises establishments primarily engaged in manufacturing household refrigerators and home and farm freezers. Establishments primarily engaged in manufacturing commercial and industrial refrigeration equipment, packaged room coolers, and dehumidifiers are classified in industry 3585. For a detailed list of products of industry 3632, refer to table 6A, product codes 3632111 to 3632229.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Household Refrigerators Industry totaled \$1,307 million. This amount included shipments of household refrigerators and freezers (primary products) valued at \$831 million, shipments of other products (secondary products) valued at \$432 million, and miscellaneous receipts (mainly products bought and resold) at \$44 million.

This industry's shipments of household refrigerators represented 66 percent of its total product shipments. The industry specialization ratio in 1958 was 74 percent. Secondary products shipped by this industry in 1963 include heat transfer equipment (\$148 million), and compressors and compressor units, all refrigerants (\$54 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 93 percent of the total industry shipments are represented by plants specializing in household refrigerators; and 7 percent in home and farm freezers.

Shipments of household refrigerators by this industry represented 99 percent of all shipments of these products (\$832 million) by all industries. In 1958 the coverage ratio was 98 percent.

The production index for the primary products of the industry increased to 156 in 1963 from the 1958 level of 112. The unit value index for 1963 was 72 compared to 87 in 1958. Both indexes were computed on a basis of 1954 = 100.



### 3633—HOUSEHOLD LAUNDRY EQUIPMENT

This industry comprises establishments primarily engaged in manufacturing laundry equipment such as washing machines, wringers, driers, and ironers for household use. Establishments primarily engaged in manufacturing commercial laundry equipment are classified in industry 3582. Although the SIC classifies coin-operated washing machines in industry 3582, data for these machines are included in the 1963 Census of Manufactures in industry 3633 as in 1958. For a detailed list of products of industry 3633, refer to table 6A, product codes 3633131 to 3633298.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Household Laundry Equipment Industry totaled \$760 million. This amount included shipments of household laundry equipment (primary products) valued at \$664 million, shipments of other products (secondary products) valued at \$79 million, and miscellaneous receipts (mainly products bought and resold) at \$17 million.

This industry's shipments of household laundry equipment represented 89 percent of its total product shipments. The industry specialization ratio in 1958 was 91 percent. Secondary products shipped by this industry in 1963 consisted mainly of commercial laundry, dry cleaning and pressing machinery and equipment (\$7 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 97 percent of the total industry shipments are represented by plants specializing in household mechanical washing machines, dryers, and washer-dryer combinations; and 3 percent in other household laundry equipment and parts.

Shipments of household laundry equipment by this industry represented 87 percent of all shipments of these products (\$766 million) by all industries. In 1958 the coverage ratio was 91 percent. Other industries shipping household laundry equipment include industry 3632, Household Refrigerators, over \$50 million.

The production index for the primary products of the industry increased to 134 in 1963 from the 1958 level of 117. The unit value index for 1963 was 96 compared to 103 in 1958. Both indexes were computed on a basis of 1954 = 100.

### 3634—ELECTRIC HOUSEWARES AND FANS

This industry comprises establishments primarily engaged in manufacturing electric housewares for heating, cooking, and other purposes; and electric fans. Important products of this industry include electric air heaters, bed covering, blenders, broilers, deep fat fryers, flat irons, food mixers, hot plates, percolators and coffee makers, roasters, toasters, desk and bracket fans, and hassock or floor fans. For a detailed list of products of industry 3634, refer to table 6A, product codes 3634111 to 3634431.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Electric Housewares and Fans Industry totaled \$850 million. This amount included shipments of electric housewares and fans (primary products) valued at \$658 million, shipments of other products (secondary products) valued at \$101 million, and miscellaneous receipts (mainly products bought and resold) at \$91 million.

This industry's shipments of electric housewares and fans represented 87 percent of its total product shipments. The industry specialization ratio in 1958 was 86 percent.

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 24 percent of the total industry shipments are represented by plants specializing in electric fans, except industrial type; and 74 percent in other small household electric appliances except parts and electric razors.

Shipments of electric housewares and fans by this industry represented 81 percent of all shipments of these products (\$810 million) by all industries. In 1958 the coverage ratio was 82 percent. Other industries shipping electric housewares and fans include industry 3461, Metal Stampings \$31 million; and industry 3631, Household Cooking Equipment, over \$6 million.

The production index for the primary products of the industry increased to 189 in 1963 from the 1958 level of 108. The unit value index for 1963 was 86 compared to 101 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3635—HOUSEHOLD VACUUM CLEANERS

This industry comprises establishments primarily engaged in manufacturing vacuum cleaners for household use. Establishments primarily engaged in manufacturing vacuum cleaners for industrial use are classified in industry 3584. For a detailed list of products of industry 3635, refer to table 6A, product codes 3635011 to 3635071.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Household Vacuum Cleaners Industry totaled \$175 million. This amount included shipments of household vacuum cleaners (primary products) valued at \$146 million, shipments of other products (secondary products) valued at \$23 million, and miscellaneous receipts (mainly products bought and resold) at \$6 million.

This industry's shipments of household vacuum cleaners represented 87 percent of its total product shipments. The industry specialization ratio in 1958 was 93 percent.

Shipments of household vacuum cleaners by this industry represented 80 percent of all shipments of these products (\$183 million) by all industries. In 1958 the coverage ratio was 83 percent. Other industries shipping household vacuum cleaners include industry 3639, Household Appliances, N.E.C., over \$10 million; and industry 3634, Electric Housewares and Fans, over \$2 million.

The production index for the primary products of the industry increased to 145 in 1963 from the 1958 level of 119. The unit value index for 1963 was 93 compared to 96 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3636—SEWING MACHINES

This industry comprises establishments primarily engaged in manufacturing sewing machines for domestic and industrial use. For a detailed list of products of industry 3636, refer to table 6A, product codes 3636011 to 3636081.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.



Value of shipments and other receipts of the Sewing Machines Industry totaled \$117 million. This amount included shipments of sewing machines (primary products) valued at \$101 million.

This industry's shipments of sewing machines represented 90 to 95 percent of its total product shipments. The industry specialization ratio in 1958 was 97 percent.

Shipments of sewing machines by this industry represented 96 percent of all shipments of these products (\$105 million) by all industries. In 1958 the coverage ratio was 94 percent.

The production index for the primary products of the industry decreased to 76 in 1963 from the 1958 level of 78. The unit value index for 1963 was 128 compared to 117 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3639—HOUSEHOLD APPLIANCES NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing household appliances, n.e.c., such as hot water heaters, dishwashers, and food waste disposal units. For a detailed list of products of industry 3639, refer to table 6A, product codes 3639111 to 3639391.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Household Appliances, N.E.C., Industry totaled \$435 million. This amount included shipments of household appliances, n.e.c. (primary products) valued at \$327 million, shipments of other products (secondary products) valued at \$90 million, and miscellaneous receipts (mainly products bought and resold) at \$18 million.

This industry's shipments of household appliances, n.e.c., represented 79 percent of its total product shipments. The industry specialization ratio in 1958 was also 79 percent. Secondary products shipped by this industry in 1963 include other heating equipment (except electric) and parts for nonelectric heating equipment (\$13 million), and household vacuum cleaners, including parts and attachments, over (\$10 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 48 percent of the total industry shipments are represented by plants specializing in household water heaters, except electric.

Shipments of household appliances, n.e.c., by this industry represented 79 percent of all shipments of these products (\$415 million) by all industries. In 1958 the coverage ratio was 83 percent.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3639, e.g., water heaters, electric, 87 percent; water heaters, except electric, 93 percent; and other household appliances and parts, 67 percent.

The production index for the primary products of the industry increased to 195 in 1963 from the 1958 level of 140. The unit value index for 1963 was 83 compared to 95 in 1958. Both indexes were computed on a basis of 1954 = 100.

HOUSEHOLD APPLIANCES: SIC 363  
 Value Added by Manufacture by State: 1963

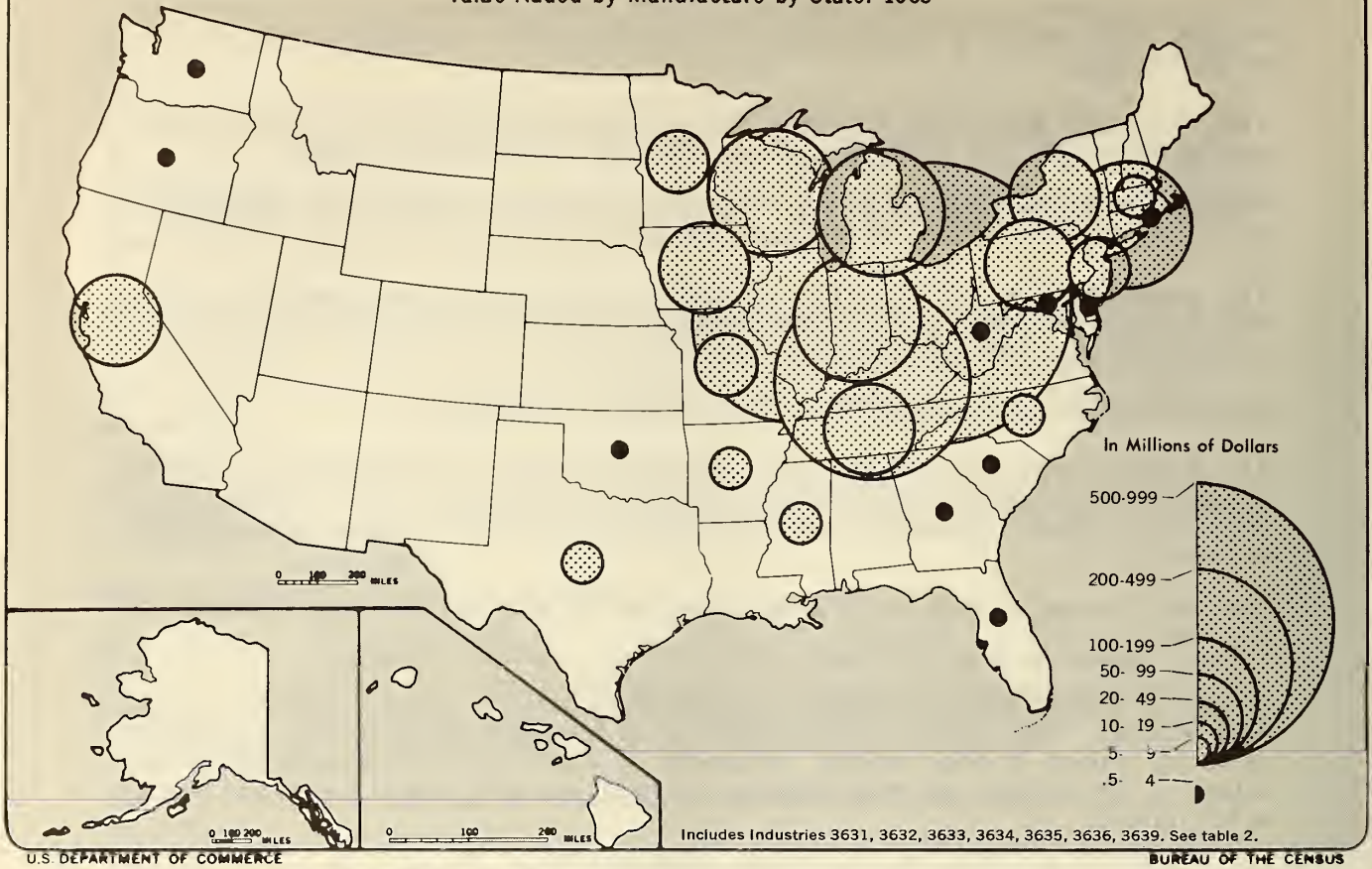




TABLE 1. General Statistics: 1963 and Earlier Years

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expendi-<br>tures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3631.—HOUSEHOLD COOKING EQUIPMENT  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 77                         | 83                | 53   | 19,191            | 111,266              | 15,149             | 30,356               | 75,580             | 230,285  | 253,530                           | 473,453                            | 8,216   | 87  | 72                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 18,787            | 102,704              | 14,158             | 27,216               | 66,463             | 192,219  | 216,962                           | 411,859                            | 4,736   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 18,882            | 102,103              | 14,184             | 27,904               | 65,878             | 184,862  | 218,070                           | 401,412                            | 3,728   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 20,127            | 104,139              | 15,031             | 29,197               | 63,084             | 186,191  | 219,697                           | 407,253                            | 6,970   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 18,979            | 96,746               | 14,979             | 29,971               | 66,146             | 194,260  | 216,927                           | 411,370                            | 6,163   | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                     | 64                         | 69                | 55   | 18,152            | 89,239               | 14,101             | 28,160               | 60,331             | 181,091  | 184,950                           | 364,852                            | 4,002   | 88  | 72                                       |
| INDUSTRY 3632.—HOUSEHOLD REFRIGERATORS      |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 31                         | 34                | 25   | 43,065            | 279,977              | 35,232             | 69,978               | 212,228            | 631,269  | 696,141                           | 1,306,539                          | 21,765  | 66  | 99                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 42,110            | 259,054              | 34,849             | 73,040               | 199,392            | 570,432  | 661,374                           | 1,205,186                          | 13,333  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 41,714            | 253,579              | 33,855             | 66,812               | 192,422            | 470,067  | 621,963                           | 1,101,562                          | 13,757  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 47,137            | 265,108              | 38,835             | 73,899               | 202,905            | 525,537  | 660,740                           | 1,156,781                          | 16,023  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 47,016            | 253,554              | 38,972             | 77,429               | 195,100            | 537,346  | 672,934                           | 1,199,406                          | (12,541)  | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                     | 25                         | 26                | 26   | 41,493            | 221,439              | 33,177             | 65,592               | 167,352            | 433,369  | 537,586                           | 1,002,302                          | 9,870   | 74  | 98                                       |
| INDUSTRY 3633.—HOUSEHOLD LAUNDRY EQUIPMENT  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 31                         | 39                | 28   | 18,343            | 115,387              | 14,738             | 28,827               | 85,865             | 353,863  | 416,015                           | 760,161                            | 9,217   | 89  | 87                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 21,091            | 131,584              | 15,584             | 30,648               | 88,528             | 346,398  | 414,837                           | 755,743                            | 6,419   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 21,480            | 126,735              | 15,594             | 30,438               | 83,620             | 313,836  | 395,675                           | 715,361                            | 7,070   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 23,362            | 131,831              | 17,258             | 32,925               | 88,885             | 279,150  | 433,400                           | 722,983                            | 10,690  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 25,906            | 142,060              | 19,380             | 37,521               | 96,586             | 347,376  | 488,709                           | 835,786                            | 11,125  | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                     | 33                         | 39                | 33   | 24,597            | 134,263              | 18,021             | 35,751               | 89,586             | 324,480  | 427,180                           | 738,920                            | 7,219   | 91  | 91                                       |
| 1957 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 21,901            | 105,674              | 16,395             | 31,365               | 72,728             | 238,290  | 395,604                           | 629,176                            | 12,090  | 95  | 85                                       |
| 1956 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 25,271            | 118,898              | 19,758             | 38,228               | 86,778             | 271,198  | 453,107                           | 708,747                            | 20,954  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 23,819            | 108,247              | 18,948             | 36,626               | 78,469             | 241,594  | 387,983                           | 628,284                            | 15,239  | (NA)  | (NA)                                     |
| 1954.....                                   | 48                         | 56                | 39   | 22,105            | 98,556               | 16,710             | 32,497               | 68,066             | 190,686  | 331,882                           | 541,346                            | 18,569  | 93  | 81                                       |
| 1953 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 27,441            | 120,019              | 20,986             | (NA)                 | 85,349             | 213,374  | 355,667                           | 569,041                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 25,086            | 103,913              | 19,267             | (NA)                 | 71,203             | 195,012  | 286,654                           | 481,668                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 23,442            | 91,977               | 17,927             | (NA)                 | 62,792             | 173,318  | 290,940                           | 464,260                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 22,797            | 82,186               | 17,887             | (NA)                 | 59,593             | 165,761  | 266,535                           | 432,298                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 18,556            | 63,535               | 14,095             | (NA)                 | 43,498             | 119,968  | 181,229                           | 301,199                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                   | 59                         | 65                | (NA)   | 28,403            | 85,596               | 23,651             | 48,647               | 65,596             | 161,791  | 280,539                           | 442,297                            | (NA)  | 90  | 91                                       |
| 1939.....                                   | (NA)                       | 42                | (NA)   | 9,610             | 13,890               | 7,466              | (NA)                 | 9,277              | 25,236   | 36,365                            | 61,601                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                   | (NA)                       | 40                | (NA)   | 10,575            | 14,250               | 9,302              | (NA)                 | 11,675             | 28,681   | 41,208                            | 69,889                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                   | (NA)                       | 41                | (NA)   | 10,271            | 12,605               | 8,742              | (NA)                 | 9,852              | 25,384   | 37,041                            | 62,425                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....                                   | (NA)                       | 41                | (NA)   | 8,240             | 8,528                | 6,956              | (NA)                 | 6,363              | 20,181   | 24,361                            | 44,542                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3634.—ELECTRIC HOUSEWARES AND FANS |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 286                        | 312               | 136  | 38,801            | 188,257              | 31,053             | 59,567               | 126,912            | 463,845  | 394,578                           | 850,281                            | 17,009  | 87  | 81                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 35,006            | 170,608              | 27,922             | 52,166               | 112,907            | 403,992  | 355,715                           | 740,524                            | 10,679  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 31,789            | 151,653              | 25,308             | 47,744               | 99,992             | 359,976  | 310,274                           | 671,054                            | 8,688   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 32,334            | 152,561              | 25,833             | 49,101               | 101,544            | 355,716  | 293,010                           | 628,566                            | 11,193  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 30,226            | 139,094              | 23,815             | 45,929               | 93,074             | 335,014  | 261,030                           | 596,219                            | 10,688  | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                     | 289                        | 311               | 105  | 29,150            | 128,850              | 22,477             | 42,804               | 84,557             | 301,033  | 245,105                           | 559,090                            | 9,985   | 86  | 82                                       |
| INDUSTRY 3635.—HOUSEHOLD VACUUM CLEANERS    |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 34                         | 34                | 13   | 5,682             | 35,524               | 4,235              | 8,208                | 22,670             | 116,137  | 65,315                            | 175,357                            | 5,739   | 87  | 80                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 5,553             | 33,439               | 4,016              | 7,807                | 20,692             | 107,518  | 59,682                            | 163,580                            | 4,232   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 5,672             | 33,303               | 3,980              | 7,619                | 19,728             | 90,237   | 58,007                            | 150,803                            | 2,803   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 5,739             | 33,634               | 4,057              | 7,894                | 20,312             | 94,148   | 62,431                            | 154,421                            | 2,280   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 5,872             | 33,590               | 4,221              | 8,498                | 20,748             | 90,233   | 65,463                            | 153,692                            | 4,184   | (NA)  | (NA)                                     |
| 1958 (new SIC).....                         | 27                         | 27                | 14   | 5,330             | 29,863               | 3,750              | 7,454                | 17,956             | 84,180   | 55,359                            | 142,020                            | 2,217   | 93  | 83                                       |
| 1958 (old SIC) <sup>2</sup> .....           | (NA)                       | 46                | 21   | 5,871             | 32,720               | 4,116              | 8,188                | 19,370             | 89,409   | 62,220                            | 153,870                            | 2,240   | (NA)  | (NA)                                     |
| 1957 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 6,967             | 38,098               | 5,147              | 9,806                | 24,497             | 103,851  | 67,891                            | 171,756                            | 2,576   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 8,899             | 46,023               | 6,828              | 13,302               | 30,408             | 120,036  | 89,554                            | 205,217                            | (NA)  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 8,430             | 40,491               | 6,562              | 12,194               | 26,770             | 106,520  | 84,581                            | 187,970                            | (NA)  | (NA)  | (NA)                                     |
| 1954.....                                   | 37                         | 39                | 21   | 8,383             | 38,867               | 6,408              | 12,717               | 26,903             | 89,877   | 66,057                            | 160,512                            | 2,094   | 80  | 88                                       |
| 1953 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 10,517            | 47,543               | 8,014              | 16,440               | 33,365             | 107,419  | 77,082                            | 184,501                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 11,242            | 49,165               | 8,683              | 18,374               | 35,500             | 98,365   | 83,643                            | 181,958                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 11,702            | 47,329               | 9,014              | (NA)                 | 33,393             | 86,097   | 81,100                            | 167,147                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 11,254            | 42,735               | 8,702              | 17,464               | 30,297             | 101,309  | 73,027                            | 174,286                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 10,656            | 37,711               | 7,982              | 15,859               | 26,398             | 75,994   | 73,960                            | 149,904                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                   | 34                         | 34                | 20   | 14,880            | 44,797               | 12,232             | 24,434               | 35,266             | 91,047   | 74,994                            | 160,184                            | (NA)  | (NA)  | (NA)                                     |
| 1939.....                                   | (NA)                       | 21                | (NA)   | (NA)              | (NA)                 | 3,886              | (NA)                 | 5,288              | 33,113   | 9,132                             | 42,245                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3636.—SEWING MACHINES              |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 83                         | 86                | 17   | 7,646             | 51,962               | 5,844              | 12,136               | 36,303             | 98,328   | 30,567                            | 117,157                            | 2,568   | 90-95   | 96                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 6,793             | 44,702               | 4,538              | 10,141               | 29,098             | 81,537   | 48,333                            | 120,327                            | 1,536   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 9,921             | 58,926               | 6,703              | 13,791               | 38,008             | 89,730   | 50,068                            | 136,765                            | 3,511   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 10,373            | 62,407               | 7,132              | 15,748               | 41,168             | 87,526   | 50,267                            | 134,925                            | 4,262   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 9,771             | 53,524               | 7,109              | 13,904               | 34,834             | 72,248   | 49,412                            | 128,647                            | (S)   | (NA)  | (NA)                                     |
| 1958.....                                   | 83                         | 85                | 17   | 9,607             | 48,314               | 7,004              | 13,343               | 32,782             | 61,991   | 44,597                            | 109,314                            | 5,380   | 97  | 94                                       |
| 1957 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 11,745            | 55,748               | 8,828              | 17,072               | 40,241             | 84,494   | 36,453                            | 121,786                            | 4,360   | 91  | 97                                       |

See footnotes at end of table.

TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3636.—SEWING MACHINES—Continued    |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1956 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 13,296            | 64,094               | 10,049             | 19,649               | 45,881             | 89,176   | 46,167                            | 127,156                            | 3,668   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 13,880            | 59,412               | 10,799             | 19,929               | 43,663             | 77,896   | 47,030                            | 129,736                            | 2,381   | (NA)  | (NA)                                     |
| 1954.....                                   | 78                         | 82                | 28   | 12,414            | 56,552               | 9,443              | 19,142               | 40,697             | 70,339   | 38,796                            | 114,185                            | 3,045   | 91  | 94                                       |
| 1953 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 15,963            | 69,114               | 12,611             | 24,773               | 49,508             | 84,454   | 51,531                            | 135,985                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 17,381            | 71,487               | 14,152             | 27,021               | 53,764             | 98,836   | 41,024                            | 139,860                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 19,190            | 78,627               | 16,075             | (NA)                 | 61,457             | 105,131  | 46,475                            | 151,606                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 19,429            | 72,386               | 16,453             | 33,238               | 57,964             | 105,346  | 63,382                            | 168,728                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 15,325            | 53,335               | 12,666             | 27,518               | 41,271             | 79,240   | 47,694                            | 126,934                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                   | 69                         | 70                | (NA)   | 15,305            | 48,484               | 12,647             | 26,095               | 37,926             | 68,681   | 28,880                            | 97,011                             | (NA)  | 95  | 94                                       |
| 1939.....                                   | (NA)                       | 39                | (NA)   | 9,568             | 14,895               | 7,840              | (NA)                 | 11,157             | 21,096   | 8,611                             | 29,707                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                   | (NA)                       | 36                | (NA)   | 10,195            | 16,243               | 9,019              | (NA)                 | 13,551             | 25,833   | 9,003                             | 34,836                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                   | (NA)                       | 39                | (NA)   | 8,699             | 11,574               | 7,509              | (NA)                 | 9,053              | 16,603   | 6,032                             | 22,635                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....                                   | (NA)                       | 30                | (NA)   | 7,136             | 7,590                | 6,313              | (NA)                 | 6,034              | 10,064   | 2,862                             | 12,926                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3639.—HOUSEHOLD APPLIANCES, N.E.C. |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 102                        | 112               | 67   | 13,127            | 81,590               | 9,896              | 19,929               | 54,286             | 204,188  | 233,073                           | 435,458                            | 6,738   | 79  | 79                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 13,168            | 79,532               | 9,798              | 19,565               | 52,889             | 172,287  | 241,732                           | 412,638                            | 7,532   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 12,219            | 73,317               | 8,625              | 17,414               | 46,583             | 140,968  | 209,730                           | 353,219                            | (5,624)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 12,460            | 73,598               | 8,869              | 17,603               | 44,842             | 143,146  | 206,457                           | 348,470                            | 8,298   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 14,359            | 81,506               | 10,021             | 19,003               | 49,190             | 161,668  | 235,366                           | 398,977                            | (S)   | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                     | 86                         | 94                | 71   | 14,622            | 79,658               | 10,102             | 19,985               | 47,367             | 162,664  | 212,004                           | 378,758                            | 4,365   | 79  | 83                                       |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: **All employees:** For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** For 1947 and prior years figures represent an average of 12 monthly figures. **Value added:** Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. **Cost of materials:** Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. **Value of shipments:** Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.  
(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification. Accordingly, the data for 1963 and 1958 are not comparable with those for earlier years.

<sup>3</sup>A minor revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not strictly comparable. The 1957 and earlier figures are on the old SIC definition of the industry which included industrial vacuum cleaners and parts.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3631.—HOUSEHOLD COOKING EQUIPMENT  |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                  | 83             | 53                                 | 19,191         | 111,266           | 15,149             | 30,356            | 75,580          | 230,285                              | 253,530           | 473,453            | 8,216                     | 18,152           | 181,091                              |
| Northeast.....                              | 16             | 12                                 | 3,010          | 17,050            | 2,429              | 4,923             | 11,295          | 29,365                               | 35,014            | 61,960             | 943                       | 3,019            | 20,140                               |
| Pennsylvania.....                           | 6              | 5                                  | 1,470          | 8,620             | 1,093              | 2,169             | 4,709           | 14,782                               | 15,360            | 29,629             | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| North Central.....                          | 31             | 19                                 | 8,306          | 49,178            | 6,561              | 12,643            | 34,385          | 93,767                               | 104,448           | 196,284            | 2,192                     | 8,887            | 90,176                               |
| Illinois.....                               | 18             | 12                                 | 5,214          | 30,139            | 4,489              | 8,492             | 23,663          | 57,595                               | 69,059            | 125,608            | 1,203                     | 5,628            | 56,719                               |
| South.....                                  | 21             | 11                                 | 5,472          | 29,385            | 4,455              | 9,320             | 20,895          | 79,583                               | 84,096            | 159,275            | 3,991                     | 4,245            | 51,561                               |
| Pacific.....                                | 15             | 11                                 | 2,403          | 15,653            | 1,704              | 3,470             | 9,005           | 27,570                               | 29,972            | 55,934             | 1,090                     | 2,001            | 19,214                               |
| California.....                             | 15             | 11                                 | 2,403          | 15,653            | 1,704              | 3,470             | 9,005           | 27,570                               | 29,972            | 55,934             | 1,090                     | 2,001            | 19,214                               |
| INDUSTRY 3632.—HOUSEHOLD REFRIGERATORS      |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                  | 34             | 25                                 | 43,065         | 279,977           | 35,232             | 69,978            | 212,228         | 631,269                              | 696,141           | 1,306,539          | 21,765                    | 41,493           | 433,369                              |
| East North Central.                         | 19             | 17                                 | 34,130         | 226,342           | 27,883             | 55,579            | 172,159         | 498,188                              | 536,686           | 1,020,635          | 18,511                    | 32,068           | 311,460                              |
| Michigan.....                               | 7              | 6                                  | 4,939          | 29,729            | 4,028              | 8,303             | 22,547          | 55,894                               | 87,845            | 142,205            | 3,960                     | 4,696            | 37,092                               |
| Wisconsin.....                              | 3              | 3                                  | 521            | 2,989             | 410                | 865               | 2,079           | 5,372                                | 7,056             | 12,298             | 103                       | 1,165            | 9,523                                |
| All other divisions                         | 15             | 8                                  | 8,935          | 53,635            | 7,349              | 14,399            | 40,069          | 133,081                              | 159,455           | 285,904            | 3,254                     | 9,425            | 121,909                              |
| INDUSTRY 3633.—HOUSEHOLD LAUNDRY EQUIPMENT  |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                  | 39             | 28                                 | 18,343         | 115,387           | 14,738             | 28,827            | 85,865          | 353,863                              | 416,015           | 760,161            | 9,217                     | 24,597           | 324,480                              |
| East North Central.                         | 22             | 18                                 | 12,764         | 80,406            | 10,122             | 19,377            | 58,586          | 220,255                              | 307,205           | 518,195            | 6,400                     | 13,904           | 181,451                              |
| All other divisions                         | 17             | 10                                 | 5,579          | 34,981            | 4,616              | 9,450             | 27,279          | 133,608                              | 108,810           | 241,966            | 2,817                     | 10,693           | 143,029                              |
| INDUSTRY 3634.—ELECTRIC HOUSEWARES AND FANS |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                  | 312            | 136                                | 38,801         | 188,257           | 31,053             | 59,567            | 126,912         | 463,845                              | 394,578           | 850,281            | 17,009                    | 29,150           | 301,033                              |
| New England.....                            | 28             | 16                                 | 5,403          | 27,261            | 4,162              | 8,198             | 17,847          | 90,583                               | 49,090            | 137,134            | 2,416                     | 4,613            | 57,822                               |
| Massachusetts....                           | 11             | 5                                  | 269            | 1,130             | 211                | 382               | 792             | 1,052                                | 1,534             | 4,150              | 30                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Middle Atlantic....                         | 93             | 36                                 | 6,498          | 31,233            | 5,243              | 10,060            | 20,929          | 81,287                               | 60,699            | 141,274            | 2,188                     | 5,422            | 56,849                               |
| New York.....                               | 66             | 30                                 | 4,220          | 19,025            | 3,438              | 6,556             | 12,858          | 44,283                               | 38,569            | 82,622             | 949                       | 3,489            | 29,943                               |
| East North Central.                         | 75             | 31                                 | 12,676         | 75,728            | 9,360              | 17,793            | 46,488          | 157,884                              | 142,396           | 298,883            | 5,220                     | 11,767           | 114,274                              |
| Illinois.....                               | 31             | 16                                 | 7,022          | 43,917            | 5,228              | 9,919             | 26,993          | 97,193                               | 89,355            | 183,913            | 2,873                     | 7,549            | 73,860                               |
| Wisconsin.....                              | 11             | 4                                  | 2,330          | 12,950            | 1,647              | 3,180             | 7,945           | 23,391                               | 16,579            | 41,693             | 1,052                     | 2,043            | 17,661                               |
| West North Central.                         | 18             | 9                                  | 2,833          | 11,460            | 2,559              | 5,214             | 9,544           | 23,868                               | 26,765            | 50,631             | 797                       | 2,214            | 14,724                               |
| Missouri.....                               | 8              | 7                                  | 2,676          | 10,842            | 2,432              | 4,960             | 9,094           | 22,977                               | 25,947            | 48,938             | 762                       | 2,094            | 14,088                               |
| South Atlantic....                          | 25             | 14                                 | 3,195          | 12,101            | 2,774              | 5,522             | 9,351           | 27,658                               | 34,605            | 61,892             | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| North Carolina...<br>Tennessee.....         | 10<br>8        | 5<br>6                             | 2,064<br>2,425 | 7,823<br>8,256    | 1,820<br>2,140     | 3,615<br>3,988    | 6,279<br>6,374  | 17,851<br>25,698                     | 21,053<br>25,626  | 38,726<br>48,944   | 1,338<br>800              | 1,061<br>530     | 11,169<br>4,997                      |
| West South Central.                         | 13             | 6                                  | 1,211          | 4,123             | 1,080              | 2,125             | 3,477           | 5,090                                | 6,799             | 13,022             | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West.....                                   | 44             | 11                                 | 1,542          | 9,146             | 1,216              | 2,335             | 6,490           | 35,725                               | 15,503            | 51,891             | 658                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                             | 34             | 8                                  | 1,387          | 8,557             | 1,085              | 2,102             | 6,042           | 34,721                               | 14,119            | 49,479             | 617                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| INDUSTRY 3635.—HOUSEHOLD VACUUM CLEANERS    |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                  | 34             | 13                                 | 5,682          | 35,524            | 4,235              | 8,208             | 22,670          | 116,137                              | 65,315            | 175,357            | 5,739                     | 5,330            | 84,180                               |
| North Central.....                          | 16             | 7                                  | 4,233          | 26,617            | 3,095              | 6,053             | 16,624          | 83,924                               | 50,171            | 128,164            | 5,175                     | 3,962            | 59,660                               |
| All other divisions                         | 18             | 6                                  | 1,449          | 8,907             | 1,140              | 2,155             | 6,046           | 32,213                               | 15,144            | 47,193             | 564                       | 1,368            | 24,520                               |
| New York.....                               | 6              | 1                                  | 105            | 442               | 91                 | 182               | 299             | 680                                  | 785               | 1,447              | 15                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| INDUSTRY 3636.—SEWING MACHINES              |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                  | 86             | 17                                 | 7,646          | 51,962            | 5,844              | 12,136            | 36,303          | 98,328                               | 30,567            | 117,157            | 2,568                     | 9,607            | 61,991                               |
| Middle Atlantic....                         | 55             | 8                                  | 4,246          | 28,962            | 3,170              | 6,459             | 20,125          | 43,726                               | 16,929            | 55,126             | 990                       | 5,912            | 32,225                               |
| All other divisions                         | 31             | 9                                  | 3,400          | 23,000            | 2,674              | 5,677             | 16,178          | 54,602                               | 13,638            | 62,031             | 1,570                     | 3,695            | 29,766                               |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3639.—HOUSEHOLD APPLIANCES, N.E.C. |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                  | 112            | 67                                 | 13,127         | 81,590            | 9,896              | 19,929            | 54,286          | 204,188                              | 233,073           | 435,458            | 6,738                     | 14,622           | 162,664                              |
| New England.....                            | 4              | 3                                  | 752            | 3,861             | 502                | 1,007             | 2,184           | 10,001                               | 9,286             | 18,753             | (D)                       | 2,591            | 23,199                               |
| Middle Atlantic....                         | 15             | 9                                  | 1,071          | 6,123             | 837                | 1,554             | 4,145           | 12,573                               | 17,224            | 30,944             | (D)                       |                  |                                      |
| New York.....                               | 9              | 5                                  | 257            | 1,529             | 195                | 387               | 981             | 2,962                                | 3,408             | 6,463              | 87                        |                  |                                      |
| East North Central.                         | 41             | 24                                 | 5,762          | 37,766            | 4,440              | 9,024             | 26,072          | 86,489                               | 98,155            | 184,499            | 2,233                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Ohio.....                                   | 9              | 5                                  | 266            | 1,376             | 190                | 391               | 842             | 6,681                                | 5,164             | 11,879             | 50                        | 582              | 6,761                                |
| Indiana.....                                | 6              | 4                                  | 818            | 5,250             | 630                | 1,291             | 3,508           | 13,710                               | 13,131            | 27,054             | 97                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Illinois.....                               | 13             | 8                                  | 3,319          | 22,014            | 2,605              | 5,277             | 15,891          | 39,795                               | 55,384            | 95,436             | 1,161                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West North Central.                         | 4              | 3                                  | 133            | 788               | 98                 | 200               | 488             | 1,619                                | 1,568             | 3,211              | 23                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South.....                                  | 23             | 15                                 | 2,347          | 13,887            | 1,913              | 3,899             | 9,600           | 54,675                               | 48,101            | 100,699            | 939                       | 2,597            | 31,931                               |
| West.....                                   | 25             | 13                                 | 3,062          | 19,165            | 2,106              | 4,245             | 11,797          | 38,831                               | 58,739            | 97,352             | 2,147                     | 3,461            | 42,577                               |
| California.....                             | 17             | 10                                 | 2,749          | 17,418            | 1,869              | 3,802             | 10,572          | 34,311                               | 54,833            | 89,032             | 2,050                     | 3,134            | 40,849                               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State. SIC 3631, Household Cooking Equipment: New England—Massachusetts, 2 (20-99); Connecticut, 1 (100-249); Middle Atlantic—New York, 7 (1,338); East North Central—Ohio, 4 (1,000-2,499); Indiana, 1 (1-19); Michigan, 5 (1-19); Wisconsin, 2 (1,000-2,499); West North Central—Missouri, 1 (20-99); South Atlantic—District of Columbia, 1 (1-19); East South Central—Kentucky, 2 (1,000-2,499); Tennessee, 10 (3143); Alabama, 1 (1-19); Mississippi, 1 (100-249); West South Central—Oklahoma, 3 (20-99); Texas, 3 (1-19).

SIC 3632, Household Refrigerators: New England—Massachusetts, 1 (1-19); Middle Atlantic—New York, 3 (100-249); East North Central—Ohio, 2 (10,000 and over); Indiana, 4 (5,000-9,999); Illinois, 3 (2,968); West North Central—Minnesota, 4 (2,105); Iowa, 1 (500-999); Missouri, 1 (1-19); East South Central—Kentucky, 1 (2,500-4,999); West South Central—Arkansas, 1 (1,000-2,499); Texas, 1 (100-249); Pacific—California, 2 (1-19). SIC 3633, Household Laundry Equipment: Middle Atlantic—New York, 4 (250-499); Pennsylvania, 1 (250-499); East North Central—Ohio, 5 (6,486); Indiana, 1 (1-19); Illinois, 4 (2,882); Michigan, 6 (1,916); Wisconsin, 6 (1,000-2,499); West North Central—Minnesota, 1 (20-99); Iowa, 6 (2,599); Nebraska, 1 (1-19); East South Central—Kentucky, 1 (1,000-2,499); Pacific—Oregon, 1 (1-19); California, 2 (1-19).

SIC 3634, Electric Housewares and Fans: New England—Maine, 1 (1-19); New Hampshire, 1 (1-19); Rhode Island, 1 (1-19); Connecticut, 14 (5,130); Middle Atlantic—New Jersey, 18 (219); Pennsylvania, 9 (2,059); East North Central—Ohio, 9 (2,377); Indiana, 8 (765); Michigan, 16 (182); West North Central—Minnesota, 7 (152); Iowa, 1 (1-19); Kansas, 2 (1-19); South Atlantic—Delaware, 1 (100-249); Maryland, 2 (250-499); Virginia, 1 (20-99); West Virginia, 1 (20-99); South Carolina, 3 (458); Georgia, 2 (20-99); Florida, 5 (20-99); East South Central—Kentucky, 2 (500-999); Mississippi, 6 (1,000-2,499); West South Central—Arkansas, 3 (500-999); Louisiana, 3 (20-99); Oklahoma, 1 (1-19); Texas, 6 (359); Mountain—Colorado, 2 (1-19); Arizona, 1 (1-19); Pacific—Washington, 4 (20-99); Oregon, 3 (20-99).

SIC 3635, Household Vacuum Cleaners: New England—Connecticut, 1 (1,000-2,499); Middle Atlantic—New Jersey, 1 (1-19); Pennsylvania, 1 (20-99); East North Central—Ohio, 10 (3,155); Illinois, 3 (1,054); Michigan, 1 (1-19); Wisconsin, 1 (1-19); West North Central—Iowa, 1 (1-19); South Atlantic—Florida, 1 (1-19); West South Central—Oklahoma, 2 (20-99); Mountain—Colorado, 1 (1-19); Pacific—Oregon, 1 (20-99); California, 4 (188).

SIC 3636, Sewing Machines: New England—Maine, 2 (1-19); New Hampshire, 1 (1-19); Massachusetts, 8 (454); Connecticut, 2 (1,000-2,499); Middle Atlantic—New York, 45 (704); New Jersey, 6 (2,500-4,999); Pennsylvania, 4 (1-19); East North Central—Illinois, 5 (1,201); Michigan, 1 (1-19); West North Central—Minnesota, 2 (20-99); South Atlantic—Maryland, 1 (20-99); North Carolina, 1 (1-19); Florida, 1 (1-19); East South Central—Tennessee, 1 (1-19); Alabama, 1 (1-19); Mississippi, 1 (1-19); West South Central—Texas, 1 (1-19); Mountain—Arizona, 1 (1-19); Pacific—California, 2 (1-19).

SIC 3639, Household Appliances, N.E.C.: New England—Massachusetts, 2 (500-999); Rhode Island, 1 (100-249); Connecticut, 1 (20-99); Middle Atlantic—New Jersey, 1 (1-19); Pennsylvania, 4 (250-499); East North Central—Michigan, 5 (504); Wisconsin, 8 (855); West North Central—Iowa, 1 (20-99); Missouri, 1 (20-99); Nebraska, 1 (20-99); Kansas, 1 (1-19); South Atlantic—Maryland, 1 (100-249); Georgia, 1 (20-99); Florida, 4 (20-99); East South Central—Kentucky, 2 (1,000-2,499); Tennessee, 9 (500-999); Mississippi, 1 (1-19); West South Central—Oklahoma, 1 (20-99); Texas, 4 (284); Mountain—Colorado, 1 (1-19); Pacific—Washington, 5 (227); Oregon, 2 (20-99).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.



TABLE 3. Detailed Statistics: 1963

| Item   | Household cooking equipment (SIC 3631) | Household refrigerators (SIC 3632) | Household laundry equipment (SIC 3633) | Electric house-ware and fans (SIC 3634) | Household vacuum cleaners (SIC 3635) | Sewing machines (SIC 3636) | Household appliances, n.e.c. (SIC 3639) |
|--|--|------------------------------------|--|---|--------------------------------------|----------------------------|---|
| Primary product specialization ratio <sup>1</sup> .....        | .87                                    | .66                                | .89                                    | .87                                     | .87                                  | .90-.95                    | .79                                     |
| Coverage ratio <sup>2</sup> .....                              | .72                                    | .99                                | .87                                    | .81                                     | .80                                  | .96                        | .79                                     |
| Establishments, total.....number..                             | 83                                     | 34                                 | 39                                     | 312                                     | 34                                   | 86                         | 112                                     |
| With 1 to 19 employees.....do....                              | 30                                     | 9                                  | 11                                     | 176                                     | 21                                   | 69                         | 45                                      |
| With 20 to 99 employees.....do....                             | 17                                     | 5                                  | 9                                      | 71                                      | 6                                    | 10                         | 41                                      |
| With 100 employees or more.....do....                          | 36                                     | 20                                 | 19                                     | 65                                      | 7                                    | 7                          | 26                                      |
| Proprietors and working partners.....do....                    | 15                                     | 4                                  | 3                                      | 67                                      | 7                                    | 34                         | 20                                      |
| All employees (average for the year).....do....                | 19,191                                 | 43,065                             | 18,343                                 | 38,801                                  | 5,682                                | 7,646                      | 13,127                                  |
| Payroll (all employees), total for year.....\$1,000..          | 111,266                                | 279,977                            | 115,387                                | 188,257                                 | 35,524                               | 51,962                     | 81,590                                  |
| Production workers:  |  |                                    |  |   |                                      |                            |   |
| Average for the year.....number..                              | 15,149                                 | 35,232                             | 14,738                                 | 31,053                                  | 4,235                                | 5,844                      | 9,896                                   |
| March.....do....   | 15,354                                 | 34,078                             | 14,738                                 | 28,784                                  | 4,321                                | 5,524                      | 9,635                                   |
| May.....do....   | 16,044                                 | 35,652                             | 11,386                                 | 29,364                                  | 4,364                                | 5,674                      | 9,881                                   |
| August.....do....  | 14,681                                 | 34,021                             | 15,925                                 | 31,656                                  | 4,261                                | 5,839                      | 9,862                                   |
| November.....do....  | 14,517                                 | 37,177                             | 16,903                                 | 34,408                                  | 3,994                                | 6,340                      | 10,206                                  |
| Man-hours.....1,000..  | 30,356                                 | 69,978                             | 28,827                                 | 59,567                                  | 8,208                                | 12,136                     | 19,929                                  |
| January-March.....do....                                       | 7,452                                  | 18,665                             | 6,889                                  | 13,771                                  | 2,157                                | 2,884                      | 4,816                                   |
| April-June.....do....  | 8,296                                  | 16,495                             | 7,046                                  | 14,317                                  | 2,132                                | 3,112                      | 5,123                                   |
| July-September.....do....                                      | 7,197                                  | 16,365                             | 6,989                                  | 14,675                                  | 1,989                                | 2,816                      | 4,864                                   |
| October-December.....do....                                    | 7,427                                  | 18,453                             | 7,903                                  | 16,804                                  | 1,930                                | 3,324                      | 5,126                                   |
| Wages.....\$1,000..  | 75,580                                 | 212,228                            | 85,865                                 | 126,912                                 | 22,670                               | 36,303                     | 54,286                                  |
| Cost of materials, etc., total.....do....                      | 253,530                                | 696,141                            | 416,015                                | 394,578                                 | 65,315                               | 30,567                     | 233,073                                 |
| Materials, parts, containers, and supplies consumed.....do.... | 235,937                                | 648,625                            | 396,067                                | 335,544                                 | 59,439                               | 24,204                     | 215,869                                 |
| Cost of resales.....do....                                     | 10,524                                 | 33,242                             | 12,495                                 | 50,174                                  | 3,364                                | 5,039                      | 12,525                                  |
| Fuels consumed.....do....                                      | 2,319                                  | 5,180                              | 2,470                                  | 2,312                                   | 363                                  | 358                        | 1,511                                   |
| Electric energy:   |  |                                    |  |   |                                      |                            |   |
| Purchased:   |  |                                    |  |   |                                      |                            |   |
| Quantity.....million kw.-hrs..                                 | 236                                    | 738                                | 309                                    | 247                                     | 60                                   | 54                         | 128                                     |
| Cost.....\$1,000..   | 2,518                                  | 7,548                              | 3,313                                  | 3,711                                   | 748                                  | 618                        | 1,695                                   |
| Generated less sold.....million kw.-hrs..                      | (D)                                    | -                                  | (D)                                    | (D)                                     | -                                    | -                          | (D)                                     |
| Contract work.....\$1,000..                                    | 2,232                                  | 1,546                              | 1,670                                  | 2,837                                   | 1,401                                | 348                        | 1,473                                   |
| Value of shipments (including resales), total.....do....       | 473,453                                | 1,306,539                          | 760,161                                | 850,281                                 | 175,357                              | 117,157                    | 435,458                                 |
| Value of resales.....do....                                    | 16,953                                 | 38,645                             | 14,870                                 | 72,623                                  | (D)                                  | (D)                        | 13,597                                  |
| Value added by manufacture, adjusted.....do....                | 230,285                                | 631,269                            | 353,863                                | 463,845                                 | 116,137                              | 98,328                     | 204,188                                 |
| Manufacturers' inventories:                                    |  |                                    |  |   |                                      |                            |   |
| Beginning of year, total.....do....                            | 73,214                                 | 179,827                            | 100,539                                | 143,762                                 | 22,674                               | 51,500                     | 53,575                                  |
| Finished products.....do....                                   | 34,777                                 | 111,683                            | 51,215                                 | 68,339                                  | 9,539                                | 18,977                     | 20,532                                  |
| Work-in-process.....do....                                     | 13,601                                 | 30,741                             | 19,300                                 | 35,220                                  | 7,574                                | 28,851                     | 15,173                                  |
| Materials, supplies, fuel, etc.....do....                      | 24,836                                 | 37,403                             | 30,024                                 | 40,203                                  | 5,561                                | 3,672                      | 17,870                                  |
| End of year, total.....do....                                  | 84,918                                 | 208,619                            | 110,827                                | 159,772                                 | 30,087                               | 63,738                     | 58,124                                  |
| Finished products.....do....                                   | 45,162                                 | 121,280                            | 60,310                                 | 79,720                                  | 16,325                               | 19,585                     | 24,157                                  |
| Work-in-process.....do....                                     | 13,578                                 | 42,015                             | 19,922                                 | 31,981                                  | 6,883                                | 39,981                     | 13,351                                  |
| Materials, supplies, fuel, etc.....do....                      | 26,178                                 | 45,324                             | 30,595                                 | 48,071                                  | 6,879                                | 4,172                      | 20,616                                  |
| Expenditures for plant and equipment, total.....do....         | 8,310                                  | 23,933                             | 9,397                                  | 18,409                                  | 6,285                                | 5,929                      | 7,013                                   |
| New, total.....do....  | 8,216                                  | 21,765                             | 9,217                                  | 17,009                                  | 5,739                                | 2,568                      | 6,738                                   |
| New structures and additions to plant.....do....               | 2,738                                  | 2,744                              | 1,485                                  | 2,512                                   | 2,865                                | 604                        | 1,078                                   |
| New machinery and equipment.....do....                         | 5,478                                  | 19,021                             | 7,732                                  | 14,497                                  | 2,874                                | 1,964                      | 5,660                                   |
| Used plant and equipment.....do....                            | 94                                     | 2,168                              | 180                                    | 1,400                                   | 546                                  | 3,361                      | 275                                     |
| Selected operating ratios:                                     |  |                                    |  |   |                                      |                            |   |
| Payroll/Total employment.....                                  | 5,870                                  | 6,501                              | 6,291                                  | 4,852                                   | 6,252                                | 6,796                      | 6,215                                   |
| Production workers/Total employment.....                       | .79                                    | .82                                | .80                                    | .80                                     | .75                                  | .76                        | .75                                     |
| Man-hours/Production workers.....                              | 2,003                                  | 1,986                              | 1,956                                  | 1,918                                   | 1,938                                | 2,077                      | 2,014                                   |
| Production worker wages/Man-hours.....                         | 2.49                                   | 3.03                               | 2.98                                   | 2.13                                    | 2.76                                 | 2.99                       | 2.72                                    |
| Cost of materials and payrolls/Total value of shipments.....   | .77                                    | .75                                | .70                                    | .69                                     | .58                                  | .67                        | .72                                     |
| Cost of materials/Total value of shipments.....                | .54                                    | .53                                | .55                                    | .46                                     | .37                                  | .25                        | .54                                     |
| Adjusted value added/Total employment.....                     | 12,000                                 | 14,659                             | 19,291                                 | 11,954                                  | 20,439                               | 13,655                     | 15,555                                  |
| Salaries and wages/Adjusted value added.....                   | .48                                    | .44                                | .33                                    | .41                                     | .31                                  | .50                        | .40                                     |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

<sup>3</sup>In addition respondents were requested to report total production workers for each month. This information is as follows: January, 33,689; February, 33,564; March, 34,078; April, 34,625; May, 35,652; June, 35,957; July, 34,407; August, 34,021; September, 35,766; October, 35,995; November, 37,177; December, 37,634; The average number of production workers for the year based on a 12 month average was 35,214. This average differs from that shown in this table, table 1, 2, and 8 because they are based on a four month average.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3631.—HOUSEHOLD COOKING EQUIPMENT  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 83                    | 18                                 | 7                | 5                  | 6                  | 12                 | 10                   | 10                   | 10                   | 5                        | -                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 19,191                | 22                                 | 55               | 67                 | 204                | 884                | 1,598                | 3,181                | 6,851                | 6,329                    | -                        |
| Payroll.....\$1,000..                       | 111,266               | 105                                | 294              | 345                | 778                | 4,403              | 8,092                | 16,041               | 39,315               | 41,893                   | -                        |
| Value added, adjusted.....do....            | 230,285               | 149                                | 486              | 898                | 1,536              | 5,778              | 12,791               | 24,609               | 71,818               | 112,220                  | -                        |
| Value of shipments.....do....               | 473,453               | 412                                | 1,518            | 1,840              | 4,044              | 17,183             | 34,117               | 61,079               | 143,229              | 210,031                  | -                        |
| Capital expenditures, new...do....          | 8,216                 | 6                                  | 71               | 23                 | 39                 | 145                | 173                  | 1,406                | 2,526                | 3,827                    | -                        |
| INDUSTRY 3632.—HOUSEHOLD REFRIGERATORS      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 34                    | 7                                  | 1                | 1                  | 2                  | 3                  | 4                    | 3                    | 2                    | 6                        | 5                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 43,065                | 17                                 | (D)              | 282                | (D)                | (D)                | 798                  | 2,550                | (D)                  | 8,112                    | 31,306                   |
| Payroll.....\$1,000..                       | 279,977               | 87                                 | (D)              | 1,572              | (D)                | (D)                | 4,334                | 13,783               | (D)                  | 46,258                   | 213,943                  |
| Value added, adjusted.....do....            | 631,269               | 142                                | (D)              | 2,517              | (D)                | (D)                | 8,865                | 20,165               | (D)                  | 90,774                   | 508,806                  |
| Value of shipments.....do....               | 1,306,539             | 327                                | (D)              | 6,253              | (D)                | (D)                | 21,206               | 64,096               | (D)                  | 245,129                  | 969,528                  |
| Capital expenditures, new...do....          | 21,765                | 8                                  | (D)              | 50                 | (D)                | (D)                | 2,859                | (D)                  | (D)                  | 4,037                    | 14,811                   |
| INDUSTRY 3633.—HOUSEHOLD LAUNDRY EQUIPMENT  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 39                    | 5                                  | 2                | 4                  | 3                  | 6                  | 5                    | 4                    | 3                    | 6                        | 1                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 18,343                | 3                                  | 71               | (D)                | 99                 | 419                | 758                  | 1,181                | 2,468                | 13,344                   | (D)                      |
| Payroll.....\$1,000..                       | 115,387               | 14                                 | 367              | (D)                | 635                | 2,345              | 4,016                | 6,342                | 16,512               | 85,156                   | (D)                      |
| Value added, adjusted.....do....            | 253,863               | 24                                 | 647              | (D)                | 917                | 4,579              | 10,976               | 8,069                | 52,262               | 276,389                  | (D)                      |
| Value of shipments.....do....               | 760,161               | 59                                 | 2,653            | (D)                | 3,394              | 11,077             | 32,956               | 21,108               | 131,032              | 557,882                  | (D)                      |
| Capital expenditures, new...do....          | 9,217                 | 50                                 | (D)              | (D)                | (D)                | 66                 | 631                  | 477                  | 1,996                | 5,997                    | (D)                      |
| INDUSTRY 3634.—ELECTRIC HOUSEWARES AND FANS |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 312                   | 115                                | 30               | 31                 | 40                 | 31                 | 20                   | 19                   | 21                   | 4                        | 1                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 38,801                | 212                                | 204              | 447                | 1,318              | 2,189              | 3,290                | 6,784                | 14,841               | 9,516                    | (D)                      |
| Payroll.....\$1,000..                       | 188,257               | 889                                | 955              | 1,975              | 5,403              | 9,878              | 15,203               | 25,528               | 69,016               | 59,410                   | (D)                      |
| Value added, adjusted.....do....            | 463,845               | 1,864                              | 1,815            | 2,346              | 10,808             | 25,169             | 41,079               | 48,540               | 168,985              | 163,239                  | (D)                      |
| Value of shipments.....do....               | 850,281               | 3,851                              | 3,394            | 8,474              | 23,955             | 48,310             | 88,870               | 105,570              | 316,318              | 251,539                  | (D)                      |
| Capital expenditures, new...do....          | 17,009                | 420                                | 99               | 82                 | 462                | 454                | 1,565                | 3,412                | 5,866                | 4,649                    | (D)                      |
| INDUSTRY 3635.—HOUSEHOLD VACUUM CLEANERS    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 34                    | 7                                  | 6                | 8                  | 2                  | 4                  | 2                    | 1                    | 1                    | 3                        | -                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 5,682                 | 15                                 | 43               | 165                | (D)                | 254                | 1,093                | (D)                  | (D)                  | 4,112                    | -                        |
| Payroll.....\$1,000..                       | 35,524                | 56                                 | 188              | 863                | (D)                | 1,034              | 7,458                | (D)                  | (D)                  | 25,925                   | -                        |
| Value added, adjusted.....do....            | 116,137               | 107                                | 319              | 1,178              | (D)                | 2,311              | 23,750               | (D)                  | (D)                  | 88,472                   | -                        |
| Value of shipments.....do....               | 175,357               | 236                                | 788              | 3,509              | (D)                | 4,800              | 42,568               | (D)                  | (D)                  | 123,456                  | -                        |
| Capital expenditures, new...do....          | 5,739                 | 4                                  | 12               | 68                 | (D)                | 63                 | 5,592                | (D)                  | (D)                  | (D)                      | -                        |
| INDUSTRY 3636.—SEWING MACHINES              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 86                    | 46                                 | 13               | 10                 | 7                  | 3                  | -                    | 3                    | 2                    | 1                        | 1                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 7,646                 | 74                                 | 87               | 135                | 205                | 224                | -                    | 6,921                | (D)                  | (D)                      | (D)                      |
| Payroll.....\$1,000..                       | 51,962                | 529                                | 556              | 867                | 1,208              | 1,338              | -                    | 47,464               | (D)                  | (D)                      | (D)                      |
| Value added, adjusted.....do....            | 98,328                | 873                                | 1,062            | 1,352              | 2,065              | 3,117              | -                    | 89,859               | (D)                  | (D)                      | (D)                      |
| Value of shipments.....do....               | 117,157               | 1,284                              | 1,435            | 2,188              | 3,736              | 4,770              | -                    | 103,744              | (D)                  | (D)                      | (D)                      |
| Capital expenditures, new...do....          | 2,568                 | 17                                 | 14               | 14                 | 17                 | 29                 | -                    | 2,477                | (D)                  | (D)                      | (D)                      |
| INDUSTRY 3639.—HOUSEHOLD APPLIANCES, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 112                   | 25                                 | 8                | 12                 | 23                 | 18                 | 7                    | 11                   | 6                    | 2                        | -                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 13,127                | 45                                 | 56               | 189                | 701                | 1,296              | 891                  | 3,491                | 6,458                | (D)                      | -                        |
| Payroll.....\$1,000..                       | 81,590                | 243                                | 284              | 1,160              | 4,007              | 7,280              | 5,438                | 18,606               | 44,572               | (D)                      | -                        |
| Value added, adjusted.....do....            | 204,188               | 668                                | 432              | 2,444              | 11,287             | 18,750             | 9,107                | 51,933               | 109,567              | (D)                      | -                        |
| Value of shipments.....do....               | 435,458               | 1,417                              | 985              | 6,030              | 23,330             | 42,546             | 21,977               | 108,850              | 230,323              | (D)                      | -                        |
| Capital expenditures, new...do....          | 6,738                 | 10                                 | 18               | 59                 | 152                | 643                | 287                  | 1,828                | 3,741                | (D)                      | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

n.e.c. Not elsewhere classified.

<sup>1</sup>Includes capital expenditures of approximately \$200-\$500 thousand for plants under construction but not in operation.



TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|---|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |   | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |   | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           | A                                       | B                  | C                | D                  | E                      | F                                    | G                                  | H                     | I                        |                               |
| 3631      | Household cooking equipment.....1963..  | 473,453            | 383,784          | 59,736             | 29,933                 | 87                                   | 536,748                            | 383,784               | 152,964                  | 72                            |
|           | 1958..                                  | 364,852            | 311,789          | 40,629             | 12,434                 | 88                                   | 433,123                            | 311,789               | 121,334                  | 72                            |
| 3632      | Household refrigerators.....1963..      | 1,306,539          | 830,894          | 431,700            | 43,945                 | 66                                   | 831,821                            | 830,894               | 927                      | 99                            |
|           | 1958..                                  | 1,002,302          | 719,684          | 256,148            | 26,470                 | 74                                   | 729,170                            | 719,684               | 9,486                    | 98                            |
| 3633      | Household laundry equipment.....1963..  | 760,161            | 663,509          | 79,244             | 17,408                 | 89                                   | 766,068                            | 663,509               | 102,559                  | 87                            |
|           | 1958..                                  | 738,920            | 654,088          | 66,082             | 18,750                 | 91                                   | 719,574                            | 654,088               | 65,486                   | 91                            |
| 3634      | Electric housewares and fans.....1963.. | 850,281            | 658,289          | 100,951            | 91,041                 | 87                                   | 809,950                            | 658,289               | 151,661                  | 81                            |
|           | 1958..                                  | 559,090            | 446,635          | 71,173             | 41,282                 | 86                                   | 543,790                            | 446,635               | 97,155                   | 82                            |
| 3635      | Household vacuum cleaners.....1963..    | 175,357            | 146,312          | 22,628             | 6,417                  | 87                                   | 183,138                            | 146,312               | 36,836                   | 80                            |
|           | 1958..                                  | 142,020            | 129,021          | 9,325              | 3,674                  | 93                                   | 155,571                            | 129,021               | 26,550                   | 83                            |
| 3636      | Sewing machines.....1963..              | 117,157            | 100,720          | (D)                | (D)                    | 90-95                                | 104,713                            | 100,720               | 3,993                    | 96                            |
|           | 1958..                                  | 109,314            | 92,010           | 2,786              | 14,518                 | 97                                   | 97,725                             | 92,010                | 5,715                    | 94                            |
| 3639      | Household appliances, n.e.c.....1963..  | 435,458            | 326,919          | 90,174             | 18,365                 | 79                                   | 414,602                            | 326,919               | 87,683                   | 79                            |
|           | 1958..                                  | 378,758            | 284,117          | 73,883             | 20,758                 | 79                                   | 341,482                            | 284,117               | 57,365                   | 83                            |

Note: See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.  
n.e.c. Not elsewhere classified.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars except for ranges (shown in parentheses) which are expressed in millions of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous

receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code | Class of products and miscellaneous receipts  | All industries | Household cooking equipment (SIC 3631) | Other industries | Prod. class code | Class of products and miscellaneous receipts   | All industries | Household refrigerators (SIC 3632)     | Other industries |
|------------------|---|----------------|--|------------------|------------------|--|----------------|--|------------------|
|                  | HOUSEHOLD COOKING EQUIPMENT INDUSTRY  |                |  |                  |                  | HOUSEHOLD REFRIGERATORS INDUSTRY   |                |  |                  |
|                  | Total shipments and receipts of the industry.....   | (X)            | 473,453                                | (X)              |                  | Total shipments and receipts of the industry.....  | (X)            | 1,306,539                              | (X)              |
|                  | Primary products.....   | 536,748        | 383,784                                | 152,964          |                  | Primary products.....  | 831,821        | 830,894                                | 927              |
| 36311            | Electric household ranges and ovens and surface cooking unit equipment and parts (except small appliances)..... | 282,083        | 157,024                                | 125,059          | 36321            | Household refrigerators.....   | 687,887        | 687,243                                | 644              |
| 36312            | Household ovens and ranges, equipment and parts, except electric.....   | 254,665        | 226,760                                | 27,905           | 36322            | Home and farm freezers.....  | 143,132        | 143,651                                | 283              |
| 36310            | Household cooking equipment, n.s.k.....   |                |  |                  | 36320            | Household refrigerators, and farm freezers, n.s.k.....   | 802            |  |                  |
|                  | Secondary products.....   | (X)            | 59,736                                 | (X)              |                  | Secondary products.....  | (X)            | 431,700                                | (X)              |
| 34334            | Domestic heating stoves (except electric), except parts.....  | (X)            | 4,529                                  | (X)              | 35851            | Heat transfer equipment.....   | (X)            | 148,492                                | (X)              |
| 36341            | Electric fans, except industrial type.....  | (X)            | 4,251                                  | (X)              | 35853            | Commercial refrigeration equipment.....  | (X)            | 17,451                                 | (X)              |
| 36393            | Other household appliances and parts.....   | (X)            | 5,645                                  | (X)              | 35854            | Compressors and compressor units, all refrigerants.....  | (X)            | 53,769                                 | (X)              |
|                  | Other secondary products.....   | (X)            | 45,311                                 | (X)              | 35857            | Other refrigeration and air-conditioning equipment, including soda fountain and beer dispensing equipment.....   | (X)            | 10,118                                 | (X)              |
| 34332            | Warm air furnances (except floor and wall) except parts..   | (X)            | (over 2)                               | (X)              |                  | Other secondary products.....  | (X)            | 115,205                                | (X)              |
| 34990            | Fabricated metal products, n.e.c.   | (X)            | (2-5)                                  | (X)              | 36311            | Electric household ranges and ovens and surface cooking unit equipment and parts, (except small appliances)..... | (X)            | (over 2)                               | (X)              |
| 35851            | Heat transfer equipment.....  | (X)            | (5-10)                                 | (X)              | 36393            | Other household appliances and parts.....  | (X)            | 27,590                                 | (X)              |
| 35854            | Compressors and compressor units, all refrigerants.....   | (X)            | (over 2)                               | (X)              | 36331            | Household mechanical washing machines, dryers, and washer-dryer combination.....                                 | (X)            | (50-100)                               | (X)              |
| 35891            | Commercial cooking and food warming equipment.....  | (X)            | (2-5)                                  | (X)              | 36344            | Parts and attachments for small household electric appliances..  | (X)            | (over 2)                               | (X)              |
| 36343            | Other small household electric appliances.....  | (X)            | (2-5)                                  | (X)              | 36350            | Household vacuum cleaners, including parts and attachments   | (X)            | (over 2)                               | (X)              |
| 39410            | Games and toys, except dolls and children's vehicles.....   | (X)            | (over 2)                               | (X)              | 36391            | Household water heaters, electric.....   | (X)            | (2-5)                                  | (X)              |
|                  | Miscellaneous receipts.....   | (X)            | 29,933                                 | (X)              | 37175            | Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufacturers.....        | (X)            | (over 2)                               | (X)              |
|                  | Contract work.....  | (X)            | 2,879                                  | (X)              |                  | Miscellaneous receipts.....  | (X)            | 43,945                                 | (X)              |
|                  | Resales.....  | (X)            | 16,953                                 | (X)              |                  | Resales.....   | (X)            | 38,645                                 | (X)              |
|                  | Other.....  | (X)            | 10,101                                 | (X)              |                  | Contract work and other miscellaneous receipts.....  | (X)            | 5,300                                  | (X)              |
|                  | Listing of other industries with over \$2 million shipments of each primary product class:                      |                |  |                  |                  |  |                |  |                  |
| 36311            | 3522 Farm machinery and equipment.....  | (X)            | (X)                                    | (over 2)         |                  |  | All industries | Household laundry equipment (SIC 3633) | Other industries |
|                  | 3629 Electrical industrial goods, n.e.c.....  | (X)            | (X)                                    | (over 2)         |                  |  |                |  |                  |
|                  | 3632 Household refrigerators....  | (X)            | (X)                                    | (over 2)         |                  |  |                |  |                  |
|                  | 3633 Household laundry equipment.....   | (X)            | (X)                                    | (over 2)         |                  |  |                |  |                  |
|                  | 3634 Electric housewares and fans.....  | (X)            | (X)                                    | (over 2)         |                  |  |                |  |                  |
|                  | 3729 Aircraft equipment, n.e.c..  | (X)            | (X)                                    | (2-5)            |                  |  |                |  |                  |
| 36312            | 3433 Heating equipment, except electric.....  | (X)            | (X)                                    | 10,004           |                  | HOUSEHOLD LAUNDRY EQUIPMENT INDUSTRY   |                |  |                  |
|                  | 3585 Refrigeration machinery....  | (X)            | (X)                                    | (2-5)            |                  | Total shipments and receipts of the industry.....  | (X)            | 760,161                                | (X)              |
|                  | 3633 Household laundry equipment.....   | (X)            | (X)                                    | (2-5)            | 36331            | Primary products.....  | 766,068        | 663,509                                | 102,559          |
|                  |   |                |  |                  |                  | Household mechanical washing machines, dryers, and washer-dryer combination.....                                 | 698,765        | 601,979                                | 96,786           |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code | Class of products and miscellaneous receipts  | All industries | Household laundry equipment (SIC 3633)  | Other industries | Prod. class code | Class of products and miscellaneous receipts   | All industries | Electric housewares and fans (SIC 3634) | Other industries |
|------------------|---|----------------|---|------------------|------------------|--|----------------|---|------------------|
|                  | HOUSEHOLD LAUNDRY EQUIPMENT INDUSTRY—Continued  |                |   |                  |                  | ELECTRIC HOUSEWARES AND FANS INDUSTRY—Continued  |                |   |                  |
| 36332            | Primary products—Continued  |                |   |                  |                  | Secondary products—Continued.....  |                |   |                  |
|                  | Other household laundry equipment and parts.....  | 66,839         | 61,066                                  | 5,773            |                  | Other secondary products:  |                |   |                  |
| 36330            | Household laundry equipment, n.s.k.....   | 464            | 464                                     | -                | 33610            | Aluminum and aluminum-base alloy castings.....   | (X)            | (over 2)                                | (X)              |
|                  | Secondary products.....   | (X)            | 79,244                                  | (X)              | 34293            | Vacuum and insulated bottles, jugs and chests.....   | (X)            | (5-10)                                  | (X)              |
| 35820            | Commercial laundry, dry cleaning and pressing machinery and equipment.....  | (X)            | 7,017                                   | (X)              | 34320            | Plumbing fixture fittings and trim (brass goods).....  | (X)            | (2-5)                                   | (X)              |
|                  | Other secondary products.....   | (X)            | 72,227                                  | (X)              | 34618            | Other stamped and pressed metal end products.....  | (X)            | (over 2)                                | (X)              |
| 30310            | Reclaimed rubber.....   | (X)            | (over 2)                                | (X)              | 35227            | Lawn mowers and parts.....   | (X)            | (over 2)                                | (X)              |
| 36311            | Electrical household ranges and ovens and surface cooking unit equipment and parts (except small appliances)..... | (X)            | (over 2)                                | (X)              | 36216            | Parts and supplies for motors, generators, and motor generator sets, except land transportation.....                 | (X)            | (over 2)                                | (X)              |
| 36312            | Household ovens and ranges, equipment and parts, except electric.....   | (X)            | (2-5)                                   | (X)              | 36311            | Electric household ranges and ovens and surface cooking unit equipment and parts (except small appliances).....      | (X)            | (over 2)                                | (X)              |
| 36343            | Other small household electric appliances.....  | (X)            | (over 2)                                | (X)              | 36350            | Household vacuum cleaners, including parts and attachments..   | (X)            | (2-5)                                   | (X)              |
| 36344            | Parts and attachments for small household electric appliances.....  | (X)            | (over 2)                                | (X)              | 36511            | Household and automobile radios, and radio-phonograph combinations.....  | (X)            | (over 2)                                | (X)              |
|                  | Miscellaneous receipts.....   | (X)            | 17,408                                  | (X)              | 36623            | Intercommunication equipment (except telephone and telegraph) and electric alarm and signal systems and devices..... | (X)            | (5-10)                                  | (X)              |
|                  | Resales.....  | (X)            | 14,870                                  | (X)              | 36992            | Lamp bulb components (except glass bulbs) and electrical products.....   | (X)            | (2-5)                                   | (X)              |
|                  | Contract work and other miscellaneous receipts.....   | (X)            | 2,538                                   | (X)              | 37175            | Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufacturers.....            | (X)            | (over 2)                                | (X)              |
|                  | Listing of other industries with over \$2 million shipments of each primary product class:                        |                |   |                  | 37292            | Guided missile components and subassemblies, n.e.c.....  | (X)            | (2-5)                                   | (X)              |
| 36331            | 3632 Household refrigerators....  | (X)            | (X)                                     | (50-100)         | 38711            | Clocks.....  | (X)            | (over 2)                                | (X)              |
|                  | 3729 Aircraft equipment, n.e.c..  | (X)            | (X)                                     | (over 2)         | 39993            | Other miscellaneous fabricated products.....   | (X)            | (5-10)                                  | (X)              |
|                  |   | All industries | Electric housewares and fans (SIC 3634) | Other industries |                  | Miscellaneous receipts.....  | (X)            | 91,041                                  | (X)              |
|                  |   |                |   |                  |                  | Contract work.....   | (X)            | 996                                     | (X)              |
|                  |   |                |   |                  |                  | Resales.....   | (X)            | 74,382                                  | (X)              |
|                  |   |                |   |                  |                  | Other miscellaneous receipts.....  | (X)            | 15,663                                  | (X)              |
|                  | ELECTRIC HOUSEWARES AND FANS INDUSTRY   |                |   |                  |                  | Listing of other industries with over \$2 million shipments of each primary product class:                           |                |   |                  |
|                  | Total shipments and receipts of the industry.....   | (X)            | 850,281                                 | (X)              | 36341            | 2514 Metal household furniture...  | (X)            | (X)                                     | (over 2)         |
|                  | Primary products.....   | 809,950        | 658,289                                 | 151,661          |                  | 3581 Automatic vending machines..  | (X)            | (X)                                     | (over 2)         |
| 36341            | Electric fans, except industrial type.....  | 101,972        | 79,609                                  | 22,363           |                  | 3621 Motors and generators.....  | (X)            | (X)                                     | (2-5)            |
| 36342            | Electric razors and dry shavers..   | 53,390         | 53,390                                  | ( <sup>1</sup> ) |                  | 3631 Household cooking equipment.  | (X)            | (X)                                     | 4,251            |
| 36343            | Other small household electric appliances.....  | 562,647        | 471,333                                 | 91,314           | 36343            | 3751 Motorcycles, bicycles, and parts.....   | (X)            | (X)                                     | (over 2)         |
| 36344            | Parts and attachments for small household electric appliances...  | 81,521         | 43,740                                  | 37,781           |                  | 3229 Pressed and blown glass, n.e.c.....   | (X)            | (X)                                     | (over 2)         |
| 36340            | Electric housewares and fans, n.s.k.....  | 10,420         | 10,217                                  | 203              |                  | 3461 Metal stampings.....  | (X)            | (X)                                     | 31,133           |
|                  | Secondary products.....   | (X)            | 100,951                                 | (X)              |                  | 3535 Conveyors.....  | (X)            | (X)                                     | (over 2)         |
| 35482            | Power driven hand tools, including parts and attachments.....   | (X)            | 2,524                                   | (X)              |                  | 3581 Automatic vending machines..  | (X)            | (X)                                     | (2-5)            |
| 35891            | Commercial cooking and food warming equipment.....  | (X)            | 2,981                                   | (X)              |                  | 3585 Refrigeration machinery.....  | (X)            | (X)                                     | 3,197            |
| 36393            | Other household appliances and parts.....   | (X)            | 3,107                                   | (X)              |                  | 3621 Motors and generators.....  | (X)            | (X)                                     | 3,124            |
|                  |   |                |   |                  |                  | 3631 Household cooking equipment.  | (X)            | (X)                                     | (2-5)            |
|                  |   |                |   |                  |                  | 3633 Household laundry equipment.  | (X)            | (X)                                     | (over 2)         |
|                  |   |                |   |                  |                  | 3717 Motor vehicles and parts....  | (X)            | (X)                                     | (over 2)         |
|                  |   |                |   |                  |                  | 3871 Watches and clocks.....   | (X)            | (X)                                     | (5-10)           |
|                  |   |                |   |                  | 36344            | 3629 Electric industrial goods, n.e.c.....   | (X)            | (X)                                     | (over 2)         |
|                  |   |                |   |                  |                  | 3632 Household refrigerators.....  | (X)            | (X)                                     | (over 2)         |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963—Continued

| Prod. class code | Class of products and miscellaneous receipts   | All industries | Household vacuum cleaners (SIC 3635) | Other industries | Prod. class code | Class of products and miscellaneous receipts  | All industries | Household appliances, n.e.c. (SIC 3639) | Other industries |
|------------------|--|----------------|--------------------------------------|------------------|------------------|---|----------------|---|------------------|
|                  | HOUSEHOLD VACUUM CLEANERS INDUSTRY   |                |                                      |                  |                  | HOUSEHOLD APPLIANCES, N.E.C. INDUSTRY   |                |   |                  |
|                  | Total shipments and receipts of the industry.....  | (X)            | 175,357                              | (X)              |                  | Total shipments and receipts of the industry.....   | (X)            | 435,458                                 | (X)              |
| 36350            | Household vacuum cleaners.....   | 183,138        | 146,312                              | 36,836           | 36391            | Primary products.....   | 414,602        | 326,919                                 | 87,683           |
|                  | Secondary products.....  | (X)            | 22,628                               | (X)              | 36392            | Household water heaters, electric.  | 61,408         | 52,899                                  | 8,509            |
| 36393            | Other household appliances and parts.....  | (X)            | (over 2)                             | (X)              | 36392            | Household water heaters, except electric.....   | 142,171        | 131,870                                 | 10,301           |
|                  | Other secondary products.....  | (X)            | (over 2)                             | (X)              | 36393            | Other household appliances and parts.....   | 208,149        | 139,601                                 | 68,548           |
|                  | Miscellaneous receipts.....  | (X)            | 6,417                                | (X)              | 36390            | Household appliances, n.e.c., n.s.k.....  | 2,874          | 2,549                                   | 325              |
|                  | Resales.....   | (X)            | 4,638                                | (X)              |                  | Secondary products, total.....  | (X)            | 90,174                                  | (X)              |
|                  | Contract work and other miscellaneous receipts.....  | (X)            | 1,779                                | (X)              | 34336            | Other heating equipment (except electric) and parts for non-electric heating equipment..... | (X)            | 13,248                                  | (X)              |
|                  | Listing of other industries with over \$2 million shipments of each primary product class: |                |                                      |                  | 35892            | Service-industry machines, and parts.....   | (X)            | 3,792                                   | (X)              |
| 36350            | 3581 Automatic vending machines.   | (X)            | (X)                                  | (over 2)         | 34310            | Other secondary products.....   | (X)            | 73,134                                  | (X)              |
|                  | 3632 Household refrigerators....   | (X)            | (X)                                  | (over 2)         | 34332            | Metal plumbing fixtures.....  | (X)            | (over 2)                                | (X)              |
|                  | 3634 Electric housewares and fans.....   | (X)            | (X)                                  | (2-5)            | 34332            | Warm air furnaces (except floor and wall), except parts.....                                | (X)            | (5-10)                                  | (X)              |
|                  | 3639 Household appliances, n.e.c.....  | (X)            | (X)                                  | (10-20)          | 3443             | Other sheet metal work.....   | (X)            | (over 2)                                | (X)              |
|                  | 3717 Motor vehicles and parts...   | (X)            | (X)                                  | (over 2)         | 34912            | Steel shipping barrels and drums (over 12 gallon capacity), except beer barrels.....        | (X)            | (over 2)                                | (X)              |
|                  |  |                |                                      |                  | 34990            | Fabricated metal products, n.e.c.   | (X)            | (5-10)                                  | (X)              |
|                  |  |                |                                      |                  | 35851            | Heat transfer equipment.....  | (X)            | (over 2)                                | (X)              |
|                  |  |                |                                      |                  | 36350            | Household vacuum cleaners, including parts and attachments..                                | (X)            | (10-20)                                 | (X)              |
|                  |  |                |                                      |                  | 39932            | Nonelectric signs and advertising displays.....   | (X)            | (2-5)                                   | (X)              |
|                  |  |                |                                      |                  |                  | Miscellaneous receipts, total.....  | (X)            | 18,365                                  | (X)              |
|                  |  |                |                                      |                  |                  | Contract and commission work.....   | (X)            | 131                                     | (X)              |
|                  |  |                |                                      |                  |                  | Sales of products bought and resold.....  | (X)            | 13,597                                  | (X)              |
|                  |  |                |                                      |                  |                  | Other miscellaneous receipts.....   | (X)            | 4,637                                   | (X)              |
|                  |  |                |                                      |                  |                  | Listing of other industries shipping \$2 million or more of primary product classes:        |                |   |                  |
| 36360            | Total shipments and receipts of the industry.....  | (X)            | 117,157                              | (X)              | 36391            | 3632 Household refrigerators....  | (X)            | (X)                                     | (2-5)            |
|                  | Sewing machines and parts, except cases and cabinets sold separately.....                  | 104,713        | 100,720                              | 3,993            | 36392            | 3433 Heating equipment, except electric.....  | (X)            | (X)                                     | 6,014            |
|                  | Secondary products.....  | (X)            | (D)                                  | (X)              | 36393            | 3443 Boiler shop products.....  | (X)            | (X)                                     | (2-5)            |
|                  | Miscellaneous receipts.....  | (X)            | (D)                                  | (X)              |                  | 3432 Plumbing fittings, brass goods.....  | (X)            | (X)                                     | (over 2)         |
|                  |  |                |                                      |                  |                  | 3581 Automatic vending machines..   | (X)            | (X)                                     | (over 2)         |
|                  |  |                |                                      |                  |                  | 3631 Household cooking equipment.   | (X)            | (X)                                     | 5,645            |
|                  |  |                |                                      |                  |                  | 3632 Household refrigerators.....   | (X)            | (X)                                     | 27,590           |
|                  |  |                |                                      |                  |                  | 3435 Household vacuum cleaners...   | (X)            | (X)                                     | (over 2)         |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.  
<sup>1</sup>Value of electric razors and dry shavers shipped by other industries is included with shipments of the electric housewares and fans industry to avoid disclosure of operations of individual companies.



TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Total shipments including interplant transfers |                    |                               |                    |
|--------------|---|--|--------------------|-------------------------------|--------------------|
|              |   | 1963   |                    | 1958                          |                    |
|              |   | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 3631- --     | HOUSEHOLD COOKING EQUIPMENT, TOTAL.....   | (X)  | 536,748            | (X)                           | 433,123            |
| 36311 --     | Electric household ranges and ovens; surface cooking equipment and parts, excluding small appliances.....   | (X)  | 282,083            | (X)                           | 203,748            |
|              | Electric ranges, over 2-1/2 kw, excluding range-refrigerator combinations:  |  |                    |                               |                    |
|              | Free standing ranges:   |  |                    |                               |                    |
| 36311 11     | 22" and under in width (including apartment-house type).....  | 79,943   | 6,595              | } 454,000                     | } 55,963           |
|              | Over 22" up to and including 32" in width:  |  |                    |                               |                    |
| 36311 21     | Low oven.....   | 521,109  | 61,228             |                               |                    |
| 36311 23     | High oven (or high and low oven).....   | 171,598  | 36,456             |                               |                    |
|              | Over 32" up to and including 38" width:   |  |                    | } 335,000                     | } 52,896           |
| 36311 31     | Low oven.....   | } 55,399                                       | } 7,060            |                               |                    |
| 36311 33     | High oven (or high and low oven).....   |  |                    |                               |                    |
|              | Over 38" in width:  |  |                    |                               |                    |
| 36311 43     | Low oven.....   | 189,410  | 27,693             | } 335,000                     | } 52,896           |
| 36311 45     | High oven (or high and low oven).....   | 38,132   | 11,844             |                               |                    |
|              | Other than free standing:   |  |                    |                               |                    |
|              | Built-in ranges:  |  |                    |                               |                    |
|              | Regular built-in or stack-on oven-broiler units:  |  |                    | } (X)                         | } 194,889          |
| 36311 53     | Single oven.....  | 393,010  | 34,127             |                               |                    |
| 36311 55     | Double oven.....  | 80,671   | 10,746             |                               |                    |
| 36311 61     | Cooking tops.....   | 399,027  | 21,800             |                               |                    |
| 36311 71     | Drop-in ranges.....   | 276,597  | 32,441             | (NA)                          | (NA)               |
| 36311 73     | Other electric ranges not listed above.....   | } (X)  | } 32,093           | (X)                           | (NA)               |
| 36311 81     | Parts and accessories for household electric ranges and ovens, including such items as burners, rotisseries, oven racks, broilers pans, etc. (sold separately)..... |  |                    |                               |                    |
| 36312 --     | Household ovens and ranges, equipment, and parts (except electric).....   | (X)  | 253,568            | (X)                           | 229,375            |
| 36312 10     | Domestic cooking appliances, except electric:   |  |                    |                               |                    |
|              | Reported in census of manufactures.....   | (X)  | 219,719            | (X)                           | 199,192            |
|              | Reported on Annual Form MA-34N <sup>2</sup> .....   | (X)  | 219,497            | (X)                           | 196,863            |
| 36312 11     | Barbecuers, grills, and braziers for outdoor cooking.....   | 3,710,680                                      | 23,630             | } (X)                         | } 30,183           |
| 36312 98     | Other household cooking equipment (except electric) and parts for cooking equipment sold separately.....  | (X)  | 9,178              |                               |                    |
| 36312 00     | Domestic cooking appliances, n.s.k.....   | (X)  | 1,041              |                               |                    |
| 36310 00     | Household cooking equipment, n.s.k.....   | (X)  | 1,097              | -                             | -                  |

| Product  | 1963  |  |                    | 1958   |  |                    |           |
|----------|---|--|--------------------|--|--|--------------------|-----------|
|          | Production for all purposes<br>(number of units)                                  | Total shipments including interplant transfers |                    | Production for all purposes<br>(number of units) | Total shipments including interplant transfers |                    |           |
|          |   | Quantity<br>(number of units)                  | Value<br>(\$1,000) |  | Quantity<br>(number of units)                  | Value<br>(\$1,000) |           |
| 3632- -- | HOUSEHOLD REFRIGERATORS AND HOME AND FARM FREEZERS, TOTAL.....                    | (X)  | (X)                | 831,821  | (X)  | (X)                | 729,170   |
| 36321 -- | Household refrigerators.....  | 4,220,640                                      | 4,098,454          | 687,887  | 3,037,780                                      | 3,153,256          | 551,164   |
|          | Household mechanical refrigerators (including combination refrigerator freezers): |  |                    |  |  |                    |           |
|          | Complete units:   |  |                    |  |  |                    |           |
| 36321 07 | 6.4 cubic feet and under.....   | } 40,761                                       | } 45,188           | } 3,999  | } 31,234                                       | } 28,110           | } 3,690   |
| 36321 13 | 6.5 to 7.4 cubic feet.....  |  |                    |  |  |                    |           |
| 36321 14 | 7.5 to 8.4 cubic feet.....  |  |                    |  |  |                    |           |
| 36321 15 | 8.5 to 9.4 cubic feet.....  |  |                    |  |  |                    |           |
| 36321 16 | 9.5 to 10.4 cubic feet.....   |  |                    |  |  |                    |           |
|          | 10.5 to 11.4 cubic feet:  |  |                    |  |  |                    |           |
| 36321 17 | Single exterior door.....   | 133,331  | 122,691            | 13,075   | } 743,908                                      | } 781,370          | } 113,146 |
|          | Two exterior doors or door and drawer.....  | 73,091   | 78,723             | 12,164   |  |                    |           |
|          | 11.5 to 12.4 cubic feet:  |  |                    |  |  |                    |           |
| 36321 23 | Single exterior door.....   | 641,303  | 633,166            | 76,898   | } 687,415                                      | } 716,968          | } 144,116 |
| 36321 24 | Two exterior doors or door and drawer.....  | 281,269  | 254,896            | 34,526   |  |                    |           |

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | 1963  |   |                 | 1958  |   |                 |
|--------------|--|---|---|-----------------|---|---|-----------------|
|              |  | Production for all purposes (number of units) | Total shipments, including interplant transfers |                 | Production for all purposes (number of units) | Total shipments, including interplant transfers |                 |
|              |  |   | Quantity (number of units)                      | Value (\$1,000) |   | Quantity (number of units)                      | Value (\$1,000) |
| 3632- --     | HOUSEHOLD REFRIGERATORS AND HOME AND FARM FREEZERS—Continued                               |   |   |                 |   |   |                 |
| 36321 --     | Household refrigerators—Continued  |   |   |                 |   |   |                 |
|              | Household mechanical refrigerators (including combination refrigerator freezers)—Continued |   |   |                 |   |   |                 |
|              | Complete units—Continued   |   |   |                 |   |   |                 |
|              | 12.5 to 13.4 cubic feet:   |   |   |                 |   |   |                 |
| 36321 25     | Single exterior door.....  | 146,881                                       | 145,113   | 22,008          | } 269,812                                     | 289,861   | 57,744          |
| 36321 26     | Two exterior doors or door and drawer.....   | 621,525                                       | 630,505   | 105,038         |   |   |                 |
|              | 13.5 to 14.4 cubic feet:   |   |   |                 |   |   |                 |
| 36321 27     | Single exterior door.....  | } 1,234,949                                   | 1,175,378                                       | 226,451         | }   | }   | }               |
| 36321 28     | Two exterior doors or door and drawer.....   |   |   |                 |   |   |                 |
|              | 14.5 to 15.4 cubic feet:   |   |   |                 |   |   |                 |
| 36321 31     | Single exterior door.....  | } 147,099                                     | 151,664   | 35,771          | }   | }   | }               |
| 36321 32     | Two exterior doors or door and drawer.....   |   |   |                 |   |   |                 |
|              | 15.5 to 16.4 cubic feet:   |   |   |                 |   |   |                 |
| 36321 34     | Single exterior door.....  | } 403,609                                     | 378,497   | 102,572         | }   | }   | }               |
| 36321 35     | Two exterior doors or door and drawer.....   |   |   |                 |   |   |                 |
|              | 16.5 cubic feet and over:  |   |   |                 |   |   |                 |
| 36321 37     | Single exterior door.....  | }   | }   | }               | }   | }   | }               |
| 36321 38     | Two exterior doors or door and drawer.....   |   |   |                 |   |   |                 |
| 36321 41     | Range-refrigerator and/or sink combinations.....   | 20,244  | 22,392  | 5,555           | 15,379  | 21,581  | 6,034           |
| 36322 --     | Home and farm freezers.....  | 1,047,663                                     | 1,006,590                                       | 143,132         | 955,925                                       | 996,973   | 178,006         |
|              | Home and farm freezers, complete units for freezing and/or storing foods:                  |   |   |                 |   |   |                 |
|              | 8.4 cubic feet and under:  |   |   |                 |   |   |                 |
| 36322 11     | Upright type.....  | } 16,768                                      | 18,369  | 1,714           | 20,636  | 19,704  | 2,621           |
| 36322 12     | Chest type.....  |   |   |                 |   |   |                 |
|              | 8.5 to 10.4 cubic feet:  |   |   |                 |   |   |                 |
| 36322 14     | Upright type.....  | } 56,570                                      | 49,540  | 5,788           | 59,603  | 60,968  | 7,682           |
| 36322 15     | Chest type.....  |   |   |                 |   |   |                 |
|              | 10.5 to 12.4 cubic feet:   |   |   |                 |   |   |                 |
| 36322 17     | Upright type.....  | } 96,908                                      | 96,207  | 12,925          | 133,427                                       | 137,634   | 20,235          |
| 36322 18     | Chest type.....  |   |   |                 |   |   |                 |
|              | 12.5 to 14.4 cubic feet:   |   |   |                 |   |   |                 |
| 36322 21     | Upright type.....  | } 143,736                                     | 138,233   | 18,771          | 159,306                                       | 153,774   | 26,428          |
| 36322 22     | Chest type.....  |   |   |                 |   |   |                 |
|              | 14.5 to 15.4 cubic feet:   |   |   |                 |   |   |                 |
| 36322 24     | Upright type.....  | } 139,829                                     | 128,141   | 16,571          | } 136,750                                     | 144,356   | 24,131          |
| 36322 25     | Chest type.....  |   |   |                 |   |   |                 |
|              | 15.5 to 17.4 cubic feet:   |   |   |                 |   |   |                 |
| 36322 27     | Upright type.....  | } 123,738                                     | 118,868   | 18,715          | }   | }   | }               |
| 36322 28     | Chest type.....  |   |   |                 |   |   |                 |
|              | 17.5 to 19.4 cubic feet:   |   |   |                 |   |   |                 |
| 36322 31     | Upright type.....  | } 51,136                                      | 50,711  | 9,245           | }   | }   | }               |
| 36322 32     | Chest type.....  |   |   |                 |   |   |                 |
|              | 19.5 to 21.4 cubic feet:   |   |   |                 |   |   |                 |
| 36322 34     | Upright type.....  | } 47,961                                      | 42,728  | 7,421           | }   | }   | }               |
| 36322 35     | Chest type.....  |   |   |                 |   |   |                 |
|              | 21.5 cubic feet and over:  |   |   |                 |   |   |                 |
| 36322 37     | Upright type.....  | } 32,522                                      | 31,461  | 5,746           | }   | }   | }               |
| 36322 38     | Chest type.....  |   |   |                 |   |   |                 |
| 36320 00     | Household refrigerators and home and farm freezers, n.s.k.....                             | (X)   | (X)   | 802             | (X)   | (X)   | -               |

See footnotes at end of table.





TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure  | Total shipments including interplant transfers |                 |          |                 |
|--------------|---|------------------|--|-----------------|----------|-----------------|
|              |   |                  | 1963   |                 | 1958     |                 |
|              |   |                  | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 3639- --     | HOUSEHOLD APPLIANCES, N.E.C., TOTAL.....              |                  | (X)  | 414,602         | (X)      | 341,842         |
| 36391 --     | Water heaters, electric.....                          |                  | (X)  | 61,408          | (X)      | 56,849          |
|              | Electric water heaters (for permanent installation):  |                  |  |                 |          |                 |
|              | Storage type:   |                  |  |                 |          |                 |
| 36391 11     | 34 gallons and under.....                             | No. of units.... | 399,655  | 13,439          | 401,000  | 14,898          |
| 36391 12     | 35-44 gallons.....                                    | ..do.....        | 320,230  | 14,358          | 508,000  | 29,036          |
| 36391 14     | 45-54 gallons.....                                    | ..do.....        | 360,058  | 17,407          |          |                 |
| 36391 15     | 55 gallons and over.....                              | ..do.....        | 131,111  | 8,044           | 113,000  | 8,196           |
| 36391 98     | Other types, including circulating and portable.....  |                  | (X)  | 5,976           | (X)      | 3,705           |
| 36391 00     | Electric water heaters, n.s.k.....                    |                  | (X)  | 2,184           | (X)      | 1,014           |
|              | Water heaters, except electric:                       |                  |  |                 |          |                 |
| 36392 00     | Reported in census of manufactures.....               |                  | (X)  | 142,171         | (X)      | 153,538         |
|              | Reported on Annual Form MA-34N <sup>7</sup> .....     |                  | (X)  | 143,318         | (X)      | 162,178         |
| 36393 --     | Other household type appliances and parts.....        |                  | (X)  | 208,149         | (X)      | 131,095         |
|              | Dishwashing machines:                                 |                  |  |                 |          |                 |
| 36393 12     | Portable type.....                                    | No. of units.... | 287,928  | 37,877          | 397,392  | 54,803          |
| 36393 14     | Undercounter and all other types.....                 | ..do.....        | 609,447  | 83,922          |          |                 |
| 36393 31     | Floor waxing and polishing machines.....              | ..do.....        | 1,392,865                                      | 29,363          | 724,455  | 19,489          |
| 36393 71     | Food waste disposers (all sizes).....                 | ..do.....        | 1,239,326                                      | 34,376          | 741,057  | 26,772          |
| 36393 81     | Other household service machines.....                 |                  | (X)  | 13,614          | (X)      | 24,573          |
| 36393 91     | Parts and accessories for electric water heaters..... |                  | (X)  | 8,510           | (X)      | 5,458           |
| 36393 00     | Other household type appliances and parts, n.s.k..... |                  | (X)  | 487             | (X)      | -               |
| 36390 00     | Household appliances, n.e.c., n.s.k.....              |                  | (X)  | 2,874           | (X)      | -               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Product code 3631181 is included with product codes 3631153, 3631155, and 3631161 in 1958.

<sup>2</sup>See table 6A-2 for more detailed product data.

<sup>3</sup>In 1963 the value for product code 3633139 is between \$200 and \$400 thousand.

<sup>4</sup>For 1958, includes data for ironers, mechanical, including table, cabinet, and portable. The 1963 code for this product line is 3634310.

<sup>5</sup>See table 6A-3 for more detailed product data.

<sup>6</sup>Includes the value of shipments of household sewing machines.

<sup>7</sup>See table 6A-4 for product detail.



TABLE 6A-2. Domestic Cooking Appliances (Except Electric)—Quantity and Value of Shipments: 1963 and 1958

| Product code | Product   | Shipments                     |                    |                               |                    |
|--------------|---|-------------------------------|--------------------|-------------------------------|--------------------|
|              |   | 1963                          |                    | 1958                          |                    |
|              |   | Quantity<br>(number of units) | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 36312 pt.    | DOMESTIC-COOKING APPLIANCES (EXCEPT ELECTRIC).....  | (X)                           | 219,497            | (X)                           | 196,863            |
|              | Cooking stoves and ranges:  |                               |                    |                               |                    |
|              | Gas:  |                               |                    |                               |                    |
|              | Standard type, free standing:   |                               |                    |                               |                    |
| 36312 11     | Over 32" cooking top and oven.....  | 461,696                       | 49,146             | } 1,546,682                   | 146,057            |
| 36312 13     | Over 24" to 32" cooking top and oven.....   | 747,197                       | 79,224             |                               |                    |
| 36312 15     | Apartment ranges (24" cooking top and under).....   | 316,118                       | 20,286             |                               |                    |
| 36312 17     | Standard type, for built-in installation (built-in or stack-on over-<br>broiler unit).....          | 331,674                       | 32,030             | } 234,232                     | 35,542             |
| 36312 19     | Surface cooking tops, one or more burners (quantity in number of top<br>units).....                 | 324,658                       | 14,056             |                               |                    |
|              | Nonstandard types:  |                               |                    |                               |                    |
| 36312 21     | Wall hung.....  | } 108,257                     | 11,837             | }                             |                    |
| 36312 23     | Slide-in or drop-in (including as one unit or drop-in cooking<br>surface with a slide-in oven)..... |                               |                    |                               |                    |
|              | Bungalow ranges:  |                               |                    |                               |                    |
| 36312 25     | Gas and coal.....   | 3,360                         | 642                | 4,329                         | 594                |
| 36312 27     | All other.....  | 14,731                        | 2,315              | 35,832                        | 5,121              |
|              | Coal and wood:  |                               |                    |                               |                    |
| 36312 35     | Ranges.....   | 19,020                        | 1,111              | 29,974                        | 1,950              |
| 36312 37     | Cook stoves.....  | 13,351                        | 386                | 14,734                        | 361                |
|              | Combination ranges (including ranges equipped with conversion burners):                             |                               |                    |                               |                    |
| 36312 45     | Gas and oil.....  | } 735                         | 111                | } 1,452                       | 281                |
| 36312 47     | Gas and coal.....   |                               |                    |                               |                    |
| 36312 49     | All other (including ranges equipped with conversion burners).....                                  |                               |                    |                               |                    |
| 36312 24     | Gas hot plates.....   | 62,413                        | 415                | 51,976                        | 352                |
|              | Kerosene, gasoline, fuel, oil, and miscellaneous:   |                               |                    |                               |                    |
| 36312 53     | Kerosene ranges.....  | } 767,860                     | 7,938              | } (D)<br>(D)                  | (D)<br>(D)         |
| 36312 55     | Kerosene cookstoves.....  |                               |                    |                               |                    |
| 36312 59     | Miscellaneous cooking appliances <sup>1</sup> .....   |                               |                    |                               |                    |

Source: Current Industrial Reports Series M34N "Heating and Cooking Equipment, Except Electric."

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>Includes needle valve, gasoline pressure, camp stoves, cabin stoves, pocket stoves, etc.

TABLE 6A-3. Electric Housewares and Fans—Quantity and Value of Shipments:  
1963 and 1958

| Product code | Product  | Shipments                 |                    |                           |                    |
|--------------|--|---------------------------|--------------------|---------------------------|--------------------|
|              |  | 1963                      |                    | 1958                      |                    |
|              |  | Quantity<br>(1,000 units) | Value<br>(\$1,000) | Quantity<br>(1,000 units) | Value<br>(\$1,000) |
| 36341 --     | Electric fans (except industrial type), total.....   | (X)                       | 98,897             | (X)                       | 77,053             |
|              | Desk and wall bracket (all sizes):   |                           |                    |                           |                    |
| 36341 37     | Oscillating.....   | 622                       | 6,576              | 960                       | 11,734             |
| 36341 51     | Nonoscillating.....  | 327                       | 2,330              | 628                       | 7,105              |
|              | Window-type propeller fans (household):  |                           |                    |                           |                    |
|              | Permanent type (reversible and nonreversible):   |                           |                    |                           |                    |
| 36341 75     | 20 inch.....   | 558                       | 10,373             | 494                       | 9,635              |
| 36341 77     | Other than 20 inch.....  | 483                       | 4,897              | 113                       | 2,407              |
| 36341 81     | Portable (suitcase type), all sizes.....   | 1,387                     | 18,944             | 556                       | 12,676             |
| 36341 83     | Roll-about (mounted on portable stand), all sizes.....   | 351                       | 7,407              | 251                       | 7,035              |
|              | Household and kitchen ventilating and exhaust fans:  |                           |                    |                           |                    |
| 36341 85     | Electric range and oven hoods (ducted and nonducted).....  | 1,690                     | 29,807             | 968                       | 18,160             |
| 36341 87     | Other household and kitchen ventilating and exhaust fans.....  | 1,162                     | 14,432             |                           |                    |
| 36341 98     | Other household electric fans (including high pedestal fans and floor or hassock type fans).....   | 258                       | 4,131              | 249                       | 6,121              |
| 36341 00     | Electric fans (except industrial type) n.s.k.....  | -                         | -                  | (X)                       | 2,180              |
| 36342 --     | Electric razors and dry shavers, total.....  | 3,839                     | 53,376             | 4,855                     | 54,091             |
| 36342 13     | Men's.....   | 3,839                     | 53,376             | 4,855                     | 54,091             |
| 36342 15     | Ladies'.....   |                           |                    |                           |                    |
| 36343 --     | Small household electric appliances (except water heaters), total.....   | (X)                       | 561,887            | (X)                       | 336,160            |
| 36343 12     | Rotisseries and broilers (table).....  | 1,178                     | 10,654             | 316                       | 9,672              |
| 36343 14     | Automatic coffeemakers (complete units; vacuum, percolator, and urn).....  | 5,758                     | 51,843             | 13,406                    | 136,882            |
| 36343 23     | Deep fat fryers (excluding covers and controls shipped separately).....  | 503                       | 3,543              | 2,358                     | 23,429             |
| 36343 29     | Hot plates and disc stoves (1,650 watts or less) (except built-in-units).....  | 792                       | 3,298              | 771                       | 4,689              |
| 36343 36     | Toasters, automatic.....   | 3,294                     | 33,342             | 3,089                     | 30,973             |
| 36343 39     | Waffle irons, sandwich grills, griddles, and combinations.....   | 1,084                     | 12,311             | 848                       | 9,416              |
| 36343 42     | Frying pans (skillets) (excluding covers and controls shipped separately).....   | 2,009                     | 23,445             | 3,227                     | 31,939             |
|              | Air space heaters (portable room heaters only): <sup>3</sup>   |                           |                    |                           |                    |
| 36343 43     | Fan forced type.....   | 1,601                     | 15,893             | 949                       | 11,392             |
| 36343 44     | Other types (including convector, radiant, and convector-radiant).....   | 551                       | 6,579              | 264                       | 5,489              |
|              | Air space heaters for fixed or permanent installations (except warm air furnaces and unit heaters): <sup>3</sup>   |                           |                    |                           |                    |
| 36343 45     | Baseboard (excluding glass panel type).....  | (X)                       | 20,748             | (X)                       | 9,703              |
| 36343 47     | Other.....   | (X)                       | 8,794              |                           |                    |
| 36343 48     | Corn poppers.....  | 1,036                     | 3,068              | (X)                       | 413,363            |
| 36343 49     | Other household electric cooking and heating appliances (immersion heaters, faucet attachment water heaters, steam radiators, pressure cookers, casseroles, nonautomatic toasters, nonautomatic coffeemakers, automatic saucepans, food warming trays, food warmers, etc.) (excluding covers and controls shipped separately)..... | (X)                       | 23,418             |                           |                    |
|              | Standard household electric irons:   |                           |                    |                           |                    |
| 36343 52     | Steam and spray.....   | 6,773                     | 59,090             | 3,535                     | 34,773             |
| 36343 61     | Other than steam, automatic type (thermostat controlled heat).....   | 1,588                     | 8,661              | 1,347                     | 6,717              |
| 36343 65     | Travel irons.....  | 443                       | 3,087              | 303                       | 1,904              |
| 36343 69     | Other electric irons (tailors', milliners', boudoir, nonautomatic standard household, etc.).....   |                           |                    |                           |                    |
|              | Household food preparation appliances:   |                           |                    |                           |                    |
|              | Food mixers (including standard attachments sold together with mixers):  |                           |                    |                           |                    |
| 36343 71     | Hand (portable).....   | 2,624                     | 22,457             | 1,767                     | 17,666             |
| 36343 75     | Stand.....   | 710                       | 14,994             | 819                       | 15,982             |
| 36343 76     | Blenders (liquefiers).....   | 1,148                     | 19,694             | 430                       | 7,953              |
| 36343 77     | Ice crushers.....  | 45                        | 502                | (X)                       | 6,826              |
| 36343 78     | Other household food preparation appliances (including drink mixers, whippers, juicers, grinders, slicers, and choppers).....  | (X)                       | 10,673             |                           |                    |
|              | Miscellaneous electric appliances:   |                           |                    |                           |                    |
| 36343 83     | Electric blankets.....   | 5,217                     | 44,721             | 2,420                     | 31,601             |
| 36343 85     | Other electric bed coverings (including sheets, mattress covers, and comforters).....  |                           |                    |                           |                    |
| 36343 87     | Heating pads (including foot warmers).....   |                           |                    |                           |                    |

See footnotes at end of table.



TABLE 6A-3. Electric Housewares and Fans—Quantity and Value of Shipments:  
1963 and 1958—Continued

| Product code | Product   | Shipments                 |                    |                           |                    |
|--------------|---|---------------------------|--------------------|---------------------------|--------------------|
|              |   | 1963                      |                    | 1958                      |                    |
|              |   | Quantity<br>(1,000 units) | Value<br>(\$1,000) | Quantity<br>(1,000 units) | Value<br>(\$1,000) |
| 36343 --     | Small household electric appliances (except water heaters)—Continued  |                           |                    |                           |                    |
|              | Miscellaneous electric appliances—Continued   |                           |                    |                           |                    |
| 36343 24     | Oven and roasters (with or without broiler attachments).....  | 301                       | 3,833              | }                         | (X)                |
| 36343 91     | Electric tooth brushes.....   | 1,239                     | 11,247             |                           |                    |
| 36343 92     | Air purifiers (portable).....   | ( <sup>5</sup> )          | ( <sup>5</sup> )   |                           |                    |
| 36343 93     | Can openers (single-purpose units; combination purpose units such as<br>can opener combination with knife sharpener, etc.)..... | 3,189                     | 25,401             |                           |                    |
|              | Hair dryers:  |                           |                    |                           |                    |
| 36343 94     | With bonnets.....   | 7,565                     | 84,589             |                           |                    |
| 36343 95     | Without bonnets.....  | 50                        | 251                |                           |                    |
| 36343 96     | Humidifiers (portable).....   | 382                       | 3,809              |                           |                    |
| 36343 97     | Knife sharpeners.....   | 319                       | 1,967              |                           |                    |
| 36343 98     | Other electric appliances (curling irons, vibrators, hand and face dryers,<br>etc.).....  | (X)                       | 222,218            |                           |                    |
| 36343 00     | Small household appliances, n.s.k.....  | -                         | -                  | (X)                       | 9,270              |

Source: Current Industrial Reports Series M36E "Electric Housewares and Fans."

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Includes nonautomatic coffeemakers, separate data for which are not available.

<sup>2</sup>Includes automatic saucepans, separate data for which are not available.

<sup>3</sup>Electric warm-air furnaces and unit heaters are included in industry 3699 Electrical Machinery, N.E.C.

<sup>4</sup>Excludes nonautomatic coffeemakers and automatic saucepans.

<sup>5</sup>Portable air purifiers are included with "Other electric appliances" (3634398) in order to avoid disclosing figures of individual companies.

TABLE 6A-4. Water Heaters (Except Electric)—Quantity and Value of Shipments:  
1963 and 1958

| Product code    | Product  | Shipments          |                    |                    |                    |
|-----------------|--|--------------------|--------------------|--------------------|--------------------|
|                 |  | 1963               |                    | 1958               |                    |
|                 |  | Number of<br>units | Value<br>(\$1,000) | Number of<br>units | Value<br>(\$1,000) |
| 36392 pt.       | WATER HEATERS (EXCEPT ELECTRIC), TOTAL.....              | (X)                | 143,318            | (X)                | 162,178            |
|                 | Water heaters:   |                    |                    |                    |                    |
|                 | Direct-fired water heaters:                              |                    |                    |                    |                    |
|                 | Gas:   |                    |                    |                    |                    |
| 36392 11        | Underfired storage.....                                  | 3,041,876          | 127,537            | 2,874,422          | 142,905            |
| 36392 13        | Sidearm.....   | 18,565             | 918                | 39,883             | 1,841              |
|                 | Oil:   |                    |                    |                    |                    |
| 36392 23        | Underfired storage.....                                  | } 18,817           | } 2,598            | { 30,658           | { 3,289            |
| 36392 25        | Sidearm.....   |                    |                    |                    |                    |
| 36392 31,<br>33 | Coal and wood tank heaters, cast-iron and steel.....     | 520                | 47                 | 3,295              | 134                |
|                 | Indirect water heaters:                                  |                    |                    |                    |                    |
|                 | Storage, cast or coil-type (less tank):                  |                    |                    |                    |                    |
| 36392 41        | 20 G.P.H. and less.....                                  | } 17,489           | } 558              | { 4,620            | { 43               |
| 36392 43        | 21 G.P.H. and over.....                                  |                    |                    |                    |                    |
| 36392 51        | Tanks (with or without generator coils).....             | 2,902              | 2,372              | 4,400              | 3,015              |
| 36392 55        | Instantaneous.....                                       | 180,453            | 8,544              | 134,927            | 8,831              |
| 36392 53        | Generator coils and tank collar (sold without tank)..... | 3,968              | 744                | 5,416              | 772                |

Source: Current Industrial Reports Series M34N "Heating and Cooking Equipment, Except Electric."

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year  | Indexes (1954 = 100) |            | Product code | Product and year  | Indexes (1954 = 100) |            |
|--------------|---|----------------------|------------|--------------|---|----------------------|------------|
|              |   | Production           | Unit value |              |   | Production           | Unit value |
| 363--        | Household appliances.....1963..<br>1958..   | 150<br>110           | 87<br>98   | 363--        | Household appliances—Continued                                    |                      |            |
| 3631-        | Household cooking equipment.....1963..<br>1958..  | 114<br>90            | 104<br>107 | 3634-        | Electrical housewares and fans <sup>2</sup> .....1963..<br>1958.. | 189<br>108           | 86<br>101  |
| 36311        | Electric household ranges and ovens<br>surface cooking equipment and<br>parts, excluding small appliances..1963..<br>1958.. | 118<br>86            | 104<br>103 | 36341        | Fans, electric (except industrial<br>type).....1963..<br>1958..   | 135<br>85            | 86<br>103  |
| 36312        | Household ovens and ranges, equip-<br>ment, and parts (except electric)..1963..<br>1958..                                   | 112<br>95            | 103<br>110 | 36342        | Electric razors and dry shavers.....1963..<br>1958..              | 97<br>123            | 102<br>82  |
| 3632-        | Household refrigerators and home and<br>farm freezers.....1963..<br>1958..  | 156<br>112           | 72<br>87   | 36343        | Other small household electric<br>appliances.....1963..<br>1958.. | 213<br>103           | 86<br>104  |
| 36321        | Household refrigerators.....1963..<br>1958..  | 166<br>110           | 73<br>88   | 3635-        | Vacuum cleaners, household.....1963..<br>1958..                   | 145<br>119           | 93<br>96   |
| 36322        | Home and farm freezers.....1963..<br>1958..   | 159<br>120           | 68<br>86   | 3636-        | Sewing machines.....1963..<br>1958..                              | 76<br>78             | 128<br>117 |
| 3633-        | Household laundry equipment.....1963..<br>1958..  | 134<br>117           | 96<br>103  | 3639-        | Household appliances, n.e.c.....1963..<br>1958..                  | 195<br>140           | 83<br>95   |
| 36331        | Household mechanical washing machines,<br>dryers, and washer-dryer-<br>combinations <sup>1</sup> .....1963..<br>1958..      | 132<br>118           | 96<br>103  | 36391        | Water heater, electric.....1963..<br>1958..                       | 168<br>130           | 76<br>90   |
|              |   |                      |            | 36392        | Water heaters, except electric.....1963..<br>1958..               | 122<br>117           | 85<br>100  |
|              |   |                      |            | 36393        | Other household type appliances and<br>parts.....1963..<br>1958.. | 360<br>204           | 79<br>87   |

n.e.c. Not elsewhere classified.

<sup>1</sup>Adjusted to include product class 36332, Other household laundry equipment and parts.

<sup>2</sup>Adjusted to include product class 36344, Parts and attachments.



TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class   | 1963                 | 1962 <sup>1</sup>    | 1961 <sup>1</sup>    | 1960 <sup>1</sup>    | 1959 <sup>1</sup>    | 1958    | 1954                 | 1947    |
|-------|---|----------------------|----------------------|----------------------|----------------------|----------------------|---------|----------------------|---------|
| 3631- | Household cooking equipment.....  | 536,748              | 484,785              | 467,074              | 468,551              | 501,453              | 433,123 | 360,069              | 399,373 |
| 36311 | Electric household ranges and ovens and surface cooking unit equipment and parts (except small appliances)..... | 282,083              | 260,671              | 242,276              | 240,313              | 255,913              | 203,748 | 164,110              | 132,235 |
| 36312 | Household ovens and ranges, equipment and parts, except electric.....   | 253,568              | 224,114              | 224,798              | 228,238              | 245,540              | 229,375 | 195,956              | 267,138 |
| 36310 | Household cooking equipment, n.s.k.....   | 1,097                |                      |                      |                      |                      |         |                      |         |
| 3632- | Household refrigerators.....  | 831,821              | 777,882              | 754,360              | 805,040              | 881,266              | 729,170 | 745,444              | 622,197 |
| 36321 | Household refrigerators.....  | 687,887              | 631,156              | 612,612              | 624,398              | 676,616              | 551,164 | 573,074              | 521,572 |
| 36322 | Home and farm freezers.....   | 143,132              | 146,726              | 141,748              | 180,642              | 204,650              | 178,006 | 172,370              | 100,625 |
| 36320 | Household refrigerators, n.s.k.....   | 802                  |                      |                      |                      |                      |         |                      |         |
| 3633- | Household laundry equipment.....  | 766,068              | 692,565              | 660,376              | 695,007              | 802,453              | 719,574 | 596,349              | 433,851 |
| 36331 | Household mechanical washing machines, dryers, and washer-dryer combinations....                                | 698,765              | 645,301              | 613,360              | 650,497              | 755,785              | 672,213 | 533,711              | 352,131 |
| 36332 | Other household laundry equipment and parts   | 66,839               | 45,727               | 45,486               | 42,960               | 45,764               | 46,498  | 62,638               | 81,720  |
| 36330 | Household laundry equipment, n.s.k.....   | 464                  | (1,537)              | (1,530)              | (1,550)              | (904)                | 863     | -                    | -       |
| 3634- | Electric housewares and fans.....   | <sup>2</sup> 800,492 | <sup>2</sup> 718,657 | <sup>2</sup> 635,113 | 598,323              | 581,951              | 543,790 | 563,931              | (NA)    |
| 36341 | Electric fans, except industrial type.....  | <sup>3</sup> 102,112 | <sup>3</sup> 84,177  | <sup>3</sup> 69,749  | 76,165               | 68,064               | 77,053  | 88,359               | 48,656  |
| 36342 | Electric razors and dry shavers.....  | <sup>3</sup> 53,376  | <sup>3</sup> 48,300  | <sup>3</sup> 55,639  | 48,518               | 54,537               | 54,091  | 53,809               | 22,009  |
| 36343 | Other small household electric appliances..   | <sup>3</sup> 553,063 | <sup>3</sup> 496,824 | <sup>3</sup> 424,819 | 393,995              | 378,373              | 336,160 | 307,713              | (NA)    |
| 36344 | Parts and attachments for small household electric appliances.....  | 81,521               | 78,339               | 76,114               | 70,930               | 71,679               | 55,858  | 110,940              | 40,729  |
| 36340 | Electric housewares and fans, n.s.k.....  | 10,420               | (11,012)             | (8,792)              | (8,715)              | (9,298)              | 20,628  | 3,110                | 6,605   |
| 36350 | Household vacuum cleaners, including parts and attachments.....   | 183,138              | 174,001              | 157,257              | 161,309              | 162,207              | 155,571 | 138,774              | 145,435 |
| 36360 | Sewing machines and parts, except cases and cabinets sold separately.....                                       | 104,713              | 121,154              | 136,123              | 129,898              | 126,227              | 97,725  | 107,492              | 97,182  |
| 3639- | Household appliances, n.e.c.....  | <sup>2</sup> 415,749 | <sup>2</sup> 380,200 | <sup>2</sup> 348,817 | <sup>2</sup> 350,004 | <sup>2</sup> 372,881 | 351,719 | <sup>4</sup> 268,594 | (NA)    |
| 36391 | Household water heaters, electric.....  | 61,408               | 52,333               | 49,477               | 50,416               | 53,848               | 56,849  | 48,214               | 59,362  |
| 36392 | Household water heaters, except electric <sup>3</sup> ..  | 143,318              | 145,000              | 134,900              | 154,112              | 176,102              | 163,775 | 138,364              | 113,669 |
| 36393 | Other household appliances and parts.....   | 208,149              | 182,867              | 164,440              | 145,476              | 142,931              | 131,095 | <sup>4</sup> 82,016  | (NA)    |
| 36390 | Household appliances, n.e.c., n.s.k.....  | 2,874                | -                    | -                    | -                    | -                    | -       | -                    | (NA)    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufacturers. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Excludes parts and accessories for electric water heaters.

<sup>3</sup>These 4-digit totals represent the sum of 5-digit product class data obtained from census of manufactures or the Annual Survey of Manufactures and Current Industrial Reports.

<sup>4</sup>The source for these data are listed below:

| Product class | Current Industrial Report          |
|---------------|------------------------------------|
| 36341         | M36E Electric Housewares and Fans  |
| 36342         |                                    |
| 36343         |                                    |
| 36392         | M34N Heating and Cooking Equipment |

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area  | Value of shipments |                  | Product class and geographic area                                       | Value of shipments |                  | Product class and geographic area   | Value of shipments |         |
|--|--------------------|------------------|---|--------------------|------------------|---|--------------------|---------|
|  | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958    |
| ELECTRIC HOUSEHOLD RANGES AND OVENS AND SURFACE COOKING UNIT EQUIPMENT AND PARTS (EXCEPT SMALL APPLIANCES) (36311) |                    |                  | OTHER HOUSEHOLD LAUNDRY EQUIPMENT AND PARTS (36332)                     |                    |                  | PARTS AND ATTACHMENTS FOR SMALL HOUSEHOLD ELECTRICAL APPLIANCES (36344)—Continued |                    |         |
| United States, total....   | 282,083            | 203,892          | United States, total....  | 66,839             |                  | North Central.....  | 49,885             | 35,222  |
| North Central.....   | 172,002            | 134,601          | Middle Atlantic.....  | 6,884              |                  | Indiana.....  | 1,379              | (Z)     |
| Ohio.....  | 114,982            | 74,099           | East North Central.....   | 41,076             |                  | Michigan.....   | 2,131              | (Z)     |
| Illinois.....  | 44,999             | 43,855           | Indiana.....  | 2,472              |                  | South.....  | 11,811             | 4,376   |
| All other divisions.....   | 110,081            | 69,291           | Michigan.....   | 14,303             |                  | Pacific.....  | 2,039              | 2,567   |
| Tennessee.....   | 20,687             | 10,390           | West North Central.....   | 14,906             |                  | HOUSEHOLD VACUUM CLEANERS, INCLUDING PARTS AND ATTACHMENTS (36350)                |                    |         |
| HOUSEHOLD OVENS AND RANGES, EQUIPMENT AND PARTS EXCEPT ELECTRIC (36312)  |                    |                  | South and West.....   | 3,973              |                  | United States, total....  |                    | 183,138 |
| United States, total....   | 253,568            | 228,659          | ELECTRIC FANS, EXCEPT INDUSTRIAL TYPE (36341)                           |                    |                  | Northeast.....  |                    | 56,178  |
| Northeast.....   | 45,108             | 36,874           | United States, total....  | 101,972            | 77,053           | North Central.....  |                    | 120,797 |
| Pennsylvania.....  | 25,077             | 16,751           | New England.....  | 13,849             | 28,909           | Ohio.....   |                    | 82,914  |
| North Central.....   | 105,662            | 95,555           | Middle Atlantic.....  | 9,033              |                  | Illinois.....   |                    | 21,949  |
| Ohio.....  | 22,916             | 29,583           | East North Central.....   | 37,634             | 34,856           | South and West.....   |                    | 6,183   |
| Illinois.....  | 70,893             | 53,717           | Ohio.....   | 22,823             |                  | California.....   |                    | 5,292   |
| South.....   | 75,181             | ( <sup>2</sup> ) | West North Central.....   | 13,007             | ( <sup>2</sup> ) | HOUSEHOLD WATER HEATERS, ELECTRIC (36391)   |                    |         |
| Tennessee.....   | 55,503             | 50,700           | Missouri.....   | 13,007             |                  | United States, total....  |                    | 153,538 |
| Pacific.....   | 27,617             | ( <sup>2</sup> ) | South and West.....   | 28,449             | 13,288           | Northeast.....  |                    | 6,418   |
| HOUSEHOLD REFRIGERATORS (36321)  |                    |                  | OTHER SMALLER HOUSEHOLD ELECTRICAL APPLIANCES (36343)                   |                    |                  | New York.....   |                    | 2,298   |
| United States, total....   | 687,887            | 551,164          | United States, total....  | 562,647            | 336,160          | North Central.....  |                    | 30,481  |
| East North Central.....  | 517,066            | 402,569          | New England.....  | 73,521             | 27,702           | Illinois.....   |                    | 15,077  |
| Wisconsin.....   | 3,949              | 5,462            | Connecticut.....  | 61,243             | 27,702           | South.....  |                    | 15,567  |
| All other divisions.....   | 170,821            | 148,595          | Middle Atlantic.....  | 109,823            | ( <sup>2</sup> ) | Pacific.....  |                    | 8,942   |
| HOME AND FARM FREEZERS (36322)   |                    |                  | New York.....   | 73,057             | 42,747           | HOUSEHOLD WATER HEATERS, EXCEPT ELECTRIC (36392)                                  |                    |         |
| United States, total....   | 143,132            | 178,006          | New Jersey.....   | 2,612              | (Z)              | United States, total....  |                    | 153,538 |
| East North Central.....  | 89,780             | 79,777           | Pennsylvania.....   | 34,154             | ( <sup>2</sup> ) | New England.....  |                    | 1,784   |
| Michigan.....  | 16,097             | 19,969           | East North Central.....   | 171,840            | 34,081           | Middle Atlantic.....  |                    | 17,444  |
| Wisconsin.....   | 5,511              | 22,297           | Ohio.....   | 36,773             | 21,985           | Pennsylvania.....   |                    | 11,156  |
| West North Central.....  | 35,349             | 98,229           | Illinois.....   | 75,859             | 79,917           | East North Central.....   |                    | 72,960  |
| All other divisions.....   | 18,003             |                  | Wisconsin.....  | 50,731             | 34,081           | Ohio.....   |                    | 7,624   |
| HOUSEHOLD MECHANICAL WASHING MACHINES, DRYERS, AND WASHER-DRYER COMBINATIONS (36331)                               |                    |                  | West North Central.....   | 39,350             | 18               | Illinois.....   |                    | 51,235  |
| United States, total....   | 698,765            | 672,213          | Missouri.....   | 38,140             | 12,795           | West North Central.....   |                    | 1,971   |
| Middle Atlantic.....   | 5,925              | ( <sup>2</sup> ) | South.....  | 125,029            | 45,923           | South.....  |                    | 14,555  |
| East North Central.....  | 464,378            | ( <sup>2</sup> ) | North Carolina.....   | 33,379             | 20,424           | Pacific.....  |                    | 33,457  |
| Ohio.....  | 252,328            | 226,771          | Tennessee.....  | 30,482             | ( <sup>2</sup> ) | OTHER HOUSEHOLD APPLIANCES AND PARTS (36393)                                      |                    |         |
| All other divisions.....   | 228,462            | ( <sup>2</sup> ) | Mississippi.....  | 28,204             | (Z)              | United States, total....  |                    | 208,149 |
|  |                    |                  | West.....   | 43,084             | 36,111           | New England.....  |                    | 11,255  |
|  |                    |                  | PARTS AND ATTACHMENTS FOR SMALL HOUSEHOLD ELECTRICAL APPLIANCES (36344) |                    |                  | Middle Atlantic.....  |                    | 12,265  |
|  |                    |                  | United States, total....  | 81,521             | 55,858           | North Central.....  |                    | 96,520  |
|  |                    |                  | New England.....  | 4,368              |                  | Ohio.....   |                    | 44,592  |
|  |                    |                  | Connecticut.....  | 3,629              | 13,693           | Illinois.....   |                    | 5,603   |
|  |                    |                  | Middle Atlantic.....  | 13,418             | ( <sup>2</sup> ) | Michigan.....   |                    | 5,345   |
|  |                    |                  | Pennsylvania.....   | 6,312              | ( <sup>2</sup> ) | South and West.....   |                    | 88,109  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported.

<sup>1</sup>For the specified product classes, shipments of \$1 million or more were reported for the States listed, but the exact figures are withheld to avoid disclosure of individual company figures: 36311, New York, Pennsylvania, Michigan, Wisconsin, Kentucky, and California; 36312, Massachusetts, New York, Wisconsin, Missouri, Kansas, Kentucky, Oklahoma, and California; 36321, New York, Ohio, Indiana, Illinois, Michigan, Minnesota, Iowa, Kentucky, Arkansas, and Texas; 36322, Ohio, Indiana, Illinois, Minnesota, Iowa, Kentucky, Arkansas, and Texas; 36331, New York, Pennsylvania, Illinois, Michigan, Wisconsin, Iowa, Kentucky, and Tennessee; 36332, New York, Pennsylvania, Ohio, Illinois, Wisconsin, Iowa, Kentucky, and California; 36341, Massachusetts, Connecticut, New York, Pennsylvania, Illinois, Michigan, Wisconsin, West Virginia, North Carolina, Georgia, Kentucky, Tennessee, Texas, and California; 36343, Massachusetts, Indiana, Michigan, Delaware, Maryland, Virginia, West Virginia, South Carolina, Kentucky, Arkansas, and California; 36344, New York, New Jersey, Ohio, Illinois, Wisconsin, North Carolina, South Carolina, Kentucky, Tennessee, Mississippi, and California; 36350, Massachusetts, Connecticut, New York, New Jersey, Pennsylvania, Michigan, Wisconsin, and Minnesota; 36391, Massachusetts, Pennsylvania, Illinois, Michigan, Wisconsin, Georgia, Tennessee, Washington, Oregon, and California; 36392, Rhode Island, New York, Indiana, Michigan, Wisconsin, Iowa, Tennessee, Texas, and California; 36393, Massachusetts, Connecticut, New York, Pennsylvania, Indiana, Wisconsin, Minnesota, Maryland, Kentucky, and California.

<sup>2</sup>Shipments of \$1 million or more were reported, but exact figures are withheld to avoid disclosure of individual company figures.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code                                       | Material  | Unit of measure                | 1963     |                          | 1958     |                          |
|--|---|--------------------------------|----------|--------------------------|----------|--------------------------|
|  |   |                                | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3631.—HOUSEHOLD COOKING EQUIPMENT |   |                                |          |                          |          |                          |
|  | Materials, parts, containers, and supplies, total.....  |                                | (X)      | 235,937                  | (X)      | 173,559                  |
|  | Mill shapes and forms (except castings):  |                                |          |                          |          |                          |
|  | Carbon steel:   |                                |          |                          |          |                          |
| 331011                                     | Bars and bar shapes.....  | Short tons.....                | 1,410    | 438                      | 13,740   | 2,302                    |
| 331012                                     | Sheet and strip.....  | ..do.....                      | 244,929  | 40,316                   | 223,586  | 35,568                   |
| 331017                                     | Wire and wire products.....   | ..do.....                      | 3,448    | 785                      | 3,930    | 1,283                    |
| 331015                                     | Structural shapes.....  | ..do.....                      | 271      | 39                       | 3,168    | 630                      |
| 331013                                     | Plates.....   | ..do.....                      | 2,864    | 832                      |          |                          |
| 331019                                     | All other carbon steel mill shapes and forms.....   | ..do.....                      |          |                          |          |                          |
|  | Alloy steel (except stainless):   |                                |          |                          |          |                          |
| 331021                                     | Bars and bar shapes.....  | ..do.....                      | 3,692    | 4,799                    | 3,308    | 5,152                    |
| 331029                                     | All other alloy steel mill shapes and forms.....  | ..do.....                      |          |                          |          |                          |
| 331031                                     | Stainless steel.....  | ..do.....                      | 3,178    |                          |          |                          |
|  | Copper and copper-base alloy:   |                                |          |                          |          |                          |
| 335728                                     | Bare wire (for electrical conduction).....  |                                | -        | -                        | (X)      | (X)                      |
| 335790                                     | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content) | 895      | 1,232                    | 678      | 724                      |
| 335102                                     | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.....                 | 1,154    | 980                      | 297      | 190                      |
| 335123                                     | Plate, sheet, and strip, including military cups and discs.....                                       | ..do.....                      |          |                          |          |                          |
| 335127                                     | Pipe and tube.....  | ..do.....                      |          |                          |          |                          |
|  | Aluminum and aluminum-base alloy:   |                                |          |                          |          |                          |
| 335202                                     | Sheet, plate, and foil.....   | ..do.....                      | 1,465    | 764                      | 745      | 444                      |
| 335205                                     | Extruded shapes, including extruded rod, bar, pipe, tube, etc.....                                    | ..do.....                      | 1,512    | 848                      | 456      | 252                      |
| 335209                                     | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                      | 116      | 135                      |          |                          |
| 335209                                     | Aluminum and aluminum-base alloy refinery shapes.....   |                                | (D)      | (D)                      | (NA)     | (NA)                     |
|  | Castings (rough and semifinished):  |                                |          |                          |          |                          |
| 332011                                     | Iron (gray and malleable) <sup>1</sup> .....  | Short tons.....                | 7,385    | 3,241                    | 7,351    | 2,838                    |
| 336100                                     | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                 | (D)      | (D)                      | 1,038    | 637                      |
|  | Fractional horsepower electric motors (under 1 horsepower):   |                                |          |                          |          |                          |
| 362110                                     | Timing motors, synchronous and subsynchronous.....  | Number.....                    | 492,896  | 719                      | 344,000  | 1,961                    |
| 362115                                     | Other fractional horsepower electric motors (excluding timing motors).....                            | ..do.....                      | 408,534  | 1,949                    | 161,000  | 1,204                    |
| 260091                                     | Paper and paperboard containers.....  |                                | (X)      | 4,274                    | (X)      | 23,000                   |
|  | Bearings:   |                                |          |                          |          |                          |
| 356218                                     | Ball.....   |                                | (X)      | (D)                      | (X)      | 150                      |
| 356228                                     | Roller.....   |                                | -        | -                        |          |                          |
| 970099                                     | All other materials and components, parts, containers, and supplies consumed.....                     |                                | (X)      | 147,193                  | (X)      | 112,127                  |
| 976000                                     | Materials, components, parts, containers, and supplies consumed, n.s.k.....                           |                                | (X)      | 327,393                  | (X)      | 5,097                    |
| INDUSTRY 3632.—HOUSEHOLD REFRIGERATORS     |   |                                |          |                          |          |                          |
|  | Materials, parts, containers, and supplies, total.....  |                                | (X)      | 648,625                  | (X)      | 507,061                  |
|  | Mill shapes and forms (except castings):  |                                |          |                          |          |                          |
|  | Carbon steel:   |                                |          |                          |          |                          |
| 331012                                     | Sheet and strip.....  | Short tons.....                | 640,615  | 98,536                   | 465,645  | 91,980                   |
| 331017                                     | Wire and wire products.....   | ..do.....                      | 5,691    | 1,036                    |          |                          |
| 331011                                     | Bar and bar shapes.....   | ..do.....                      | 26,159   | 6,673                    | 417,355  | 44,596                   |
| 331013                                     | Plate.....  | ..do.....                      |          |                          |          |                          |
| 331015                                     | Structural shapes.....  | ..do.....                      |          |                          |          |                          |
| 331019                                     | All other carbon steel mill shapes and forms.....   | ..do.....                      |          |                          |          |                          |
|  | Alloy steel (except stainless):   |                                |          |                          |          |                          |
| 331021                                     | Bar and bar shapes.....   | ..do.....                      | 4,271    | 3,607                    | 3,044    | 1,471                    |
|  | All other alloy steel mill shapes and forms.....  | ..do.....                      |          |                          |          |                          |
| 331031                                     | Stainless steel.....  | ..do.....                      |          |                          | 2,370    | 2,988                    |
|  | Copper and copper-base alloy:   |                                |          |                          |          |                          |
| 335790                                     | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content) | 2,826    | 2,009                    | 1,318    | 1,160                    |
| 335728                                     | Bare wire (for electrical conduction).....  | 1,000 lbs.....                 |          |                          |          |                          |
| 335102                                     | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | ..do.....                      | 16,840   | 12,734                   | 8,801    | 7,572                    |
| 335123                                     | Plate, sheet, and strip (including military cups and discs).....                                      | ..do.....                      |          |                          |          |                          |
| 335127                                     | Pipe and tube.....  | ..do.....                      |          |                          |          |                          |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | Unit of measure             | 1963      |                          | 1958      |                          |
|--|---|-----------------------------|-----------|--------------------------|-----------|--------------------------|
|  |   |                             | Quantity  | Delivered cost (\$1,000) | Quantity  | Delivered cost (\$1,000) |
| INDUSTRY 3632.—HOUSEHOLD REFRIGERATORS—Continued |   |                             |           |                          |           |                          |
|  | Mill shapes and forms (except castings):  |                             |           |                          |           |                          |
|  | Aluminum and aluminum-base alloy:   |                             |           |                          |           |                          |
| 335202   | Sheet, plate, and foil.....   | 1,000 lbs.....              | 29,788    | 11,663                   | 25,092    | 12,075                   |
| 335205   | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                                       | ...do.....                  | 4,655     | 3,612                    | 6,811     | 4,833                    |
| 335209   | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ...do.....                  | 1,854     | 807                      |           |                          |
|  | Castings (rough and semifinished):  |                             |           |                          |           |                          |
| 332011   | Iron (gray and malleable).....  | Short tons.....             | 28,144    | 7,493                    | 14,831    | 2,974                    |
| 332300   | Steel.....  | (D)                         | (D)       | (D)                      | (NA)      | (NA)                     |
| 336100   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....              | 3,433     | 2,699                    | (NA)      | (NA)                     |
| 336200   | Copper and copper-base alloy.....   | .....                       | -         | -                        | (NA)      | (NA)                     |
| 339100   | Iron and steel forgings.....  | Short tons.....             | (D)       | (D)                      | 860       | 555                      |
|  | Electric motors and generators:   |                             |           |                          |           |                          |
|  | Fractional horsepower electric motors (under 1 horsepower):   |                             |           |                          |           |                          |
| 362110   | Timing motors, synchronous and subsynchronous.....  | Number.....                 | 1,102,532 | 4,488                    | (NA)      | (NA)                     |
| 362115   | Fractional horsepower electric motors (excluding timing motors)                                       | ...do.....                  | 9,822,184 | 53,999                   | 2,482,000 | 20,519                   |
| 362120   | Integral horsepower motors and generators (1 horsepower and over)                                     | Number.....                 | (D)       | (D)                      | 106       | 2,805                    |
|  | Bearings:   |                             |           |                          |           |                          |
| 356218   | Ball.....   | .....                       | (X)       | 3,218                    | (NA)      | (NA)                     |
| 356228   | Roller.....   | .....                       | -         | -                        | (NA)      | (NA)                     |
| 260091   | Paper and paperboard containers.....  | .....                       | (NA)      | 17,521                   | (NA)      | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....                     | .....                       | (X)       | 387,623                  | (X)       | 347,522                  |
| 976000   | Materials, components, parts, containers, and supplies consumed, n.s.k.....                           | .....                       | (X)       | 30,907                   | (X)       | 6,011                    |
| INDUSTRY 3633.—HOUSEHOLD LAUNDRY EQUIPMENT       |   |                             |           |                          |           |                          |
|  | Materials, parts, containers, and supplies, total.....  | .....                       | (X)       | 396,067                  | (X)       | 408,083                  |
|  | Mill shapes and forms (except castings):  |                             |           |                          |           |                          |
|  | Carbon steel:   |                             |           |                          |           |                          |
| 331011   | Bars and bar shapes.....  | Short tons.....             | 23,934    | 5,219                    | 21,715    | 4,672                    |
| 331012   | Sheet and strip.....  | ...do.....                  | 397,854   | 60,543                   | 337,127   | 50,955                   |
| 331013   | Plates.....   | ...do.....                  | -         | -                        | 2,416     | 1,169                    |
| 331015   | Structural shapes.....  | ...do.....                  | -         | -                        |           |                          |
| 331017   | Wire and wire products.....   | ...do.....                  | 1,437     | 725                      | 1,872     |                          |
| 331019   | All other carbon steel mill shapes and forms.....   | ...do.....                  | 6,474     | 1,872                    |           |                          |
|  | Alloy steel (except stainless):   |                             |           |                          |           |                          |
| 331021   | Bars and bar shapes.....  | ...do.....                  | -         | -                        | 970       | 531                      |
| 331029   | All other alloy steel mill shapes and forms.....  | ...do.....                  | -         | -                        |           |                          |
| 331031   | Stainless steel.....  | ...do.....                  | 1,243     | 1,436                    | 578       | 745                      |
|  | Copper and copper-base alloy:   |                             |           |                          |           |                          |
| 335790   | Insulated wire and cable.....   | 1,000 lbs. (copper content) | 1,529     | 1,248                    | 3,004     | 2,796                    |
| 335728   | Bare wire (for electrical conduction).....  | 1,000 lbs.....              | -         | -                        | 610       | 331                      |
| 335102   | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | ...do.....                  | (D)       | (D)                      |           |                          |
| 335123   | Plate, sheet and strip (including military cups and discs).....                                       | ...do.....                  | -         | -                        |           |                          |
| 335127   | Pipe and tube.....  | ...do.....                  | -         | -                        |           |                          |
|  | Aluminum and aluminum-base alloy:   |                             |           |                          |           |                          |
| 335202   | Sheet, plate, and foil.....   | ...do.....                  | 1,972     | 952                      | 3,728     | 2,176                    |
| 335205   | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                                       | ...do.....                  |           |                          |           |                          |
| 335209   | All other aluminum mill shapes and forms (wire rolled rod and bar, powder, welded tubing, etc.).....  | ...do.....                  |           |                          |           |                          |
| 333401   | Aluminum and aluminum-base alloy refinery shapes.....   | .....                       | (D)       | (D)                      | (NA)      | (NA)                     |
|  | Castings (rough and semifinished):  |                             |           |                          |           |                          |
| 332011   | Iron (gray and malleable).....  | Short tons.....             | 34,228    | 10,667                   | 28,948    | 8,854                    |
| 336100   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....              | 10,543    | 6,186                    | 10,133    | 5,564                    |
|  | Fractional horsepower electric motors (under 1 horsepower):   |                             |           |                          |           |                          |
| 362110   | Timing motors, synchronous and subsynchronous.....  | Number.....                 | 1,590,267 | 4,302                    | 1,815,000 | 3,001                    |
| 362115   | Other fractional horsepower electric motors (exclude timing motors).....                              | ...do.....                  | 5,875,511 | 52,412                   | 4,762,000 | 53,135                   |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure                | 1963      |                          | 1958      |                          |
|---|---|--------------------------------|-----------|--------------------------|-----------|--------------------------|
|   |   |                                | Quantity  | Delivered cost (\$1,000) | Quantity  | Delivered cost (\$1,000) |
| INDUSTRY 3633.—HOUSEHOLD LAUNDRY EQUIPMENT—Con. |   |                                |           |                          |           |                          |
| 260091  | Paper and paperboard containers.....  |                                | (X)       | 11,337                   | (NA)      | (NA)                     |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                     |                                | (X)       | 230,443                  | (X)       | 271,817                  |
| 976000  | Materials, components, parts, containers, and supplies consumed, n.s.k.....                           |                                | (X)       | 8,725                    | (X)       | 2,286                    |
| INDUSTRY 3634.—ELECTRIC HOUSEWARES AND FANS     |   |                                |           |                          |           |                          |
|   | Materials, components, parts, supplies, and containers, total..                                       |                                | (X)       | 335,544                  | (X)       | 212,722                  |
|   | Mill shapes and forms (except castings):  |                                |           |                          |           |                          |
|   | Carbon steel:   |                                |           |                          |           |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....                | 7,152     | 2,000                    | 5,807     | 1,053                    |
| 331012  | Sheet and strip.....  | ..do.....                      | 102,250   | 17,508                   | 40,972    | 8,854                    |
| 331017  | Wire and wire products.....   | ..do.....                      | 1,745     | 550                      | 1,707     | 1,083                    |
| 331015  | Structural shapes.....  | ..do.....                      | -         | -                        | -         | -                        |
| 331013  | Plates.....   | ..do.....                      | -         | -                        | -         | -                        |
| 331019  | All other carbon steel mill shapes and forms.....   | ..do.....                      | 5,321     | 2,606                    | 2,065     | 1,004                    |
|   | Alloy steel (except stainless):   |                                |           |                          |           |                          |
| 331021  | Bars and bar shapes.....  | ..do.....                      | -         | -                        | -         | -                        |
| 331029  | All other alloy steel mill shapes and forms.....  | ..do.....                      | 14,606    | 8,178                    | 2,556     | 855                      |
| 331031  | Stainless steel.....  | ..do.....                      | 2,017     | 2,469                    | 1,844     | 2,330                    |
|   | Copper and copper-base alloy:   |                                |           |                          |           |                          |
| 335728  | Bare wire (for electrical conduction).....  | 1,000 lbs.....                 | 3,921     | 3,003                    | 982       | 730                      |
| 335790  | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content) | 5,579     | 5,645                    | 4,564     | 4,491                    |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.....                 | 208       | 190                      | -         | -                        |
| 335123  | Plate, sheet, and strip (including military cups and discs)....                                       | ..do.....                      | 2,395     | 1,181                    | 3,495     | 2,904                    |
| 335127  | Pipe and tube.....  | ..do.....                      | 667       | 294                      | -         | -                        |
|   | Aluminum and aluminum-base alloy:   |                                |           |                          |           |                          |
| 335202  | Sheet, plate, and foil.....   | ..do.....                      | 12,557    | 5,685                    | 9,641     | 4,424                    |
| 335205  | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                                       | ..do.....                      | 2,064     | 1,034                    | -         | -                        |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                      | 3,104     | 1,549                    | 2,822     | 1,520                    |
| 333401  | Aluminum and aluminum-base alloy refinery shapes.....   |                                | (D)       | (D)                      | (NA)      | (NA)                     |
|   | Castings (rough and semifinished):  |                                |           |                          |           |                          |
| 332011  | Iron (gray and malleable).....  | Short tons.....                | 571       | 191                      | -         | -                        |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                 | 7,754     | 5,880                    | 9,105     | 8,228                    |
|   | Fractional horsepower electric motors (under 1 horsepower):   |                                |           |                          |           |                          |
| 362110  | Timing motors, synchronous and subsynchronous.....  | Number.....                    | 238,114   | 2,315                    | 545,000   | 1,890                    |
| 362115  | Other fractional horsepower electric motors (excluding timing motors) <sup>5</sup> .....              | ..do.....                      | 6,192,839 | 14,550                   | 2,228,000 | 6,342                    |
| 260091  | Paper and paperboard containers.....  |                                | (X)       | 14,457                   | (X)       | 5,761                    |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                     |                                | (X)       | 214,244                  | (X)       | 124,899                  |
|   | Materials, components, containers, and supplies consumed, n.s.k. <sup>3</sup> ..                      |                                | (X)       | 32,015                   | (X)       | 36,354                   |
| INDUSTRY 3635.—HOUSEHOLD VACUUM CLEANERS        |   |                                |           |                          |           |                          |
|   | Materials, components, parts, supplies, and containers, total..                                       |                                | (X)       | 59,439                   | (X)       | 52,771                   |
|   | Mill shapes and forms (except castings):  |                                |           |                          |           |                          |
|   | Carbon steel:   |                                |           |                          |           |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....                | 1,123     | 248                      | 709       | 175                      |
| 331012  | Sheet and strip.....  | ..do.....                      | 16,734    | 3,156                    | 14,260    | 2,812                    |
| 331013  | Plates.....   | ..do.....                      | -         | -                        | -         | -                        |
| 331015  | Structural shapes.....  | Short tons.....                | -         | -                        | -         | -                        |
| 331017  | Wire and wire products.....   | ..do.....                      | 4,647     | 1,140                    | 3,269     | 1,217                    |
| 331019  | All other carbon steel mill shapes and forms.....   | ..do.....                      | -         | -                        | -         | -                        |
|   | Alloy steel (except stainless):   |                                |           |                          |           |                          |
| 331021  | Bar and bar shapes.....   | ..do.....                      | -         | -                        | -         | -                        |
| 331029  | All other alloy steel mill shapes and forms.....  | ..do.....                      | 728       | 398                      | 230       | 182                      |
| 331031  | Stainless steel.....  | ..do.....                      | -         | -                        | -         | -                        |
|   | Copper and copper-base alloy:   |                                |           |                          |           |                          |
| 335728  | Bare wire (for electrical conduction only).....   | 1,000 lbs.....                 | 1,344     | 730                      | 1,432     | 736                      |
| 335790  | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content) | 378       | 1,054                    | 145       | 424                      |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.....                 | -         | -                        | -         | -                        |
| 335123  | Plate, sheet, and strip (including military cups and discs)....                                       | ..do.....                      | 202       | 123                      | -         | -                        |
| 335127  | Pipe and tube.....  | ..do.....                      | -         | -                        | (NA)      | (NA)                     |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | Unit of measure | 1963   |                          | 1958     |                          |
|--|---|-----------------|--|--------------------------|----------|--------------------------|
|  |   |                 | Quantity   | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
|  |   |                 | INDUSTRY 3635.—HOUSEHOLD VACUUM CLEANERS—Continued |                          |          |                          |
| Mill shapes and forms (except castings)—Continued                  |   |                 |  |                          |          |                          |
| Aluminum and aluminum-base alloy:                                  |   |                 |  |                          |          |                          |
| 335202   | Sheet, plate and foil.....  | 1,000 lbs.....  | } 2,627  | 1,390                    | } 1,037  | 578                      |
| 335205   | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                                       | ...do.....      |  |                          |          |                          |
| 335209   | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ...do.....      |  |                          |          |                          |
| 333401   | Aluminum and aluminum-base alloy refinery shapes.....   |                 | (D)  | (D)                      | (NA)     | (NA)                     |
| 999808   | Aluminum and aluminum-base alloy scrap (exclude home scrap).....                                      |                 | -  | -                        | (NA)     | (NA)                     |
| Castings (rough and semifinished):                                 |   |                 |  |                          |          |                          |
| 331011   | Iron (gray and malleable).....  |                 | (D)  | (D)                      | -        | -                        |
| 336100   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....  | 1,951  | 1,001                    | 4,100    | 3,715                    |
| Fractional horsepower electric motors (under 1 horsepower):        |   |                 |  |                          |          |                          |
| 362110   | Timing motors, synchronous and subsynchronous.....  | Thousands.....  | } 377  | 1,923                    | } -      | -                        |
| 362115   | Other fractional horsepower electric motors (exclude timing motors) <sup>6</sup> .....                | ...do.....      |  |                          |          |                          |
| 260091   | Paper and paperboard containers.....  |                 | (X)  | 3,115                    | -        | -                        |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....                     |                 | (X)  | 42,493                   | (X)      | 35,153                   |
| 976000   | Materials, components, parts, containers, and supplies consumed, n.s.k.....                           |                 | (X)  | 2,668                    | (X)      | 1,817                    |
|  |   |                 | INDUSTRY 3636.—SEWING MACHINES                     |                          |          |                          |
| Materials, components, parts, containers, and supplies, total..... |   |                 | (X)  | 24,204                   | (X)      | 32,356                   |
| Mill shapes and forms (except castings):                           |   |                 |  |                          |          |                          |
| Carbon steel:  |   |                 |  |                          |          |                          |
| 331011   | Bar and bar shapes.....   | Short tons..... | } 4,216  | 1,377                    | } 7,003  | 1,924                    |
| 331012   | Strip and sheet.....  | ...do.....      |  |                          |          |                          |
| 331013   | Plates.....   | ...do.....      |  |                          |          |                          |
| 331015   | Structural shapes.....  | ...do.....      |  |                          |          |                          |
| 331017   | Wire and wire products.....   | ...do.....      |  |                          |          |                          |
| 331019   | All other carbon steel mill shapes and forms.....   | ...do.....      |  |                          |          |                          |
| Alloy steel (except stainless):                                    |   |                 |  |                          |          |                          |
| 331021   | Bars and bar shapes.....  | ...do.....      | } 184  | 150                      | } 87     | 55                       |
| 331029   | All other alloy steel mill shapes and forms.....  | ...do.....      |  |                          |          |                          |
| 331031   | Stainless steel.....  |                 | -  | -                        | (NA)     | (NA)                     |
| Copper and copper-base alloy:                                      |   |                 |  |                          |          |                          |
| 335728   | Bare wire (for electrical conduction only).....   |                 | -  | -                        | (NA)     | (NA)                     |
| 335790   | Insulated wire and cable.....   |                 | -  | -                        | (NA)     | (NA)                     |
| 335102   | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            |                 | (D)  | (D)                      | (NA)     | (NA)                     |
| 335123   | Plate, sheet, and strip (including military cups and discs)....                                       |                 | (D)  | (D)                      | (NA)     | (NA)                     |
| 335127   | Pipe and tube.....  |                 | (D)  | (D)                      | (NA)     | (NA)                     |
| Aluminum and aluminum-base alloy:                                  |   |                 |  |                          |          |                          |
| 335202   | Sheet, plate, and foil.....   |                 | (D)  | (D)                      | (NA)     | (NA)                     |
| 335205   | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                                       |                 | (D)  | (D)                      | (NA)     | (NA)                     |
| 335209   | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... |                 | (D)  | (D)                      | (NA)     | (NA)                     |
| 333401   | Aluminum and aluminum-base alloy refinery shapes.....   |                 | (D)  | (D)                      | (NA)     | (NA)                     |
| 999808   | Aluminum and aluminum-base alloy scrap (exclude home scrap).....                                      |                 | -  | -                        | (NA)     | (NA)                     |
| Castings (rough and semifinished):                                 |   |                 |  |                          |          |                          |
| 332011   | Iron (gray and malleable).....  | Short tons..... | 2,345  | 1,421                    | 1,896    | 1,092                    |
| 336100   | Aluminum and aluminum-base alloy.....   |                 | (D)  | (D)                      | (NA)     | (NA)                     |
| Fractional horsepower electric motors (under 1 horsepower):        |   |                 |  |                          |          |                          |
| 362110   | Timing motors, synchronous and subsynchronous.....  |                 | -  | -                        | (NA)     | (NA)                     |
| 362115   | Other fractional horsepower electric motors (exclude timing motors) <sup>6</sup> .....                | Number.....     | 218,327  | 1,225                    | 106,000  | 776                      |
| 260091   | Paper and paperboard containers.....  |                 | (X)  | (D)                      | (NA)     | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....                     |                 | (X)  | 13,805                   | (X)      | 27,792                   |
| 976000   | Materials, parts, containers, and supplies consumed, n.s.k.....                                       |                 | (X)  | 34,603                   | (X)      | 717                      |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | Unit of measure                | 1963      |                          | 1958      |                          |
|--|---|--------------------------------|-----------|--------------------------|-----------|--------------------------|
|  |   |                                | Quantity  | Delivered cost (\$1,000) | Quantity  | Delivered cost (\$1,000) |
| INDUSTRY 3639.--HOUSEHOLD APPLIANCES, N.E.C. |   |                                |           |                          |           |                          |
|  | Materials, parts, containers, and supplies, total.....  |                                | (X)       | 215,869                  | (X)       | 195,403                  |
|  | Mill shapes and forms (except castings):  |                                |           |                          |           |                          |
|  | Carbon steel:   |                                |           |                          |           |                          |
| 331011                                       | Bar and bar shapes.....   | Short tons.....                | 497       | 111                      | 5,128     | 897                      |
| 331012                                       | Sheet and strip.....  | .....do.....                   | 276,279   | 38,881                   | 281,853   | 40,592                   |
| 331013                                       | Plates.....   | .....do.....                   | 4,360     | 662                      | 5,378     | 763                      |
| 331017                                       | Wire and wire products.....   | .....do.....                   |           |                          | 1,799     | 648                      |
| 331015                                       | Structural shapes.....  | .....do.....                   | 16,198    | 5,456                    | 8,574     | 2,512                    |
| 331019                                       | All other carbon steel mill shapes and forms.....   | .....do.....                   |           |                          |           |                          |
|  | Alloy steel (except stainless):   |                                |           |                          |           |                          |
| 331021                                       | Bars and bar shapes.....  | .....do.....                   | 350       | 330                      | 1,181     | 1,259                    |
| 331029                                       | All other alloy steel mill shapes and forms.....  | .....do.....                   |           |                          |           |                          |
| 331031                                       | Stainless steel.....  | .....do.....                   | 1,738     | 1,980                    |           |                          |
|  | Copper and copper-base alloy:   |                                |           |                          |           |                          |
| 335728                                       | Bare wire (for electrical conduction).....  | 1,000 lbs.....                 | 307       | 191                      | 286       | 199                      |
| 335790                                       | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content) | 366       | 287                      | 815       | 696                      |
| 335102                                       | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                        | 1,000 lbs.....                 | 861       | 608                      | 4,387     | 2,871                    |
| 335123                                       | Plate, sheet, and strip (including military cups and discs)....                                   | .....do.....                   | 1,123     | 601                      |           |                          |
| 335127                                       | Pipe and tube.....  | .....do.....                   | 2,534     | 1,669                    |           |                          |
|  | Aluminum and aluminum-base alloy:   |                                |           |                          |           |                          |
| 335202                                       | Sheet, plate, and foil.....   | .....do.....                   | 1,155     | 538                      | 3,384     | 1,639                    |
| 335205                                       | Extruded shapes, including rod, bar, pipe, tube, etc.....   | .....do.....                   | 828       | 470                      |           |                          |
| 335209                                       | All other aluminum mill shapes and forms (wire, rolled and bar, powder, welded tubing, etc.)..... | .....do.....                   | 1,725     | 1,558                    |           |                          |
|  | Castings (rough and semifinished):  |                                |           |                          |           |                          |
| 332011                                       | Iron (gray and malleable).....  | Short tons.....                | 6,118     | 3,260                    | 8,781     | 3,186                    |
| 336100                                       | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                 | 3,615     | 2,550                    | 2,203     | 1,987                    |
|  | Fractional horsepower electric motors (under 1 horsepower):                                       |                                |           |                          |           |                          |
| 362110                                       | Timing motors, synchronous and subsynchronous.....  | Number.....                    | 533,686   | 2,147                    | 171,000   | 845                      |
| 362115                                       | Other fractional horsepower electric motors (excluding timing motors).....                        | .....do.....                   | 2,141,243 | 13,501                   | 1,354,000 | 10,722                   |
| 260091                                       | Paper and paperboard containers.....  |                                | (NA)      | 6,627                    | (X)       | 2,500                    |
| 970099                                       | All other materials and components, parts, containers, and supplies consumed.....                 |                                | (X)       | 95,356                   | -         | 117,777                  |
| 976000                                       | Materials, supplies, components, etc., n.s.k.....   |                                | (X)       | 39,086                   | (X)       | 3,150                    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>In addition, in 1963 establishments in industry 3631 produced 6,062 short tons of iron castings for incorporation into other items produced at the same establishment. The comparable figure in 1958 was 7,105 short tons.

<sup>2</sup>Represents estimates published in MC58(1)-7 (Supplement), "Selected Materials Consumed," from data collected in a supplemental survey on Form MA-131, "Consumption of Materials, Parts, Containers, and Supplies During 1958." This survey was limited to large establishments in selected chemical, machinery and equipment industries and resulted in estimates which are subject to greater error than are the figures on materials consumption collected as a regular part of the census of manufactures.

<sup>3</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

<sup>4</sup>Includes bars and bar shapes; quantity, 9,418 short tons and value \$2,076 thousand.

<sup>5</sup>In addition, in 1963 establishments in industry 3634 produced 8,388 thousand all other fractional horsepower electric motors for incorporation into items produced at the same establishment. The comparable figure for 1958 was 5,527 thousand.

<sup>6</sup>In addition, in 1963, establishments in industry 3635 produced 2,536 thousand fractional horsepower electric motors produced and incorporated into items at the same establishment. The comparable figure for 1958 was 1,619 thousand.

TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Household cooking equipment (SIC 3631) | Household refrigerators (SIC 3632) | Household laundry equipment (SIC 3633) | Electric housewares and fans (SIC 3634) | Household vacuum cleaners (SIC 3635) | Sewing machines (SIC 3636) | Household appliances, n.e.c. (SIC 3639) |
|---|--|------------------------------------|--|---|--------------------------------------|----------------------------|---|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 4,418                                  | 11,833                             | 6,280                                  | 5,251                                   | 1,013                                | 1,302                      | 4,318                                   |
| Total cost of purchased fuels.....do....  | 2,104                                  | 4,871                              | 2,757                                  | 1,969                                   | 355                                  | 457                        | 2,203                                   |
| Bituminous coal, lignite, and anthracite:   |  |                                    |  |   |                                      |                            |   |
| Quantity.....1,000 short tons..   | 48                                     | 273                                | 85                                     | (S)                                     | (S)                                  | (S)                        | 25                                      |
| Cost.....\$1,000..  | 377                                    | 1,858                              | 591                                    | (S)                                     | (S)                                  | (S)                        | 143                                     |
| Coke and breeze:  |  |                                    |  |   |                                      |                            |   |
| Quantity.....1,000 short tons..   | 5                                      | -                                  | -                                      | -                                       | -                                    | -                          | -                                       |
| Cost.....\$1,000..  | 149                                    | -                                  | -                                      | -                                       | -                                    | -                          | -                                       |
| Fuel oil (distillate and residual):   |  |                                    |  |   |                                      |                            |   |
| Quantity.....1,000 barrels of 42 gallons..  | 86                                     | 106                                | 69                                     | 233                                     | (S)                                  | 109                        | 75                                      |
| Cost.....\$1,000..  | 299                                    | 288                                | 266                                    | 848                                     | (S)                                  | 297                        | 296                                     |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |  |                                    |  |   |                                      |                            |   |
| Quantity.....million cu.ft..  | 1,931                                  | 3,786                              | 3,587                                  | 1,314                                   | 349                                  | (S)                        | 2,895                                   |
| Cost.....\$1,000..  | 1,076                                  | 2,111                              | 1,823                                  | 830                                     | 199                                  | (S)                        | 1,592                                   |
| Other fuels.....do....  | 203                                    | 634                                | 77                                     | 134                                     | (S)                                  | (S)                        | 172                                     |
| Electric energy:  |  |                                    |  |   |                                      |                            |   |
| Purchased:  |  |                                    |  |   |                                      |                            |   |
| Quantity.....million kw.-hrs..  | 237                                    | 690                                | 308                                    | 216                                     | 49                                   | 63                         | 154                                     |
| Cost.....\$1,000..  | 2,314                                  | 6,962                              | 3,523                                  | 3,282                                   | 658                                  | 845                        | 2,115                                   |
| Generated less sold.....million kw.-hrs..   | (S)                                    | -                                  | (S)                                    | -                                       | -                                    | -                          | -                                       |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 120                                    | 222                                | 132                                    | 106                                     | 22                                   | 32                         | 72                                      |
| Prime movers, total.....do....  | 13                                     | 13                                 | 20                                     | 4                                       | 2                                    | (Z)                        | 5                                       |
| Driving generators.....do....   | 1                                      | (Z)                                | 2                                      | 1                                       | (Z)                                  | -                          | 1                                       |
| Not driving generators.....do....   | 12                                     | 13                                 | 18                                     | 3                                       | 2                                    | (Z)                        | 4                                       |
| Electric motors, total.....do....   | 108                                    | 208                                | 112                                    | 102                                     | 20                                   | 32                         | 67                                      |
| Driven by purchased energy.....do....   | 108                                    | 208                                | 111                                    | 102                                     | 20                                   | 32                         | 67                                      |
| Driven by energy generated at establishment.....do....  | (Z)                                    | -                                  | 1                                      | -                                       | -                                    | -                          | -                                       |
| Aggregate horsepower per 100 production workers.....  | 848                                    | 637                                | 847                                    | 380                                     | 548                                  | 705                        | 735                                     |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.



**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3631-                          | HOUSEHOLD COOKING EQUIPMENT   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 83                      | 19,191         | 111,266           | 15,149             | 30,356            | 75,580          | 230,285  | 253,530                     | 473,453                      | 8,216                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...   | 62                      | 11,754         | 70,380            | 9,359              | 18,925            | 49,370          | 162,850  | 178,489                     | 332,228                      | 5,795                               |
|                                | 75-89% specialization.....  | 6                       | 1,795          | 10,253            | 1,360              | 2,564             | 5,877           | 18,185   | 19,029                      | 36,613                       | 299                                 |
| 36311                          | Electric household ranges and ovens and surface cooking unit equipment and parts (except small appliances) (primary product class of estab.). | 17                      | 6,460          | 41,602            | 4,694              | 9,080             | 26,477          | 101,703  | 85,062                      | 181,488                      | 3,238                               |
| 36312                          | Household ovens and ranges, equipment and parts, except electric (primary product class of estab.).   | 54                      | 12,708         | 69,553            | 10,435             | 21,237            | 49,014          | 128,420  | 168,452                     | 291,350                      | 4,971                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 29                      | 4,454          | 25,840            | 3,819              | 7,601             | 20,238          | 51,959   | 68,342                      | 116,646                      | 1,065                               |
|                                | 75-89% specialization.....  | 8                       | 3,147          | 16,810            | 2,502              | 5,327             | 10,828          | 31,303   | 40,150                      | 70,564                       | 1,248                               |
| 3632-                          | HOUSEHOLD REFRIGERATORS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 34                      | 43,065         | 279,977           | 35,232             | 69,978            | 212,228         | 631,269  | 696,141                     | 1,306,539                    | 21,765                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 22                      | 9,059          | 57,328            | 7,478              | 15,199            | 43,319          | 135,370  | 170,231                     | 301,381                      | 5,030                               |
| 36321                          | Household refrigerators (primary product class of estab.).....  | 18                      | 39,886         | 261,723           | 32,834             | 65,178            | 199,902         | 596,345  | 645,745                     | 1,220,664                    | 18,083                              |
| 36322                          | Home and farm freezers (primary product class of estab.).....   | 7                       | 3,151          | 18,113            | 2,375              | 4,756             | 12,220          | 34,688   | 50,081                      | 85,334                       | 3,669                               |
| 3633-                          | HOUSEHOLD LAUNDRY EQUIPMENT   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 39                      | 18,343         | 115,387           | 14,738             | 28,827            | 85,865          | 353,863  | 416,015                     | 760,161                      | 9,217                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...   | 32                      | 12,655         | 80,606            | 10,285             | 20,592            | 61,060          | 280,249  | 340,181                     | 615,683                      | 8,215                               |
| 36331                          | Household mechanical washing machines, dryers, and washer-dryer combinations (primary product class of estab.).....                           | 19                      | 17,296         | 109,698           | 13,868             | 27,119            | 81,663          | 344,049  | 399,498                     | 733,307                      | 8,678                               |
|                                | Establishment with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 10                      | 8,861          | 56,402            | 7,496              | 15,091            | 44,547          | 217,054  | 241,242                     | 452,200                      | 5,796                               |
| 3634-                          | ELECTRIC HOUSEWARES AND FANS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 312                     | 38,801         | 188,257           | 31,053             | 59,567            | 126,912         | 463,845  | 394,578                     | 850,281                      | 17,009                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...   | 257                     | 20,884         | 92,820            | 17,495             | 34,061            | 67,267          | 247,712  | 217,608                     | 467,706                      | 8,113                               |
|                                | 75-89% specialization.....  | 18                      | 8,406          | 48,762            | 6,445              | 12,028            | 31,174          | 110,114  | 92,382                      | 198,310                      | 4,116                               |
| 36341                          | Electric fans, except industrial type (primary product class of estab.).....  | 22                      | 4,943          | 24,905            | 3,960              | 7,861             | 16,274          | 158,884  | 44,423                      | 203,840                      | 1,184                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 9                       | 1,208          | 5,468             | 1,015              | 2,114             | 4,107           | 8,694  | 7,115                       | 16,428                       | 263                                 |
|                                | 75-89% specialization.....  | 4                       | 342            | 1,710             | 261                | 519               | 1,018           | 5,266  | 3,841                       | 9,199                        | 48                                  |
| 36343                          | Other small household electric appliances (primary product class of estab.).....  | 153                     | 29,717         | 144,138           | 23,881             | 45,308            | 97,939          | 324,850  | 311,865                     | 629,331                      | 14,304                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 108                     | 12,179         | 51,072            | 10,478             | 20,042            | 38,728          | 128,951  | 126,922                     | 257,360                      | 5,526                               |
|                                | 75-89% specialization.....  | 18                      | 4,584          | 21,153            | 3,839              | 7,245             | 15,280          | 42,184   | 41,872                      | 83,386                       | 2,696                               |
| 36344                          | Parts and attachments for small household electric appliances (primary product class of estab.).  | 38                      | 1,299          | 5,255             | 1,057              | 2,111             | 3,677           | 10,504   | 10,321                      | 20,252                       | 321                                 |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 28                      | 317            | 1,202             | 257                | 498               | 823             | 2,189  | 2,316                       | 4,284                        | 49                                  |
| 3635-                          | HOUSEHOLD VACUUM CLEANERS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 34                      | 5,682          | 35,524            | 4,235              | 8,208             | 22,670          | 116,137  | 65,315                      | 175,357                      | 5,739                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...   | 28                      | 1,669          | 10,286            | 1,251              | 2,372             | 6,514           | 35,448   | 18,868                      | 54,091                       | (D)                                 |

See footnotes at end of table.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization                          | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3639-                          | HOUSEHOLD APPLIANCES, N.E.C.  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 112                     | 13,127         | 81,590            | 9,896              | 19,929            | 54,286          | 204,188  | 233,073                     | 435,458                      | 6,738                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...   | 75                      | 4,891          | 30,695            | 3,604              | 7,300             | 19,527          | 96,191   | 97,569                      | 192,106                      | 2,485                               |
|                                | 75-89% specialization.....  | 13                      | 2,480          | 15,023            | 1,908              | 3,653             | 10,032          | 27,684   | 33,325                      | 60,759                       | 1,349                               |
| 36391                          | Household water heaters, electric (primary product class of estab.)             | 26                      | 1,254          | 6,319             | 985                | 2,011             | 4,188           | 19,901   | 17,078                      | 36,974                       | 459                                 |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.....   | 13                      | 276            | 1,413             | 208                | 423               | 913             | 3,690  | 5,309                       | 9,025                        | 51                                  |
| 36392                          | Household water heaters, except electric (primary product class of estab.)..... | 35                      | 6,853          | 44,495            | 5,235              | 10,726            | 30,565          | 88,135   | 121,918                     | 209,369                      | 3,079                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.....   | 13                      | 437            | 2,656             | 326                | 720               | 1,794           | 8,424  | 10,783                      | 19,293                       | 342                                 |
|                                | 75-89% specialization.....  | 7                       | 973            | 5,217             | 769                | 1,455             | 3,326           | 8,370  | 13,379                      | 21,239                       | 346                                 |
| 36393                          | Other household appliances and parts (primary product class of estab.)          | 30                      | 4,863          | 29,995            | 3,544              | 6,954             | 18,915          | 93,381   | 91,977                      | 185,200                      | 3,159                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.....   | 19                      | 2,313          | 15,459            | 1,561              | 3,120             | 8,874           | 51,584   | 52,066                      | 103,331                      | 1,712                               |
|                                | 75-89% specialization.....  | 4                       | 219            | 1,027             | 153                | 284               | 528             | 2,685  | 2,370                       | 5,194                        | 68                                  |

Standard Notes: - Represent zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.



TABLE 9. Establishments, Production Workers, and Man-Hours for Selected Metalworking Operations: 1963

| Metalworking operations   | Number of establishments |   |         | Employment in the specified operation |   |        | Man-hours worked by production workers in the specified operation (1,000) |         |            |
|---|--------------------------|---|---------|---------------------------------------|---|--------|---|---------|------------|
|   | Total                    | Number of production workers <sup>1</sup> |         | Total                                 | Number of production workers <sup>1</sup> |        |   |         |            |
|   |                          | 1 to 4                                    | 5 to 19 |                                       | 20 or more                                | 1 to 4 |   | 5 to 19 | 20 or more |
| INDUSTRY 3631.—HOUSEHOLD COOKING EQUIPMENT  |                          |   |         |                                       |   |        |   |         |            |
| Total, all operations.....  | (X)                      | (X)                                       | (X)     | (X)                                   | 12,360                                    | (X)    | (X)   | (X)     | 27,274     |
| Ferrous foundry.....  | 8                        | 1   | -       | 7                                     | 569                                       | (D)    | -   | (D)     | 1,227      |
| Forging--presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 2                        | -   | -       | 2                                     | (D)                                       | -      | -   | (D)     | (D)        |
| Electroplating and other plating.....   | 7                        | 1   | 4       | 2                                     | 140                                       | (D)    | 48  | (D)     | 270        |
| Heat treating of metals.....  | 2                        | 1   | 1       | -                                     | (D)                                       | (D)    | (D)   | -       | (D)        |
| Automatic screw machine department.....   | 3                        | 1   | 2       | -                                     | 24  | (D)    | (D)   | -       | 48         |
| Machine shop.....   | 19                       | 8   | 7       | 4                                     | 349                                       | 14     | 60  | 275     | 773        |
| Tool and die shop.....  | 17                       | 4   | 8       | 5                                     | 296                                       | 10     | 107   | 179     | 651        |
| Foundry pattern shop.....   | 6                        | 2   | 4       | -                                     | 47  | (D)    | (D)   | -       | 119        |
| Plate or structural fabrication.....  | 1                        | -   | -       | 1                                     | (D)                                       | -      | -   | (D)     | (D)        |
| Stamping, blanking and forming of metals.....   | 35                       | 1   | 7       | 27                                    | 1,868                                     | (D)    | (D)   | 1,939   | 3,975      |
| Painting, lacquering and enameling on metals.....   | 35                       | 5   | 7       | 23                                    | 1,857                                     | 16     | 76  | 1,765   | 3,537      |
| Assembly of product.....  | 40                       | 2   | 6       | 32                                    | 5,279                                     | (D)    | (D)   | 5,211   | 10,691     |
| Shipping department, including packing and crating...                                     | 39                       | 13  | 16      | 10                                    | 572                                       | 31     | 141   | 400     | 1,195      |
| All other operations such as maintenance, warehousing, etc.....                           | 31                       | 2   | 11      | 19                                    | 1,959                                     | (D)    | (D)   | 1,834   | 3,968      |
| INDUSTRY 3632.—HOUSEHOLD REFRIGERATORS  |                          |   |         |                                       |   |        |   |         |            |
| Total, all operations.....  | (X)                      | (X)                                       | (X)     | (X)                                   | 14,531                                    | (X)    | (X)   | (X)     | 3,076      |
| Ferrous foundry.....  | 1                        | -   | -       | 1                                     | (D)                                       | -      | -   | (D)     | (D)        |
| Nonferrous foundry (except die casting).....  | 1                        | -   | -       | 1                                     | (D)                                       | -      | -   | (D)     | (D)        |
| Nonferrous die casting.....   | 5                        | 2   | 1       | 2                                     | 69  | (D)    | (D)   | (D)     | (D)        |
| Forging--presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 1                        | -   | 1       | -                                     | (D)                                       | -      | -   | (D)     | -          |
| Electroplating and other plating.....   | 7                        | 4   | 1       | 2                                     | 75  | 8      | (D)   | (D)     | (D)        |
| Galvanizing and other hot dip coating.....  | 1                        | -   | 1       | -                                     | (D)                                       | -      | (D)   | -       | -          |
| Heat treating of metals.....  | 6                        | 5   | 1       | -                                     | 20  | (D)    | (D)   | (D)     | -          |
| Automatic screw machine department.....   | 9                        | -   | 7       | 2                                     | 229                                       | -      | (D)   | (D)     | (D)        |
| Machine shop.....   | 21                       | 1   | 7       | 13                                    | 1,205                                     | (D)    | (D)   | (D)     | 1,150      |
| Tool and die shop.....  | 20                       | 7   | 7       | 6                                     | 401                                       | 15     | 99  | 287     | 287        |
| Foundry pattern shop.....   | 1                        | -   | -       | -                                     | (D)                                       | (D)    | -   | -       | -          |
| Plate or structural fabrication.....  | 2                        | 1   | -       | 1                                     | (D)                                       | (D)    | -   | (D)     | (D)        |
| Stamping, blanking and forming of metals.....   | 22                       | 2   | 6       | 14                                    | 2,073                                     | (D)    | (D)   | (D)     | 1,996      |
| Painting, lacquering and enameling on metals.....   | 19                       | 3   | 4       | 12                                    | 1,768                                     | 2      | 32  | 1,734   | 1,734      |
| Plastics molding.....   | 3                        | -   | 1       | 2                                     | 103                                       | -      | (D)   | (D)     | (D)        |
| Assembly of product.....  | 25                       | 1   | 6       | 18                                    | 4,863                                     | (D)    | (D)   | (D)     | 4,786      |
| Shipping department, including packing and crating...                                     | 23                       | 10  | 5       | 8                                     | 383                                       | 21     | 48  | 314     | 314        |
| All other operations such as maintenance, warehousing, etc.....                           | 27                       | 5   | 6       | 16                                    | 3,156                                     | 9      | 71  | 3,076   | 3,076      |
| INDUSTRY 3633.—HOUSEHOLD LAUNDRY EQUIPMENT  |                          |   |         |                                       |   |        |   |         |            |

See footnotes at end of table.

TABLE 9. Establishments, Production Workers, and Man-Hours for Selected Metalworking Operations: 1963—Continued

| Metalworking operations   | Number of establishments |   |         | Employment in the specified operation |   |        | Man-hours worked by production workers in the specified operation (1,000) |         |            |
|---|--------------------------|---|---------|---------------------------------------|---|--------|---|---------|------------|
|   | Total                    | Number of production workers <sup>1</sup> |         | Total                                 | Number of production workers <sup>1</sup> |        |   |         |            |
|   |                          | 1 to 4                                    | 5 to 19 |                                       | 20 or more                                | 1 to 4 |   | 5 to 19 | 20 or more |
| INDUSTRY 3634.—ELECTRIC HOUSEWARES AND PARTS  |                          |   |         |                                       |   |        |   |         |            |
| Total, all operations.....  | (X)                      | (X)                                       | (X)     | (X)                                   | 25,398                                    | (X)    | (X)   | (X)     | 49,844     |
| Nonferrous foundry (except die casting).....  | 4                        | 1   | 2       | 1                                     | 84  | (D)    | (D)   | (D)     | 166        |
| Nonferrous die casting.....   | 12                       | 4   | 4       | 4                                     | 263                                       | 11     | 30  | 222     | 506        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.).....                              | 2                        | 1   | -       | 1                                     | 31  | (D)    | -   | (D)     | 64         |
| Electroplating and other plating.....   | 36                       | 8   | 16      | 12                                    | 681                                       | 18     | 189   | 474     | 1,459      |
| Galvanizing and other hot dip coating.....  | 2                        | -   | 1       | 1                                     | 42  | -      | (D)   | (D)     | 90         |
| Heat treating of metals.....  | 14                       | 9   | 5       | -                                     | 73  | 20     | 53  | -       | 136        |
| Automatic screw machine department.....   | 10                       | 2   | 3       | 5                                     | 212                                       | (D)    | (D)   | 181     | 421        |
| Machine shop.....   | 35                       | 14  | 19      | 12                                    | 1,437                                     | 30     | 111   | 1,296   | 2,842      |
| Tool and die shop.....  | 49                       | 18  | 22      | 9                                     | 590                                       | 37     | 235   | 318     | 1,202      |
| Foundry pattern shop.....   | 1                        | -   | 1       | -                                     | (D)                                       | -      | (D)   | (D)     | (D)        |
| Plate or structural fabrication.....  | 3                        | 2   | 1       | -                                     | (D)                                       | (D)    | (D)   | -       | (D)        |
| Stamping, blanking and forming of metals.....   | 75                       | 22  | 14      | 39                                    | 2,156                                     | 42     | 163   | 1,951   | 4,252      |
| Painting, lacquering and enameling on metals.....   | 52                       | 20  | 25      | 7                                     | 471                                       | 39     | 212   | 220     | 1,054      |
| Plastics molding.....   | 20                       | 4   | 7       | 9                                     | 509                                       | 11     | 82  | 416     | 1,028      |
| Assembly of product.....  | 100                      | 14  | 18      | 68                                    | 14,275                                    | 22     | 177   | 14,076  | 27,678     |
| Shipping department, including packing and crating... All other operations such as maintenance, warehousing, etc..... | 81                       | 40  | 26      | 15                                    | 888                                       | 79     | 252   | 557     | 1,783      |
| 67  | 19                       | 14  | 34      | 3,668                                 | 39  | 148    | 3,481   | 7,117   |            |
| INDUSTRY 3635.—HOUSEHOLD VACUUM CLEANERS  |                          |   |         |                                       |   |        |   |         |            |
| Total, all operations.....  | (X)                      | (X)                                       | (X)     | (X)                                   | 3,907                                     | (X)    | (X)   | (X)     | 7,686      |
| Nonferrous die casting.....   | 2                        | -   | -       | 2                                     | (D)                                       | -      | -   | (D)     | (D)        |
| Electroplating and other plating.....   | 4                        | -   | 2       | 2                                     | 81  | -      | (D)   | (D)     | 152        |
| Heat treating of metals.....  | 3                        | 3   | -       | -                                     | 9   | 9      | -   | -       | 18         |
| Automatic screw machine department.....   | 3                        | -   | 3       | -                                     | 34  | -      | 34  | -       | 68         |
| Machine shop.....   | 8                        | 4   | -       | 4                                     | 266                                       | 6      | -   | 260     | 509        |
| Tool and die shop.....  | 7                        | 4   | -       | 3                                     | 174                                       | 10     | -   | 164     | 342        |
| Foundry pattern shop.....   | 2                        | 1   | -       | 1                                     | (D)                                       | (D)    | -   | (D)     | (D)        |
| Stamping, blanking and forming of metals.....   | 10                       | 4   | 2       | 4                                     | 233                                       | (D)    | (D)   | 217     | 457        |
| Painting, lacquering and enameling on metals.....   | 8                        | 4   | 1       | 3                                     | 109                                       | (D)    | (D)   | 88      | 216        |
| Plastics molding.....   | 3                        | 1   | -       | 2                                     | (D)                                       | (D)    | -   | (D)     | (D)        |
| Assembly of product.....  | 11                       | 2   | 3       | 6                                     | 1,458                                     | (D)    | (D)   | 1,427   | 2,847      |
| Shipping department, including packing and crating... All other operations such as maintenance, warehousing, etc..... | 11                       | 5   | 2       | 1                                     | 86  | 9      | (D)   | (D)     | 188        |
| 9   | 2                        | 2   | 5       | 1,256                                 | (D)                                       | (D)    | 1,227   | 2,495   |            |
| INDUSTRY 3636.—SEWING MACHINES  |                          |   |         |                                       |   |        |   |         |            |
| Total, all operations.....  | (X)                      | (X)                                       | (X)     | (X)                                   | 5,076                                     | (X)    | (X)   | (X)     | 10,246     |
| Ferrous foundry.....  | 3                        | -   | 1       | 2                                     | (D)                                       | -      | (D)   | (D)     | 316        |
| Nonferrous die casting.....   | 2                        | -   | -       | 2                                     | (D)                                       | -      | -   | (D)     | (D)        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.).....                              | 2                        | -   | -       | 2                                     | (D)                                       | -      | -   | (D)     | (D)        |
| Electroplating and other plating.....   | 4                        | 1   | 1       | 2                                     | 63  | (D)    | (D)   | (D)     | (D)        |
| Heat treating of metals.....  | 7                        | 3   | 2       | 2                                     | 80  | 8      | (D)   | (D)     | 163        |
| Automatic screw machine department.....   | 7                        | 2   | 2       | 3                                     | 236                                       | (D)    | (D)   | 218     | 482        |
| Machine shop.....   | 21                       | 7   | 6       | 8                                     | 2,510                                     | 17     | 68  | 2,425   | 5,118      |
| Tool and die shop.....  | 6                        | -   | 4       | 2                                     | 94  | -      | (D)   | (D)     | 192        |
| Foundry pattern shop.....   | 2                        | 1   | -       | 1                                     | (D)                                       | (D)    | -   | (D)     | (D)        |
| Stamping, blanking and forming of metals.....   | 7                        | 5   | 1       | 1                                     | 48  | 7      | (D)   | (D)     | 74         |
| Painting, lacquering and enameling on metals.....   | 6                        | 4   | 2       | -                                     | 21  | (D)    | (D)   | -       | 42         |
| Plastics molding.....   | 1                        | 1   | -       | -                                     | (D)                                       | (D)    | -   | -       | (D)        |
| Assembly of product.....  | 13                       | 5   | 3       | 5                                     | 734                                       | 9      | 29  | 696     | 1,490      |
| Shipping department, including packing and crating... All other operations such as maintenance, warehousing, etc..... | 10                       | 7   | 2       | 1                                     | 67  | 13     | (D)   | (D)     | 148        |
| 7   | -                        | 2   | 5       | 670                                   | -   | (D)    | (D)   | 1,381   |            |
| INDUSTRY 3639.—HOUSEHOLD APPLIANCES, N.E.C.   |                          |   |         |                                       |   |        |   |         |            |
| Total, all operations.....  | (X)                      | (X)                                       | (X)     | (X)                                   | 8,228                                     | (X)    | (X)   | (X)     | 17,053     |
| Nonferrous die casting.....   | 2                        | 2   | -       | -                                     | (D)                                       | (D)    | -   | -       | (D)        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.).....                              | 1                        | 1   | -       | -                                     | (D)                                       | (D)    | -   | -       | (D)        |
| Electroplating and other plating.....   | 2                        | 1   | -       | 1                                     | (D)                                       | (D)    | -   | (D)     | (D)        |
| Galvanizing and other hot dip coating.....  | 6                        | 3   | 3       | -                                     | 34  | 9      | 25  | -       | 64         |
| Heat treating of metals.....  | 4                        | 4   | -       | -                                     | 7   | 7      | -   | -       | 14         |
| Automatic screw machine department.....   | 7                        | 5   | 2       | -                                     | 29  | (D)    | (D)   | -       | 55         |
| Machine shop.....   | 26                       | 12  | 8       | 6                                     | 345                                       | 29     | 102   | 214     | 704        |
| Tool and die shop.....  | 22                       | 12  | 8       | 2                                     | 147                                       | 25     | (D)   | (D)     | 287        |
| Foundry pattern shop.....   | 1                        | -   | 1       | -                                     | (D)                                       | -      | (D)   | -       | 10         |

See footnotes at end of table.



TABLE 9. Establishments, Production Workers, and Man-Hours for Selected Metalworking Operations: 1963—Continued

| Metalworking operations   | Number of establishments |   |         |            | Employment in the specified operation |   |         |            | Man-hours worked by production workers in the specified operation (1,000) |
|---|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|---|
|   | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |   |
|   |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |   |
| INDUSTRY 3639.—HOUSEHOLD APPLIANCES, N.E.C.—Continued           |                          |   |         |            |                                       |   |         |            |   |
| Plate or structural fabrication.....                            | 7                        | 2   | 4       | 1          | 102                                   | (D)                                       | (D)     | (D)        | 207   |
| Stamping, blanking and forming of metals.....                   | 45                       | 13  | 17      | 15         | 1,059                                 | 27  | 172     | 860        | 2,226   |
| Painting, lacquering and enameling on metals.....               | 48                       | 30  | 8       | 10         | 632                                   | 48  | 69      | 515        | 1,483   |
| Plastics molding.....   | 5                        | 3   | 1       | 1          | (D)                                   | (D)                                       | (D)     | (D)        | (D)   |
| Assembly of product.....  | 55                       | 9   | 18      | 28         | 4,124                                 | 22  | 200     | 3,902      | 8,356   |
| Shipping department, including packing and crating..            | 51                       | 31  | 15      | 5          | 337                                   | 53  | 129     | 155        | 685   |
| All other operations such as maintenance, warehousing, etc..... | 39                       | 14  | 9       | 16         | 1,324                                 | 21  | 112     | 1,191      | 2,795   |

Note: Very small establishments were not requested to report their metalworking operations and, in some instances, a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production-worker employment on the last line of the table below:

| Item  | Industry |       |        |       |       |       |       |
|---|----------|-------|--------|-------|-------|-------|-------|
|   | 3631     | 3632  | 3633   | 3634  | 3635  | 3636  | 3639  |
| Total number of establishments in the industry.....   | 83       | 34    | 39     | 312   | 34    | 86    | 112   |
| Number of establishments which reported one or more of the specified operations                                   | 47       | 24    | 29     | 122   | 16    | 26    | 68    |
| Percent of industry production workers in these establishments.....   | 80-85    | 90-95 | 95-100 | 80-85 | 90-95 | 85-90 | 80-85 |
| Number of establishments which reported "none" of the operations apply.....                                       | 0        | 0     | 1      | 0     | 0     | 0     | 0     |
| Percent of industry production workers in these establishments.....   | 0        | 0     | 0-5    | 0     | 0     | 0     | 0     |
| Percent of industry production workers in establishments which completed the metalworking operations inquiry..... | 80-85    | 90-95 | 95-100 | 80-85 | 90-95 | 85-90 | 80-85 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishment.





## ELECTRIC LIGHTING AND WIRING EQUIPMENT

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3641—Electric Lamps
- 3642—Lighting Fixtures
- 3643—Current Carrying Wiring Devices
- 3644—Noncurrent Carrying Wiring Devices

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3641—ELECTRIC LAMPS

This industry comprises establishments primarily engaged in manufacturing electric bulbs, tubes, and related light sources. Important products of this industry include incandescent filament lamps, vapor and fluorescent lamps, photoflash and photoflood lamps, electrotherapeutic lamp units for ultra-violet and infra-red radiation, and other electric light sources. Establishments primarily engaged in manufacturing glass blanks for bulbs are classified in industry 3229; and lamp components, such as supports, filaments, lead-in wires and cold cathode fluorescent lamp electrodes in industry 3699. For a detailed list of products of industry 3641, refer to table 6A, product codes 3641021 to 3641063.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Electric Lamps Industry totaled \$575 million. This amount included shipments of electric lamps (primary products) valued at \$523 million, shipments of other products (secondary products) valued at \$30 million, and miscellaneous receipts (mainly resales) at \$22 million.

This industry's shipments of electric lamps represented 95 percent of its total product shipments. The industry specialization ratio in 1958 was 94 percent. Secondary products shipped by this industry in 1963 consisted mainly of other special industry machinery and equipment, and lamp bulb components.

Shipments of electric lamps by this industry represented 96 percent of all shipments of these products (\$546 million) by all industries. In 1958 the coverage ratio was 98 percent.

The production index for the primary products of the industry increased to 153 in 1963 from the 1958 level of 116. The unit value index for 1963 was 111 compared to 110 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3642—LIGHTING FIXTURES

This industry comprises establishments primarily engaged in manufacturing lighting fixtures and equipment of any type, including electric and gas lighting fixtures; carbide, kerosene, and gasoline lamps; and metal reflectors and fittings. Establishments primarily engaged in producing glassware for lighting fixtures are classified in Major Group 32; and electric light bulbs, tubes, and related light sources in industry 3641. For a detailed list of products of industry 3642, refer to table 6A, product codes 3642110 to 3642761.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Lighting Fixtures Industry totaled \$1,159 million. This amount included shipments of lighting fixtures (primary products) valued at \$1,039 million, shipments of other products (secondary products) valued at \$84 million, and miscellaneous receipts (mainly resales), at \$36 million.

This industry's shipments of lighting fixtures represented 93 percent of its total product shipments. The industry specialization ratio in 1958 was 91 percent. Secondary products shipped by this industry in 1963 included specialty transformers and fluorescent ballasts (\$6 million) and current-carrying wiring devices (\$4 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 28 percent of the total industry shipments are represented by plants specializing in product class 36422; 15 percent each in product classes 36421 and 36427; and 14 percent in product class 36424.

Shipments of lighting fixtures by this industry represented 93 percent of all shipments of these products (\$1,116 million) by all industries. In 1958 the coverage ratio was 94 percent. Another industry shipping lighting fixtures was industry 3644, Noncurrent Carrying Wiring Devices, \$11 million.

#### 3643—CURRENT CARRYING WIRING DEVICES

This industry comprises establishments primarily engaged in manufacturing current-carrying wiring devices. Important products of this industry include attachment plugs and caps, convenience outlets, lamp sockets and receptacles, snap switches, conductor connectors, overhead trolley line material, rail bonds for both propulsion and signal circuits, lightning arrestors, and other lightning protective equipment. For a detailed list of products of industry 3643, refer to table 6A, product codes 3643001 to 3643098.

The code number for this industry in the Standard Industrial Classification Manual is unchanged, but the content of the industry has been changed from the classification system used in 1958. The change in the composition of the industry as now constituted, compared with that under the classification system followed in the 1958 census, is due to the reclassification of electronic connectors into industry 3679, Electronic Components, N.E.C. In 1958 electronic connectors were included in this industry.



Value of shipments and other receipts of the Current Carrying Devices Industry totaled \$616 million. This amount included shipments of current carrying devices (primary products) valued at \$464 million, shipments of other products (secondary products) valued at \$117 million, and miscellaneous receipts (mainly resales), at \$35 million.

This industry's shipments of current carrying devices represented 80 percent of its total product shipments. The industry specialization ratio in 1958 was 85 percent. Secondary products shipped by this industry in 1963 included other electronic components, n.e.c. (\$17 million), and appliance wire and cord (made from purchased materials) (\$13 million).

Shipments of current carrying devices by this industry represented 83 percent of all shipments of these products (\$562 million) by all industries. In 1958 the coverage ratio was 79 percent. Other industries shipping current carrying devices included industry 3644, Noncurrent Carrying Devices, \$24 million; and industry 3679, Electronic Components, N.E.C., \$11 million.

The production index for the primary products of the industry increased to 191 in 1963 from the 1958 level of 169. The unit value index for 1963 was 116 compared to 106 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3644--NONCURRENT CARRYING WIRING DEVICES

This industry comprises establishments primarily engaged in manufacturing noncurrent carrying wiring devices. Important products of this industry include conduits and fittings, electrical insulators and insulation materials, except porcelain insulators (industry 3624) and glass insulators (industry 3229); outlet, switch and fuse boxes; and pole line hardware. For a detailed list of products of industry 3644, refer to table 6A, product codes 3644111 to 3644323.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Noncurrent Carrying Devices Industry totaled \$479 million. This amount included shipments of noncurrent carrying devices (primary products) valued at \$352 million, shipments of other products (secondary products) valued at \$103 million, and miscellaneous receipts (mainly resales), at \$24 million.

This industry's shipments of noncurrent carrying devices represented 77 percent of its total product shipments. The industry specialization ratio in 1958 was 78 percent. Secondary products shipped by this industry in 1963 included current carrying devices (\$24 million) and outdoor lighting equipment (\$11 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 50 percent of the total industry shipments are represented by plants specializing in product class 36442.

Shipments of noncurrent carrying devices by this industry represented 80 percent of all shipments of these products (\$439 million) by all industries. In 1958 the coverage ratio was 89 percent. Other industries shipping noncurrent carrying devices included industry 3317, Steel Pipe and Tube, \$10 million; industry 3352, Aluminum Rolling and Drawing, \$12 million; and industry 3643, Current Carrying Devices, \$11 million.

The production index for the primary products of the industry increased to 186 in 1963 from the 1958 level of 107. The unit value index for 1963 was 99 compared to 112 in 1958. Both indexes were computed on a basis of 1954 = 100.

**LIGHTING AND WIRING DEVICES: SIC 364**  
 Value Added by Manufacture by State: 1963

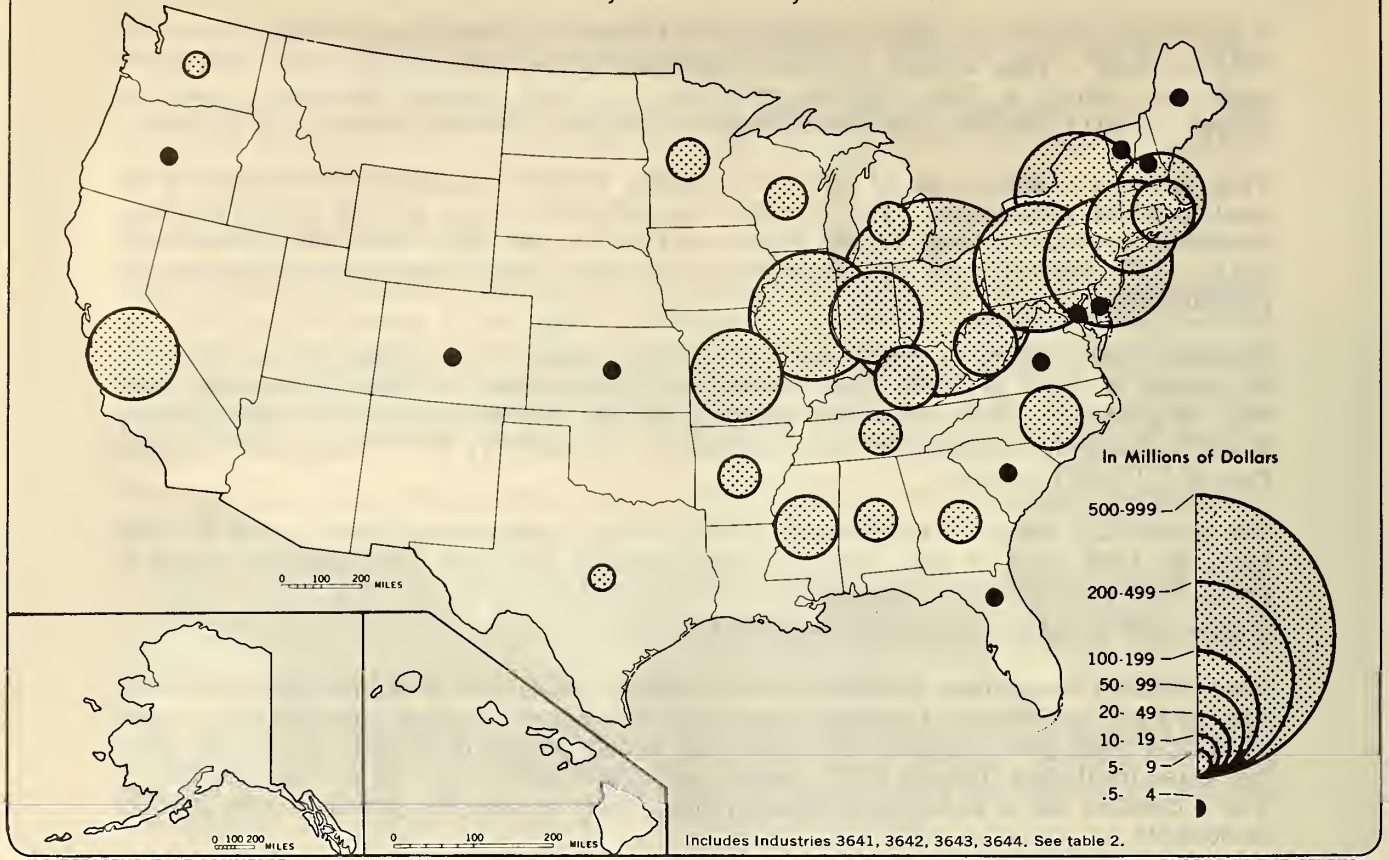




TABLE 1. General Statistics: 1963 and Earlier Years

| Year                                       | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3641.—ELECTRIC LAMPS              |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963                                       | 54                         | 81                | 50   | 23,404            | 122,721              | 20,461             | 40,256               | 99,476             | 362,235  | 207,016                           | 574,522                            | 17,040  | 95  | 96                                       |
| 1962 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 22,579            | 116,350              | 18,827             | 38,820               | 92,593             | 367,055  | 184,852                           | 544,880                            | 12,694  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 21,569            | 107,675              | 17,595             | 35,982               | 84,018             | 336,172  | 168,031                           | 513,186                            | 10,738  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 23,921            | 114,068              | 19,707             | 39,453               | 89,938             | 355,694  | 169,186                           | 517,419                            | 10,465  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 22,849            | 109,866              | 18,789             | 39,622               | 87,232             | 339,166  | 165,841                           | 497,282                            | 10,613  | (NA)  | (NA)                                     |
| 1958                                       | 35                         | 66                | 52   | 21,495            | 95,298               | 18,236             | 35,119               | 73,625             | 270,498  | 136,158                           | 417,516                            | 8,276   | 94  | 98                                       |
| 1957 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 24,731            | 102,731              | 21,478             | 42,469               | 82,016             | 297,911  | 145,000                           | 435,280                            | 11,000  | 93  | 100                                      |
| 1956 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 24,001            | 95,763               | 20,941             | 41,450               | 77,167             | 289,874  | 136,869                           | 411,628                            | 12,518  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 22,017            | 83,214               | 19,137             | 37,541               | 66,410             | 264,300  | 119,334                           | 381,522                            | 8,807   | (NA)  | (NA)                                     |
| 1954                                       | 35                         | 66                | 53   | 21,963            | 78,921               | 19,172             | 36,750               | 63,205             | 216,230  | 111,505                           | 330,864                            | 8,288   | 94  | 99                                       |
| 1953 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 21,207            | 73,886               | 18,966             | 37,018               | 61,511             | 204,559  | 115,975                           | 320,534                            | 9,644   | (NA)  | (NA)                                     |
| 1952 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 20,276            | 65,310               | 17,417             | 34,087               | 50,885             | 165,350  | 88,852                            | 254,202                            | 7,980   | (NA)  | (NA)                                     |
| 1951 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 24,955            | 76,078               | 22,023             | 42,269               | 62,899             | 196,711  | 113,340                           | 310,051                            | 7,514   | (NA)  | (NA)                                     |
| 1950 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 21,679            | 61,588               | 18,888             | 37,614               | 49,480             | 165,170  | 91,966                            | 257,136                            | 7,730   | (NA)  | (NA)                                     |
| 1949 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 19,468            | 52,587               | 17,263             | 33,465               | 43,201             | 132,042  | 78,205                            | 210,248                            | 9,197   | (NA)  | (NA)                                     |
| 1947                                       | 35                         | 62                | 52   | 23,842            | 57,914               | 21,550             | 42,090               | 48,891             | 120,344  | 82,904                            | 203,248                            | 11,318  | 94  | 100                                      |
| 1939                                       | (NA)                       | 55                | (NA)   | 11,587            | 15,309               | 9,622              | (NA)                 | 10,689             | 56,257   | 28,571                            | 84,828                             | (NA)  | (NA)  | (NA)                                     |
| 1937                                       | (NA)                       | 41                | (NA)   | (NA)              | (NA)                 | 8,984              | (NA)                 | 10,163             | 56,348   | 26,190                            | 82,538                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3642.—LIGHTING FIXTURES           |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963                                       | 1,203                      | 1,239             | 480  | 53,866            | 288,148              | 42,052             | 83,284               | 193,464            | 587,834  | 578,062                           | 1,159,497                          | 23,072  | 93  | 93                                       |
| 1962 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 51,914            | 272,202              | 41,112             | 80,132               | 180,250            | 548,710  | 566,879                           | 1,107,262                          | 15,176  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 49,768            | 249,070              | 39,313             | 75,728               | 165,029            | 476,797  | 506,678                           | 984,193                            | 12,178  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 51,775            | 249,249              | 40,971             | 80,627               | 167,247            | 467,989  | 516,254                           | 978,015                            | 15,194  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 51,182            | 244,438              | 40,489             | 79,998               | 162,814            | 452,280  | 497,644                           | 946,059                            | 15,029  | (NA)  | (NA)                                     |
| 1958                                       | 1,154                      | 1,181             | 431  | 47,309            | 215,829              | 36,443             | 71,605               | 143,786            | 397,378  | 419,912                           | 826,595                            | 14,415  | 91  | 94                                       |
| 1957 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 53,690            | 227,295              | 42,680             | 84,724               | 159,736            | 403,533  | 409,833                           | 811,665                            | 15,602  | 89  | 92                                       |
| 1956 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 54,827            | 220,090              | 44,393             | 88,378               | 158,733            | 382,401  | 404,351                           | 786,082                            | 13,836  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 55,099            | 213,910              | 45,541             | 86,701               | 157,482            | 381,303  | 394,817                           | 759,958                            | 23,030  | (NA)  | (NA)                                     |
| 1954                                       | 1,211                      | 1,228             | 381  | 45,078            | 181,951              | 36,361             | 73,660               | 128,759            | 324,651  | 332,815                           | 660,073                            | 14,217  | 90  | 90                                       |
| 1953 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 54,484            | 215,190              | 44,745             | 90,847               | 158,973            | 383,513  | 376,540                           | 760,053                            | 17,076  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 47,969            | 177,984              | 38,849             | 79,211               | 127,369            | 325,758  | 304,302                           | 630,060                            | 7,840   | (NA)  | (NA)                                     |
| 1951 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 47,782            | 170,682              | 39,377             | 80,246               | 124,450            | 305,083  | 339,333                           | 644,416                            | 16,398  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 46,281            | 157,398              | 37,276             | 77,249               | 109,234            | 277,362  | 322,369                           | 599,731                            | 16,339  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 43,303            | 140,422              | 34,813             | 70,641               | 97,368             | 250,504  | 265,269                           | 515,863                            | 7,560   | (NA)  | (NA)                                     |
| 1947                                       | (NA)                       | 1,202             | (NA)   | 46,891            | 131,279              | 39,393             | (NA)                 | 96,291             | 239,191  | 226,231                           | 465,422                            | (NA)  | (NA)  | (NA)                                     |
| 1939                                       | (NA)                       | 568               | (NA)   | 25,686            | 35,758               | 20,477             | (NA)                 | 23,238             | 64,731   | 59,851                            | 124,582                            | (NA)  | (NA)  | (NA)                                     |
| 1937                                       | (NA)                       | 466               | (NA)   | 25,599            | 33,888               | 21,743             | (NA)                 | 24,918             | 59,503   | 55,593                            | 115,096                            | (NA)  | (NA)  | (NA)                                     |
| 1935                                       | (NA)                       | 501               | (NA)   | 20,113            | 24,342               | 16,677             | (NA)                 | 17,232             | 45,586   | 40,114                            | 85,700                             | (NA)  | (NA)  | (NA)                                     |
| 1933                                       | (NA)                       | 357               | (NA)   | 12,459            | 12,625               | 10,538             | (NA)                 | 9,506              | 26,932   | 19,241                            | 46,173                             | (NA)  | (NA)  | (NA)                                     |
| 1931                                       | (NA)                       | 523               | (NA)   | -                 | -                    | 14,790             | (NA)                 | 18,150             | 44,738   | 30,312                            | 75,050                             | (NA)  | (NA)  | (NA)                                     |
| 1929                                       | (NA)                       | 614               | (NA)   | 28,339            | 46,979               | 23,580             | (NA)                 | 33,269             | 87,048   | 57,918                            | 144,966                            | (NA)  | (NA)  | (NA)                                     |
| 1927                                       | (NA)                       | 481               | (NA)   | 25,821            | 41,898               | 21,030             | (NA)                 | 29,207             | 72,193   | 55,609                            | 127,802                            | (NA)  | (NA)  | (NA)                                     |
| 1925                                       | (NA)                       | 517               | (NA)   | 26,835            | 42,301               | 22,334             | (NA)                 | 31,072             | 71,927   | 57,771                            | 129,698                            | (NA)  | (NA)  | (NA)                                     |
| 1923                                       | (NA)                       | 535               | (NA)   | 27,359            | 39,567               | 22,191             | (NA)                 | 29,097             | 66,339   | 52,640                            | 118,979                            | (NA)  | (NA)  | (NA)                                     |
| 1921                                       | (NA)                       | 465               | (NA)   | 19,056            | 25,409               | 15,866             | (NA)                 | 18,523             | 39,252   | 32,802                            | 72,054                             | (NA)  | (NA)  | (NA)                                     |
| 1919                                       | (NA)                       | 512               | (NA)   | 21,776            | 26,228               | 18,155             | (NA)                 | 19,095             | 41,679   | 38,688                            | 80,367                             | (NA)  | (NA)  | (NA)                                     |
| 1914                                       | (NA)                       | 611               | (NA)   | 21,389            | 15,371               | 18,047             | (NA)                 | 10,677             | 23,276   | 22,102                            | 45,378                             | (NA)  | (NA)  | (NA)                                     |
| 1909                                       | (NA)                       | 619               | (NA)   | 22,475            | 14,734               | 18,861             | (NA)                 | 10,393             | 24,590   | 20,467                            | 45,057                             | (NA)  | (NA)  | (NA)                                     |
| 1904                                       | (NA)                       | 405               | (NA)   | 14,319            | 8,606                | 12,576             | (NA)                 | 6,408              | 15,482   | 11,078                            | 26,560                             | (NA)  | (NA)  | (NA)                                     |
| 1899                                       | (NA)                       | 370               | (NA)   | 12,532            | 6,680                | 11,238             | (NA)                 | 5,188              | 11,859   | 7,962                             | 19,821                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3643.—CURRENT CARRYING DEVICES    |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963 <sup>3</sup>                          | 431                        | 449               | 180  | 35,424            | 175,185              | 27,239             | 53,474               | 115,097            | 355,643  | 257,175                           | 615,980                            | 14,119  | 80  | 83                                       |
| 1962 <sup>1 3</sup>                        | (NA)                       | (NA)              | (NA)   | 40,633            | 189,586              | 32,018             | 63,058               | 125,804            | 386,741  | 269,105                           | 649,849                            | 14,877  | (NA)  | (NA)                                     |
| 1961 <sup>1 3</sup>                        | (NA)                       | (NA)              | (NA)   | 41,536            | 196,028              | 31,827             | 62,831               | 124,932            | 388,469  | 267,342                           | 639,532                            | 15,534  | (NA)  | (NA)                                     |
| 1960 <sup>1 3</sup>                        | (NA)                       | (NA)              | (NA)   | 41,942            | 187,291              | 32,261             | 62,779               | 115,317            | 371,439  | 256,504                           | 625,587                            | 17,967  | (NA)  | (NA)                                     |
| 1959 <sup>1 3</sup>                        | (NA)                       | (NA)              | (NA)   | 41,341            | 179,230              | 32,976             | 63,591               | 118,510            | 371,770  | 253,316                           | 611,132                            | 13,990  | (NA)  | (NA)                                     |
| 1958 <sup>3 4</sup>                        | 405                        | 423               | 161  | 35,692            | 155,976              | 26,556             | 51,612               | 100,229            | 300,836  | 197,905                           | 501,309                            | 9,629   | 87  | 79                                       |
| INDUSTRY 3644.—NONCURRENT CARRYING DEVICES |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963                                       | 168                        | 182               | 103  | 20,290            | 123,576              | 14,756             | 29,691               | 79,605             | 253,918  | 226,499                           | 479,033                            | 7,873   | 77  | 80                                       |
| 1962 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 23,020            | 134,980              | 15,897             | 32,912               | 86,099             | 255,935  | 229,169                           | 487,340                            | 11,082  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 23,210            | 134,102              | 15,929             | 33,062               | 85,874             | 257,540  | 224,572                           | 472,762                            | 12,873  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 22,353            | 121,955              | 15,289             | 31,280               | 79,066             | 246,821  | 193,473                           | 430,830                            | 10,743  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup>                          | (NA)                       | (NA)              | (NA)   | 23,168            | 126,261              | 16,053             | 34,424               | 83,998             | 264,741  | 213,282                           | 469,762                            | 10,135  | (NA)  | (NA)                                     |
| 1958 (New SIC)                             | 138                        | 150               | 93   | 19,722            | 101,382              | 14,574             | 28,741               | 67,772             | 214,607  | 193,003                           | 413,758                            | 9,976   | 78  | 89                                       |
| 1958 <sup>4</sup> (Old SIC)                | (NA)                       | 556               | 236  | 50,689            | 236,137              | 37,853             | 73,690               | 155,112            | 474,348  | 357,282                           | 840,886                            | 18,480  | (NA)  | (NA)                                     |
| 1957 <sup>1 4</sup>                        | (NA)                       | (NA)              | (NA)   | 49,694            | 223,186              | 39,526             | 76,981               | 154,258            | 461,639  | 337,922                           | 790,077                            | 25,174  | 86  | 87                                       |
| 1956 <sup>1 4</sup>                        | (NA)                       | (NA)              | (NA)   | 49,270            | 214,813              | 40,306             | 80,595               | 154,101            | 455,391  | 359,074                           | 793,066                            | 20,889  | (NA)  | (NA)                                     |
| 1955 <sup>1 4</sup>                        | (NA)                       | (NA)              | (NA)   | 49,345            | 194,797              | 40,245             | 78,752               | 140,430            | 426,591  | 302,323                           | 704,676                            | 15,273  | (NA)  | (NA)                                     |

See footnotes at end of table.

TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3644.—NONCURRENT CARRYING DEVICES—Continued |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1954 <sup>4</sup>                                    | 368                        | 395               | 211  | 43,195            | 168,474              | 34,882             | 68,944               | 122,166            | 340,911  | 243,455                           | 584,366                            | 12,346  | 85  | 86                                       |
| 1953 <sup>1 4</sup>                                  | (NA)                       | (NA)              | (NA)   | 49,162            | 191,885              | 39,721             | 79,883               | 136,787            | 359,275  | 286,353                           | 645,628                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1 4</sup>                                  | (NA)                       | (NA)              | (NA)   | 49,000            | 175,618              | 39,159             | 77,704               | 122,972            | 355,009  | 250,291                           | 605,300                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1 4</sup>                                  | (NA)                       | (NA)              | (NA)   | 54,794            | 176,069              | 45,332             | 89,623               | 128,474            | 361,436  | 299,490                           | 660,926                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1 4</sup>                                  | (NA)                       | (NA)              | (NA)   | 44,364            | 136,921              | 36,811             | 73,174               | 97,568             | 272,540  | 227,021                           | 499,561                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1 4</sup>                                  | (NA)                       | (NA)              | (NA)   | 33,815            | 104,967              | 26,879             | 53,035               | 70,902             | 195,395  | 149,210                           | 344,605                            | (NA)  | (NA)  | (NA)                                     |
| 1947 <sup>4</sup>                                    | (NA)                       | 344               | (NA)   | 39,160            | 104,095              | 33,020             | (NA)                 | 78,655             | 218,567  | 165,879                           | 384,446                            | (NA)  | (NA)  | (NA)                                     |
| 1939 <sup>4</sup>                                    | (NA)                       | 141               | (NA)   | (NA)              | (NA)                 | 14,024             | (NA)                 | 16,358             | 47,951   | 43,428                            | 91,379                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2 4</sup>                                  | (NA)                       | 124               | (NA)   | (NA)              | (NA)                 | 17,301             | (NA)                 | 19,884             | 48,485   | 46,906                            | 95,391                             | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1954 excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1954 excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>2</sup>Comparable data are not available for earlier years.

<sup>3</sup>Data for 1958-1960 include establishments primarily engaged in the manufacture of electronic connectors. For 1961-1963 these establishments are included in industry 3679, Electronic Components, N.E.C.

<sup>4</sup>The two industries (3643 and 3644) shown were basically a single industry in 1957 and earlier years. However, due to a revision in the Standard Industrial Classification, a net gain of 16 establishments occurred in new industry 3643. These establishments were excluded from 1958 data for "old industry," so that comparable historical data may be presented.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>            | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3641.—ELECTRIC LAMPS           |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                              | 81             | 50                                 | 23,404         | 122,721           | 20,461             | 40,256            | 99,476          | 362,235                              | 207,016           | 574,522            | 17,040                    | 21,495           | 270,498                              |
| Middle Atlantic....                     | 36             | 20                                 | 8,545          | 47,233            | 7,111              | 14,327            | 34,936          | 105,413                              | 59,188            | 164,107            | 3,640                     | 8,249            | 81,745                               |
| New York.....                           | 10             | 4                                  | 499            | 1,984             | 413                | 854               | 1,421           | 4,086                                | 6,301             | 10,074             | 88                        | 428              | 2,724                                |
| New Jersey.....                         | 18             | 10                                 | 6,432          | 36,640            | 5,237              | 10,451            | 26,128          | 67,803                               | 36,531            | 101,743            | 2,056                     | 6,143            | 55,263                               |
| Pennsylvania.....                       | 8              | 6                                  | 1,614          | 8,609             | 1,461              | 3,022             | 7,387           | 33,524                               | 16,356            | 52,290             | 1,496                     | 1,678            | 23,758                               |
| East South Central.                     | 8              | 7                                  | 3,118          | 14,673            | 2,811              | 5,439             | 12,302          | 41,997                               | 26,315            | 70,383             | 2,623                     | 13,246           | 188,753                              |
| All other divisions                     | 37             | 23                                 | 11,741         | 60,815            | 10,539             | 20,490            | 52,238          | 214,825                              | 121,513           | 340,032            | 10,777                    |                  |                                      |
| INDUSTRY 3642.—LIGHTING FIXTURES        |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                              | 1,239          | 480                                | 53,866         | 288,148           | 42,052             | 83,284            | 193,464         | 587,834                              | 578,062           | 1,159,497          | 23,072                    | 47,309           | 397,378                              |
| New England.....                        | 72             | 32                                 | 3,903          | 18,573            | 3,015              | 5,738             | 12,687          | 35,230                               | 32,747            | 67,704             | 1,156                     | 3,294            | 26,654                               |
| Massachusetts....                       | 40             | 17                                 | 2,562          | 11,800            | 1,992              | 3,725             | 8,153           | 22,968                               | 21,806            | 44,704             | 660                       | 2,032            | 16,734                               |
| Connecticut.....                        | 26             | 11                                 | 892            | 4,552             | 656                | 1,295             | 3,011           | 6,677                                | 7,505             | 14,077             | 212                       | 890              | 6,390                                |
| Middle Atlantic....                     | 521            | 206                                | 17,642         | 86,668            | 14,101             | 27,193            | 58,745          | 177,421                              | 175,546           | 351,907            | 4,862                     | 15,513           | 120,356                              |
| New York.....                           | 331            | 105                                | 7,703          | 39,877            | 6,081              | 11,674            | 26,603          | 77,324                               | 77,896            | 154,844            | 1,968                     | 8,006            | 64,106                               |
| New Jersey.....                         | 97             | 45                                 | 3,934          | 20,593            | 3,092              | 6,097             | 13,757          | 46,113                               | 36,502            | 82,391             | 1,344                     | 2,943            | 22,561                               |
| Pennsylvania.....                       | 93             | 56                                 | 6,005          | 26,198            | 4,928              | 9,422             | 18,385          | 53,984                               | 61,148            | 114,672            | 1,550                     | 4,564            | 33,689                               |
| East North Central.                     | 252            | 114                                | 18,862         | 112,629           | 14,433             | 29,456            | 76,115          | 212,925                              | 198,247           | 407,480            | 10,460                    | 17,514           | 146,169                              |
| Ohio.....                               | 60             | 28                                 | 5,192          | 30,071            | 3,745              | 7,518             | 18,972          | 58,318                               | 58,406            | 114,301            | 1,496                     | 4,768            | 41,833                               |
| Illinois.....                           | 141            | 67                                 | 6,555          | 33,674            | 5,129              | 10,041            | 21,488          | 63,098                               | 73,402            | 136,860            | 3,350                     | 6,148            | 46,742                               |
| Michigan.....                           | 22             | 9                                  | 1,144          | 6,082             | 922                | 1,844             | 4,361           | 11,159                               | 13,960            | 25,198             | 349                       | 645              | 7,797                                |
| West North Central.                     | 39             | 20                                 | 1,791          | 9,685             | 1,337              | 2,690             | 5,790           | 18,257                               | 16,632            | 34,802             | 654                       | 1,694            | 12,075                               |
| Minnesota.....                          | 7              | 2                                  | 119            | 740               | 99                 | 215               | 484             | 2,075                                | 569               | 2,645              | 72                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Missouri.....                           | 27             | 17                                 | 1,610          | 8,683             | 1,188              | 2,382             | 5,130           | 15,549                               | 15,742            | 31,186             | 568                       | 1,556            | 10,843                               |
| South Atlantic....                      | 55             | 14                                 | 2,495          | 13,462            | 1,899              | 3,921             | 8,406           | 36,823                               | 44,065            | 81,127             | 1,844                     | 1,601            | 17,932                               |
| Florida.....                            | 21             | 5                                  | 265            | 1,083             | 206                | 417               | 746             | 2,046                                | 2,751             | 4,783              | 58                        | 321              | 1,554                                |
| East South Central.                     | 11             | 7                                  | 2,081          | 9,037             | 1,742              | 3,553             | 6,686           | 27,621                               | 31,793            | 59,288             | 710                       | 1,917            | 19,443                               |
| West South Central.                     | 39             | 10                                 | 797            | 3,863             | 599                | 1,166             | 2,378           | 11,045                               | 9,503             | 20,395             | 307                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Texas.....                              | 29             | 8                                  | 506            | 2,773             | 354                | 713               | 1,561           | 7,212                                | 7,111             | 14,150             | 269                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Mountain.....                           | 10             | 2                                  | 187            | 1,058             | 151                | 294               | 639             | 2,048                                | 2,565             | 4,581              | 308                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pacific.....                            | 240            | 75                                 | 6,108          | 33,173            | 4,775              | 9,273             | 22,018          | 66,464                               | 66,964            | 132,213            | 2,771                     | 5,305            | 50,025                               |
| California.....                         | 226            | 71                                 | 5,523          | 30,297            | 4,315              | 8,513             | 19,948          | 60,955                               | 63,038            | 123,106            | 2,539                     | 4,917            | 46,310                               |
| INDUSTRY 3643.—CURRENT CARRYING DEVICES |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                              | 449            | 180                                | 35,424         | 175,185           | 27,239             | 53,474            | 115,097         | 355,643                              | 257,175           | 615,980            | 14,119                    | 35,692           | 300,836                              |
| New England.....                        | 77             | 39                                 | 12,347         | 61,182            | 9,777              | 19,073            | 42,472          | 116,533                              | 90,659            | 207,934            | 3,631                     | 12,250           | 103,314                              |
| Massachusetts....                       | 37             | 16                                 | 3,048          | 15,119            | 2,245              | 4,474             | 9,993           | 28,747                               | 23,805            | 52,371             | 1,323                     | 3,317            | 25,120                               |
| Connecticut.....                        | 28             | 15                                 | 5,663          | 31,452            | 4,397              | 8,639             | 21,736          | 62,696                               | 38,799            | 103,007            | 1,863                     | 6,995            | 62,627                               |
| Middle Atlantic....                     | 151            | 58                                 | 11,788         | 54,646            | 9,405              | 18,183            | 37,747          | 111,664                              | 88,360            | 203,617            | 5,211                     | 10,131           | 79,871                               |
| New York.....                           | 85             | 33                                 | 6,984          | 32,408            | 5,604              | 10,808            | 22,538          | 53,931                               | 47,267            | 101,954            | 2,868                     | 6,171            | 42,098                               |
| New Jersey.....                         | 36             | 10                                 | 2,487          | 11,456            | 2,015              | 3,895             | 8,143           | 21,369                               | 19,557            | 43,816             | 1,342                     | 2,136            | 15,663                               |
| Pennsylvania.....                       | 30             | 15                                 | 2,317          | 10,782            | 1,786              | 3,480             | 7,066           | 36,364                               | 21,536            | 57,847             | 1,001                     | 1,824            | 22,110                               |
| East North Central.                     | 105            | 48                                 | 8,341          | 43,029            | 5,924              | 11,869            | 25,333          | 86,122                               | 54,443            | 139,804            | 2,934                     | 8,832            | 81,154                               |
| Illinois.....                           | 36             | 22                                 | 4,927          | 25,948            | 3,325              | 6,532             | 14,186          | 54,450                               | 23,320            | 77,258             | 1,579                     | 6,509            | 58,889                               |
| Michigan.....                           | 16             | 4                                  | 330            | 1,444             | 281                | 581               | 1,115           | 2,100                                | 6,798             | 8,879              | 201                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West North Central.                     | 23             | 10                                 | 1,293          | 7,876             | 882                | 1,869             | 4,266           | 18,711                               | 12,487            | 30,979             | 1,436                     | 893              | 6,915                                |
| Missouri.....                           | 12             | 4                                  | 996            | 6,448             | 648                | 1,411             | 3,302           | 9,742                                | 9,155             | 18,665             | 376                       | 830              | 6,628                                |
| South.....                              | 23             | 7                                  | 505            | 2,173             | 412                | 818               | 1,526           | 9,108                                | 4,714             | 13,872             | 362                       | 113              | 905                                  |
| Texas.....                              | 5              | 1                                  | 45             | 265               | 29                 | 59                | 171             | 324                                  | 99                | 461                | 6                         | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West.....                               | 70             | 18                                 | 1,150          | 6,279             | 839                | 1,662             | 3,753           | 13,505                               | 6,512             | 19,774             | 545                       | 3,473            | 28,677                               |
| California.....                         | 64             | 17                                 | 1,113          | 6,081             | 812                | 1,610             | 3,646           | 13,109                               | 6,325             | 19,191             | 535                       | 3,450            | 28,383                               |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>               | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3644.—NONCURRENT CARRYING DEVICES |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                 | 182            | 103                                | 20,290         | 123,576           | 14,756             | 29,691            | 79,605          | 253,918                              | 226,499           | 479,033            | 7,873                     | 19,722           | 214,607                              |
| Middle Atlantic....                        | 56             | 32                                 | 8,294          | 50,506            | 5,783              | 11,511            | 31,354          | 104,573                              | 88,760            | 192,634            | 3,221                     | 9,276            | 99,891                               |
| New York.....                              | 22             | 11                                 | 3,829          | 23,449            | 2,568              | 5,097             | 14,108          | 44,234                               | 26,424            | 71,329             | 1,269                     | 3,777            | 35,255                               |
| New Jersey.....                            | 12             | 5                                  | 1,287          | 8,454             | 750                | 1,617             | 4,426           | 21,185                               | 10,632            | 31,387             | 785                       | 1,169            | 13,546                               |
| Pennsylvania.....                          | 22             | 16                                 | 3,178          | 18,603            | 2,465              | 4,797             | 12,820          | 39,154                               | 51,704            | 89,918             | 1,167                     | 4,330            | 51,090                               |
| Pacific.....                               | 32             | 12                                 | 1,308          | 8,282             | 1,064              | 2,017             | 5,761           | 18,564                               | 20,321            | 38,673             | 530                       | 1,117            | 13,968                               |
| All other divisions                        | 94             | 59                                 | 10,688         | 64,788            | 7,909              | 16,163            | 42,490          | 130,781                              | 117,418           | 247,726            | 4,122                     | 9,329            | 100,748                              |
| Connecticut.....                           | 9              | 5                                  | 940            | 5,530             | 747                | 1,589             | 3,834           | 11,316                               | 6,416             | 17,822             | 399                       | 730              | 6,880                                |
| Ohio.....                                  | 16             | 11                                 | 1,805          | 11,948            | 1,226              | 2,564             | 7,328           | 23,691                               | 15,404            | 39,478             | 423                       | 1,427            | 14,539                               |
| Alabama.....                               | 3              | 3                                  | 513            | 3,341             | 336                | 728               | 1,872           | 5,925                                | 4,537             | 10,459             | 174                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3641, Electric Lamps: New England—New Hampshire, 1 (100-249); Massachusetts, 5 (2,500-4,999); East North Central—Ohio, 10 (2,500-4,999); Indiana, 1 (1-19); Illinois, 6 (983); Michigan, 1 (1-19); Wisconsin, 1 (1-19); West North Central—Minnesota, 1 (1-19); Missouri, 2 (500-999); Kansas, 1 (1-19); South Atlantic—West Virginia, 1 (1,000-2,499); Florida, 1 (1-19); East South Central—Kentucky, 5 (1,366); Tennessee, 1 (500-999); Alabama, 1 (500-999); Mississippi, 1 (100-249); West South Central—Arkansas, 1 (500-999); Louisiana, 1 (1-19); Oklahoma, 1 (1-19); Mountain—Colorado, 1 (1-19); Arizona, 1 (1-19); Pacific—California, 1 (1-19).

SIC 3642, Lighting Fixtures: New England—New Hampshire, 1 (1-19); Vermont, 1 (250-499); Rhode Island, 4 (100-249); East North Central—Indiana, 12 (2,500-4,999); Wisconsin, 17 (1,000-2,499); West North Central—Iowa, 2 (1-19); Kansas, 3 (20-99); South Atlantic—Delaware, 2 (100-249); Maryland, 8 (20-99); District of Columbia, 4 (1-19); Virginia, 1 (20-99); West Virginia, 2 (250-499); North Carolina, 7 (945); South Carolina, 1 (20-99); Georgia, 9 (500-999); East South Central—Kentucky, 6 (500-999); Tennessee, 2 (20-99); Mississippi, 3 (1,000-2,499); West South Central—Arkansas, 4 (250-499); Louisiana, 4 (1-19); Oklahoma, 2 (1-19); Mountain—Colorado, 5 (133); Arizona, 3 (1-19); Utah, 2 (20-99); Pacific—Washington, 6 (529); Oregon, 6 (20-99); Hawaii, 2 (1-19).

SIC 3643, Current Carrying Devices: New England—Maine, 1 (250-499); New Hampshire, 1 (1-19); Rhode Island, 10 (2,500-4,999); East North Central—Ohio, 29 (1,000-2,499); Indiana, 18 (1397); Wisconsin, 6 (20-99); West North Central—Minnesota, 8 (245); Iowa, 2 (20-99); Kansas, 1 (20-99); South Atlantic—Maryland, 2 (20-99); District of Columbia, 1 (1-19); North Carolina, 7 (284); South Carolina, 1 (20-99); Florida, 4 (20-99); East South Central—Kentucky, 1 (20-99); West South Central—Louisiana, 1 (1-19); Oklahoma, 1 (1-19); Texas, 5 (20-99); Mountain—Wyoming, 1 (1-19); Colorado, 2 (20-99); Arizona, 2 (1-19); Pacific—Oregon, 1 (1-19).

SIC 3644, Noncurrent Carrying Devices: New England—Massachusetts, 8 (278); East North Central—Indiana, 1 (250-499); Illinois, 21 (3,695); Michigan, 7 (250-499); Wisconsin, 3 (100-249); West North Central—Minnesota, 2 (250-499); Missouri, 5 (500-999); South Atlantic—Maryland, 1 (20-99); West Virginia, 2 (500-999); Georgia, 1 (100-249); Florida, 2 (20-99); East South Central—Kentucky, 1 (20-99); Tennessee, 2 (20-99); Mississippi, 1 (1,000-2,499); West South Central—Louisiana, 1 (1-19); Texas, 6 (250-499); Mountain—Colorado, 2 (1-19); Pacific—Oregon, 2 (1-19); California, 30 (1,000-2,499).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.



TABLE 3. Detailed Statistics: 1963

| Item   | Electric lamps<br>(SIC 3641) | Lighting fixtures<br>(SIC 3642) | Current carrying devices<br>(SIC 3643) | Noncurrent carrying<br>devices<br>(SIC 3644) |
|--|------------------------------|---------------------------------|--|--|
| Primary product specialization ratio <sup>1</sup> .....        | .95                          | .93                             | .80                                    | .77  |
| Coverage ratio <sup>2</sup> .....                              | .96                          | .93                             | .83                                    | .80  |
| Establishments, total.....number..                             | 81                           | 1,239                           | 449                                    | 182  |
| With 1 to 19 employees.....do....                              | 31                           | 759                             | 269                                    | 79   |
| With 20 to 99 employees.....do....                             | 8                            | 368                             | 113                                    | 58   |
| With 100 employees or more.....do....                          | 42                           | 112                             | 67                                     | 45   |
| Proprietors and working partners.....do....                    | 19                           | 458                             | 144                                    | 22   |
| All employees (average for the year).....do....                | 23,404                       | 53,866                          | 35,424                                 | 20,290                                       |
| Payroll (all employees), total for year.....\$1,000..          | 122,721                      | 288,148                         | 175,185                                | 123,576                                      |
| Production workers:  |                              |                                 |  |  |
| Average for the year.....number..                              | 20,461                       | 42,052                          | 27,239                                 | 14,756                                       |
| March.....do....   | 20,514                       | 41,355                          | 26,773                                 | 14,544                                       |
| May.....do....   | 20,479                       | 39,782                          | 27,021                                 | 14,758                                       |
| August.....do....  | 20,476                       | 42,542                          | 27,374                                 | 14,881                                       |
| November.....do....  | 20,362                       | 44,659                          | 27,830                                 | 14,885                                       |
| Man-hours.....1,000..  | 40,256                       | 83,284                          | 53,474                                 | 29,691                                       |
| January-March.....do....                                       | 10,252                       | 19,881                          | 13,182                                 | 7,189  |
| April-June.....do....  | 10,398                       | 20,185                          | 13,710                                 | 7,625  |
| July-September.....do....                                      | 8,996                        | 20,958                          | 12,655                                 | 7,325  |
| October-December.....do....                                    | 10,610                       | 22,260                          | 13,927                                 | 7,552  |
| Wages.....\$1,000..  | 99,476                       | 193,464                         | 115,097                                | 79,605                                       |
| Cost of materials, etc., total.....do....                      | 207,016                      | 578,062                         | 257,175                                | 226,499                                      |
| Materials, parts, containers, and supplies consumed.....do.... | 183,990                      | 538,801                         | 225,474                                | 203,364                                      |
| Cost of resales.....do....                                     | 18,115                       | 22,082                          | 19,762                                 | 16,430                                       |
| Fuels consumed.....do....                                      | 1,758                        | 3,630                           | 1,323                                  | 2,422  |
| Electric energy:   |                              |                                 |  |  |
| Purchased:   |                              |                                 |  |  |
| Quantity.....million kw.-hrs..                                 | 239                          | 387                             | 193                                    | 186  |
| Cost.....\$1,000..   | 2,837                        | 5,571                           | 2,905                                  | 2,598  |
| Generated less sold.....million kw.-hrs..                      | -                            | (D)                             | -                                      | -  |
| Contract work.....\$1,000..                                    | 328                          | 7,978                           | 7,711                                  | 1,685  |
| Value of shipments (including resales), total.....do....       | 574,522                      | 1,159,497                       | 615,980                                | 479,033                                      |
| Value of resales.....do....                                    | 21,464                       | 29,523                          | 28,132                                 | 19,098                                       |
| Value added by manufacture, adjusted.....do....                | 362,235                      | 587,834                         | 355,643                                | 253,918                                      |
| Manufacturers' inventories:                                    |                              |                                 |  |  |
| Beginning of year, total.....do....                            | 69,167                       | 147,258                         | 102,326                                | 99,015                                       |
| Finished products.....do....                                   | 53,970                       | 49,991                          | 38,181                                 | 47,654                                       |
| Work-in-process.....do....                                     | 1,449                        | 44,106                          | 34,377                                 | 24,853                                       |
| Materials, supplies, fuel, etc.....do....                      | 13,748                       | 53,161                          | 29,768                                 | 26,508                                       |
| End of year, total.....do....                                  | 63,744                       | 157,100                         | 99,549                                 | 101,517                                      |
| Finished products.....do....                                   | 48,571                       | 52,763                          | 37,905                                 | 48,390                                       |
| Work-in-process.....do....                                     | 1,577                        | 47,733                          | 32,461                                 | 25,501                                       |
| Materials, supplies, fuel, etc.....do....                      | 13,596                       | 56,611                          | 29,183                                 | 27,626                                       |
| Expenditures for plant and equipment, total.....do....         | 17,425                       | 24,473                          | 15,616                                 | 8,733  |
| New, total.....do....  | 17,040                       | 23,072                          | 14,119                                 | 7,873  |
| New structures and additions to plant.....do....               | 4,124                        | 7,751                           | 2,479                                  | 938  |
| New machinery and equipment.....do....                         | 12,916                       | 15,321                          | 11,640                                 | 6,935  |
| Used plant and equipment.....do....                            | 385                          | 1,401                           | 1,497                                  | 860  |
| Selected operating ratios:                                     |                              |                                 |  |  |
| Payroll/Total employment.....                                  | 5,243                        | 5,349                           | 4,945                                  | 6,090  |
| Production workers/Total employment.....                       | .87                          | .78                             | .77                                    | .73  |
| Man-hours/Production workers.....                              | 1,967                        | 1,981                           | 1,963                                  | 2,012  |
| Production worker wages/Man-hours.....                         | 2.47                         | 2.32                            | 2.15                                   | 2.68   |
| Cost of materials and payrolls/Total value of shipments.....   | .57                          | .75                             | .70                                    | .73  |
| Cost of materials/Total value of shipments.....                | .36                          | .50                             | .42                                    | .47  |
| Adjusted value added/Total employment.....                     | 15,477                       | 10,915                          | 10,040                                 | 12,514                                       |
| Salaries and wages/Adjusted value added.....                   | .34                          | .49                             | .49                                    | .49  |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item                                       | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3641.—ELECTRIC LAMPS              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                | 81                    | 18                                 | 6                | 7                  | 3                  | 5                  | 10                   | 14                   | 16                   | 1                        | 1                        |
| All employees:                             |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                           | 23,404                | 31                                 | 41               | 101                | 93                 | 343                | 1,534                | 5,059                | <u>16,202</u>        | (D)                      | (D)                      |
| Payroll.....\$1,000..                      | 122,721               | 146                                | 173              | 456                | 390                | 1,365              | 6,643                | 25,534               | <u>88,014</u>        | (D)                      | (D)                      |
| Value added, adjusted.....do....           | 362,235               | 286                                | 470              | 1,176              | 686                | 4,016              | 16,991               | 84,051               | <u>254,559</u>       | (D)                      | (D)                      |
| Value of shipments.....do....              | 574,522               | 440                                | 773              | 1,854              | 1,234              | 10,235             | 28,904               | 139,700              | <u>391,382</u>       | (D)                      | (D)                      |
| Capital expenditures, new...do....         | 17,040                | <u>1,892</u>                       | (D)              | (D)                | (D)                | (D)                | (D)                  | 1,658                | <u>13,490</u>        | (D)                      | (D)                      |
| INDUSTRY 3642.—LIGHTING FIXTURES           |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                | 1,239                 | 384                                | 195              | 180                | 234                | 134                | 74                   | 21                   | 16                   | -                        | 1                        |
| All employees:                             |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                           | 53,866                | 690                                | 1,339            | 2,472              | 7,351              | 9,080              | 11,101               | 7,347                | <u>14,486</u>        | -                        | (D)                      |
| Payroll.....\$1,000..                      | 288,148               | 3,907                              | 6,172            | 11,672             | 35,770             | 45,420             | 57,463               | 39,768               | <u>87,976</u>        | -                        | (D)                      |
| Value added, adjusted.....do....           | 587,834               | 9,003                              | 13,085           | 23,359             | 69,641             | 87,706             | 124,377              | 77,974               | <u>182,689</u>       | -                        | (D)                      |
| Value of shipments.....do....              | 1,159,497             | 19,536                             | 26,877           | 50,589             | 158,731            | 182,780            | 249,345              | 149,560              | <u>322,079</u>       | -                        | (D)                      |
| Capital expenditures, new...do....         | 23,072                | 434                                | 429              | 955                | 2,225              | 3,144              | 3,878                | 3,025                | <u>8,982</u>         | -                        | (D)                      |
| INDUSTRY 3643.—CURRENT CARRYING DEVICES    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                | 449                   | 149                                | 61               | 59                 | 71                 | 42                 | 36                   | 18                   | 6                    | 6                        | 1                        |
| All employees:                             |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                           | 35,424                | 240                                | 393              | 814                | 2,247              | 3,060              | 5,602                | 6,761                | 4,297                | <u>12,010</u>            | (D)                      |
| Payroll.....\$1,000..                      | 175,185               | 1,075                              | 1,648            | 3,708              | 10,325             | 15,759             | 27,852               | 33,379               | 23,993               | <u>57,446</u>            | (D)                      |
| Value added, adjusted.....do....           | 355,643               | 2,704                              | 3,486            | 7,700              | 20,920             | 40,414             | 60,289               | 66,457               | 44,275               | <u>109,398</u>           | (D)                      |
| Value of shipments.....do....              | 615,980               | 5,400                              | 6,152            | 13,653             | 37,635             | 71,206             | 110,061              | 120,488              | 86,533               | <u>164,852</u>           | (D)                      |
| Capital expenditures, new...do....         | 14,119                | 152                                | 135              | 289                | 840                | 2,607              | 2,055                | 1,966                | 971                  | <u>2,104</u>             | (D)                      |
| INDUSTRY 3644.—NONCURRENT CARRYING DEVICES |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                | 182                   | 31                                 | 18               | 30                 | 26                 | 32                 | 21                   | 16                   | 6                    | 2                        | -                        |
| All employees:                             |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                           | 20,290                | 58                                 | 125              | 432                | 756                | 2,222              | 3,609                | 5,737                | <u>7,351</u>         | (D)                      | -                        |
| Payroll.....\$1,000..                      | 123,576               | 246                                | 635              | 2,165              | 4,483              | 11,860             | 21,265               | 36,787               | <u>46,135</u>        | (D)                      | -                        |
| Value added, adjusted.....do....           | 253,918               | 1,434                              | 1,183            | 4,483              | 9,155              | 28,200             | 38,695               | 73,025               | <u>97,743</u>        | (D)                      | -                        |
| Value of shipments.....do....              | 479,033               | 1,196                              | 2,476            | 9,114              | 17,603             | 58,422             | 92,271               | 136,428              | <u>161,523</u>       | (D)                      | -                        |
| Capital expenditures, new...do....         | 7,873                 | 31                                 | 42               | 190                | 405                | 1,569              | 903                  | 2,061                | <u>2,672</u>         | (D)                      | -                        |

- Represents Zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

<sup>1</sup> Includes capital expenditures for plants under construction but not in operation which constitute \$1,000-2,000 thousand of the total for the size class.



TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year               | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |  | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3641      | Electric lamps.....1963..              | 574,522            | 522,669          | 30,024             | 21,829                 | 95                                   | 545,947                            | 522,669               | 23,278                   | 96                            |
|           | 1958..                                 | 417,516            | 384,151          | 24,756             | 8,609                  | 94                                   | 393,597                            | 384,151               | 9,446                    | 98                            |
| 3642      | Lighting fixtures.....1963..           | 1,159,497          | 1,039,211        | 83,846             | 36,440                 | 93                                   | 1,116,064                          | 1,039,211             | 76,853                   | 93                            |
|           | 1958..                                 | 826,595            | 721,197          | 69,896             | 35,502                 | 91                                   | 765,413                            | 721,197               | 44,216                   | 94                            |
| 3643      | Current carrying devices .....1963..   | 615,980            | 464,160          | 116,631            | 35,189                 | 80                                   | 561,845                            | 464,160               | 97,685                   | 83                            |
|           | 1958..                                 | 501,309            | 407,135          | 72,860             | 21,314                 | 85                                   | 448,491                            | (NA)                  | (NA)                     | (NA)                          |
| 3644      | Noncurrent carrying devices.....1963.. | 479,033            | 352,016          | 103,206            | 23,811                 | 77                                   | 439,343                            | 352,016               | 87,327                   | 80                            |
|           | 1958..                                 | 413,758            | 304,734          | 83,694             | 25,330                 | 78                                   | 341,570                            | 304,734               | 36,836                   | 89                            |

NOTE: See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>Not strictly comparable with 1963 because of the reclassification of electronic connectors. See text for further explanation.





## Footnotes for Table 5B-36C-Continued

<sup>9</sup>Includes \$5,824 thousand shipped by industry 3613, Switchgear and Switchboards; \$4,204 thousand shipped by industry 3642, Lighting Fixtures; \$24,327 thousand shipped by industry 3644, Noncurrent Carrying Devices; and \$10,615 thousand shipped by industry 3679, Electronic Components, N.E.C. In addition, the following industries each shipped \$2 million or more but are withheld to avoid disclosing individual company figures: industry 3264, Porcelain Electric Supplies; industry 3356, Rolling and Drawing, N.E.C.; industry 3544, Special Dies and Tools; industry 3612, Transformers; industry 3622, Industrial Controls; industry 3629, Electric Industrial Goods, N.E.C.; industry 3661, Telephone; Telegraph Apparatus; industry 3694, Engine Electrical Equipment; and, industry 3871, Watches and Clocks.

<sup>10</sup>Includes the following product classes each of which total \$2 million or more, but are withheld to avoid disclosing individual company figures: 34990, Fabricated metal products, n.e.c.; 36131, Switchgear, including power switchgear assemblies and other switching and interrupting devices 2,300 volts and over; 36134, Fuses and fuse equipment under 2,300 volts; 36220, General industry power circuit devices and controls; 36233, Resistance welders, components, accessories, and electrodes; 36945, Other complete electrical equipment for internal combustion engines; 36992, Lamp bulb components (except blanks) and other electrical products; and, 39120, Jewelers' findings and materials.

<sup>11</sup>Includes \$9,742 thousand shipped by industry 3317, Steel Pipe and Tube; \$12,161 thousand shipped by industry 3352, Aluminum Rolling and Drawing; \$4,182 thousand by industry 3357, Nonferrous Wire Drawing; \$5,799 thousand by industry 3613, Switchgear and Switchboards; and, \$7,083 thousand shipped by industry 3643, Current Carrying Devices. In addition, the following industries each shipped \$2 million or more, but exact values are withheld to avoid disclosing individual company figures: industry 3312, Blast Furnaces and Steel Mills, and industry 3351, Copper Rolling and Drawing.

<sup>12</sup>Includes \$4,040 thousand shipped by industry 3643, Current Carrying Devices.

<sup>13</sup>Includes the following product classes each of which total \$2 million or more but are withheld to avoid disclosing individual company figures: 30692, Rubber hose and tubing; 33126, Steel pipe and tube (produced in steel mills); 33579, Other insulated wire and cable, n.e.c.; 34231, Mechanics' hand service tools; 34522, Special industrial fasteners (nonstandard); 35616, Parts and attachments for pumps, air and gas compressors, and pumping equipment; 36131, Switchgear, including power switchgear assemblies and other switching and interrupting devices 2,300 volts and over; 36423, Industrial type electric fixtures; 36623, Intercommunication equipment (except telephone and telegraph) and electric alarm and signal systems and devices; and, 37294, Receipts and development on missile parts and components, n.e.c.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | 1963   |   |                    | 1958   |   |                    |
|--------------|---|--|---|--------------------|--|---|--------------------|
|              |   | Production for all purposes<br>(1,000 bulbs) | Total shipments, including interplant transfers |                    | Production for all purposes<br>(1,000 bulbs) | Total shipments, including interplant transfers |                    |
|              |   |  | Quantity<br>(1,000 bulbs)                       | Value<br>(\$1,000) |  | Quantity<br>(1,000 bulbs)                       | Value<br>(\$1,000) |
| 3641- --     | ELECTRIC LAMPS, (BULBS).....  | (X)  | (X)   | 545,947            | (X)  | (X)   | 393,597            |
| 36410 10     | Electric lamps, except cold cathode fluorescent:<br>As reported in the census of manufactures.....                                | (X)  | (X)   | 543,565            | (X)  | (X)   | 390,386            |
|              | As reported on Census Quarterly Form M36B.....  | 3,060,337                                    | 3,017,245                                       | 550,963            | 2,321,063                                    | 2,392,320                                       | 395,577            |
|              | Photographic incandescent, total.....   | 718,226                                      | 714,568   | 63,843             | 585,529                                      | 584,617   | 49,289             |
|              | Photoflash, total <sup>1</sup> .....  | 707,623                                      | 704,284   | 47,463             | 574,920                                      | 572,768   | 37,438             |
| 36410 21     | Screw base (including blue).....  | 3,780  | 3,304   | 471                | 8,965  | 10,879  | 1,091              |
| 36410 22     | Midget (including blue).....  | 186,942                                      | 195,773   | 14,910             | 401,132                                      | 399,418   | 27,156             |
| 36410 23     | Miniature (including blue).....   | 188,877                                      | 191,393   | 12,933             | 164,823                                      | 162,470   | 9,191              |
| 36410 27     | All glass (AG-1).....   | 328,024                                      | 313,814   | 19,149             | (NA)   | (NA)  | (NA)               |
|              | Projection, total.....  | 6,349  | 6,118   | 12,368             | 4,139  | 4,885   | 8,102              |
| 36410 28     | Bulk packed.....  | 1,747  | 1,604   | 3,126              | 4,139  | 4,885   | 8,102              |
| 36410 29     | All other.....  | 4,602  | 4,514   | 9,242              |  |   |                    |
| 36410 25     | Photoflood, photo-enlarger, and other photolamps.....   | 4,254  | 4,166   | 4,012              | 6,470  | 6,964   | 3,749              |
|              | Large incandescent, except photographic and Christmas tree, total.....  | 1,253,528                                    | 1,236,303                                       | 216,547            | 1,051,675                                    | 1,085,119                                       | 165,767            |
|              | General lighting:<br>15-150 watt, 100-130 volts:  |  |   |                    |  |   |                    |
| 36410 08     | White lamps.....  | 163,129                                      | 156,171   | 20,453             | 765,538                                      | 777,200   | 79,499             |
| 36410 09     | All other.....  | 746,285                                      | 734,654   | 84,656             |  |   |                    |
| 36410 12     | Above 150 watt, 100-130 volts.....  | 62,322                                       | 61,287  | 17,728             | 57,458                                       | 61,641  | 16,911             |
| 36410 13     | 3-light, 100-130 volts.....   | 33,963                                       | 33,703  | 10,013             | 23,080                                       | 27,323  | 7,758              |
|              | Reflector, 100-130 volts, total.....  | 30,195                                       | 29,119  | 28,360             | 21,181                                       | 20,983  | 19,233             |
| 36410 14     | Par type (pressed volts).....   | 16,065                                       | 15,488  | 17,491             | 21,181                                       | 20,983  | 19,233             |
| 36410 19     | R type (blown glass).....   | 14,130                                       | 13,631  | 10,869             |  |   |                    |
| 36410 15     | Infrared (all types), 100-130 volts.....  | 5,423  | 4,363   | 4,751              | 3,400  | 3,687   | 2,477              |
| 36410 16     | Traffic and street lighting, 100-130 volts.....   | 14,392                                       | 15,448  | 5,269              | 13,141                                       | 12,359  | 4,538              |
| 36410 17     | Rough and vibration service, 100-130 volts.....   | 28,829                                       | 28,449  | 6,533              | 31,197                                       | 26,722  | 5,778              |
| 36410 18     | All other large incandescent (special purpose) <sup>2</sup> .....   | 168,981                                      | 173,109   | 38,784             | 136,680                                      | 155,204   | 29,573             |
|              | Miniature incandescent, total.....  | 674,109                                      | 653,920   | 94,390             | 391,837                                      | 415,710   | 64,618             |
|              | Automobile glass and metal sealed beams:  |  |   |                    |  |   |                    |
|              | Under 6 inches.....   | 54,489                                       | 52,618  | 31,217             | 28,161                                       | 27,467  | 17,085             |
| 36410 30     | Bulk packed.....  | 54,489                                       | 31,987  | 18,092             | 28,161                                       | 27,467  | 17,085             |
| 36410 31     | All other.....  |  | 20,631  | 13,125             |  |   |                    |
|              | 6 inches and over.....  | 24,080                                       | 22,725  | 15,989             | 24,889                                       | 26,728  | 19,108             |
| 36410 32     | Bulk packed.....  | 24,080                                       | 5,619   | 3,633              | 24,889                                       | 26,728  | 19,108             |
| 36410 37     | All other.....  |  | 17,106  | 12,356             |  |   |                    |
|              | Automobile miniature other than glass and metal sealed beams  | 414,562                                      | 405,635   | 29,099             | 226,824                                      | 236,138   | 17,755             |
| 36410 33     | Bulk packed.....  | 414,562                                      | 257,068   | 16,804             | 226,824                                      | 236,138   | 17,755             |
| 36410 36     | All other.....  |  | 148,567   | 12,295             |  |   |                    |
| 36410 34     | Flashlight.....   | 68,250                                       | 65,782  | 3,569              | 51,430                                       | 62,544  | 3,360              |
| 36410 35     | Radio panel.....  | 48,445                                       | 47,978  | 2,275              | 27,782                                       | 29,187  | 1,282              |
| 36410 39     | All other miniature <sup>3</sup> .....  | 64,283                                       | 59,182  | 12,241             | 32,751                                       | 33,646  | 6,028              |
|              | Electrical discharge (except Christmas tree), total.....  | 245,990                                      | 241,401   | 166,938            | 142,850                                      | 146,117   | 105,684            |
| 36410 41     | Germicidal, sterile, bacterial, and ozone.....  | 1,216  | 1,001   | 1,098              | 833  | 1,144   | 981                |
| 36410 42     | Sun lamps (bulbs only).....   | 428  | 391   | 1,707              | 566  | 497   | 2,423              |
|              | Fluorescent, hot cathode, total.....  | 179,041                                      | 175,180   | 139,294            | 112,519                                      | 114,769   | 88,674             |
| 36410 43     | Slimline.....   | 32,503                                       | 31,728  | 37,842             | 21,690                                       | 21,927  | 30,479             |
| 36410 46     | Circular.....   | 5,079  | 5,001   | 7,865              |  |   |                    |
| 36410 47     | High output 800 milliamp and over <sup>4</sup> .....  | 8,222  | 7,794   | 16,070             |  |   |                    |
|              | Other fluorescent:  |  |   |                    | 90,829                                       | 92,842  | 58,195             |
| 36410 44     | Below 40 watt.....  | 32,198                                       | 30,996  | 17,781             | 28,932                                       | 29,707  | 13,606             |
| 36410 45     | 40 watt and over <sup>5</sup> .....   | 101,039                                      | 99,661  | 59,736             |  |   |                    |
|              | Miscellaneous electrical discharge, total.....  | 65,305                                       | 64,829  | 24,839             | 28,932                                       | 29,707  | 13,606             |
| 36410 51     | Glow.....   | 63,013                                       | 62,644  | 5,783              | 28,079                                       | 28,798  | 2,753              |
| 36410 52     | Mercury.....  | 2,244  | 2,138   | 17,321             | 800  | 853   | 8,823              |
| 36410 53     | Sodium, photochemical and other miscellaneous discharge...  | 48   | 47  | 1,735              | 53   | 56  | 2,030              |
| 36410 55     | Christmas tree lamps (all types).....   | 168,484                                      | 171,053   | 9,245              | 149,172                                      | 160,760   | 10,216             |
| 36410 63     | Cold cathode fluorescent lamps for illumination and decoration, including custom built lamps, but excluding sign applications.... | (X)  | (X)   | 2,382              | (X)  | (X)   | 3,211              |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Value of shipments including interplant transfers (\$1,000) |                       |
|--------------|---|---|-----------------------|
|              |   | 1963  | 1958                  |
| 3642- --     | LIGHTING FIXTURES.....  | 1,116,064   | 765,413               |
|              | Electric lighting fixtures, residential type (except portable):   |   |                       |
| 36421 10     | As reported in the census of manufactures.....  | 158,799   | <sup>6</sup> 114,804  |
|              | As reported on Census Annual Form MA-36L.....   | 153,616   | (X)                   |
|              | Incandescent (excluding PAR lamp holders and floodlights):  |   |                       |
|              | Interior (including bath or kitchen):   |   |                       |
| 36421 11     | Ceiling or pendant.....   | 103,001   | 50,194                |
| 36421 13     | Wall or bracket.....  | 16,512  | 9,358                 |
|              | Outdoor:  |   |                       |
| 36421 15     | Designed for attachment to house.....   | 17,051  | } 11,929              |
| 36421 17     | Not designed for attachment to house (garden, patio, walkway, or yard lights).....  | 7,362   |                       |
| 36421 61     | Fluorescent.....  | 9,690   | 12,970                |
| 36421 00     | Electric lighting fixtures, residential type, n.s.k.....  | (X)   | <sup>6</sup> 30,353   |
|              | Electric lighting fixtures, commercial and institutional type (except spotlights):  |   |                       |
| 36422 10     | As reported in the census of manufactures.....  | 299,181   | <sup>7</sup> 168,083  |
|              | As reported on Census Annual Form MA-36L.....   | 302,366   | (X)                   |
|              | Incandescent:   |   |                       |
|              | Utilitarian type and ornamental type (except portable) (primarily for public buildings, banks, stores, office buildings, schools, auditoriums, churches, theaters, etc.): |   |                       |
| 36422 11     | Surface or pendant.....   | 27,673  | 20,848                |
| 36422 15     | Recessed.....   | 24,460  | 18,815                |
| 36422 18     | Specialized custom lighting fixtures, chandeliers, church lighting, etc. (except portable).....   | 9,017   | } 5,262               |
| 36422 19     | Other incandescent fixtures, such as interior display, portable lamps, and PAR lamp holders.....  | 20,552  |                       |
|              | Fluorescent (except portable):  |   |                       |
| 36422 51     | Recessed air handling.....  | 19,434  | } 28,895              |
| 36422 53     | Recessed nonair handling.....   | 44,506  |                       |
| 36422 54     | Striplights.....  | 33,413  |                       |
| 36422 55     | Luminous or lowered ceiling systems.....  | 11,568  | } 94,263              |
| 36422 57     | Other (such as plastic wrap around, surface and pendant type metal or plastic lowered ceiling systems, etc.).....   | 109,009   |                       |
| 36422 61     | Indoor signs, including electro-luminescence (exit, directional, etc.).....   | 2,734   | (NA)                  |
|              | Electric lighting fixtures, industrial type:  |   |                       |
| 36423 10     | As reported in the census of manufactures.....  | 76,134  | 62,393                |
|              | As reported on Census Annual Form MA-36L.....   | 77,864  | (X)                   |
|              | Incandescent:   |   |                       |
| 36423 11     | General lighting (except portable).....   | 7,639   | } 11,553              |
| 36423 15     | Other industrial types (except portable) such as explosion-proof, vapor-proof, dust-tight, etc..  | 8,665   |                       |
| 36423 21     | Portable.....   | 3,483   |                       |
|              | Fluorescent:  |   |                       |
| 36423 13     | General lighting (except portable).....   | 50,646  | } 40,880              |
| 36423 17     | Other industrial types (except portable) such as explosion-proof, vapor-proof, dust-tight, etc..  | 4,735   |                       |
| 36423 23     | Portable.....   | 586   |                       |
| 36423 14     | Mercury (general lighting).....   | 2,110   | } 9,960               |
| 36423 00     | Electric lighting fixtures, industrial type, n.s.k.....   | (X)   |                       |
|              | Vehicular lighting equipment (electric):  |   |                       |
| 36424 10     | As reported in the census of manufactures.....  | 157,390   | 105,970               |
|              | As reported on Census Annual Form MA-36L.....   | 157,426   | (X)                   |
|              | Motor vehicle lighting equipment, incandescent:   |   |                       |
|              | Spot, fog, auxiliary lighting equipment:  |   |                       |
| 36424 11     | Shipments to motor vehicle manufacturers (auto, truck, bus, trailer, etc.).....   | 5,040   | 2,968                 |
| 36424 15     | Shipments to all other customers.....   | 4,175   | 5,338                 |
|              | Other motor vehicle lighting equipment (headlight fixtures, except bulbs, parking lights, dome lights, taillights, etc.):   |   |                       |
| 36424 21     | Shipments to motor vehicle manufacturers (auto, truck, bus, trailer, etc.).....   | 124,265   | } <sup>8</sup> 79,839 |
| 36424 25     | Shipments to all other customers.....   | 8,000   |                       |
| 36424 29     | Other vehicular lighting equipment (including fluorescent fixtures, such as aircraft, watercraft, railway, locomotive railroad car, street car, etc.).....                | 15,946  | <sup>9</sup> 15,950   |
| 36424 00     | Vehicular lighting equipment, n.s.k.....  | (X)   | 1,875                 |
|              | Outdoor lighting equipment (excluding lamps):   |   |                       |
| 36425 10     | As reported in the census of manufactures.....  | 134,764   | <sup>10</sup> 76,308  |
|              | As reported on Census Annual Form MA-36L.....   | 131,547   | (X)                   |
|              | Street and highway lighting luminaries:   |   |                       |
| 36425 11     | Incandescent (filament and quartz iodine).....  | 7,456   | 12,410                |
|              | Mercury (including integrally-mounted ballasts):  |   |                       |
| 36425 13     | Open.....   | 11,859  | } 5,104               |
| 36425 14     | Closed.....   | 23,586  |                       |
| 36425 15     | All other light sources, including fluorescent.....   | 6,086   | 3,784                 |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Value of shipments including interplant transfers (\$1,000) |                      |
|--------------|---|---|----------------------|
|              |   | 1963  | 1958                 |
| 3642- --     | LIGHTING FIXTURES—Continued   |   |                      |
|              | Outdoor lighting equipment (excluding lamps)—Continued  |   |                      |
|              | Area and sports lighting luminaries:  |   |                      |
|              | Floodlights (excluding PAR lampholders) (including service stations floodlights, underwater, fountain, and swimming pool):  |   |                      |
| 36425 17     | Incandescent, filament.....   | 8,897   | } 13,245             |
| 36425 18     | Incandescent, quartz iodine.....  | 2,692   |                      |
| 36425 19     | Mercury (including integrally-mounted ballasts).....  | 8,024   |                      |
| 36425 21     | All other light sources, including fluorescent.....   | 10,707  |                      |
|              | Post top decorative area lighting fixtures (including PAR lampholders):   |   |                      |
| 36425 23     | Incandescent (filament and quartz iodine).....  | 1,490   | } 9,051              |
| 36425 25     | Mercury (including integrally-mounted ballasts).....  | 1,339   |                      |
| 36425 27     | All other light sources (including fluorescent).....  | 4,481   |                      |
|              | Poles, standards, newels, brackets, and accessories:  |   |                      |
| 36425 39     | For area and sports lighting.....   | 3,457   | } 5,191              |
| 36425 41     | For other outdoor lighting.....   | 5,191   |                      |
|              | Aviation ground lighting equipment (for fixed based airports):  |   |                      |
| 36425 31     | Runway approach lighting.....   | 2,485   | } 4,693              |
| 36425 33     | Runway (except runway approach), taxiway, and ramp lighting.....  | 1,773   |                      |
|              | Poles, standards, newels, brackets, and accessories, for street and highway lighting:   |   |                      |
| 36425 35     | Metal, concrete, and integral brackets.....   | 21,143  | } 22,304             |
| 36425 37     | Wood pole brackets.....   | 2,180   |                      |
|              | Other floodlighting and area lighting equipment:  |   |                      |
| 36425 43     | Spotlights (including indoor and stage lighting equipment but excluding vehicular spotlights).....  | 4,544   | 3,852                |
| 36425 45     | All other floodlighting and area lighting equipment.....  | 4,159   | 812                  |
| 36425 00     | Outdoor lighting equipment (excluding lamps), n.s.k.....  | (X)   | 1,053                |
| 36426 --     | Other electric and nonelectric lighting equipment (including hand portable equipment) and parts and accessories.....  | 84,683  | 68,872               |
|              | Incandescent hand portable lighting equipment, except parts:  |   |                      |
| 36426 11     | Flashlights and flashlight lanterns (one to five cells).....  | 20,063  | 13,661               |
| 36426 19     | Other, such as miners' lights, emergency warning lights, generator flashlights, etc.....  | 5,966   | 3,650                |
| 36426 21     | Other electric lighting equipment, including electrical discharge such as mercury vapor (other than street and highway lighting equipment), sodium vapor etc. excluding signs.....  | 5,315   | 3,621                |
| 36426 31     | Other incandescent electric lighting equipment including marine markers or beacons, railway and other vehicular route lighting equipment, parts and accessories such as reflectors, etc., but excluding wire devices sold separately..... | 11,054  | 8,309                |
| 36426 71     | Parts and accessories for fluorescent lighting equipment, excluding tubes, ballasts, starting switches, and lampholders, but including reflectors, etc.....   | 7,548   | 3,118                |
| 36426 75     | Other fluorescent lighting equipment, complete units, including processing and technical equipment..  | 8,815   | 2,216                |
|              | Nonelectric lighting equipment, including parts:  |   |                      |
| 36426 81     | Kerosene and gasoline lamps and lanterns.....   | 8,247   | 6,456                |
| 36426 85     | Parts and accessories for nonelectric lighting equipment, including reflectors and fittings, incandescent mantles, etc.....   | 6,160   | 7,612                |
| 36426 89     | Other nonelectric lighting fixtures and equipment, complete units, including carbide lamps of all types.....  | 3,264   | 3,454                |
| 36426 91     | Ultraviolet and infrared health lamp fixtures, excluding lamp bulbs sold separately.....  | 1,121   | 1,885                |
| 36426 00     | Other electric and nonelectric lighting equipment (including hand portable equipment) and parts and accessories, n.s.k.....   | 7,130   | 14,890               |
| 36427 --     | Residential type electric fixtures (portable only).....   | 160,188   | <sup>6</sup> 112,540 |
|              | Incandescent portable lamps, complete:  |   |                      |
|              | Complete with shade:  |   |                      |
| 36427 21     | Floor, bridge, and torch lamps.....   | 36,110  | 25,765               |
| 36427 22     | Wall lamps, including adjustable types.....   | 5,094   | 6,664                |
| 36427 23     | Table lamps.....  | 70,688  | 61,275               |
| 36427 29     | Other, including boudoir.....   | 16,004  | 12,715               |
| 36427 32     | Lamps sold without shades, including floor, bridge, table, etc.....   | 5,687   | 2,933                |
| 36427 61     | Portable lamps (desk, etc.) fluorescent.....  | 10,454  | 3,188                |
| 36427 00     | Residential type electrical fixtures (portable only), n.s.k.....  | 16,151  | ( <sup>6</sup> )     |
| 36420 00     | Lighting fixtures, n.s.k.....   | 44,925  | 56,443               |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                 |           |                 |
|--------------|---|-----------------|--|-----------------|-----------|-----------------|
|              |   |                 | 1963   |                 | 1958      |                 |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity  | Value (\$1,000) |
| 3643- --     | CURRENT CARRYING WIRING DEVICES.....  |                 | (X)  | 561,845         | (X)       | 12448,491       |
|              | Current carrying wiring devices:  |                 |  |                 |           |                 |
| 36430 00     | As reported in the census of manufactures.....  |                 | (X)  | 561,845         | (X)       | 514,921         |
|              | As reported on Census Annual Form MA-36K.....   |                 | (X)  | 533,033         | (X)       | (X)             |
|              | Lampholders, except automotive:   |                 |  |                 |           |                 |
|              | Incandescent:   |                 |  |                 |           |                 |
| 36430 01     | Brass or metal shell lampholders (excluding outlet box) all sizes.....  | 1,000 units...  | 66,876   | 10,975          | 47,751    | 6,672           |
| 36430 02     | Outlet box lampholders.....   | ..do.....       | 11,109   | 3,022           | 14,049    | 4,200           |
| 36430 03     | Other incandescent lampholders (including lumilane and weatherproof).....   | ..do.....       | 206,962  | 18,201          | 151,205   | 12,931          |
| 36430 05     | Fluorescent (all types).....  | ..do.....       | 135,270  | 12,008          | 81,928    | 7,922           |
|              | Convenience and power outlets:  |                 |  |                 |           |                 |
|              | Flush (all types, designed for mounting in outlet boxes):   |                 |  |                 |           |                 |
| 36430 11     | 15 amperes and under.....   | ..do.....       | 90,909   | 21,620          | 87,660    | 18,088          |
| 36430 13     | Over 15 amperes.....  | ..do.....       | 20,655   | 5,569           | 14,976    | 3,330           |
| 36430 17     | Appliance and special application outlets (installed generally as a component part of an electrical appliance or piece of electrical equipment).....  | ..do.....       | 18,880   | 3,134           | 13,806    | 2,864           |
| 36430 14     | Surface raceway outlets.....  | ..do.....       | 39,380   | 6,252           | 29,361    | 4,329           |
| 36430 19     | Surface (except raceway) outlets, and all other outlets (including pin and sleeve, and circuit breaking types).....   | ..do.....       |  |                 |           |                 |
| 36430 21     | Attachment plug caps, connector bodies, and motor bases, adapters, and miscellaneous current taps.....  |                 | (X)  | 26,998          | (X)       | 34,001          |
|              | Switches (except knife, time, solenoid, and automotive):  |                 |  |                 |           |                 |
| 36430 23     | Appliance and special application switches (installed generally as a component part of an electrical appliance or piece of electrical equipment--except precision snap-acting switch type)..... | 1,000 units...  | 93,497   | 58,170          | 73,558    | 43,155          |
|              | General purpose flush switches, except low voltage remote control (designed for mounting in outlet boxes):  |                 |  |                 |           |                 |
| 36430 25     | 15 amperes and under.....   | ..do.....       | 66,852   | 17,636          | 45,628    | 14,103          |
| 36430 27     | Over 15 amperes.....  | ..do.....       | 12,021   | 5,411           | 6,025     | 3,008           |
| 36430 36     | Precision (1/8" gap or less) snap-acting switches excluding limit switches.....   | ..do.....       | 43,556   | 46,083          | (X)       | (13)            |
| 36430 28     | All other (including low voltage (remote control), surface canopy, fixture, and portable lamp switches--except knife, time, solenoid, and automotive switches).....                             |                 | (X)  | 15,053          | (X)       | 8,855           |
| 36430 39     |   |                 |  |                 |           |                 |
| 36430 51     | Fluorescent starters.....   | 1,000 units...  | 78,594   | 8,374           | 66,072    | 8,789           |
| 36430 71     | Lighting arresters and choke coils for power transmission and distribution circuits and for railway signaling power circuits.....   |                 | (X)  | 25,021          | (X)       | 20,514          |
| 36430 73     | Rail bonds for both propulsion and signal circuits.....   |                 | (X)  | 1,677           | (X)       | 3,623           |
| 36430 75     | Metal contacts, precious and other.....   | Billion units.  | 4.0  | 57,239          | (NA)      | 34,201          |
|              | Wire connectors:  |                 |  |                 |           |                 |
| 36430 81     | Solderless (including industrial and service).....  | 1,000 units...  | (NA)   | 87,646          | 5,929,566 | 59,359          |
| 36430 85     | Other (including solder lugs and splicing sleeves).....   | ..do.....       | (NA)   | 44,435          | 176,074   | 57,000          |
| 36430 98     | Other current carrying wiring devices, including rosettes, etc.....   |                 | (X)  | 49,733          | (X)       | 1360,995        |
| 36430 91     | Lightning rods.....   |                 | (X)  | 4,149           | (X)       | 1440,546        |
| 36430 92     | Overhead trolley line material (except pole-line hardware and expansion shells and plugs for roof bolting in mines).....  |                 | (X)  | 4,627           |           |                 |
| 3644- --     | NONCURRENT CARRYING WIRING DEVICES.....   |                 | (X)  | 439,343         | (X)       | 341,570         |
|              | Pole-line and transmission hardware:  |                 |  |                 |           |                 |
| 36441 10     | As reported in the census of manufactures.....  |                 | (X)  | 97,901          | (X)       | 81,178          |
|              | As reported on Census Annual Form MA-36K.....   |                 | (X)  | 95,572          | (X)       | (X)             |
| 36441 01     | Pole-line hardware.....   |                 | (X)  | 74,613          | (X)       | 69,241          |
| 36441 51     | Transmission hardware high voltage porcelain products (including clamps, end fittings, strain yokes).....   |                 | (X)  | 8,563           | (X)       | 11,241          |
| 36441 00     | Pole-line and transmission hardware, n.s.k.....   |                 | (X)  | (X)             | (X)       | 696             |
|              | Electric conduit and conduit fittings:  |                 |  |                 |           |                 |
| 36442 10     | As reported in the census of manufactures.....  |                 | (X)  | 242,181         | (X)       | 201,266         |
|              | As reported on Census Annual Form MA-36K.....   |                 | (X)  | 241,472         | (X)       | (X)             |
|              | Rigid conduit (standard weight), including couplings, nipples, bends, and elbows:   |                 |  |                 |           |                 |
| 36442 21     | Steel.....  | Short tons...   | 251,265  | 66,328          | (15)      | (15)            |
| 36442 22     | Other.....  | ..do.....       | 27,527   | 19,947          | (15)      | (15)            |
|              | Electrical metallic tubing (thin wall conduit), including couplings, nipples, bends, and elbows:  |                 |  |                 |           |                 |
| 36442 23     | Steel.....  | ..do.....       | 157,512  | 42,314          | (15)      | (15)            |
| 36442 24     | Other.....  | ..do.....       |  |                 |           |                 |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                 |          |                       |
|--------------|---|-----------------|--|-----------------|----------|-----------------------|
|              |   |                 | 1963   |                 | 1958     |                       |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000)       |
| 3644- --     | NONCURRENT CARRYING WIRING DEVICES--Continued   |                 |  |                 |          |                       |
| 36442 33     | Flexible steel conduit.....   | 1,000 feet....  | 90,257   | 6,994           | 70,389   | 6,110                 |
| 36442 35     | Raceways and raceway fittings (metal).....  | .....           | (X)  | 21,886          | (X)      | 21,315                |
| 36442 36     | Other electrical conduit (including underground conduit and fittings, molding angles, molding outlet, and molding junction boxes).....  | .....           | (X)  | 11,790          | (X)      | <sup>15</sup> 116,354 |
| 36442 39     | Fittings other than those listed above (including conduit and electric metallic tubing connectors, service entrance caps and ells, insulating bushings, pothead, etc., and fittings for armored cable, nonmetallic wiring systems, and service cables)..... | .....           | (X)  | 63,457          | (X)      | 44,760                |
|              | Switch and outlet wall plates:  |                 |  |                 |          |                       |
| 36642 63     | Metal.....  | 1,000 units...  | 23,130   | 2,866           | 23,802   | 3,525                 |
| 36442 65     | Plastic.....  | ...do.....      | 96,834   | 5,890           | 52,726   | 4,045                 |
| 36642 00     | Electric conduit and conduit fittings, n.s.k.....   | .....           | (X)  | (X)             | (X)      | 5,157                 |
|              | Other noncurrent carrying wiring devices and supplies:  |                 |  |                 |          |                       |
| 36443 10     | As reported in the census of manufactures.....  | .....           | (X)  | 92,836          | (X)      | 59,126                |
|              | As reported on Census Annual Form MA-36K.....   | .....           | (X)  | 89,616          | (X)      | (X)                   |
|              | Stamped metal boxes, covers, and accessories (including clamped conduit boxes):   |                 |  |                 |          |                       |
| 36443 11     | Switch and receptical boxes.....  | 1,000 units...  | 85,254   | 15,342          | 87,113   | 16,198                |
| 36443 13     | Outlet boxes.....   | ...do.....      | 115,296  | 19,647          | 76,380   | 14,580                |
| 36443 17     | Covers and accessories (including supports and bar hangers).....  | .....           | (X)  | 6,219           | (X)      | 3,153                 |
| 36443 21     | Cast metal boxes, covers, and accessories, (including cast conduit boxes, but excluding fittings).....  | .....           | (X)  | 48,408          | (X)      | 20,984                |
| 36443 23     | Nonmetallic boxes and covers.....   | .....           | (X)  | (X)             | (X)      | 4,211                 |
| 36443 00     | Other noncurrent carrying wiring devices and supplies, n.s.k....  | .....           | (X)  | (X)             | (X)      | (X)                   |
| 36440 00     | Noncurrent carrying wiring devices, n.s.k.....  | .....           | (X)  | 6,425           | (X)      | (X)                   |

Standard Notes: -Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.s.k. Not specified by kind.

<sup>1</sup>The total shipments of photoflash lamps for 1963 includes 148.2 million blue photoflash lamps, valued at \$11,619 thousand; the comparable 1958 figures are 85.7 million blue photoflash lamps, valued at \$7,011 thousand.

<sup>2</sup>Includes lamps for special services such as sign and display lighting; aviation; street; railway; spot and flood lighting; train and country home lighting; showcase; other items for special application; and large incandescent lamps under 15 watts and other than 100-130 volts.

<sup>3</sup>Includes lamps for use in toys, pin games, medical, and dental instruments, and for special applications.

<sup>4</sup>Includes power groove VHO, SHO lamps.

<sup>5</sup>Includes pre-heat rapid starting lamps.

<sup>6</sup>In the 1958 Census of Manufactures product class 36427 was part of product class 36421. Accordingly the 1958 value for portable residential type electrical fixtures, not specified by kind, are included in product code 3642110.

<sup>7</sup>Excludes indoor signs.

<sup>8</sup>Of this total, shipments of other motor vehicle lighting equipment (such as parking lights, dome lights, taillights, etc.) to motor vehicle manufacturers accounted for \$48,863 thousand; shipments of such equipment to all other customers for \$12,493 thousand. Shipments of headlight fixtures (exclusive of bulbs) accounted for the remaining \$18,483 thousand.

<sup>9</sup>Includes \$14,020 thousand of incandescent fixtures and \$1,930 thousand of fluorescent fixtures.

<sup>10</sup>For 1958, figures probably exclude components (sold separately) and renewal parts for outdoor lighting equipment.

<sup>11</sup>Excludes ballasts.

<sup>12</sup>Differs from previously published data. Electronic connectors valued at 66,436 thousand are now included in industry 3679, Electronic Components, N.E.C., rather than this industry.

<sup>13</sup>For 1958, figures for "Precision (1/8" gap or less) snap-acting switches" are included with "Other current carrying wiring devices," product code 3643098.

<sup>14</sup>Includes current carrying wiring devices, not specified by kind.

<sup>15</sup>For 1958, data for codes 3644221, 3644222, 2644223, and 3644224 are included with code 3644236.



TABLE 6B: Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year                       | Indexes (1954 = 100) |                  |
|--------------|--|----------------------|------------------|
|              |  | Production           | Unit value       |
| 364          | Lighting and wiring devices.....1963.. | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | 1958..                                 | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 3641         | Electric lamps (bulbs only).....1963.. | 153                  | 111              |
|              | 1958..                                 | 116                  | 110              |
| 3642         | Lighting fixtures.....1963..           | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | 1958..                                 | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 3643         | Current carrying devices.....1963..    | 191                  | 116              |
|              | 1958..                                 | 169                  | 106              |
| 3644         | Noncurrent carrying devices.....1963.. | 186                  | 99               |
|              | 1958..                                 | 107                  | 112              |

<sup>1</sup>Not shown pending further review of data covering lighting fixtures (products of industry 3642).

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class   | 1963      | 1962 <sup>1</sup>    | 1961 <sup>1</sup>    | 1960 <sup>1</sup>    | 1959 <sup>1</sup>    | 1958    | 1954    | 1947    |
|-------|---|-----------|----------------------|----------------------|----------------------|----------------------|---------|---------|---------|
| 3641- | Electric lamps.....   | 545,947   | 507,931              | 485,080              | 490,413              | 470,169              | 393,597 | 309,650 | 191,706 |
| 3642- | Lighting fixtures.....                                      | 1,116,064 | 1,118,376            | 958,935              | 928,312              | 883,242              | 765,413 | 633,488 | 468,477 |
| 36421 | Residential type electric fixtures, except portables.....   | 158,799   | <sup>2</sup> 311,743 | <sup>2</sup> 247,078 | <sup>2</sup> 255,354 | <sup>2</sup> 255,959 | 114,804 | 88,529  | 54,229  |
| 36422 | Commercial and institutional type electric fixtures.....    | 299,181   | 287,956              | 260,640              | 226,799              | 187,378              | 168,083 | 119,016 | 68,443  |
| 36423 | Industrial type electric fixtures.....                      | 76,134    | 75,929               | 63,476               | 68,609               | 67,075               | 62,393  | 60,457  | 51,023  |
| 36424 | Vehicular lighting equipment, electric.....                 | 157,390   | 146,947              | 119,565              | 132,908              | 130,547              | 105,970 | 144,391 | 110,120 |
| 36425 | Outdoor lighting equipment.....                             | 134,764   | 124,343              | 97,383               | 87,819               | 83,093               | 76,308  | 52,047  | 35,649  |
| 36426 | Other electric and nonelectric lighting equipment.....      | 84,683    | 81,133               | 82,808               | 77,025               | 79,315               | 68,872  | 54,834  | 51,002  |
| 36427 | Portable lamps (residential: table, floor, wall, etc.)..... | 160,188   | ( <sup>2</sup> )     | ( <sup>2</sup> )     | ( <sup>2</sup> )     | ( <sup>2</sup> )     | 112,540 | 94,898  | 75,419  |
| 36420 | Lighting fixtures, n.s.k.....                               | 44,925    | (S)                  | (S)                  | (S)                  | (S)                  | 56,433  | 19,316  | 22,592  |
| 3643- | Current carrying devices <sup>3</sup> .....                 | 561,845   | 505,047              | 450,671              | (NA)                 | (NA)                 | 448,491 | (NA)    | (NA)    |
| 3644- | Noncurrent carrying devices.....                            | 439,343   | 381,375              | 380,832              | 366,918              | 373,926              | 341,570 | 284,066 | 205,387 |
| 36441 | Pole-line and transmission hardware.....                    | 97,901    | 82,666               | 76,109               | 65,401               | 94,096               | 81,178  | 70,915  | 57,707  |
| 36442 | Electric conduit and conduit fittings.....                  | 242,181   | 220,884              | 232,075              | 231,041              | 195,016              | 201,266 | 152,289 | 111,004 |
| 36443 | Other noncurrent carrying wiring devices and supplies.....  | 92,836    | 77,825               | 72,648               | 70,476               | 84,814               | 59,126  | 60,862  | 36,676  |
| 36440 | Noncurrent carrying devices, n.s.k.....                     | 6,425     | (X)                  | (X)                  | (X)                  | (X)                  | (X)     | (X)     | (X)     |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>2</sup>For 1959-1962, product classes 36427, Portable lamps (residential: table, floor, wall, etc.) was included with product class 36421, Residential type electric fixtures, except portable. For 1947, 1954, and 1958, the comparable product class figures have been derived from the detailed product statistics.

<sup>3</sup>This product class previously included electronic connectors but has been redefined in the 1963 Census of Manufactures to exclude this product. The value of shipments including electronic connectors are as follows: 1963, \$828,235 thousand; 1962, \$768,718 thousand; 1961, \$636,748 thousand; 1960, \$622,336 thousand; 1959, \$615,715 thousand; 1958, \$514,921 thousand; 1954, \$285,163 thousand; and 1947, \$170,266 thousand.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area                           | Value of shipments |                     | Product class and geographic area  | Value of shipments |   | Product class and geographic area                                      | Value of shipments  |      |
|---|--------------------|---------------------|--|--------------------|---|--|---------------------|------|
|   | 1963 <sup>1</sup>  | 1958                |  | 1963 <sup>1</sup>  | 1958  |  | 1963 <sup>1</sup>   | 1958 |
| RESIDENTIAL TYPE ELECTRIC FIXTURE, EXCEPT PORTABLE (36421)  | 1963 <sup>1</sup>  |                     | VEHICULAR LIGHTING EQUIPMENT ELECTRIC (36424)  | 1963 <sup>1</sup>  | 1958  | PORTABLE LAMPS RESIDENTIAL: TABLE, FLOOR, WALL, ETC. (36427)—Continued | 1963 <sup>1</sup>   |      |
| United States, total....                                    | 158,799            |                     | United States, total....   | 157,390            | 105,970   | Middle Atlantic.....   | 91,763              |      |
| New England.....  | 5,743              |                     | New England.....   | 5,497              | ( <sup>4</sup> )  | New York.....  | 42,176              |      |
| Middle Atlantic.....  | 64,164             |                     | Middle Atlantic.....   | 12,651             | 414,391   | New Jersey.....  | 17,517              |      |
| New York.....   | 19,490             |                     | North Central.....   | 134,035            | } 91,579  | Pennsylvania.....  | 32,070              |      |
| New Jersey.....   | 13,625             |                     | Ohio.....  | 16,670             |   | North Central.....   | 40,540              |      |
| Pennsylvania.....   | 31,049             |                     | Illinois.....  | 10,350             |   | Ohio.....  | 7,145               |      |
| East North Central.....                                     | 42,040             |                     | South and West.....  | 5,207              | Illinois.....   | 28,453   |                     |      |
| Ohio.....   | 11,001             |                     | OUTDOOR LIGHTING EQUIPMENT (36425)   |                    | South.....  | 8,999  |                     |      |
| Illinois.....   | 23,168             |                     | United States, total....   | 134,764            | Texas.....  | 1,454  |                     |      |
| West North Central.....                                     | 22,368             |                     | New England.....   | 1,979              | Pacific.....  | 16,405   |                     |      |
| South.....  | 19,199             |                     | Massachusetts.....   | 1,460              | CURRENT CARRYING WIRING DEVICES, INCLUDING LIGHTNING RODS (36430) | 1963 <sup>1</sup>  | 1958                |      |
| Georgia.....  | 1,018              |                     | Middle Atlantic.....   | 27,975             | United States, total....  | 561,845  | 448,491             |      |
| West.....   | 25,285             |                     | New York.....  | 10,693             | New England.....  | 158,125  | 125,815             |      |
| COMMERCIAL AND INSTITUTIONAL TYPE ELECTRIC FIXTURES (36422) | 1963 <sup>1</sup>  | 1958                | New Jersey.....  | 11,815             | Massachusetts.....  | 48,293   | 38,408              |      |
| United States, total....                                    | 299,181            | 168,083             | Pennsylvania.....  | 5,467              | Connecticut.....  | 77,571   | 64,417              |      |
| New England.....  | 15,440             | 7,660               | East North Central.....  | 53,469             | Middle Atlantic.....  | 189,678  | 158,227             |      |
| Massachusetts.....  | 10,725             | ( <sup>2</sup> )    | Ohio.....  | 23,524             | New York.....   | 92,745   | 89,609              |      |
| Middle Atlantic.....  | 87,104             | 44,168              | Illinois.....  | 21,062             | New Jersey.....   | 49,284   | 35,443              |      |
| New York.....   | 38,032             | 19,092              | West North Central.....  | 2,502              | Pennsylvania.....   | 47,649   | 33,175              |      |
| New Jersey.....   | 23,320             | 8,782               | South.....   | 37,859             | East North Central.....   | 151,166  | 101,098             |      |
| Pennsylvania.....   | 25,752             | 16,094              | Texas.....   | 5,594              | Ohio.....   | 32,144   | 19,845              |      |
| East North Central.....                                     | 66,663             | <sup>2</sup> 58,528 | West.....  | 10,980             | Indiana.....  | 24,781   | 15,396              |      |
| Ohio.....   | 23,536             | 16,417              | OTHER ELECTRIC AND NON-ELECTRIC LIGHTING EQUIPMENT (INCLUDING HAND PORTABLE EQUIPMENT) AND PARTS AND ACCESSORIES (36426) |                    | Illinois.....   | 73,563   | 54,766              |      |
| Illinois.....   | 28,082             | 23,447              | United States, total....   | 84,683             | Missouri.....   | 18,242   | 16,286              |      |
| Michigan.....   | 7,821              | 3,320               | New England.....   | 19,523             | South.....  | 16,528   | 4,872               |      |
| West North Central.....                                     | 16,903             | <sup>3</sup> 11,886 | Massachusetts.....   | 9,551              | West.....   | 16,393   | 41,699              |      |
| South Atlantic.....   | 29,602             | } 20,935            | Middle Atlantic.....   | 24,080             | California.....   | 15,828   | 40,990              |      |
| East South Central.....                                     | 28,740             |                     | New York.....  | 10,864             | POLE-LINE AND TRANSMISSION HARDWARE (36441)                       |  |                     |      |
| West South Central.....                                     | 6,157              |                     | New Jersey.....  | 5,950              | United States, total....  | 97,901   | 81,178              |      |
| West.....   | 48,572             | 36,792              | Pennsylvania.....  | 7,266              | Northeast.....  | 18,680   | 24,035              |      |
| INDUSTRIAL TYPE ELECTRIC FIXTURES (36423)                   |                    |                     | East North Central.....  | 22,545             | New York.....   | 10,320   | 7,992               |      |
| United States, total....                                    | 76,134             | 62,393              | Ohio.....  | 4,823              | North Central.....  | 56,624   | 42,270              |      |
| New England.....  | 4,053              | 3,653               | Indiana.....   | 4,703              | Illinois.....   | 26,465   | 21,032              |      |
| Middle Atlantic.....  | 18,041             | 19,773              | Illinois.....  | 11,404             | South.....  | 13,263   | 7,119               |      |
| New York.....   | 7,847              | 9,994               | West North Central.....  | 8,057              | Pacific.....  | 9,334  | 7,754               |      |
| New Jersey.....   | 4,368              | 3,589               | South.....   | 2,406              | ELECTRIC CONDUIT AND CONDUIT FITTINGS (36442)                     |  |                     |      |
| Pennsylvania.....   | 5,826              | 6,190               | West.....  | 8,072              | United States, total....  | 242,181  | 201,266             |      |
| East North Central.....                                     | 28,687             | <sup>3</sup> 16,533 | PORTABLE LAMPS RESIDENTIAL: TABLE, FLOOR, WALL, ETC. (36427)   |                    | New England.....  | 15,345   | 12,835              |      |
| Ohio.....   | 13,577             | 3,161               | United States, total....   |                    | Connecticut.....  | 12,767   | 9,798               |      |
| Illinois.....   | 14,179             | 8,826               |  | 160,188            | Middle Atlantic.....  | 103,065  | 110,248             |      |
| West North Central.....                                     | 1,916              | ( <sup>3</sup> )    |  |                    | Pennsylvania.....   | 56,136   | 77,870              |      |
| Missouri.....   | 1,916              | 3,056               |  |                    | East North Central.....   | 73,075   | <sup>3</sup> 28,869 |      |
| South.....  | 16,717             | 11,147              |  |                    | Ohio.....   | 20,574   | 3,738               |      |
| West.....   | 6,720              | 11,287              |  |                    |   |  |                     |      |
| California.....   | 6,079              | 10,595              |  |                    |   |  |                     |      |

See footnotes at end of table.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area                       | Value of shipments |                  | Product class and geographic area                             | Value of shipments |                     | Product class and geographic area                                       | Value of shipments |                     |
|---|--------------------|------------------|---|--------------------|---------------------|---|--------------------|---------------------|
|   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958                |   | 1963 <sup>1</sup>  | 1958                |
| ELECTRIC CONDUIT AND CONDUIT FITTINGS (36442)—Continued |                    |                  | OTHER NONCURRENT CARRYING WIRING DEVICES AND SUPPLIES (36443) |                    |                     | OTHER NONCURRENT CARRYING WIRING DEVICES AND SUPPLIES (36443)—Continued |                    |                     |
| East North Central—Continued                            |                    |                  | United States, total....                                      | 92,836             | 59,126              | East North Central.....   | 29,962             | <sup>3</sup> 19,576 |
| Indiana.....  | 10,069             | (Z)              | New England.....  | 1,919              | ( <sup>4</sup> )    | Illinois.....   | 13,658             | 10,139              |
| Illinois.....   | 36,564             | 21,619           | Connecticut.....  | 1,316              | (Z)                 | Wisconsin.....  | 3,079              | ( <sup>2</sup> )    |
| Michigan.....   | 5,868              | (Z)              | Middle Atlantic.....  | 37,570             | <sup>4</sup> 32,430 | West North Central.....   | 6,003              | ( <sup>3</sup> )    |
| West North Central.....                                 | 5,433              | ( <sup>3</sup> ) | New York.....   | 21,269             | 18,270              | South.....  | 5,085              | 2,537               |
| South.....  | 30,561             | 37,769           | New Jersey.....   | 1,905              | 2,022               | West.....   | 12,297             | 4,583               |
| Pacific.....  | 14,702             | 11,545           | Pennsylvania.....   | 14,396             | 11,177              |   |                    |                     |

NA Not available.

Z Less than \$1 million.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the states listed but the exact figures are withheld to avoid disclosing individual company figures: 36,421, Massachusetts, Michigan, Wisconsin, Missouri, Kentucky, Tennessee, Arkansas, Texas and California; 36,422, Rhode Island, Connecticut, Indiana, Wisconsin, Missouri, Delaware, West Virginia, Georgia, Florida, Kentucky, Mississippi, Arkansas, Texas, Colorado, Washington, and California; 36,423, Massachusetts, West Virginia, Georgia, Kentucky, Mississippi, and California; 36,424, Massachusetts, Connecticut, New York, Indiana, Michigan, Missouri, Delaware, Florida, and Washington; 36,425, Wisconsin, Missouri, Virginia, North Carolina, Tennessee, Utah, and California; 36,426, Vermont, Connecticut, Missouri, Kansas, Washington, and California; 36,427, Missouri, Kentucky, Mississippi and California; 36,430, Maine, Rhode Island, Michigan, Wisconsin, Minnesota, North Carolina, and Alabama; 36,441, Connecticut, Pennsylvania, Ohio, Michigan, Missouri, and Texas; 36,442, Massachusetts, New York, New Jersey, Missouri, Maryland, West Virginia, Georgia, Kentucky, Texas, and California; 36,443, Indiana, Michigan, Minnesota, and West Virginia.

<sup>2</sup>Totaled \$1 million or more but exact figure is withheld to avoid disclosing figures for individual companies.

<sup>3</sup>In 1958 West North Central was combined with East North Central.

<sup>4</sup>In 1958 New England was combined with Middle Atlantic.

<sup>5</sup>In 1958 New England and South were combined with West.

TABLE 7A. Materials by Kind: 1963 and 1958

| Code                                    | Material  | Unit of measure                     | 1963     |                             | 1958     |                             |      |
|---|---|-------------------------------------|----------|-----------------------------|----------|-----------------------------|------|
|   |   |                                     | Quantity | Delivered cost<br>(\$1,000) | Quantity | Delivered cost<br>(\$1,000) |      |
| INDUSTRY 3641.—ELECTRIC LAMPS           |   |                                     |          |                             |          |                             |      |
|   | MATERIALS, COMPONENTS, PARTS, CONTAINERS AND SUPPLIES, TOTAL...   |                                     | (X)      | 183,990                     | (X)      | 125,355                     |      |
|   | Mill shapes and forms (except castings):  |                                     |          |                             |          |                             |      |
|   | Copper and copper-base alloy:   |                                     |          |                             |          |                             |      |
| 335102                                  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....  | 1,000 lbs.....                      | 1,360    | 1,432                       | (NA)     | (NA)                        |      |
| 335123                                  | Plate, sheet, and strip, including military cups and discs.....   | ..do.....                           |          | (D)                         | (D)      | (NA)                        | (NA) |
| 335728                                  | Barewire (for electrical conduction only).....  | ..do.....                           |          | (D)                         | (D)      | (NA)                        | (NA) |
| 335790                                  | Insulated wire and cable.....   | ..do.....                           |          | (D)                         | (D)      | (NA)                        | (NA) |
|   | Aluminum and aluminum-base alloy:   |                                     |          |                             |          |                             |      |
| 335202                                  | Sheet, plate and foil.....  | ..do.....                           | (D)      | (D)                         | (NA)     | (NA)                        |      |
| 335205                                  | Extruded shapes, including extruded rod, bar, pipe, tube, etc..   | ..do.....                           | (D)      | (D)                         | (NA)     | (NA)                        |      |
| 335209                                  | All other aluminum mill shapes and forms (wire rolled rod and bar, powder, welded tubing, etc.).....  | ..do.....                           | (D)      | (D)                         | (NA)     | (NA)                        |      |
| 260091                                  | Paper and paperboard containers.....  | ..do.....                           | (X)      | 15,495                      | (X)      | 11,000                      |      |
| 970099                                  | All other materials, parts, containers and supplies consumed.....   | ..do.....                           | (X)      | 161,341                     | (X)      | 114,355                     |      |
| 973000                                  | Materials, parts, containers and supplies, n.s.k. <sup>2</sup> .....  | ..do.....                           | (X)      | 5,722                       | (X)      | 5,722                       |      |
| INDUSTRY 3642.—LIGHTING FIXTURES        |   |                                     |          |                             |          |                             |      |
|   | MATERIALS, COMPONENTS, PARTS, CONTAINERS AND SUPPLIES, TOTAL...   |                                     | (X)      | 538,801                     | (X)      | 379,170                     |      |
|   | Mill shapes and forms (except castings):  |                                     |          |                             |          |                             |      |
|   | Carbon steel:   |                                     |          |                             |          |                             |      |
| 331011                                  | Bars and bar shapes.....  | Short tons.....                     | 4,118    | 876                         | 8,464    | 1,351                       |      |
| 331012                                  | Sheet and strip.....  | ..do.....                           | 247,732  | 39,515                      | 204,006  | 33,138                      |      |
| 331017                                  | Wire and wire products.....   | ..do.....                           | 3,609    | 1,059                       | 8,803    | 2,319                       |      |
| 331015                                  | Structural shapes.....  | ..do.....                           | 4,327    | 899                         | 10,128   | 2,033                       |      |
| 331013                                  | Plates.....   | ..do.....                           | 32,212   | 3,699                       | 23,104   | 3,762                       |      |
| 331019                                  | All other carbon steel mill shapes and forms.....   | ..do.....                           | 21,628   | 4,312                       |          |                             |      |
|   | Alloy steel (except stainless):   |                                     |          |                             |          |                             |      |
| 331021                                  | Bars and bar shapes.....  | ..do.....                           | 154      | 216                         | 945      | 331                         |      |
| 331029                                  | All other alloy steel mill shapes and forms.....  | ..do.....                           | 5,746    | 3,091                       | 2,972    | 1,351                       |      |
| 331031                                  | Stainless steel.....  | ..do.....                           | 2,219    | 2,228                       | 1,351    | 1,453                       |      |
|   | Copper and copper-base alloy:   |                                     |          |                             |          |                             |      |
| 335728                                  | Bare wire (for electrical conduction).....  | 1,000 lbs.....                      | 2,688    | 1,526                       | 566      | 323                         |      |
| 335790                                  | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content)..... | 10,087   | 6,674                       | 4,409    | 4,261                       |      |
| 335102                                  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....  | 1,000 lbs.....                      |          |                             |          |                             |      |
| 335123                                  | Plate, sheet and strip, including military cups and discs.....  | ..do.....                           |          |                             |          |                             |      |
| 335127                                  | Pipes and tubes.....  | ..do.....                           | 2,530    | 2,210                       | 9,161    | 5,072                       |      |
|   | Aluminum and aluminum-base alloy:   |                                     |          |                             |          |                             |      |
| 335202                                  | Sheet plate and foil.....   | ..do.....                           | 21,341   | 10,619                      | 12,371   | 6,718                       |      |
| 335205                                  | Extruded shapes including extruded rod, bar, pipe, tube, etc..  | ..do.....                           | 10,044   | 4,937                       | 10,059   | 5,459                       |      |
| 335209                                  | All other aluminum mill shapes and forms (wired, rolled and bar, powder, welded tubing, etc.).....  | ..do.....                           | 2,281    | 1,165                       |          |                             |      |
| 333401                                  | Aluminum and aluminum-base alloy refinery shapes.....   | Short tons.....                     | 4,755    | 2,332                       | 1,100    | 636                         |      |
|   | Castings (rough and semifinished): <sup>3</sup>   |                                     |          |                             |          |                             |      |
| 332011                                  | Iron (gray and malleable).....  | ..do.....                           | 5,227    | 1,937                       | 4,421    | 1,369                       |      |
| 332300                                  | Steel.....  | ..do.....                           | 3,025    | 1,889                       | 3,371    | 1,886                       |      |
| 336100                                  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                      | 7,687    | 5,880                       | 7,735    | 5,567                       |      |
| 336200                                  | Copper and copper-base alloy.....   | ..do.....                           | 1,780    | 1,558                       | 699      | 549                         |      |
| 282130                                  | Thermoplastic resins, including modified resins (includes resin content of vinyls and dry bases for cellulose, polyethylenes, polypropylenes, styrenes, etc. Includes granules, pellets, powder, liquid, etc., and excludes sheets, rods, tubes and other shapes).. | 1,000 lbs. (dry basis).....         | 12,218   | 5,536                       | (NA)     | (NA)                        |      |
| 282140                                  | Thermosetting resins (melamines, phenolics, polyesters, ureas, etc.). Includes granules, pellets, powder, liquid, etc. and excludes sheets, rods, tubes, and other shapes.....  | ..do.....                           | 3,741    | 1,519                       | (NA)     | (NA)                        |      |
| 970099                                  | All other materials and components, parts, containers, and supplies consumed.....   | ..do.....                           | (X)      | 308,101                     | (X)      | 219,752                     |      |
| 973000                                  | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....   | ..do.....                           | (X)      | 123,018                     | (X)      | 81,840                      |      |
| INDUSTRY 3643.—CURRENT CARRYING DEVICES |   |                                     |          |                             |          |                             |      |
|   | MATERIALS, COMPONENTS, PARTS, CONTAINERS AND SUPPLIES, TOTAL...   |                                     | (X)      | 225,474                     | (X)      | 171,983                     |      |
|   | Mill shapes and forms (except casting):   |                                     |          |                             |          |                             |      |
|   | Carbon steel:   |                                     |          |                             |          |                             |      |
| 331011                                  | Bars and bar shapes.....  | Short tons.....                     | 1,616    | 804                         | 619      | 143                         |      |
| 331012                                  | Sheet and strip.....  | ..do.....                           | 17,000   | 3,721                       | 13,935   | 3,465                       |      |
| 331017                                  | Wire and wire products.....   | ..do.....                           | 5,681    | 2,398                       | 7,787    | 2,437                       |      |
| 331019                                  | All other carbon steel mill shapes and forms.....   | ..do.....                           | 1,534    | 408                         | 1,745    | 365                         |      |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material   | Unit of measure                     | 1963     |                          | 1958             |                          |
|---|--|-------------------------------------|----------|--------------------------|------------------|--------------------------|
|   |  |                                     | Quantity | Delivered cost (\$1,000) | Quantity         | Delivered cost (\$1,000) |
| INDUSTRY 3643.—CURRENT CARRYING DEVICES—Continued               |  |                                     |          |                          |                  |                          |
| Mill shapes and forms (except casting)—Continued                |  |                                     |          |                          |                  |                          |
| 331020  | Alloy steel (except stainless).....  | ...do.....                          | 6,645    | 2,699                    | 1,111            | 418                      |
| 331031  | Stainless steel.....   | ...do.....                          | 781      | 972                      | 492              | 563                      |
| Copper and copper-base alloy:                                   |  |                                     |          |                          |                  |                          |
| 335728  | Bare wire (for electrical conduction).....   | 1,000 lbs.....                      | 5,513    | 2,659                    | 3,490            | 1,549                    |
| 335790  | Insulated wire and cable.....  | 1,000 lbs.<br>(copper content)..... | 12,037   | 5,791                    | 4,438            | 3,698                    |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....   | 1,000 lbs.....                      | 13,315   | 6,910                    | 28,289           | 16,505                   |
| 335123  | Plate, sheet, and strip including military cups and discs.....   | ...do.....                          | 25,823   | 18,179                   |                  |                          |
| 335127  | Pipe and tube.....   | ...do.....                          | 4,242    | 2,628                    |                  |                          |
| Aluminum and aluminum-base alloy:                               |  |                                     |          |                          |                  |                          |
| 335202  | Sheet, plate and foil.....   | ...do.....                          | 4,401    | 1,868                    | 2,810            | 1,675                    |
| 335205  | Extruded shapes (including extruded rod, bar, pipe tube, etc.)   | ...do.....                          | 3,186    | 1,293                    |                  |                          |
| 335209  | All other aluminum mill shapes and form (wire, rolled rod and bar welded tubing, etc.).....  | ...do.....                          | 3,919    | 2,389                    |                  |                          |
| Refinery shapes:  |  |                                     |          |                          |                  |                          |
| 333122  | Copper and copper-base alloy.....  | Short tons.....                     | 2,335    | 1,595                    | 4,428            | 2,760                    |
| 333401  | Aluminum and aluminum-base alloy.....  | ...do.....                          | 463      | 271                      | 505              | 242                      |
| 333348  | Zinc and zinc-base alloy.....  | ...do.....                          | 395      | 174                      | (NA)             | (NA)                     |
| Scrap:  |  |                                     |          |                          |                  |                          |
| 999812  | Copper and copper-base alloy.....  | ...do.....                          | (D)      | (D)                      | 1,311            | 660                      |
| 999808  | Aluminum and aluminum-base alloy.....  | ...do.....                          | (D)      | (D)                      | 2,209            | 550                      |
| Casting (rough and semifinished): <sup>3</sup>                  |  |                                     |          |                          |                  |                          |
| 332011  | Iron (gray and malleable).....   | ...do.....                          | 467      | 310                      | 482              | 311                      |
| 336100  | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....                      | 2,788    | 2,277                    | 1,362            | 1,265                    |
| 336200  | Copper and copper-base alloy.....  | ...do.....                          | 2,418    | 2,051                    | 3,050            | 2,211                    |
| 367408  | Solid state semi-conductors.....   | 1,000 units.....                    | 1,658    | 378                      | (NA)             | (NA)                     |
| 282130  | Thermoplastic resins, including modified resins (includes resin content of vinyls and dry bases for cellulose, polyethylenes, polypropylenes, styrenes, etc. Includes granules, pellets, powder, liquid, etc., and excludes sheets, rods, tubes and other shapes)..... | 1,000 lbs. (dry basis).....         | 21,019   | 6,286                    | (NA)             | 14,000                   |
| 282140  | Thermosetting resins (melamines, phenolics, polyesters, ureas, etc.) Includes granules, pellets, powder, liquid, etc. and excludes sheets, rods, tubes, and other shapes.....  | ...do.....                          | 8,791    | 5,318                    |                  |                          |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....  | .....                               | (X)      | 105,796                  | (X)              | 91,176                   |
| 973000  | Materials, parts, containers and supplies, n.s.k. <sup>2</sup> .....   | .....                               | (X)      | 48,299                   | (X)              | 26,959                   |
| INDUSTRY 3644.—NONCURRENT CARRYING DEVICES                      |  |                                     |          |                          |                  |                          |
| MATERIALS, COMPONENTS, PARTS, CONTAINERS AND SUPPLIES, TOTAL... |  |                                     | -        | 203,364                  | -                | 167,761                  |
| Mill shapes and forms (except castings):                        |  |                                     |          |                          |                  |                          |
| Carbon steel:   |  |                                     |          |                          |                  |                          |
| 331011  | Bar and bar shapes.....  | Short tons.....                     | 81,101   | 12,428                   | 85,529           | 12,332                   |
| 331012  | Sheet and strip.....   | ...do.....                          | 238,792  | 34,130                   | 166,654          | 25,544                   |
| 331017  | Wire and wire products.....  | ...do.....                          | 7,217    | 1,748                    | 2,530            | 759                      |
| 331019  | All other carbon steel mill shapes and forms.....  | ...do.....                          | 187,249  | 31,579                   | 176,965          | 32,411                   |
| 331020  | Alloy steel (except stainless).....  | ...do.....                          | 4,013    | 1,205                    | 1,452            | 511                      |
| 331031  | Stainless steel.....   | ...do.....                          |          |                          | 443              | 713                      |
| Copper and copper-base alloy:                                   |  |                                     |          |                          |                  |                          |
| 335728  | Bare wire (for electrical conduction).....   | 1,000 lbs.....                      | (D)      | (D)                      | ( <sup>4</sup> ) | 9,219                    |
| 335790  | Insulated wire and cable.....  | 1,000 lbs.<br>(copper content)..... | 345      | 137                      | ( <sup>4</sup> ) |                          |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....   | 1,000 lbs.....                      | 1,405    | 864                      | 4,450            | 2,506                    |
| 335123  | Plate, sheet, and strip, including military cups and discs.....  | ...do.....                          | 2,320    | 1,186                    |                  |                          |
| 335127  | Pipe and tube.....   | ...do.....                          | 1,053    | 2,341                    |                  |                          |
| Aluminum and aluminum-base alloy:                               |  |                                     |          |                          |                  |                          |
| 335202  | Sheet, plate and foil.....   | ...do.....                          | 2,360    | 841                      | 1,823            | 1,059                    |
| 335205  | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)  | ...do.....                          | 8,816    | 3,655                    | 4,896            | 2,613                    |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....  | ...do.....                          |          |                          |                  |                          |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | Unit of measure             | 1963     |                          | 1958     |                          |
|--|---|-----------------------------|----------|--------------------------|----------|--------------------------|
|  |   |                             | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3644.—NONCURRENT CARRYING DEVICES—Continued |   |                             |          |                          |          |                          |
|  | Refinery shapes:  |                             |          |                          |          |                          |
| 331051   | Pig iron.....   | Short tons.....             | (NA)     | (NA)                     | 8,703    | 537                      |
| 333122   | Copper and copper-base alloy.....   | ...do.....                  | 3,139    | 2,014                    | 1,551    | 906                      |
| 333401   | Aluminum and aluminum-base alloy.....   | ...do.....                  | 2,151    | 1,103                    | 1,514    | 728                      |
| 333348   | Zinc and zinc-base alloy.....   | ...do.....                  | 13,344   | 3,563                    | 13,489   | 2,983                    |
| 999808   | Aluminum and aluminum-base alloy scrap (purchased only).....  | ...do.....                  | (D)      | (D)                      | 804      | 436                      |
|  | Castings (rough and semifinished): <sup>3</sup>   |                             |          |                          |          |                          |
| 332011   | Iron (gray and malleable) <sup>3</sup> .....  | ...do.....                  | 21,704   | 10,050                   | 16,719   | 7,953                    |
| 336100   | Aluminum and aluminum-base alloy <sup>5</sup> .....   | 1,000 lbs.....              | 5,527    | 3,754                    | 5,137    | 3,567                    |
| 336200   | Copper and copper-base alloy <sup>3</sup> .....   | ...do.....                  | 1,193    | 1,066                    | 994      | 789                      |
| 282130   | Thermoplastic resins, including modified resins (includes resin content of vinyls and dry bases for cellulose, polyethylenes, polypropylenes, styrenes, etc. Includes granules, pellets, powder, liquid, etc., and excludes sheets, rods, tubes and other shapes).. | 1,000 lbs, (dry basis)..... | 2,369    | 721                      | (NA)     | (NA)                     |
| 282140   | Thermosetting resins (melamines, phenolics, polyesters, ureas, etc.). Includes granules, pellets, powder, liquid, etc. and excludes sheets, rods, tubes, and other shapes.....  | ...do.....                  | 895      | 1,584                    | (NA)     | (NA)                     |
| 970009   | All other materials and components, parts, containers, and supplies consumed.....   | .....                       | (X)      | 77,677                   | (X)      | 59,588                   |
| 973000   | Materials, parts, containers and supplies, n.s.k. <sup>2</sup> .....  | .....                       | (X)      | 11,718                   | (X)      | 2,607                    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

<sup>1</sup>Represent estimates published in MC58(1)-7 (Supplement) "Selected Materials Consumed" from data collected in a supplemental survey on Form MA-131 "Consumption of Materials, Parts, Containers, and Supplies During 1958." This survey was limited to large establishments in selected chemical, machinery and equipment industries and produced data which are subject to greater qualification than those collected in the census of manufacturers itself.

<sup>2</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

<sup>3</sup>Does not include castings produced and consumed in the same establishment.

<sup>4</sup>Quantity is not available for bare wire. However, between 1,000 and 1,500 thousand pounds of insulated wire and cable were consumed by industry 3644.

<sup>5</sup>The quantities of aluminum and aluminum-base alloy castings produced for incorporation into other items produced at the same establishment cannot be published. The 1958 figure was 3,082 thousand pounds.



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item   | Electric lamps<br>(SIC 3641) | Lighting fixtures<br>(SIC 3642) | Current carrying devices<br>(SIC 3643) | Noncurrent carrying devices<br>(SIC 3644) |
|--|------------------------------|---------------------------------|--|---|
| Total cost of purchased fuels and electric energy.....\$1,000..  | 4,575                        | 9,001                           | 5,295                                  | 5,134                                     |
| Total cost of purchased fuels.....do....   | 1,805                        | 3,781                           | 1,856                                  | 2,538                                     |
| Bituminous coal, lignite, and anthracite:  |                              |                                 |  |   |
| Quantity.....1,000 short tons..  | (S)                          | 84                              | (S)                                    | 32  |
| Cost.....\$1,000..   | (S)                          | 581                             | (S)                                    | 253                                       |
| Coke and breeze:   |                              |                                 |  |   |
| Quantity.....1,000 short tons..  | -                            | (S)                             | -                                      | (S)                                       |
| Cost.....\$1,000..   | -                            | (S)                             | -                                      | (S)                                       |
| Fuel oil (distillate and residual):  |                              |                                 |  |   |
| Quantity.....1,000 barrels of 42 gallons..   | 96                           | 202                             | 293                                    | 214                                       |
| Cost.....\$1,000..   | 260                          | 768                             | 1,104                                  | 820                                       |
| Gas (natural, manufactured, still, blast furnace,<br>and coke oven):   |                              |                                 |  |   |
| Quantity.....million cu.ft..   | 2,290                        | 2,731                           | 618                                    | 1,448                                     |
| Cost.....\$1,000..   | 1,445                        | 1,754                           | 413                                    | 994                                       |
| Other fuels.....do....   | 85                           | 669                             | 280                                    | 197                                       |
| Electric energy:   |                              |                                 |  |   |
| Purchased:   |                              |                                 |  |   |
| Quantity.....million kw.-hrs..   | 232                          | 355                             | 217                                    | 174                                       |
| Cost.....\$1,000..   | 2,770                        | 5,220                           | 3,439                                  | 2,596                                     |
| Generated less sold.....million kw.-hrs..  | -                            | -                               | -                                      | -   |
| Aggregate horsepower of prime movers and electric motors<br>driven by purchased energy (December 31), total.....1,000 hp.. | 67                           | 172                             | 71                                     | 115                                       |
| Prime movers, total.....do....   | 3                            | 9                               | 2                                      | 7   |
| Driving generators.....do....  | (Z)                          | 2                               | 1                                      | 1   |
| Not driving generators.....do....  | 3                            | 7                               | 1                                      | 6   |
| Electric motors, total.....do....  | 64                           | 163                             | 70                                     | 107                                       |
| Driven by purchased energy.....do....  | 64                           | 163                             | 70                                     | 107                                       |
| Driven by energy generated at establishment.....do....   | -                            | -                               | -                                      | -   |
| Aggregate horsepower per 100 production workers.....   | 356                          | 418                             | 195                                    | 758                                       |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3642-                          | LIGHTING FIXTURES  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 1,239                   | 53,866         | 288,148           | 42,052             | 83,284            | 193,464         | 587,834  | 578,062                     | 1,159,497                    | 23,072                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 1,145                   | 41,111         | 208,722           | 32,194             | 63,043            | 138,515         | 438,925  | 470,202                     | 905,155                      | 14,721                              |
|                                | 75-89% specialization.....   | 33                      | 7,747          | 54,288            | 5,918              | 12,604            | 38,173          | 103,080  | 73,022                      | 174,806                      | 5,888                               |
| 36421                          | Residential type electric fixtures, except portable (primary product class of estab.).....   | 154                     | 8,007          | 42,711            | 6,232              | 12,380            | 27,960          | 87,474   | 93,032                      | 180,292                      | 1,720                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 109                     | 4,764          | 24,628            | 3,743              | 7,467             | 16,465          | 43,823   | 54,208                      | 97,544                       | 1,022                               |
|                                | 75-89% specialization.....   | 15                      | 576            | 3,124             | 442                | 831               | 1,912           | 5,090  | 6,110                       | 11,434                       | 89                                  |
| 36422                          | Commercial and institutional type electric fixtures (primary product class of estab.).....   | 182                     | 13,304         | 72,232            | 10,189             | 20,071            | 47,258          | 157,191  | 168,634                     | 325,297                      | 5,465                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 103                     | 6,328          | 34,316            | 4,880              | 9,566             | 23,125          | 68,338   | 73,043                      | 141,271                      | 2,381                               |
|                                | 75-89% specialization.....   | 31                      | 1,741          | 9,081             | 1,279              | 2,512             | 5,506           | 22,738   | 29,230                      | 51,502                       | 774                                 |
| 36423                          | Industrial type electric fixtures (primary product class of estab.)  | 34                      | 1,492          | 6,991             | 1,138              | 2,288             | 4,720           | 13,587   | 16,624                      | 30,523                       | 1,184                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 19                      | 699            | 3,100             | 525                | 1,008             | 2,128           | 6,228  | 6,976                       | 13,404                       | 835                                 |
| 36424                          | Vehicular lighting equipment, electric (primary product class of estab.).....  | 24                      | 9,029          | 57,714            | 7,158              | 14,810            | 42,017          | 111,286  | 72,484                      | 181,329                      | 6,279                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 15                      | 2,603          | 13,126            | 2,022              | 3,966             | 9,039           | 23,752   | 18,973                      | 42,264                       | 512                                 |
| 36425                          | Outdoor lighting equipment (primary product class of estab.)....   | 53                      | 4,761          | 29,588            | 3,395              | 7,016             | 17,680          | 66,122   | 68,025                      | 133,764                      | 3,108                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 32                      | 2,535          | 14,260            | 1,942              | 3,991             | 8,949           | 37,811   | 39,605                      | 77,492                       | 1,978                               |
|                                | 75-89% specialization.....   | 8                       | 1,309          | 9,082             | 789                | 1,614             | 4,714           | 15,982   | 17,175                      | 32,747                       | 560                                 |
| 36426                          | Other electric and nonelectric lighting equipment (including hand portable equipment) and parts and accessories (primary product class of estab.)..... | 119                     | 4,419          | 21,871            | 3,495              | 6,744             | 14,624          | 39,830   | 36,925                      | 75,915                       | 2,012                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 82                      | 1,743          | 8,338             | 1,360              | 2,686             | 5,365           | 15,172   | 18,178                      | 33,014                       | 1,016                               |
|                                | 75-89% specialization.....   | 13                      | 810            | 4,398             | 644                | 1,233             | 2,903           | 9,132  | 6,103                       | 15,398                       | 444                                 |
| 36427                          | Portable lamps (residential: table, floor, wall, etc.) (primary product class of estab.)....   | 353                     | 9,240          | 39,758            | 7,668              | 14,637            | 27,354          | 77,689   | 88,238                      | 165,112                      | 1,679                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 320                     | 7,397          | 32,168            | 6,070              | 11,613            | 21,738          | 64,058   | 73,678                      | 137,430                      | 1,336                               |
|                                | 75-89% specialization.....   | 13                      | 277            | 1,170             | 215                | 416               | 860             | 2,974  | 2,318                       | 5,017                        | 42                                  |
| 3643-                          | CURRENT CARRYING DEVICES   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 449                     | 35,424         | 175,185           | 27,239             | 53,474            | 115,097         | 355,643  | 257,175                     | 615,980                      | 14,119                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 357                     | 20,093         | 92,950            | 15,851             | 30,798            | 61,871          | 193,563  | 130,332                     | 325,324                      | 9,049                               |
|                                | 75-89% specialization.....   | 11                      | 1,383          | 8,204             | 984                | 2,061             | 5,168           | 25,703   | 12,467                      | 37,816                       | 839                                 |
| 3644-                          | NONCURRENT CARRYING DEVICES  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 182                     | 20,290         | 123,576           | 14,756             | 29,691            | 79,605          | 253,918  | 226,499                     | 479,033                      | 7,873                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 138                     | 7,461          | 42,950            | 5,877              | 11,832            | 29,974          | 87,775   | 109,687                     | 197,675                      | 3,000                               |
|                                | 75-89% specialization.....   | 22                      | 5,000          | 29,919            | 3,669              | 7,348             | 19,880          | 66,749   | 54,813                      | 120,196                      | 1,145                               |
| 36441                          | Pole-line and transmission hardware (primary product class of estab.).....   | 25                      | 5,377          | 34,157            | 3,893              | 8,018             | 22,411          | 68,958   | 55,384                      | 124,725                      | 1,625                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 13                      | 1,931          | 11,927            | 1,427              | 2,817             | 8,204           | 26,921   | 21,858                      | 49,318                       | 622                                 |
|                                | 75-89% specialization.....   | 4                       | 775            | 5,045             | 551                | 1,251             | 3,315           | 13,961   | 6,747                       | 20,683                       | 251                                 |



TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization                                       | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3644-                          | NONCURRENT CARRYING DEVICES—<br>Continued  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
| 36442                          | Electrical conduit and conduit fittings (primary product class of estab.).....               | 67                      | 7,984          | 48,286            | 5,791              | 11,682            | 30,841          | 101,678  | 119,431                     | 218,770                      | 3,931                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 46                      | 2,672          | 14,691            | 2,054              | 4,011             | 9,835           | 29,083   | 55,929                      | 84,381                       | 996                                 |
|                                | 75-89% specialization.....   | 6                       | 1,522          | 8,686             | 1,197              | 2,341             | 6,526           | 17,193   | 23,992                      | 40,518                       | 346                                 |
| 36443                          | Other noncurrent carrying wiring devices and supplies (primary product class of estab.)..... | 58                      | 6,577          | 39,524            | 4,783              | 9,412             | 25,222          | 79,870   | 48,727                      | 129,112                      | 2,110                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 41                      | 1,445          | 8,003             | 1,227              | 2,508             | 6,006           | 15,945   | 13,579                      | 29,583                       | 496                                 |
|                                | 75-89% specialization.....   | 8                       | 718            | 4,033             | 622                | 1,239             | 3,200           | 7,270  | 8,219                       | 15,803                       | 313                                 |

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations                            | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3641.—ELECTRIC LAMPS                      |                          |   |         |            |                                       |   |         |            |
| Machine shop.....                                  | 17                       | 2   | 9       | 6          | 462                                   | (D)                                       | (D)     | 376        |
| Stamping, blanking, and forming of metals.....     | 4                        | 2   | 2       | -          | 28                                    | (D)                                       | (D)     | -          |
| Painting, lacquering, and enameling on metals..... | 2                        | 1   | 1       | -          | (D)                                   | (D)                                       | (D)     | -          |
| INDUSTRY 3642.—LIGHTING FIXTURES                   |                          |   |         |            |                                       |   |         |            |
| Nonferrous foundry (except die casting).....       | 9                        | 4   | 4       | 1          | 104                                   | 7   | (D)     | (D)        |
| Nonferrous die casting.....                        | 15                       | 2   | 10      | 3          | 350                                   | (D)                                       | (D)     | (D)        |
| Electroplating and other plating.....              | 74                       | 42  | 22      | 10         | 669                                   | 76  | 224     | 369        |
| Galvanizing and other hot dip coating.....         | 7                        | 7   | -       | -          | 14                                    | 14  | -       | -          |
| Heat treating of metals.....                       | 15                       | 14  | 1       | -          | 27                                    | (D)                                       | (D)     | (D)        |
| Automatic screw machine department.....            | 17                       | 12  | 4       | 1          | 81                                    | 23  | (D)     | (D)        |
| Machine shop.....                                  | 168                      | 94  | 54      | 20         | 1,486                                 | 170                                       | 510     | 806        |
| Tool and die shop.....                             | 118                      | 83  | 29      | 6          | 784                                   | 143                                       | 264     | 377        |
| Plate or structural fabrication.....               | 33                       | 16  | 13      | 4          | 260                                   | 30  | 122     | 109        |
| Stamping, blanking, and forming of metals.....     | 283                      | 115                                       | 105     | 63         | 4,366                                 | 209                                       | 1,054   | 3,103      |
| Painting, lacquering, and enameling on metals..... | 319                      | 204                                       | 87      | 28         | 2,402                                 | 364                                       | 779     | 1,259      |

See footnotes at end of table.

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963—Continued

| Metalworking operations   | Number of establishments |   |          |            | Employment in the specified operation |   |            |              |                         |
|---|--------------------------|---|----------|------------|---------------------------------------|---|------------|--------------|-------------------------|
|   | Total                    | Number of production workers <sup>1</sup> |          |            | Total                                 | Number of production workers <sup>1</sup> |            |              | Total man-hours (1,000) |
|   |                          | 1 to 4                                    | 5 to 19  | 20 or more |                                       | 1 to 4                                    | 5 to 19    | 20 or more   |                         |
| INDUSTRY 3643—CURRENT CARRYING DEVICES  |                          |   |          |            |                                       |   |            |              |                         |
| TOTAL, ALL OPERATIONS.....  | (X)                      | (X)                                       | (X)      | (X)        | 22,223                                | (X)                                       | (X)        | (X)          | 43,747                  |
| Ferrous foundry.....  | 3                        | -   | -        | 3          | 64                                    | -   | -          | 64           | 130                     |
| Nonferrous foundry, (except die casting).....   | 3                        | 1   | 1        | 1          | 65                                    | (D)                                       | (D)        | (D)          | 140                     |
| Nonferrous die casting.....   | 4                        | 3   | 1        | -          | (D)                                   | (D)                                       | (D)        | (D)          | (D)                     |
| Forging.....  | 5                        | 1   | 2        | 2          | (D)                                   | (D)                                       | (D)        | (D)          | (D)                     |
| Electroplating and other plating.....   | 44                       | 22  | 16       | 6          | 349                                   | 34  | 136        | 179          | 697                     |
| Galvanizing and other hot dip coating.....  | 9                        | 7   | 1        | 1          | 45                                    | (D)                                       | (D)        | (D)          | 92                      |
| Heat treating of metals.....  | 27                       | 19  | 3        | -          | 61                                    | 28  | 33         | -            | 117                     |
| Automatic screw machine department.....   | 28                       | 15  | 9        | 4          | 422                                   | 32  | 89         | 301          | 858                     |
| Machine shop.....   | 81                       | 33  | 26       | 22         | 1,343                                 | 71  | 211        | 1,061        | 2,845                   |
| Tool and die shop.....  | 80                       | 31  | 31       | 18         | 1,120                                 | 60  | 298        | 762          | 2,115                   |
| Foundry pattern shop.....   | 6                        | 6   | -        | -          | (D)                                   | 10  | -          | -            | 20                      |
| Plate or structural fabrication.....  | 3                        | 2   | 1        | -          | (D)                                   | (D)                                       | (D)        | (D)          | (D)                     |
| Stamping, blanking, and forming of metals.....  | 93                       | 41  | 28       | 24         | 1,690                                 | 78  | 267        | 1,345        | 3,311                   |
| Painting, lacquering, and enameling on metals.....  | 25                       | 19  | 4        | 2          | 136                                   | 31  | (D)        | (D)          | 288                     |
| Plastics molding.....   | 37                       | 11  | 13       | 13         | 865                                   | 23  | 131        | 711          | 1,754                   |
| Assembly of product.....  | 142                      | 20  | 47       | 75         | 11,099                                | 50  | 545        | 10,504       | 22,308                  |
| Shipping department, including packing and crating...<br>All other operations such as maintenance, ware-<br>housing, etc..... | 121<br>96                | 90<br>38                                  | 27<br>31 | 9<br>22    | 690<br>4,054                          | 167<br>62                                 | 199<br>324 | 324<br>3,668 | 1,398<br>7,122          |
| INDUSTRY 3644—NONCURRENT CARRYING DEVICES   |                          |   |          |            |                                       |   |            |              |                         |
| TOTAL, ALL OPERATIONS.....  | (X)                      | (X)                                       | (X)      | (X)        | 13,454                                | (X)                                       | (X)        | (X)          | 27,144                  |
| Ferrous foundry.....  | 4                        | -   | 1        | 3          | 653                                   | -   | (D)        | (D)          | 1,250                   |
| Nonferrous foundry, (except die casting).....   | 10                       | -   | 6        | 4          | 328                                   | -   | 69         | 259          | 646                     |
| Nonferrous die casting.....   | 16                       | 7   | 6        | 3          | 169                                   | 11  | 46         | 112          | 340                     |
| Forging.....  | 15                       | -   | 10       | 5          | 653                                   | -   | 124        | 529          | 1,389                   |
| Electroplating and other plating.....   | 21                       | 7   | 7        | 7          | 452                                   | 15  | 72         | 365          | 749                     |
| Galvanizing and other hot dip coating.....  | 26                       | 6   | 8        | 12         | 592                                   | 15  | 115        | 462          | 1,185                   |
| Heat treating of metals.....  | 13                       | 10  | 2        | 1          | 59                                    | 18  | (D)        | (D)          | 119                     |
| Automatic screw machine department.....   | 18                       | 11  | 4        | 3          | 271                                   | 24  | 32         | 215          | 604                     |
| Machine shop.....   | 61                       | 20  | 19       | 22         | 1,480                                 | 44  | 200        | 1,230        | 3,025                   |
| Tool and die shop.....  | 56                       | 29  | 23       | 4          | 432                                   | 55  | 220        | 157          | 855                     |
| Foundry pattern shop.....   | 11                       | 7   | 3        | 1          | 87                                    | 13  | (D)        | (D)          | 172                     |
| Plate or structural fabrication.....  | 7                        | -   | 4        | 3          | 126                                   | -   | 39         | 87           | 257                     |
| Stamping, blanking, and forming of metals.....  | 71                       | 22  | 21       | 28         | 1,679                                 | 36  | 215        | 1,428        | 3,496                   |
| Painting, lacquering, and enameling on metals.....  | 40                       | 23  | 10       | 7          | 346                                   | 42  | 76         | 228          | 685                     |
| Plastics molding.....   | 8                        | 5   | 3        | -          | 50                                    | 20  | 30         | -            | 99                      |
| Assembly of product.....  | 81                       | 16  | 30       | 35         | 3,052                                 | 31  | 321        | 2,700        | 5,985                   |
| Shipping department, including packing and crating...<br>All other operations such as maintenance, ware-<br>housing, etc..... | 84<br>59                 | 45<br>16                                  | 28<br>17 | 11<br>26   | 793<br>2,332                          | 101<br>32                                 | 296<br>194 | 396<br>2,106 | 1,621<br>4,667          |

Note: Very small establishments were not requested to report their metalworking operations and in some instances a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production worker employment on the last line of the table below.

| Item  | Electric lamps (SIC 3641) | Lighting fixtures (SIC 3642) | Current carrying devices (SIC 3643) | Noncurrent carrying devices (SIC 3644) |
|---|---------------------------|------------------------------|-------------------------------------|--|
| Total number of establishments in the industry.....   | 81                        | 1,239                        | 449                                 | 182                                    |
| Number of establishments which reported one or more of the specified operations.....                          | 19                        | 433                          | 200                                 | 129                                    |
| Percent of industry production workers in these establishments.....   | 55-60                     | 70-75                        | 85-90                               | 90-95                                  |
| Number of establishments which reported "none" of the operations apply  | 34                        | 162                          | (X)                                 | (X)                                    |
| Percent of industry production workers in these establishments.....   | 40-45                     | 5-10                         | (X)                                 | (X)                                    |
| Percent of industry production workers in establishments which completed metalworking operations inquiry..... | 95-100                    | 80-85                        | 85-90                               | 90-95                                  |

(D) Withheld to avoid disclosing figures for individual companies. (X) Not applicable.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishment.



## COMMUNICATION EQUIPMENT, INCLUDING RADIO AND TV, AND ELECTRON COMPONENTS AND ACCESSORIES

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3651—Radio and Television Receiving Sets, Except Communication Types
- 3652—Phonograph Records
- 3661—Telephone and Telegraph Apparatus
- 3662—Radio and Television Transmitting, Signaling, and Detection Equipment and Apparatus
- 3671—Radio and Television Receiving Type Electron Tubes, Except Cathode Ray
- 3672—Cathode Ray Picture Tubes
- 3673—Transmitting, Industrial, and Special Purpose Electron Tubes
- 3674—Semiconductors (Solid State) and Related Devices
- 3679—Electronic Components and Accessories, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Industries included in this report produce the bulk of electronic equipment, i.e., radios, television sets, electron tubes, etc., but also produce communications equipment other than electronic (industry 3661).

Component parts are generally included in the industry of the end product with the exception of certain general purpose components which are specifically classified elsewhere in the Standard Industrial Classification. Electronic components are frequently produced and consumed at the same location by establishments classified in this major group. Thus, there are (1) plants solely engaged in producing electronic components; (2) plants producing electronic components and assembling them into finished products; and (3) plants which assemble components produced elsewhere either in other plants of the same company or by other companies.

### 3651—RADIO AND TELEVISION RECEIVING SETS, EXCEPT COMMUNICATION TYPES

This industry comprises establishments primarily engaged in the manufacture of electronic equipment for home entertainment. This industry also includes establishments primarily engaged in manufacturing public address systems, and music distribution apparatus except records. Establishments primarily engaged in manufacturing records are classified in

industry 3652; radio and television receiving type tubes in industry 3671; and television receiving type cathode ray tubes in industry 3672. For a detailed list of products of industry 3651, refer to table 6A-2, product codes 3651101 to 3651394.

The code number for this industry in the Standard Industrial Classification Manual is unchanged, but the content of the industry has been slightly changed from the classification system used in 1958. The composition of the industry as now constituted, compared with that under the classification system followed in the 1958 census, is due principally to the reclassification of TV tuners from industry 3651 to industry 3662, Radio, TV Communications Equipment.

Value of shipments and other receipts of the Radio and TV Receiving Sets Industry totaled \$2,255 million. This amount included shipments of radio and TV receiving sets (primary products) valued at \$1,992 million, shipments of other products (secondary products) valued at \$191 million, and miscellaneous receipts (mainly resales) at \$72 million.

This industry's shipments of radio and TV receiving sets represented 91 percent of its total product shipments. The industry specialization ratio in 1958 also was 91 percent. Secondary products shipped by this industry in 1963 consisted mainly of electronic components and accessories (\$43 million), and coils, transformers, reactors, and chokes for electronic application (\$20 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 62 percent of the total industry shipments are represented by plants specializing in product class 36512, Household television receivers, including television combinations; 20 percent in 36511, Household and automobile radios, and radio-phonograph combinations; and 17 percent in 36513, Recorders, audio-amplifiers, phonographs, tuners, speaker systems and other audio equipment and accessories.

Shipments of radio and TV receiving sets by this industry represented 96 percent of all shipments of these products (\$2,071 million) by all industries. In 1958 the coverage ratio was 92 percent. Other industries shipping radio and TV receiving sets consisted mainly of industry 3679, Electronic Components, N.E.C., \$14 million; and industry 3662, Radio, TV Communications Equipment, \$12 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product class of industry 3651, e.g., 36512, Household television receivers, including television combinations, 100 percent.

The production index for the primary products of the industry increased to 161 in 1963 from the 1958 level of 99. The unit value index for 1963 was 83 compared to 97 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3652—PHONOGRAPH RECORDS

This industry comprises establishments primarily engaged in the manufacture of phonograph records and prerecorded tape. Establishments primarily engaged in manufacturing electronic equipment for home entertainment, except records, are classified in industry 3651. For a detailed list of products of industry 3652, refer to table 6A-1, product codes 3652022 to 3652091.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.



Value of shipments and other receipts of the Phonograph Records Industry totaled \$180 million. This amount included shipments of phonograph records and prerecorded tape (primary products) valued at \$174 million, shipments of other products (secondary products) valued at \$4 million, and miscellaneous receipts (mainly resales) at \$2 million.

This industry's shipments of phonograph records and prerecorded tape represented 99 percent of its total product shipments. The industry specialization ratio in 1958 was 97 percent.

Shipments of phonograph records and prerecorded tape by this industry in 1963 represented 97 percent of all shipments of these products (\$179 million) by all industries. In 1958 the coverage ratio was 98 percent.

The production index for the primary products of the industry increased to 221 in 1963 from the 1958 level of 178. The unit value index for 1963 was 106 compared to 101 in 1958. Both indexes were computed on a basis of 1954 = 100.

### 3661—TELEPHONE AND TELEGRAPH APPARATUS

This industry comprises establishments primarily engaged in the manufacture of wire and wireless telephone and telegraph equipment, and parts especially designed for telephone and telegraph use. For a detailed list of products of industry 3661, refer to table 6A-1, product codes 3661111 to 3661281.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Data on cost of materials and value of shipments of the Telephone; Telegraph Apparatus Industry include extensive duplication resulting from the transfer of products such as telephone and telegraph components to establishments producing complete telephone and telegraph equipment. The value of such shipments are duplicated in the total value of shipments. A corresponding duplication enters into the total cost of materials. The data shown for value added by manufacture (value of shipments less cost of materials, etc.) avoid this duplication.

Value of shipments and other receipts of the Telephone and Telegraph Apparatus Industry totaled \$1,736 million. This amount included shipments of telephone; telegraph apparatus (primary products) valued at \$1,463 million, shipments of other products (secondary products) valued at \$192 million, and miscellaneous receipts (mainly resales) at \$80 million.

This industry's shipments of telephone and telegraph apparatus represented 95 percent of its total product shipments. The industry specialization ratio in 1958 was 96 percent. The exact percentage, however, is not very meaningful due to the duplication described above. Secondary products shipped by this industry in 1963 consisted mainly of commercial, industrial, and military electronic communication equipment (except broadcast equipment and home-type intercommunication equipment), \$43 million.

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 45 percent of the total industry shipments are represented by plants specializing in product class 36611, Telephone switching and switchboard equipment, and 54 percent in 36612, Other telephone and telegraph (wire) apparatus, equipment, and components.

Shipments of telephone and telegraph apparatus by this industry represented 95 percent of all shipments of these products (\$1,538 million) by all industries. In 1958 the coverage ratio was 99 percent. The exact percentages, however, are not very meaningful due to the duplication described above. Other industries shipping telephone and telegraph apparatus consisted mainly of industry 3662, Radio, TV Communications Equipment, \$20-\$50 million.

#### 3662—RADIO AND TELEVISION TRANSMITTING, SIGNALING, AND DETECTION EQUIPMENT AND APPARATUS

This industry comprises establishments primarily engaged in manufacturing (1) radio and television broadcasting equipment; (2) electric communication equipment and parts, except telephone and telegraph; (3) electronic field detection apparatus, light and heat emission operating apparatus, object detection apparatus and navigational electronic equipment, and aircraft and missile control systems; and (4) other electric and electronic communication and signaling products, not elsewhere classified. Establishments primarily engaged in manufacturing transmitting tubes are classified in industry 3673. For a detailed list of products of industry 3662, refer to table 6A-3, product codes 3662121 to 3662812.

The code number for this industry in the Standard Industrial Classification Manual is unchanged, but the content of the industry has been slightly changed from the classification system used in 1958. The composition of the industry as now constituted, compared with that under the classification system followed in the 1958 census, is due principally to the reclassification of TV tuners to industry 3662 from industry 3651, Radio and TV Receiving Sets.

During the period 1958-1963 reports received from some large establishments indicated a change from the manufacture primarily of such individual instruments as those used for indicating air speed, rate-of-climb, angle-of-yaw and similar flight characteristics, and gyroscopes which are sold separately, to primarily manufacturing complete instrumentation systems for navigation, guidance, check-out, etc. The major impact of this change has been on the classification of products and, consequently, the SIC coding of these large establishments. This change in reporting was brought to light by the initiation by the Census Bureau of detailed commodity surveys in the fields of electronic products and instrumentation. The electronic and associated products report (MA-36N) was started covering the year 1961 and the instruments series (MA-38B) was broadened for 1963 to encompass most types of instruments following an introductory report for 1961 and 1962 covering industrial process instruments and test and measuring equipment. Annual statistics from both reports are published in the Current Industrial Reports Series.

In both the 1958 Census of Manufactures and the Annual Survey of Manufactures from 1959 through 1962 the classification of systems was not sufficiently spelled out in the product inquiries of these programs, especially at the 5-digit product class level. However, with the introduction in the MA-36N and MA-38B surveys of detailed 7-digit product information which itself is used to build up to broader 5-digit product class totals, these totals, although they should be the same as those reported on Form MA-100 (Annual Survey of Manufactures), have differed. The respondents affected have identified the proportion of earlier years' output which consisted of systems rather than instruments as such, which was the manner in which the items were originally reported.

In view of the above, the annual data for 1958-1962 have been revised, as indicated with the symbol "r" in the appropriate tables. Because of the shift in recent years from instruments which are classified in industry 3811 to complete systems which are classified in industry 3662, the year-to-year changes are of dubious validity for the industries considered separately. The two industries taken in combination, however, would yield significant measures of activity in the general area.



Value of shipments and other receipts of the Radio, TV Communications Equipment Industry totaled \$7,146 million. This amount included shipments of radio and TV communications equipment (primary products) valued at \$5,512 million, shipments of other products (secondary products) valued at \$750 million, and miscellaneous receipts (mainly receipts for research and development work) at \$883 million.

This industry's shipments of radio and TV communications equipment represented 88 percent of its total product shipments. The industry specialization ratio in 1958 was 86 percent. Secondary products shipped by this industry in 1963 consisted mainly of aircraft, flight, nautical and navigational instruments, and automatic pilots (\$169 million), and other electronic components and accessories, n.e.c. (\$73 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 20 percent of the total industry shipments are represented by plants specializing in product classes 36621, Commercial, industrial, and military electronic communication equipment; 32 percent in 36625, Electronic search and detection apparatus, including radar, infrared and sonar; and 21 percent in 36628, Missile-borne and space vehicle-borne navigation and guidance systems and equipment.

Shipments of radio and TV communications equipment by this industry represented 91 percent of all shipments of these products (\$6,052 million) by all industries. In 1958 the coverage ratio was 83 percent. Other industries shipping radio and TV communications equipment consisted mainly of industry 3679, Electronic Components, N.E.C., \$39 million; and industry 3661, Telephone; Telegraph Apparatus, \$43 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3662, e.g., 36623, Inter-communication equipment and electric alarm and signal systems and devices, 76 percent; 36624, Electronic navigational aids, except missile-borne and space vehicle-borne equipment, 97 percent; 36626, Electronic military, industrial and commercial equipment, n.e.c., 82 percent; and, 36627, Space satellite-borne communication systems, 100 percent.

#### 3671—RADIO AND TELEVISION RECEIVING TYPE ELECTRON TUBES, EXCEPT CATHODE RAY

This industry comprises establishments primarily engaged in the manufacture of radio and television receiving type electron tubes, except cathode ray tubes. Establishments primarily engaged in manufacturing television receiving type cathode ray tubes are classified in industry 3672; transmitting tubes in industry 3673; X-ray tubes in industry 3693; and electronic equipment for home entertainment, except tubes in industry 3651. For a detailed list of products of industry 3671, refer to table 6A-3, product codes 3671011 to 3671015.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Electron Tubes, Receiving Type, Industry totaled \$321 million. This amount included shipments of receiving type electron tubes (primary products) valued at \$272 million, shipments of other products (secondary products) valued at \$34 million, and miscellaneous receipts (mainly resales) at \$15 million.

This industry's shipments of receiving type electron tubes represented 89 percent of its total product shipments. The industry specialization ratio in 1958 also was 89 percent. Secondary products shipped by this industry in 1963 consisted mainly of transmitting, industrial, and special purpose electron tubes (except X-ray) (\$15 million), and electronic components and accessories, n.e.c. (\$17 million).

Shipments of receiving type electron tubes by this industry in 1963 represented 95 percent of all shipments of these products (\$288 million) by all industries. In 1958 the coverage ratio was 96 percent. Other industries shipping receiving type electron tubes consisted mainly of industry 3661, Telephone; Telegraph Apparatus, and industry 3674, Semiconductors, over \$2 million each.

The product index for the primary products of the industry decreased to 91 in 1963 from the 1958 level of 104. The unit value index for 1963 was 109 compared to 113 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3672—CATHODE RAY PICTURE TUBES

This industry comprises establishments primarily engaged in manufacturing television receiving type cathode ray tubes. Establishments primarily engaged in manufacturing other radio and television receiving type electron tubes are classified in industry 3671; and transmitting tubes in industry 3673. For a detailed list of products of industry 3672, refer to table 6A-3, product codes 3672013 to 3672015.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Cathode Ray Picture Tubes Industry totaled \$269 million. This amount included shipments of cathode ray picture tubes (primary products) valued at \$224 million, and shipments of other products (secondary products) and miscellaneous receipts valued at \$45 million.

This industry's shipments of cathode ray picture tubes represented between 85-90 percent of its total product shipments. The industry specialization ratio in 1958 was 96 percent. Secondary products shipped by this industry in 1963 consisted mainly of other electronic components and accessories (\$4 million).

Shipments of cathode ray picture tubes by this industry represented 90 percent of all shipments of these products (\$249 million) by all industries. In 1958 the coverage ratio was 84 percent. Other industries shipping cathode ray picture tubes consisted mainly of industry 3651, Radio and TV Receiving Sets, industry 3673, Electron Tubes, Transmitting, and industry 3674, Semiconductors, over \$2 million each.

The production index for the primary products of the industry increased to 110 in 1963 from the 1958 level of 92. The unit value index for 1963 was 106 compared to 91 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3673—TRANSMITTING, INDUSTRIAL, AND SPECIAL PURPOSE ELECTRON TUBES

This industry comprises establishments primarily engaged in manufacturing transmitting, industrial, and special purpose electron tubes. Establishments primarily engaged in manufacturing radio and television transmitting equipment are classified in industry 3662; radio and television receiving tubes in industry 3671; television type cathode ray tubes in industry 3672; and X-ray tubes in industry 3693. For a detailed list of products of industry 3673, refer to table 6A-3, product codes 3673011 to 3673096.

The code number as well as the definition of the industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Electron Tubes, Transmitting, Industry totaled \$300 million. This amount included shipments of electron tubes, transmitting (primary products) valued at \$214 million, shipments of other products (secondary products) valued at \$53 million, and miscellaneous receipts (mainly resales) at \$33 million.



This industry's shipments of electron tubes, transmitting, represented 80 percent of its total product shipments. The industry specialization ratio in 1958 was 83 percent. Secondary products shipped by this industry in 1963 consisted mainly of other electronic components and accessories, n.e.c. (\$6 million), and electronic military, industrial, and commercial equipment, n.e.c. (\$3 million).

Shipments of electron tubes, transmitting, by this industry represented 75 percent of all shipments of these products (\$287 million) by all industries. In 1958 the coverage ratio was 81 percent. Other industries shipping electron tubes, transmitting, consisted mainly of industry 3671, Electron Tubes, Receiving Type, \$15 million; and industry 3662, Radio, TV Communications Equipment, \$12 million.

The production index for the primary products of the industry increased to 166 in 1963 from the 1958 level of 130. The unit value index for 1963 was 111 compared to 110 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3674—SEMICONDUCTORS (SOLID STATE) AND RELATED DEVICES

This industry comprises establishments primarily engaged in the manufacture of semiconductor (solid state) and related devices, such as semiconductor diodes and stacks, including rectifiers; transistors; solar cells; and light sensitive semiconductor (solid state) devices. This industry is now a separate one under the Standard Industrial Classification System. In 1958, the SIC included it as part of industry 3679. For a detailed list of products of industry 3674, refer to table 6A-3, product codes 3674013 to 3674096.

Value of shipments and other receipts of the Semiconductors Industry totaled \$688 million. This amount included shipments of solid state semiconductor devices (primary products) valued at \$575 million, shipments of other products (secondary products) valued at \$76 million, and miscellaneous receipts (mainly receipts for research and developmental work) at \$36 million.

This industry's shipments of solid state semiconductor devices represented 88 percent of its total product shipments. Secondary products shipped by this industry in 1963 consisted mainly of electronic components and accessories, n.e.c. (\$29 million) and capacitors for electronic applications (\$4 million).

Shipments of solid state semiconductor devices by this industry represented 92 percent of all shipments of these products (\$623 million) by all industries. Another industry shipping solid state semiconductor devices was industry 3679, Electronic Components, N.E.C., \$15 million.

#### 3679—ELECTRONIC COMPONENTS AND ACCESSORIES, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing specialty resistors for electronic end products; solid state electronic devices and similar devices; inductors, electronic transformers and capacitors; and, other electronic components, n.e.c. Establishments primarily engaged in manufacturing resistors, inductors, and transformers for telephone and telegraph apparatus are classified in industry 3661; and electric lamps in industry 3641. For a detailed list of products of industry 3679, refer to table 6A-3, product codes 3679212 to 3679598.

The code number for this industry in the Standard Industrial Classification Manual is unchanged, but the content of the industry has been significantly changed from the classification system used in 1958. The composition of the industry as now constituted, compared with that under the classification system followed in the 1958 census, is due principally to

the setting up of separate industry 3674 for those establishments producing solid state semiconductor devices; and, the inclusion in 1963 of electronic connectors, which were previously classified in industry 3643, Current Carrying Devices.

Value of shipments and other receipts of the Electronic Components, N.E.C., Industry totaled \$2,332 million. This amount included shipments of electronic components, n.e.c. (primary products) valued at \$1,944 million, shipments of other products (secondary products) valued at \$243 million, and miscellaneous receipts (mainly resales) at \$146 million.

This industry's shipments of electronic components, n.e.c., represented 89 percent of its total product shipments. Secondary products shipped by this industry in 1963 consisted mainly of electronic military, industrial, and commercial equipment, n.e.c. (\$32 million) and optical instruments and lenses (except sighting and fire-control equipment), \$17 million.

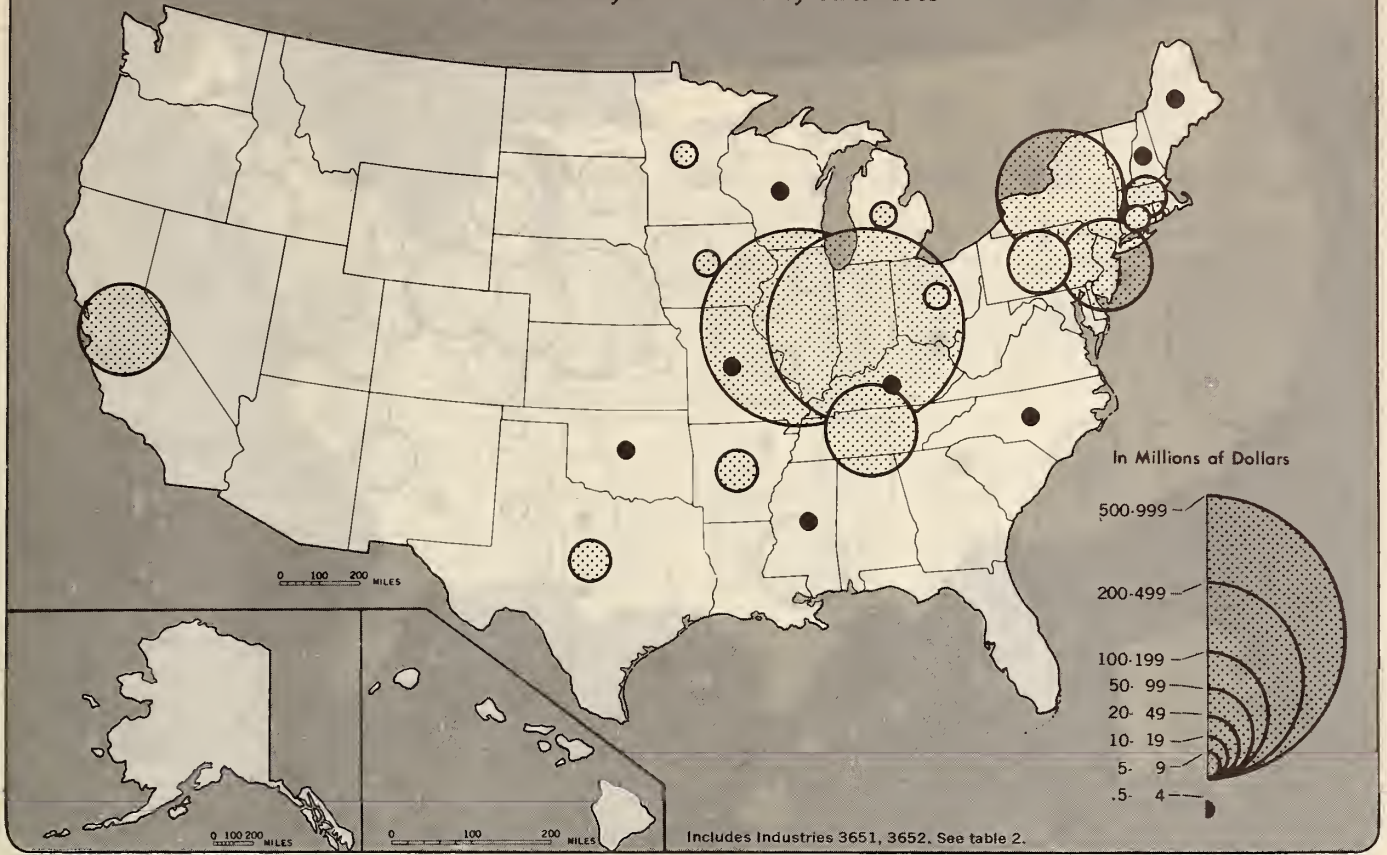
While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 56 percent of the total industry shipments are represented by plants specializing in product class 36795, Other electronic components and accessories.

Shipments of electronic components, n.e.c., by this industry represented 78 percent of all shipments of these products (\$2,501 million) by all industries. Other industries shipping electronic components, n.e.c., consisted mainly of industry 3571, Computing and Related Machines, \$75 million; and industry 3662, Radio, TV Communications Equipment, \$82 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3679, e.g., 36792, Capacitors for electronic applications, 94 percent; 36793, Resistors for electronic applications, 74 percent; 36794, Coils, transformers, reactors, and chokes for electronic applications, 85 percent; and 36795, Other electronic components and accessories, n.e.c., 72 percent.



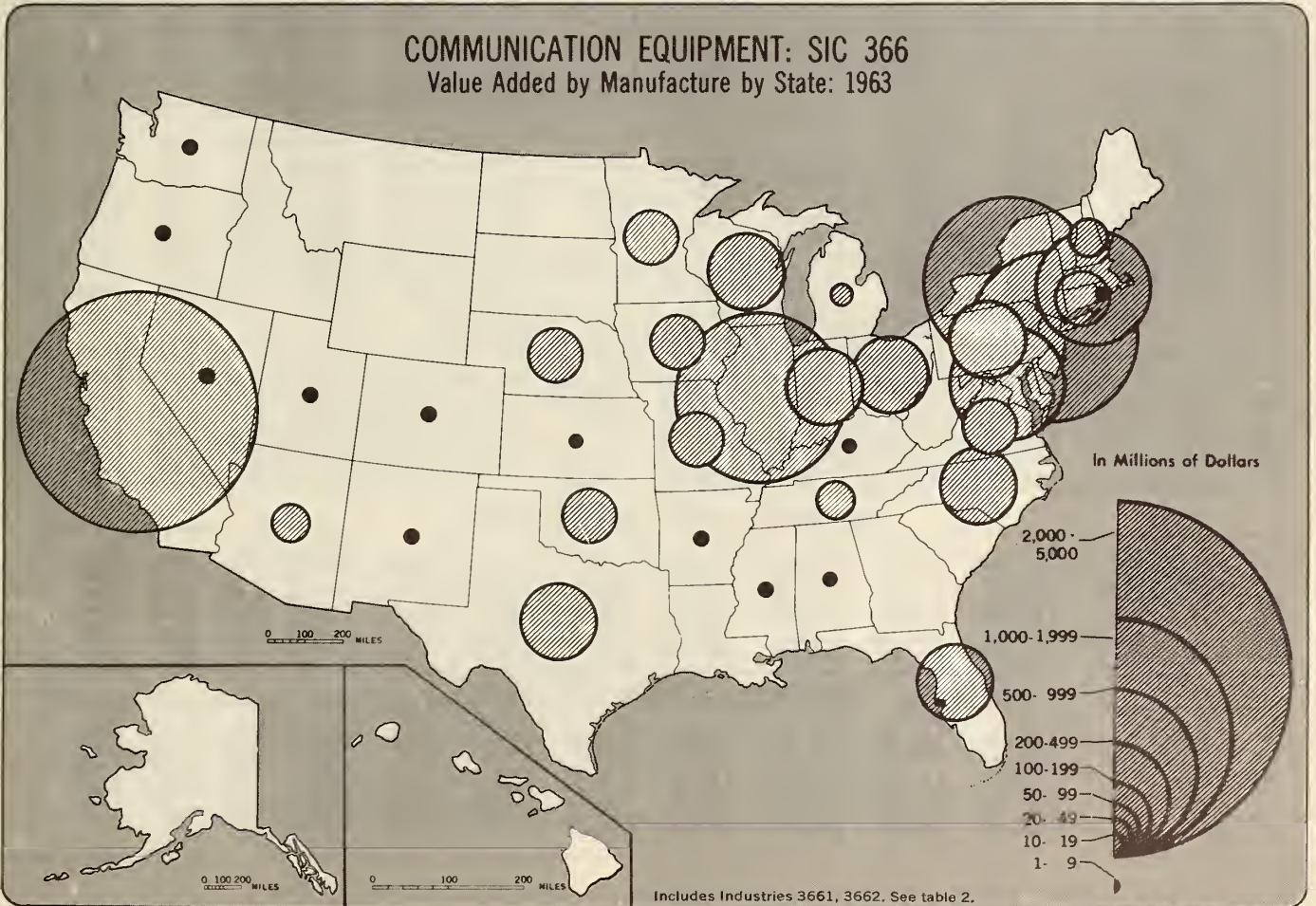
**RADIO AND TV RECEIVING EQUIPMENT: SIC 365**  
 Value Added by Manufacture by State: 1963



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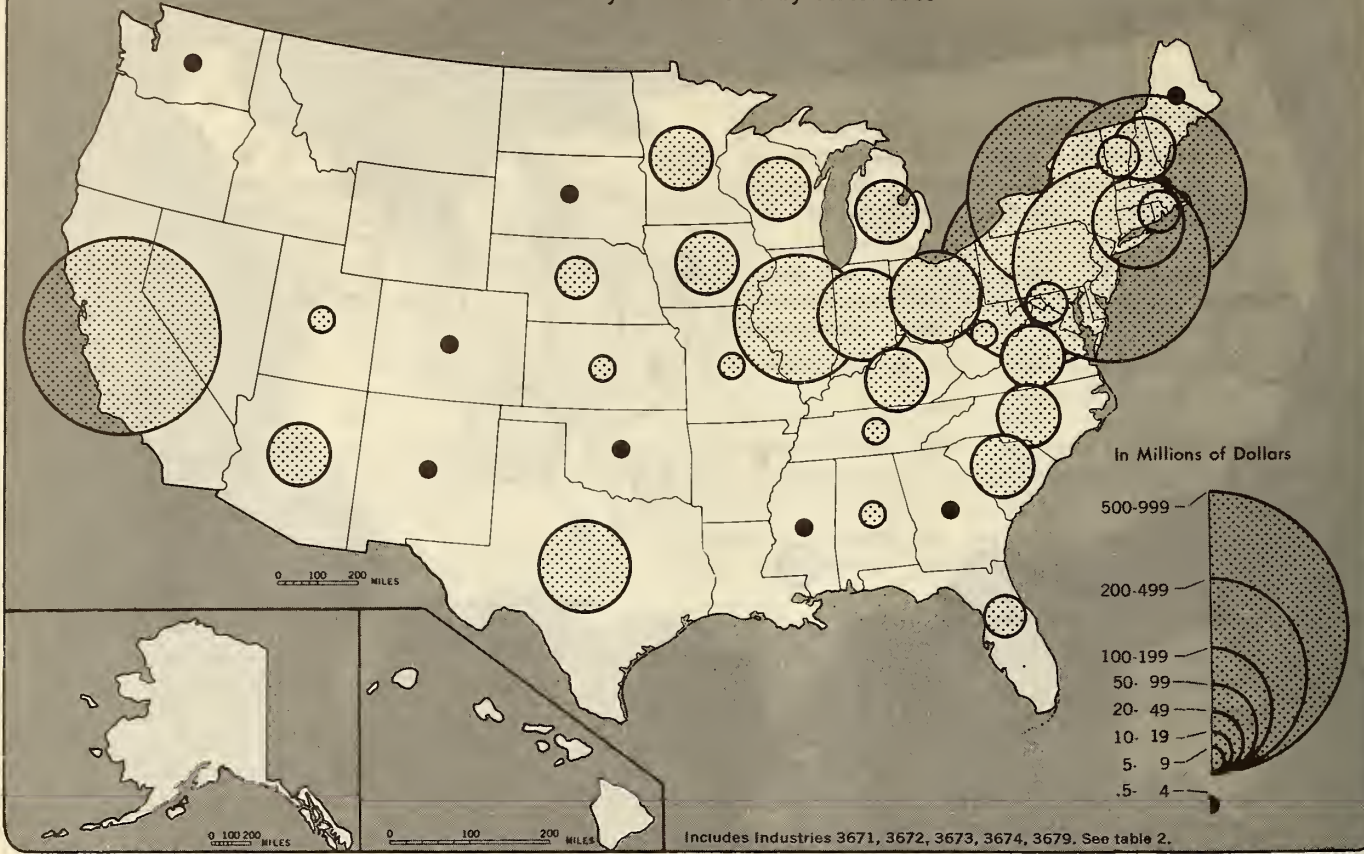
**COMMUNICATION EQUIPMENT: SIC 366**  
 Value Added by Manufacture by State: 1963



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ELECTRONIC COMPONENTS: SIC 367  
 Value Added by Manufacture by State: 1963



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TABLE 1. General Statistics: 1963 and Earlier Years

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expendi-<br>tures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3651.—RADIO AND TV RECEIVING SETS                 |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 322                        | 348               | 178  | 81,264            | 411,924              | 66,538             | 128,463              | 289,287            | 911,954  | 1,389,412                         | 2,254,878                          | 30,511  | 91  | 96                                       |
| 1962 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 82,951            | 408,332              | 66,052             | 127,222              | 273,350            | 868,958  | 1,306,602                         | 2,128,875                          | 27,096  | (X)   | (X)                                      |
| 1961 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 76,837            | 369,982              | 59,553             | 112,093              | 239,326            | 728,832  | 1,105,866                         | 1,849,180                          | (28,670)  | (X)   | (X)                                      |
| 1960 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 71,743            | 340,600              | 56,269             | 108,463              | 222,348            | 694,336  | 1,036,042                         | 1,719,337                          | 19,594  | (X)   | (X)                                      |
| 1959 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 74,874            | 339,395              | 60,168             | 116,187              | 231,738            | 727,108  | 1,079,111                         | 1,781,133                          | 16,610  | (X)   | (X)                                      |
| 1958 <sup>2</sup> .....                                    | 216                        | 234               | 144  | 66,505            | 292,664              | 52,047             | 100,487              | 196,565            | 593,953  | 936,314                           | 1,548,006                          | 13,323  | 91  | 90                                       |
| INDUSTRY 3652.—PHONOGRAPH RECORDS                          |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 128                        | 167               | 60   | 9,554             | 46,981               | 7,566              | 15,022               | 32,976             | 125,388  | 54,087                            | 180,173                            | 8,704   | 99  | 97                                       |
| 1962 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 9,161             | 45,278               | 7,068              | 14,419               | 31,492             | 126,257  | 62,459                            | 189,263                            | 3,145   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 8,391             | 39,643               | 6,596              | 13,146               | 27,811             | 109,533  | 54,460                            | 165,467                            | 3,484   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 8,170             | 37,436               | 6,459              | 13,268               | 26,333             | 99,629   | 54,762                            | 154,944                            | 5,611   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 7,590             | 35,158               | 6,017              | 12,536               | 25,181             | 91,893   | 58,442                            | 150,589                            | 4,326   | (NA)  | (NA)                                     |
| 1958 <sup>1</sup> .....                                    | 85                         | 94                | 53   | 7,421             | 33,381               | 5,858              | 12,158               | 23,739             | 93,079   | 58,704                            | 148,731                            | 4,011   | 97  | 98                                       |
| 1957 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 7,099             | 28,943               | 5,255              | 11,008               | 20,626             | 88,875   | 36,570                            | 121,542                            | 2,810   | 97  | 96                                       |
| 1956 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 6,376             | 26,122               | 4,921              | 20,133               | 18,854             | 78,511   | 30,236                            | 104,889                            | 3,470   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 5,960             | 23,336               | 4,506              | 9,322                | 16,024             | 59,225   | 25,297                            | 82,650                             | 3,328   | (NA)  | (NA)                                     |
| 1954 <sup>1</sup> .....                                    | 135                        | 143               | 34   | 6,152             | 23,312               | 4,740              | 9,451                | 15,685             | 58,689   | 33,849                            | 92,546                             | 2,992   | 94  | 97                                       |
| 1953 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 6,624             | 24,679               | 5,317              | 11,049               | 18,553             | 62,763   | 29,269                            | 92,032                             | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 5,539             | 20,282               | 4,335              | 8,928                | 15,239             | 58,910   | 23,581                            | 82,309                             | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 5,867             | 19,600               | 4,607              | 9,378                | 14,937             | 58,233   | 25,898                            | 83,943                             | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 6,572             | 20,633               | 5,099              | 10,842               | 15,269             | 56,852   | 25,436                            | 82,106                             | (NA)  | (NA)  | (NA)                                     |
| 1947 <sup>1</sup> .....                                    | 96                         | 111               | (NA)   | 10,045            | 29,193               | 8,246              | 17,594               | 22,840             | 75,660   | 38,951                            | 110,184                            | (NA)  | (NA)  | (NA)                                     |
| 1939 <sup>1</sup> .....                                    | (NA)                       | 24                | (NA)   | (NA)              | (NA)                 | 926                | (NA)                 | 1,128              | 6,424  | 3,003                             | 9,427                              | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3661.—TELEPHONE; TELEGRAPH APPARATUS <sup>4</sup> |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 65                         | <sup>90</sup>     | 56   | 89,465            | 554,375              | 63,983             | 122,707              | 358,741            | 1,013,792  | 4704,187                          | 41,736,358                         | 55,127  | <sup>695</sup>                                      | <sup>695</sup>                           |
| 1962 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 98,674            | 620,722              | 68,196             | 136,018              | 377,974            | 1,024,651  | 4794,666                          | 41,883,602                         | 77,372  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 92,237            | 562,195              | 62,441             | 124,155              | 339,057            | 1,004,141  | 4690,584                          | 41,680,375                         | 65,327  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 87,488            | 529,737              | 61,092             | 123,994              | 329,534            | 845,918  | 4629,361                          | 41,484,464                         | 78,231  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 80,383            | 464,099              | 56,106             | 111,772              | 286,906            | 797,960  | 4527,096                          | 41,295,182                         | (71,997)  | (NA)  | (NA)                                     |
| 1958 <sup>3</sup> .....                                    | 67                         | <sup>91</sup>     | 51   | 80,061            | 430,739              | 54,340             | 105,522              | 268,869            | 715,511  | 4469,687                          | 41,207,955                         | 102,810   | <sup>696</sup>                                      | <sup>699</sup>                           |
| 1957 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 91,885            | 500,266              | 62,786             | 122,685              | 309,172            | 840,217  | (NA)                              | (NA)                               | 132,170   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 82,443            | 449,657              | 58,435             | 119,875              | 285,920            | 775,837  | (NA)                              | (NA)                               | 73,179  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 69,304            | 367,273              | 49,139             | 102,284              | 233,889            | 632,837  | (NA)                              | (NA)                               | 39,643  | (NA)  | (NA)                                     |
| 1954 <sup>1</sup> .....                                    | 56                         | 74                | 55   | 64,663            | 300,589              | 43,717             | 84,627               | 184,124            | 500,196  | (NA)                              | (NA)                               | 22,144  | (NA)  | (NA)                                     |
| 1953 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 66,106            | 309,881              | 44,892             | 90,582               | 189,964            | 488,285  | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 63,262            | 288,214              | 43,191             | 89,396               | 177,882            | 482,999  | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 54,696            | 235,382              | 36,907             | 75,853               | 144,664            | 397,292  | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 49,863            | 191,591              | 32,518             | 63,512               | 113,493            | 303,970  | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 58,504            | 206,357              | 38,817             | 72,693               | 127,722            | 334,011  | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1947 <sup>1</sup> .....                                    | 50                         | 90                | 53   | 76,072            | 258,567              | 53,630             | 108,687              | 167,488            | 384,417  | (NA)                              | (NA)                               | 39,280  | (NA)  | (NA)                                     |
| 1939 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | (NA)              | (NA)                 | 14,433             | (NA)                 | 26,977             | 98,715   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3662.—RADIO, TV COMMUNICATIONS EQUIPMENT          |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 1,001                      | 1,132             | 635  | 387,384           | 2,840,218            | 205,698            | 419,121              | 1,230,671          | 4,327,671  | 2,822,882                         | 7,145,600                          | 138,734   | 88  | 91                                       |
| 1962 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 348,401           | 2,575,807            | 178,138            | 380,720              | 1,207,580          | 3,914,678  | 2,900,207                         | 6,663,654                          | 114,325   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 307,660           | 2,162,513            | 149,958            | 326,332              | 915,941            | 3,160,576  | 2,578,468                         | 5,682,482                          | 112,932   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 239,742           | 1,602,632            | 127,124            | 277,842              | 738,599            | 2,399,539  | 2,143,696                         | 4,458,261                          | 97,907  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 187,129           | 1,186,871            | 107,901            | 220,684              | 568,945            | 1,831,100  | 1,788,751                         | 3,540,848                          | 79,484  | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                                    | 472                        | 519               | 270  | 154,350           | 924,071              | 88,523             | 178,315              | 433,648            | 1,558,261  | 1,274,673                         | 2,852,617                          | 56,147  | 86  | 83                                       |
| INDUSTRY 3671.—ELECTRON TUBES, RECEIVING TYPE              |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 30                         | 42                | 22   | 25,850            | 136,768              | 20,357             | 37,670               | 88,463             | 250,681  | 76,109                            | 321,091                            | 5,596   | 89  | 95                                       |
| 1962 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 26,575            | 134,616              | 21,381             | 40,443               | 92,592             | 239,125  | 72,515                            | 310,224                            | 5,308   | (X)   | (X)                                      |
| 1961 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 27,179            | 131,675              | 21,715             | 39,561               | 88,014             | 230,913  | 79,949                            | 313,860                            | 8,275   | (X)   | (X)                                      |
| 1960 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 36,182            | 162,071              | 29,234             | 51,340               | 107,312            | 299,998  | 103,485                           | 397,032                            | 14,695  | (X)   | (X)                                      |
| 1959 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 37,391            | 163,173              | 30,374             | 56,139               | 113,322            | 323,801  | 106,019                           | 422,068                            | 12,201  | (X)   | (X)                                      |
| 1958 <sup>2</sup> .....                                    | 71                         | 85                | 41   | 36,968            | 149,540              | 30,931             | 57,271               | 110,707            | 285,799  | 92,260                            | 382,526                            | 11,514  | 89  | 96                                       |
| INDUSTRY 3672.—CATHODE RAY PICTURE TUBES                   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 148                        | 151               | 28   | 10,916            | 66,888               | 7,958              | 16,634               | 40,468             | 128,354  | 142,111                           | 269,122                            | 16,138  | 85-90   | 90                                       |
| 1962 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 6,809             | 40,212               | 5,425              | 11,158               | 27,485             | 63,406   | 104,277                           | 167,947                            | 3,666   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 7,498             | 41,059               | 6,094              | 12,475               | 28,671             | 84,073   | 103,071                           | 183,505                            | (4,661)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 8,019             | 43,015               | 6,597              | 13,350               | 30,999             | 77,056   | 103,977                           | 179,932                            | 3,125   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                                    | (NA)                       | (NA)              | (NA)   | 7,649             | 40,314               | 6,135              | 12,841               | 28,845             | 82,493   | 100,181                           | 183,169                            | (S)   | (NA)  | (NA)                                     |
| 1958 <sup>2</sup> .....                                    | 72                         | 75                | 30   | 8,554             | 38,092               | 6,955              | 14,183               | 27,570             | 67,472   | 91,972                            | 159,252                            | 1,794   | 96  | 84                                       |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3673.—ELECTRON TUBES, TRANSMITTING  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                    | 45                         | 57                | 45   | 18,704            | 129,296              | 11,631             | 24,027               | 72,406             | 204,614  | 96,311                            | 299,527                            | 13,262  | 80  | 75                                       |
| 1962 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 25,023            | 157,419              | 15,220             | 31,137               | 84,537             | 276,760  | 131,649                           | 404,908                            | 18,609  | (X)   | (X)                                      |
| 1961 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 23,263            | 140,755              | 14,248             | 29,058               | 75,543             | 225,177  | 112,876                           | 335,528                            | 16,727  | (X)   | (X)                                      |
| 1960 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 22,273            | 125,485              | 13,665             | 27,667               | 66,540             | 203,477  | 100,422                           | 292,842                            | 20,190  | (X)   | (X)                                      |
| 1959 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 22,658            | 123,172              | 14,487             | 29,687               | 69,322             | 201,343  | 98,513                            | 291,903                            | 11,818  | (X)   | (X)                                      |
| 1958 <sup>2</sup> .....                      | 40                         | 48                | 44   | 20,146            | 102,150              | 14,475             | 29,472               | 65,134             | 165,803  | 90,669                            | 258,474                            | 9,021   | 83  | 81                                       |
| INDUSTRY 3674.—SEMICONDUCTORS                |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963 <sup>7</sup> .....                      | 86                         | 107               | 87   | 56,349            | 320,875              | 37,548             | 77,113               | 168,504            | 467,035  | 199,384                           | 687,817                            | 52,439  | 88  | 92                                       |
| 1958 <sup>7</sup> .....                      | (NA)                       | 48                | 42   | 23,370            | 112,989              | 17,630             | 34,691               | 65,902             | 186,800  | 75,522                            | 250,306                            | 16,172  | (NA)  | (NA)                                     |
| INDUSTRY 3679.—ELECTRONIC COMPONENTS, N.E.C. |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963 <sup>8</sup> .....                      | 1,743                      | 1,934             | 968  | 176,708           | 881,920              | 133,412            | 261,707              | 550,845            | 1,457,433  | 889,488                           | 2,332,215                          | 88,508  | 89  | 78                                       |
| 1958 <sup>8</sup> .....                      | (NA)                       | 1,431             | 695  | 108,872           | 451,032              | 85,251             | 166,696              | 301,424            | 728,006  | 473,451                           | 1,195,378                          | 35,719  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: **All employees:** For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** For 1947 and prior years figures represent an average of 12 monthly figures. **Value added:** Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. **Cost of materials:** Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. **Value of shipments:** Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. Revised. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. See text for explanation concerning shift from individual instruments to systems.

<sup>2</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that comparable data for prior years are not available. See text for explanation concerning shift from individual instruments to systems.

<sup>3</sup>Data for Alaska and Hawaii are not included for 1958 and previous years.

<sup>4</sup>The value of shipments and cost of materials for this industry include extensive duplication arising from shipments between establishments in the same industry classifications. For further explanation see text.

<sup>5</sup>For 1958 and 1963 a number of small establishments (under 20 employees) may have been misclassified in industry 3661, Telephone and Telegraph Apparatus because of insufficient product information. Although this has a significant effect on the number of establishments for this industry it has virtually no effect or any of the other statistics, i.e., number of employees, salaries and wages, value added, etc. It is estimated that the effect on these principal statistics is less than 1 percent.

<sup>6</sup>The exact figures shown, while correct to the extent that they are mathematical calculations, are not very meaningful because of extensive duplication in the value of shipments. See introductory text for this industry.

<sup>7</sup>This industry was included in industry 3679 in the 1958 Census of Manufactures. Accordingly, no estimates are available for 1959-1962, or for years prior to 1958. The figures for 1958 are based on a special tabulation.

<sup>8</sup>This industry included the semiconductor devices manufacturers (present SIC 3674) in 1958. Accordingly, no estimates are available for 1959-1962, or for years prior to 1958. The figures for 1958 are based on a special tabulation.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                      | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958                 |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|----------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees        | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                      |                                      |
| INDUSTRY 3651.—RADIO AND TV RECEIVING SETS        |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                      |                                      |
| Total.....  | 348            | 178                                | 81,264         | 411,924           | 66,538             | 128,463           | 289,287         | 911,954                              | 1,389,412         | 2,254,878          | 30,511                    | 66,505               | 593,953                              |
| New England.....                                  | 21             | 11                                 | 2,173          | 8,620             | 1,788              | 3,300             | 6,154           | 18,480                               | 29,797            | 46,881             | 608                       | 22,446               | 191,692                              |
| Connecticut.....                                  | 8              | 3                                  | 274            | 1,069             | 203                | 428               | 664             | 2,200                                | 2,145             | 4,357              | 124                       |                      |                                      |
| Middle Atlantic....                               | 131            | 64                                 | 21,241         | 113,667           | 16,243             | 30,993            | 74,583          | 237,879                              | 320,669           | 547,319            | 4,464                     | 10,809               | 110,876                              |
| New York.....                                     | 104            | 51                                 | 13,196         | 73,966            | 9,700              | 18,309            | 45,907          | 158,487                              | 183,318           | 337,856            | 3,526                     |                      |                                      |
| East North Central.                               | 94             | 60                                 | 45,824         | 232,804           | 38,946             | 75,953            | 174,108         | 513,266                              | 865,170           | 1,350,529          | 19,759                    | 36,616               | 340,766                              |
| Illinois.....                                     | 57             | 39                                 | 29,004         | 144,620           | 24,604             | 47,851            | 105,781         | 301,159                              | 544,048           | 825,695            | 12,155                    | 21,314               | 206,764                              |
| Michigan.....                                     | 9              | 4                                  | 977            | 4,831             | 762                | 1,436             | 3,231           | 8,359                                | 6,740             | 15,059             | 221                       | ( <sup>2</sup> )     | ( <sup>2</sup> )                     |
| West.....   | 55             | 19                                 | 4,276          | 26,060            | 2,901              | 5,925             | 13,606          | 42,122                               | 44,359            | 84,175             | 1,693                     | ( <sup>2</sup> )     | ( <sup>2</sup> )                     |
| California.....                                   | 50             | 19                                 | 4,239          | 25,901            | 2,878              | 5,884             | 13,512          | 41,934                               | 44,092            | 83,714             | 1,677                     | ( <sup>2</sup> )     | ( <sup>2</sup> )                     |
| All other divisions                               | 47             | 24                                 | 7,750          | 30,773            | 6,660              | 12,292            | 20,836          | 100,207                              | 129,417           | 225,974            | 3,987                     | ( <sup>2</sup> )     | ( <sup>2</sup> )                     |
| Iowa.....   | 5              | 5                                  | 1,198          | 4,678             | 1,000              | 2,001             | 3,493           | 7,841                                | 12,399            | 20,154             | 114                       | ( <sup>2</sup> )     | ( <sup>2</sup> )                     |
| INDUSTRY 3652.—PHONOGRAPH RECORDS                 |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                      |                                      |
| Total.....  | 167            | 60                                 | 9,554          | 46,981            | 7,566              | 15,022            | 32,976          | 125,388                              | 54,087            | 180,173            | 8,704                     | 7,421                | 93,079                               |
| New England.....                                  | 6              | 4                                  | 660            | 4,336             | 471                | 921               | 2,220           | 4,656                                | 5,477             | 10,659             | 80                        | 4,302                | 47,116                               |
| Middle Atlantic....                               | 70             | 30                                 | 4,212          | 19,877            | 3,399              | 6,669             | 14,731          | 45,828                               | 25,832            | 71,659             | 2,160                     |                      |                                      |
| New York.....                                     | 33             | 8                                  | 757            | 3,729             | 629                | 1,252             | 2,873           | 5,006                                | 4,675             | 9,760              | 765                       | 681                  | 3,286                                |
| East North Central.                               | 19             | 9                                  | 2,744          | 13,443            | 2,129              | 4,308             | 9,133           | 48,085                               | 14,070            | 61,788             | 1,710                     | 1,709                | 33,110                               |
| Illinois.....                                     | 9              | 4                                  | 322            | 1,401             | 278                | 558               | 1,092           | 2,050                                | 1,419             | 3,489              | 290                       | 195                  | 890                                  |
| West.....   | 53             | 13                                 | 1,645          | 8,259             | 1,318              | 2,673             | 6,043           | 23,958                               | 7,278             | 31,790             | 4,220                     | ( <sup>2</sup> )     | ( <sup>2</sup> )                     |
| California.....                                   | 50             | 13                                 | 1,627          | 8,192             | 1,305              | 2,649             | 6,001           | 23,830                               | 7,199             | 31,584             | 4,207                     | 1,370                | 12,455                               |
| All other divisions                               | 19             | 4                                  | 293            | 1,066             | 249                | 451               | 849             | 2,861                                | 1,430             | 4,277              | 534                       | ( <sup>2</sup> )     | ( <sup>2</sup> )                     |
| INDUSTRY 3661.—TELEPHONE; TELEGRAPH APPARATUS     |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                      |                                      |
| Total.....  | 90             | 56                                 | 89,465         | 554,375           | 63,983             | 122,707           | 358,741         | 1,013,792                            | 704,187           | 1,736,358          | 55,127                    | 80,061               | 715,511                              |
| New England.....                                  | 8              | 4                                  | 10,467         | 58,595            | 7,747              | 14,952            | 38,980          | 114,535                              | 98,358            | 217,944            | 9,082                     | 6,857                | 62,372                               |
| Middle Atlantic....                               | 28             | 17                                 | 16,046         | 106,743           | 11,998             | 23,106            | 73,679          | 161,629                              | 143,822           | 317,988            | 9,909                     | 18,599               | 145,763                              |
| North Central.....                                | 29             | 23                                 | 50,681         | 315,773           | 35,385             | 67,817            | 200,751         | 591,421                              | 368,973           | 966,664            | 29,593                    | 47,702               | 444,865                              |
| South.....  | 12             | 7                                  | 9,389          | 52,860            | 7,113              | 13,571            | 34,987          | 107,110                              | 80,423            | 184,769            | 5,688                     | 6,903                | 62,511                               |
| Pacific.....                                      | 13             | 5                                  | 2,882          | 20,404            | 1,740              | 3,261             | 10,344          | 39,097                               | 12,611            | 48,993             | 855                       |                      |                                      |
| INDUSTRY 3662.—RADIO, TV COMMUNICATIONS EQUIPMENT |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                      |                                      |
| Total.....  | 1,132          | 635                                | 387,384        | 2,840,218         | 205,698            | 419,121           | 1,230,671       | 4,327,671                            | 2,822,882         | 7,145,600          | 138,734                   | <sup>r</sup> 154,350 | <sup>r</sup> 1,558,261               |
| New England.....                                  | 140            | 90                                 | 41,029         | 289,577           | 21,825             | 45,279            | 130,618         | 449,996                              | 355,587           | 801,490            | 9,207                     | <sup>r</sup> 15,341  | <sup>r</sup> 166,994                 |
| New Hampshire....                                 | 13             | 8                                  | 3,191          | 20,640            | 2,176              | 4,469             | 12,571          | 25,981                               | 26,709            | 54,072             | 708                       | 1,558                | 7,537                                |
| Middle Atlantic....                               | 345            | 202                                | 127,027        | 993,027           | 69,730             | 139,614           | 451,649         | 1,365,879                            | 845,338           | 2,244,857          | 37,493                    | <sup>r</sup> 59,366  | <sup>r</sup> 658,966                 |
| North Central.....                                | 195            | 94                                 | 58,055         | 373,470           | 30,004             | 61,729            | 152,846         | 618,396                              | 547,835           | 1,189,512          | 19,099                    | <sup>r</sup> 29,381  | <sup>r</sup> 275,578                 |
| Michigan.....                                     | 25             | 9                                  | 1,973          | 13,574            | 1,139              | 2,534             | 7,258           | 18,312                               | 22,225            | 45,329             | (D)                       | ( <sup>2</sup> )     | ( <sup>2</sup> )                     |
| Nebraska.....                                     | 4              | 3                                  | 184            | 822               | 103                | 209               | 358             | 1,441                                | 1,071             | 2,501              | 72                        | ( <sup>2</sup> )     | ( <sup>2</sup> )                     |
| South.....  | 155            | 92                                 | 61,598         | 423,114           | 33,060             | 67,879            | 172,370         | 724,080                              | 441,971           | 1,155,201          | 27,713                    | <sup>r</sup> 23,070  | <sup>r</sup> 216,582                 |
| Virginia.....                                     | 10             | 8                                  | 5,100          | 31,511            | 2,735              | 5,489             | 11,456          | 59,652                               | 44,995            | 105,224            | 1,320                     | ( <sup>2</sup> )     | ( <sup>2</sup> )                     |
| Florida.....                                      | 42             | 23                                 | 10,074         | 77,379            | 5,203              | 10,792            | 28,574          | 112,889                              | 68,148            | 175,872            | 5,596                     | ( <sup>2</sup> )     | ( <sup>2</sup> )                     |
| Texas.....  | 31             | 15                                 | 8,843          | 61,978            | 4,438              | 10,178            | 28,506          | 135,486                              | 63,152            | 184,909            | 8,990                     | 3,277                | 23,516                               |
| Mountain.....                                     | 22             | 16                                 | 4,603          | 29,764            | 3,734              | 7,754             | 21,454          | 43,636                               | 24,545            | 67,341             | 1,509                     | ( <sup>2</sup> )     | ( <sup>2</sup> )                     |
| Colorado.....                                     | 7              | 3                                  | 170            | 1,051             | 112                | 182               | 604             | 1,114                                | 604               | 1,732              | 60                        | ( <sup>2</sup> )     | ( <sup>2</sup> )                     |
| New Mexico.....                                   | 3              | 3                                  | 254            | 1,312             | 194                | 319               | 833             | 2,066                                | 1,024             | 3,023              | 204                       | ( <sup>2</sup> )     | ( <sup>2</sup> )                     |
| Pacific.....                                      | 275            | 141                                | 95,072         | 731,266           | 47,345             | 96,866            | 301,734         | 1,125,684                            | 607,606           | 1,687,199          | 43,713                    | ( <sup>2</sup> )     | ( <sup>2</sup> )                     |
| Washington.....                                   | 15             | 5                                  | 954            | 6,858             | 542                | 1,056             | 2,244           | 9,680                                | 4,717             | 14,805             | 279                       | ( <sup>2</sup> )     | ( <sup>2</sup> )                     |
| INDUSTRY 3671.—ELECTRON TUBES, RECEIVING TYPE     |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                      |                                      |
| Total.....  | 42             | 22                                 | 25,850         | 136,768           | 20,357             | 37,670            | 88,463          | 250,681                              | 76,109            | 321,091            | 5,596                     | 36,968               | 285,799                              |
| Northeast.....                                    | 25             | 16                                 | 16,637         | 90,993            | 12,432             | 22,543            | 54,144          | 154,689                              | 47,548            | 204,857            | (D)                       | 24,593               | 175,396                              |
| North Central                                     | 17             | 6                                  | 9,213          | 45,775            | 7,925              | 15,127            | 34,319          | 95,992                               | 28,561            | 116,234            | (D)                       | 12,375               | 110,403                              |
| South and West....                                |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                      |                                      |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                 | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3672.—CATHODE RAY PICTURE TUBES     |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                   | 151            | 28                                 | 10,916         | 66,888            | 7,958              | 16,634            | 40,468          | 128,354                              | 142,111           | 269,122            | 16,138                    | 8,554            | 67,472                               |
| Northeast.....                               | 39             | 13                                 | 4,973          | 32,408            | 3,303              | 7,063             | 17,119          | 73,017                               | 43,117            | 116,448            | 5,670                     | 3,515            | 26,420                               |
| East North Central..                         | 36             | 9                                  | 5,388          | 32,140            | 4,176              | 8,632             | 21,509          | 51,365                               | 95,463            | 145,052            | 9,553                     | 4,638            | 37,162                               |
| West North Central..                         | 13             | -                                  | 37             | 179               | 30                 | 53                | 122             | 309                                  | 224               | 559                | 61                        |                  |                                      |
| South and West.....                          | 63             | 6                                  | 518            | 2,161             | 449                | 886               | 1,718           | 3,663                                | 3,307             | 7,063              | 854                       | 401              | 3,890                                |
| INDUSTRY 3673.—ELECTRON TUBES, TRANSMITTING  |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                   | 57             | 45                                 | 18,704         | 129,296           | 11,631             | 24,027            | 72,406          | 204,614                              | 96,311            | 299,527            | 13,262                    | 20,146           | 165,803                              |
| Northeast.....                               | 30             | 24                                 | 8,967          | 58,377            | 5,471              | 10,594            | 31,432          | 93,461                               | 55,431            | 149,340            | (D)                       | 14,332           | 114,836                              |
| New York.....                                | 7              | 7                                  | 3,209          | 20,476            | 1,568              | 2,746             | 7,284           | 39,194                               | 27,489            | 68,202             | 1,403                     | 1,885            | 16,057                               |
| New Jersey.....                              | 13             | 10                                 | 1,161          | 6,961             | 858                | 1,685             | 4,420           | 12,805                               | 5,061             | 16,291             | 760                       | 2,408            | 17,070                               |
| East North Central..                         | 5              | 4                                  | 415            | 2,288             | 279                | 555               | 1,161           | 2,732                                | 1,575             | 4,850              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Illinois.....                                | 5              | 4                                  | 415            | 2,288             | 279                | 555               | 1,161           | 2,732                                | 1,575             | 4,850              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South and West.....                          | 22             | 17                                 | 9,322          | 68,631            | 5,881              | 12,878            | 39,813          | 108,421                              | 39,305            | 145,337            | (D)                       | 5,237            | 47,998                               |
| California.....                              | 16             | 13                                 | 8,023          | 60,483            | 4,916              | 10,840            | 34,536          | 91,677                               | 33,013            | 126,421            | 7,865                     | 4,302            | 32,239                               |
| INDUSTRY 3674.—SEMICONDUCTORS                |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                   | 107            | 87                                 | 56,349         | 320,875           | 37,548             | 77,113            | 168,504         | 467,035                              | 199,384           | 687,817            | 52,439                    | 23,370           | 186,800                              |
| New England.....                             | 27             | 24                                 | 10,126         | 49,437            | 8,126              | 16,982            | 34,357          | 59,534                               | 31,311            | 98,219             | 4,987                     | 6,815            | 46,675                               |
| Massachusetts.....                           | 16             | 15                                 | 6,337          | 31,146            | 5,271              | 10,997            | 23,619          | 35,416                               | 18,770            | 56,306             | 3,842                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Middle Atlantic.....                         | 35             | 28                                 | 19,333         | 114,907           | 12,517             | 24,617            | 58,752          | 163,587                              | 75,386            | 255,816            | 19,584                    | 8,067            | 55,835                               |
| New York.....                                | 13             | 11                                 | 4,614          | 27,396            | 2,990              | 6,078             | 13,163          | 45,617                               | 15,865            | 60,726             | 2,899                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| New Jersey.....                              | 11             | 8                                  | 3,665          | 22,161            | 2,081              | 4,076             | 8,669           | 23,996                               | 9,908             | 36,852             | 2,378                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pennsylvania.....                            | 11             | 9                                  | 11,054         | 65,350            | 7,446              | 14,463            | 36,920          | 93,974                               | 49,613            | 158,238            | 14,307                    | 2,901            | 20,091                               |
| North Central South and West.....            | 45             | 35                                 | 26,890         | 156,531           | 16,905             | 35,514            | 75,395          | 243,914                              | 92,687            | 333,782            | 27,868                    | 8,488            | 84,290                               |
| California.....                              | 28             | 22                                 | 11,198         | 69,820            | 6,543              | 12,645            | 27,146          | 116,242                              | 34,395            | 150,236            | 9,117                     | 3,726            | 33,090                               |
| INDUSTRY 3679.—ELECTRONIC COMPONENTS, N.E.C. |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                   | 1,934          | 968                                | 176,708        | 881,920           | 133,412            | 261,707           | 550,845         | 1,457,433                            | 889,488           | 2,332,215          | 88,508                    | 108,872          | 728,006                              |
| New England.....                             | 258            | 137                                | 32,425         | 156,674           | 24,064             | 45,903            | 96,599          | 238,028                              | 139,047           | 375,077            | 10,047                    | 19,036           | 111,011                              |
| Maine.....                                   | 4              | 3                                  | 399            | 1,605             | 361                | 739               | 1,166           | 1,976                                | 1,915             | 3,933              | 56                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Massachusetts.....                           | 151            | 75                                 | 16,976         | 82,437            | 12,185             | 23,974            | 49,360          | 124,045                              | 72,167            | 195,280            | 4,575                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Connecticut.....                             | 73             | 39                                 | 9,177          | 47,088            | 6,726              | 11,999            | 28,695          | 67,600                               | 42,292            | 109,991            | 3,366                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Middle Atlantic.....                         | 592            | 293                                | 49,110         | 264,329           | 35,816             | 70,873            | 153,606         | 440,139                              | 287,657           | 719,145            | 34,731                    | 36,157           | 259,527                              |
| New York.....                                | 261            | 135                                | 25,784         | 148,565           | 17,890             | 35,928            | 78,365          | 219,210                              | 162,740           | 374,013            | 22,970                    | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| New Jersey.....                              | 215            | 98                                 | 11,296         | 58,469            | 8,406              | 16,595            | 35,923          | 104,391                              | 59,066            | 163,094            | 4,504                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pennsylvania.....                            | 116            | 60                                 | 12,030         | 57,295            | 9,520              | 18,350            | 39,318          | 116,538                              | 65,851            | 182,038            | 7,257                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| North Central.....                           | 425            | 263                                | 47,324         | 212,536           | 37,571             | 72,784            | 141,442         | 361,063                              | 239,719           | 598,809            | 13,675                    |                  |                                      |
| Ohio.....                                    | 58             | 32                                 | 5,117          | 25,741            | 3,727              | 7,202             | 16,226          | 38,209                               | 32,455            | 71,010             | 1,948                     |                  |                                      |
| Illinois.....                                | 169            | 116                                | 20,331         | 87,203            | 16,379             | 31,408            | 57,779          | 139,251                              | 97,181            | 236,424            | 5,160                     |                  |                                      |
| Michigan.....                                | 41             | 17                                 | 3,017          | 13,600            | 2,496              | 4,888             | 9,522           | 28,751                               | 32,657            | 59,080             | 752                       |                  |                                      |
| Wisconsin.....                               | 32             | 19                                 | 2,802          | 14,403            | 2,152              | 3,912             | 8,483           | 23,891                               | 9,915             | 33,479             | 891                       |                  |                                      |
| Nebraska.....                                | 9              | 4                                  | 1,565          | 6,184             | 994                | 2,025             | 2,974           | 11,368                               | 4,467             | 16,298             | 366                       |                  |                                      |
| South.....                                   | 183            | 87                                 | 19,967         | 87,019            | 15,903             | 31,359            | 61,487          | 150,447                              | 93,218            | 247,137            | 9,822                     | 53,679           | 357,468                              |
| West Virginia.....                           | 4              | 3                                  | 905            | 3,800             | 719                | 1,424             | 2,419           | 5,354                                | 2,418             | 7,754              | 136                       |                  |                                      |
| North Carolina.....                          | 15             | 14                                 | 3,643          | 13,521            | 3,045              | 6,101             | 10,184          | 33,356                               | 13,222            | 46,680             | 1,645                     |                  |                                      |
| Tennessee.....                               | 9              | 6                                  | 1,130          | 3,825             | 918                | 1,809             | 2,535           | 5,662                                | 2,961             | 8,389              | 228                       |                  |                                      |
| Texas.....                                   | 38             | 8                                  | 797            | 3,702             | 597                | 1,176             | 2,285           | 5,799                                | 3,407             | 10,617             | 357                       |                  |                                      |
| West.....                                    | 476            | 188                                | 27,882         | 161,362           | 20,058             | 40,788            | 97,711          | 267,756                              | 129,847           | 392,047            | 20,233                    |                  |                                      |
| Colorado.....                                | 7              | 4                                  | 252            | 1,008             | 221                | 481               | 795             | 1,184                                | 352               | 1,542              | 90                        | 121              | 401                                  |
| California.....                              | 433            | 173                                | 26,452         | 153,657           | 19,200             | 38,789            | 93,520          | 256,208                              | 123,977           | 374,454            | 19,743                    | 11,436           | 87,827                               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

Footnotes continued on next page.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

Footnotes for Table 2-36D—Continued

- <sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.
- SIC 3651, Radio and TV Receiving Sets: New England—Maine, 1 (100-249); Massachusetts, 12 (1,000-2,499); Middle Atlantic—New Jersey, 19 (4,726); Pennsylvania, 8 (3,319); East North Central—Ohio, 10 (979); Indiana, 15 (14,565); Wisconsin, 3 (299); West North Central—Minnesota, 6 (500-999); Missouri, 1 (20-99); Kansas, 3 (1-19); South Atlantic—Maryland, 1 (1-19); District of Columbia, 1 (1-19); Virginia, 1 (1-19); North Carolina, 1 (20-99); South Carolina, 1 (1-19); Georgia, 1 (20-99); Florida, 4 (1-19); East South Central—Kentucky, 3 (250-499); Tennessee, 2 (1,000-2,499); West South Central—Arkansas, 5 (1,000-2,499); Oklahoma, 2 (100-249); Texas, 10 (1,000-2,499); Mountain—Colorado, 2 (1-19); Arizona, 1 (1-19); Nevada, 1 (1-19); Pacific—Washington, 1 (1-19).
- SIC 3652, Phonograph Records: New England—New Hampshire, 1 (20-99); Massachusetts, 1 (20-99); Connecticut, 4 (500-999); Middle Atlantic—New Jersey, 26 (2,336); Pennsylvania, 11 (1,119); East North Central—Ohio, 4 (126); Indiana, 3 (2,249); Michigan, 3 (20-99); West North Central—Minnesota, 2 (20-99); South Atlantic—Maryland, 1 (1-19); Florida, 3 (20-99); East South Central—Kentucky, 1 (1-19); Tennessee, 5 (20-99); Mississippi, 1 (20-99); West South Central—Arkansas, 1 (1-19); Louisiana, 1 (1-19); Texas, 4 (20-99); Mountain—Arizona, 1 (1-19); Pacific—Hawaii, 2 (1-19).
- SIC 3661, Telephones; Telegraph Apparatus: New England—New Hampshire, 1 (20-99); Massachusetts, 5 (9,966); Connecticut, 2 (250-499); Middle Atlantic—New York, 19 (5,471); New Jersey, 8 (10,000 and over); Pennsylvania, 1 (1-19); East North Central—Ohio, 5 (6,626); Indiana, 2 (5,000-9,999); Illinois, 15 (29,213); Wisconsin, 1 (100-249); West North Central—Minnesota, 1 (100-249); Iowa, 1 (1-19); Missouri, 3 (4,022); Nebraska, 1 (2,500-4,999); South Atlantic—Maryland, 1 (2,500-4,999); Virginia, 2 (500-999); East South Central—Kentucky, 1 (1-19); Tennessee, 2 (500-999); Mississippi, 1 (250-499); West South Central—Arkansas, 1 (250-499); Oklahoma, 2 (2,500-4,999); Texas, 2 (1-19); Pacific—Oregon, 1 (20-99); California, 12 (2,823).
- SIC 3662, Radio, TV Communications Equipment: New England—Maine, 1 (1-19); Massachusetts, 83 (30,726); Rhode Island, 3 (746); Connecticut, 40 (5,000-9,999); Middle Atlantic—New York, 176 (68,204); New Jersey, 108 (10,000 and over); Pennsylvania, 61 (10,000 and over); East North Central—Ohio, 37 (8,429); Indiana, 20 (5,000-9,999); Illinois, 68 (14,350); Wisconsin, 13 (5,000-9,999); West North Central—Minnesota, 9 (5,000-9,999); Iowa, 5 (5,000-9,999); Missouri, 10 (836); South Dakota, 1 (1-19); Kansas, 3 (304); South Atlantic—Delaware, 1 (1-19); Maryland, 28 (10,000 and over); District of Columbia, 3 (20-99); West Virginia, 1 (20-99); North Carolina, 8 (9,908); South Carolina, 2 (20-99); Georgia, 4 (20-99); East South Central—Kentucky, 4 (100-249); Tennessee, 6 (2,500-4,999); Alabama, 2 (500-999); West South Central—Arkansas, 2 (100-249); Louisiana, 2 (20-99); Oklahoma, 9 (2,500-4,999); Mountain—Arizona, 7 (3,155); Utah, 3 (500-999); Nevada, 2 (100-249); Pacific—Oregon, 3 (20-99); California, 256 (94,071); Alaska, 1 (1-19).
- SIC 3671, Electron Tubes, Receiving Type: New England—Massachusetts, 5 (2,500-4,999); Middle Atlantic—New York, 6 (1,175); New Jersey, 7 (8,242); Pennsylvania, 7 (2,500-4,999); East North Central—Ohio, 2 (1,000-2,499); Indiana, 2 (1,000-2,499); Illinois, 3 (20-99); West North Central—Minnesota, 1 (1-19); Iowa, 1 (1,000-2,499); Nebraska, 1 (1-19); South Atlantic—Maryland, 1 (1-19); South Carolina, 1 (1-19); East South Central—Kentucky, 1 (2,500-4,999); Alabama, 1 (100-249); Pacific—California, 3 (20-99).
- SIC 3672, Cathode Ray Picture Tubes: New England—New Hampshire, 1 (1-19); Massachusetts, 6 (20-99); Middle Atlantic—New York, 11 (569); New Jersey, 10 (231); Pennsylvania, 11 (4,092); East North Central—Ohio, 11 (1,000-2,499); Indiana, 4 (1,000-2,499); Illinois, 14 (2,126); Michigan, 7 (20-99); West North Central—Minnesota, 4 (1-19); Iowa, 1 (1-19); Missouri, 4 (1-19); South Dakota, 1 (1-19); Nebraska, 1 (1-19); Kansas, 2 (1-19); South Atlantic—Virginia, 2 (20-99); North Carolina, 2 (1-19); Georgia, 5 (122); Florida, 4 (20-99); East South Central—Kentucky, 2 (1-19); Tennessee, 5 (1-19); Alabama, 7 (1-19); Mississippi, 2 (1-19); West South Central—Arkansas, 1 (1-19); Louisiana, 4 (20-99); Oklahoma, 2 (1-19); Texas, 5 (20-99); Mountain—Colorado, 2 (1-19); New Mexico, 1 (1-19); Arizona, 4 (1-19); Utah, 1 (1-19); Pacific—Washington, 2 (1-19); Oregon, 2 (1-19); California, 9 (125); Hawaii, 1 (1-19).
- SIC 3673, Electron Tubes, Transmitting: New England—Massachusetts, 5 (2,915); Connecticut, 3 (1,000-2,499); Middle Atlantic—Pennsylvania, 2 (250-499); South Atlantic—Virginia, 1 (100-249); Florida, 1 (500-999); East South Central—Mississippi, 1 (1-19); West South Central—Texas, 2 (100-249); Mountain—Utah, 1 (250-499).
- SIC 3674, Semiconductors: New England—Maine, 1 (500-999); New Hampshire, 1 (500-999); Rhode Island, 3 (500-999); Connecticut, 6 (1,000-2,499); East North Central—Ohio, 1 (1,000-2,499); Illinois, 7 (626); West North Central—Minnesota, 1 (20-99); South Atlantic—Florida, 1 (1-19); East South Central—Mississippi, 1 (1-19); West South Central—Texas, 2 (5,000-9,999); Mountain—Arizona, 4 (5,260).
- SIC 3679, Electronic Components, N.E.C.: New England—New Hampshire, 16 (2,500-4,999); Vermont, 4 (1,000-2,499); Rhode Island, 10 (500-999); East North Central—Indiana, 43 (7,342); West North Central—Minnesota, 34 (2,361); Iowa, 12 (1,000-2,499); Missouri, 14 (800); South Dakota, 2 (100-249); Kansas, 11 (1,000-2,499); South Atlantic—Delaware, 4 (20-99); Maryland, 24 (1,000-2,499); District of Columbia, 1 (20-99); Virginia, 13 (5,624); South Carolina, 5 (2,500-4,999); Georgia, 4 (1-19); Florida, 47 (1,475); East South Central—Kentucky, 6 (100-249); Alabama, 3 (776); Mississippi, 2 (250-499); West South Central—Arkansas, 1 (1-19); Louisiana, 2 (1-19); Oklahoma, 5 (100-249); Mountain—Idaho, 2 (20-99); New Mexico, 6 (20-99); Arizona, 11 (502); Utah, 3 (250-499); Nevada, 2 (1-19); Pacific—Washington, 7 (100-249); Oregon, 5 (20-99).
- <sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.



TABLE 3. Detailed Statistics: 1963

| Item   | Radio and TV receiving sets (SIC 3651) | Phonograph records (SIC 3652) | Telephone; telegraph apparatus (SIC 3661) | Radio, TV communications equipment (SIC 3662) | Electron tubes, receiving type (SIC 3671) | Cathode ray picture tubes (SIC 3672) | Electron tubes, transmitting (SIC 3673) | Semiconductors (SIC 3674) | Electronic components, n.e.c. (SIC 3679) |
|--|--|-------------------------------|---|---|---|--------------------------------------|---|---------------------------|--|
| Primary product specialization ratio: <sup>1</sup>             | .91                                    | .99                           | .95                                       | .88   | .89                                       | .85-.90                              | .80                                     | .88                       | .89                                      |
| Coverage ratio: <sup>2</sup>                                   | .96                                    | .97                           | .95                                       | .91   | .95                                       | .90                                  | .75                                     | .92                       | .78                                      |
| Establishments, total.....number..                             | 348                                    | 167                           | 90  | 1,132   | 42  | 151                                  | 57                                      | 107                       | 1,934                                    |
| With 1 to 19 employees.....do....                              | 170                                    | 107                           | 34  | 497   | 20  | 123                                  | 12                                      | 20                        | 966                                      |
| With 20 to 99 employees.....do....                             | 82                                     | 39                            | 15  | 329   | 3   | 20                                   | 15                                      | 31                        | 555                                      |
| With 100 employees or more.....do....                          | 96                                     | 21                            | 41  | 306   | 19  | 8                                    | 30                                      | 56                        | 413                                      |
| Proprietors and working partners.....do....                    | 74                                     | 49                            | 14  | 175   | 72  | 63                                   | 5                                       | 3                         | 422                                      |
| All employees (average for the year).....do....                | 81,264                                 | 9,554                         | 89,465                                    | 387,384                                       | 25,850                                    | 10,916                               | 18,704                                  | 56,349                    | 176,708                                  |
| Payroll (all employees), total for year.....\$1,000..          | 411,924                                | 46,981                        | 554,375                                   | 2,840,218                                     | 136,768                                   | 66,888                               | 129,296                                 | 320,875                   | 881,920                                  |
| Production workers:  |  |                               |   |   |   |                                      |   |                           |  |
| Average for the year.....number..                              | 66,538                                 | 7,566                         | 63,983                                    | 205,698                                       | 20,357                                    | 7,958                                | 11,631                                  | 37,548                    | 133,412                                  |
| March.....do....   | 58,916                                 | 7,723                         | 68,574                                    | 213,454                                       | 21,918                                    | 7,904                                | 11,681                                  | 37,375                    | 131,896                                  |
| May.....do....   | 62,323                                 | 7,149                         | 60,090                                    | 207,850                                       | 21,128                                    | 7,904                                | 11,929                                  | 37,194                    | 132,911                                  |
| August.....do....  | 71,209                                 | 7,426                         | 63,892                                    | 201,503                                       | 19,953                                    | 7,713                                | 11,600                                  | 37,080                    | 134,116                                  |
| November.....do....  | 73,706                                 | 7,957                         | 63,385                                    | 199,985                                       | 18,437                                    | 8,319                                | 11,329                                  | 38,525                    | 134,720                                  |
| Man-hours.....1,000..  | 128,463                                | 15,022                        | 122,707                                   | 419,121                                       | 37,670                                    | 16,634                               | 24,027                                  | 77,113                    | 261,707                                  |
| January-March.....do....                                       | 28,304                                 | 3,845                         | 38,867                                    | 110,578                                       | 10,745                                    | 4,174                                | 6,287                                   | 19,752                    | 64,840                                   |
| April-June.....do....  | 30,976                                 | 3,520                         | 32,096                                    | 107,207                                       | 10,225                                    | 4,136                                | 6,263                                   | 19,825                    | 66,221                                   |
| July-September.....do....                                      | 33,672                                 | 3,650                         | 26,739                                    | 98,645  | 8,134                                     | 3,957                                | 5,591                                   | 17,708                    | 64,412                                   |
| October-December.....do....                                    | 35,511                                 | 4,007                         | 30,005                                    | 102,691                                       | 8,566                                     | 4,367                                | 5,886                                   | 19,828                    | 66,234                                   |
| Wages.....\$1,000..  | 289,287                                | 32,976                        | 358,741                                   | 1,230,671                                     | 88,463                                    | 40,468                               | 72,406                                  | 168,504                   | 550,845                                  |
| Cost of materials, etc., total.....do....                      | 1,389,412                              | 54,087                        | 704,187                                   | 2,822,882                                     | 76,109                                    | 142,111                              | 96,311                                  | 199,384                   | 889,488                                  |
| Materials, parts, containers, and supplies consumed.....do.... | 1,335,000                              | 49,512                        | 655,050                                   | 2,468,669                                     | 60,103                                    | 138,318                              | 73,946                                  | 183,301                   | 754,690                                  |
| Cost of resales.....do....                                     | 34,681                                 | 1,703                         | 29,466                                    | 156,673                                       | 9,806                                     | 672                                  | 10,054                                  | 2,657                     | 83,006                                   |
| Fuels consumed.....do....                                      | 2,036                                  | 1,216                         | 3,758                                     | 7,163   | 787                                       | 785                                  | 1,100                                   | 1,529                     | 5,261                                    |
| Electric energy:   |  |                               |   |   |   |                                      |   |                           |  |
| Purchased:   |  |                               |   |   |   |                                      |   |                           |  |
| Quantity.....million kw.-hrs..                                 | 367                                    | 105                           | 547                                       | 2,173   | 232                                       | 196                                  | 251                                     | 678                       | 998                                      |
| Cost.....\$1,000..   | 4,703                                  | 1,458                         | 6,013                                     | 25,972  | 2,710                                     | 2,133                                | 2,927                                   | 7,044                     | 14,249                                   |
| Generated less sold.....million kw.-hrs..                      | (D)                                    | -                             | (D)                                       | 43  | -   | -                                    | -                                       | (D)                       | (D)                                      |
| Contract work.....\$1,000..                                    | 12,992                                 | 198                           | 9,900                                     | 164,405                                       | 2,703                                     | 203                                  | 8,284                                   | 4,853                     | 32,282                                   |
| Value of shipments (including resales), total.....do....       | 2,254,878                              | 180,173                       | 1,736,358                                 | 7,145,600                                     | 321,091                                   | 269,122                              | 299,527                                 | 687,817                   | 2,332,215                                |
| Value of resales.....do....                                    | 43,140                                 | 1,838                         | 33,357                                    | 184,511                                       | 11,149                                    | 855                                  | 18,730                                  | 5,116                     | 103,823                                  |
| Value added by manufacture, adjusted.....do....                | 911,954                                | 125,388                       | 1,013,792                                 | 4,327,671                                     | 250,681                                   | 128,354                              | 204,614                                 | 467,035                   | 1,457,433                                |
| Manufacturers' inventories:                                    |  |                               |   |   |   |                                      |   |                           |  |
| Beginning of year, total.....do....                            | 314,841                                | 20,400                        | 356,497                                   | 1,368,034                                     | 48,158                                    | 20,720                               | 75,800                                  | 142,985                   | 377,578                                  |
| Finished products.....do....                                   | 124,775                                | 11,608                        | 29,920                                    | 137,482                                       | 24,476                                    | 5,530                                | 16,836                                  | 44,455                    | 81,071                                   |
| Work-in-process.....do....                                     | 88,432                                 | 2,467                         | 250,147                                   | 974,510                                       | 13,813                                    | 4,979                                | 35,148                                  | 69,924                    | 168,512                                  |
| Materials, supplies, fuel, etc.....do....                      | 101,634                                | 6,325                         | 76,430                                    | 256,042                                       | 9,869                                     | 10,211                               | 23,816                                  | 28,606                    | 127,995                                  |
| End of year, total.....do....                                  | 381,381                                | 19,852                        | 331,398                                   | 1,331,948                                     | 53,327                                    | 23,237                               | 74,176                                  | 118,192                   | 391,982                                  |
| Finished products.....do....                                   | 171,830                                | 10,736                        | 26,902                                    | 143,549                                       | 31,293                                    | 6,360                                | 18,673                                  | 37,722                    | 80,328                                   |
| Work-in-process.....do....                                     | 92,001                                 | 2,641                         | 234,786                                   | 979,271                                       | 12,695                                    | 5,492                                | 34,709                                  | 55,259                    | 183,961                                  |
| Materials, supplies, fuel, etc.....do....                      | 117,550                                | 6,475                         | 69,710                                    | 209,128                                       | 9,339                                     | 11,385                               | 20,794                                  | 25,211                    | 127,693                                  |
| Expenditures for plant and equipment, total.....do....         | 31,031                                 | 9,033                         | 57,315                                    | 149,465                                       | 6,722                                     | 16,410                               | 13,544                                  | 56,057                    | 92,609                                   |
| New, total.....do....  | 30,511                                 | 8,704                         | 55,127                                    | 138,734                                       | 5,596                                     | 16,138                               | 13,262                                  | 52,439                    | 88,508                                   |
| New structures and additions to plant.....do....               | 12,056                                 | 2,700                         | 5,472                                     | 44,023  | 1,025                                     | 2,254                                | 3,263                                   | 14,023                    | 25,902                                   |
| New machinery and equipment.....do....                         | 18,455                                 | 6,004                         | 49,655                                    | 94,711  | 4,571                                     | 13,884                               | 9,999                                   | 38,416                    | 62,606                                   |
| Used plant and equipment.....do....                            | 520                                    | 329                           | 2,188                                     | 10,731  | 1,126                                     | 272                                  | 282                                     | 3,618                     | 4,101                                    |
| Selected operating ratios:                                     |  |                               |   |   |   |                                      |   |                           |  |
| Payroll/Total employment.....                                  | 5,069                                  | 4,917                         | 6,197                                     | 7,332   | 5,291                                     | 6,128                                | 6,913                                   | 5,694                     | 4,991                                    |
| Production workers/Total employment.....                       | .82                                    | .79                           | .72                                       | .53   | .79                                       | .73                                  | .62                                     | .67                       | .75                                      |
| Man-hours/Production workers.....                              | 1,931                                  | 1,985                         | 1,918                                     | 2,038   | 1,850                                     | 2,090                                | 2,066                                   | 2,054                     | 1,962                                    |
| Production worker wages/Man-hours.....                         | 2.25                                   | 2.20                          | 2.92                                      | 2.94  | 2.35                                      | 2.43                                 | 3.01                                    | 2.18                      | 2.10                                     |
| Cost of materials and payrolls/Total value of shipments.....   | .79                                    | .56                           | .72                                       | .79   | .66                                       | .78                                  | .75                                     | .76                       | .76                                      |
| Cost of materials/Total value of shipments.....                | .62                                    | .30                           | .41                                       | .40   | .24                                       | .53                                  | .32                                     | .29                       | .38                                      |
| Adjusted value added/Total employment.....                     | 11,222                                 | 13,124                        | 11,332                                    | 11,172  | 9,698                                     | 11,758                               | 10,940                                  | 8,288                     | 8,248                                    |
| Salaries and wages/Adjusted value added.....                   | .45                                    | .37                           | .55                                       | .66   | .55                                       | .52                                  | .63                                     | .69                       | .61                                      |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item   | Establishments, total | Establishments with an average of- |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| <b>INDUSTRY 3651.—RADIO AND TV RECEIVING SETS</b>        |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                              | 348                   | 81                                 | 48               | 41                 | 50                 | 32                 | 35                   | 25                   | 15                   | 15                       | 6                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 81,264                | 124                                | 350              | 570                | 1,556              | 2,358              | 5,651                | 8,457                | 11,223               | 23,800                   | 27,175                   |
| Payroll.....\$1,000..                                    | 411,924               | 661                                | 1,712            | 2,618              | 7,147              | 10,953             | 24,253               | 38,159               | 53,378               | 121,984                  | 151,059                  |
| Value added, adjusted.....do....                         | 911,954               | 1,081                              | 5,831            | 3,723              | 13,166             | 24,887             | 46,428               | 74,639               | 102,688              | 286,149                  | 353,362                  |
| Value of shipments.....do....                            | 2,254,878             | 2,444                              | 8,469            | 9,229              | 26,129             | 51,480             | 106,587              | 145,364              | 272,588              | 760,517                  | 872,071                  |
| Capital expenditures, new...do....                       | 30,511                | 1210                               | 317              | 257                | 608                | 864                | 1,015                | 1,267                | 2,147                | 8,479                    | 15,347                   |
| <b>INDUSTRY 3652.—PHONOGRAPH RECORDS</b>                 |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                              | 167                   | 59                                 | 26               | 22                 | 25                 | 14                 | 12                   | 4                    | 4                    | 1                        | -                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 9,554                 | 100                                | 196              | 299                | 861                | 922                | 1,922                | 5,254                | (D)                  | (D)                      | -                        |
| Payroll.....\$1,000..                                    | 46,981                | 536                                | 869              | 1,536              | 3,590              | 4,406              | 8,536                | 27,508               | (D)                  | (D)                      | -                        |
| Value added, adjusted.....do....                         | 125,388               | 1,972                              | 1,929            | 3,922              | 6,551              | 8,362              | 18,001               | 84,651               | (D)                  | (D)                      | -                        |
| Value of shipments.....do....                            | 180,173               | 3,038                              | 3,154            | 6,028              | 11,148             | 12,740             | 28,376               | 115,689              | (D)                  | (D)                      | -                        |
| Capital expenditures, new...do....                       | 8,704                 | 23,773                             | 462              | 367                | 675                | 623                | 848                  | 1,956                | (D)                  | (D)                      | -                        |
| <b>INDUSTRY 3661.—TELEPHONE; TELEGRAPH APPARATUS</b>     |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                              | 90                    | 18                                 | 8                | 8                  | 11                 | 4                  | 10                   | 6                    | 9                    | 4                        | 12                       |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 89,465                | 25                                 | 56               | 111                | 309                | 242                | 1,726                | 2,229                | 84,767               | (D)                      | (D)                      |
| Payroll.....\$1,000..                                    | 554,375               | 135                                | 310              | 648                | 1,486              | 1,466              | 9,403                | 13,968               | 526,959              | (D)                      | (D)                      |
| Value added, adjusted.....do....                         | 1,013,792             | 247                                | 488              | 1,459              | 3,327              | 2,603              | 16,351               | 28,922               | 960,395              | (D)                      | (D)                      |
| Value of shipments.....do....                            | 1,736,358             | 506                                | 833              | 2,002              | 6,132              | 3,720              | 30,703               | 46,301               | 1,646,161            | (D)                      | (D)                      |
| Capital expenditures, new...do....                       | 55,127                | 78                                 | 57               | 103                | 271                | 69                 | 288                  | 813                  | 53,448               | (D)                      | (D)                      |
| <b>INDUSTRY 3662.—RADIO, TV COMMUNICATIONS EQUIPMENT</b> |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                              | 1,132                 | 211                                | 138              | 148                | 196                | 134                | 120                  | 52                   | 49                   | 41                       | 43                       |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 387,384               | 333                                | 942              | 2,065              | 6,191              | 9,317              | 18,565               | 18,235               | 34,863               | 66,114                   | 230,759                  |
| Payroll.....\$1,000..                                    | 2,840,218             | 3,580                              | 5,456            | 11,616             | 36,634             | 54,472             | 119,010              | 119,606              | 235,772              | 499,843                  | 1,754,229                |
| Value added, adjusted.....do....                         | 4,327,671             | 3,623                              | 8,313            | 19,210             | 58,200             | 96,689             | 182,085              | 180,672              | 366,634              | 735,526                  | 2,676,719                |
| Value of shipments.....do....                            | 7,145,600             | 6,136                              | 15,190           | 32,365             | 98,441             | 157,469            | 296,346              | 297,299              | 645,991              | 1,168,309                | 4,428,054                |
| Capital expenditures, new...do....                       | 138,734               | 3891                               | 538              | 692                | 2,387              | 3,945              | 10,006               | 6,336                | 12,695               | 23,407                   | 77,837                   |
| <b>INDUSTRY 3671.—ELECTRON TUBES, RECEIVING TYPE</b>     |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                              | 42                    | 9                                  | 6                | 5                  | 2                  | 1                  | 2                    | 2                    | 4                    | 9                        | 2                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 25,850                | 15                                 | 37               | 104                | (D)                | 1,156              | (D)                  | (D)                  | 3,042                | 21,496                   | (D)                      |
| Payroll.....\$1,000..                                    | 136,768               | 75                                 | 158              | 425                | (D)                | 4,389              | (D)                  | (D)                  | 14,500               | 117,221                  | (D)                      |
| Value added, adjusted.....do....                         | 250,681               | 175                                | 303              | 719                | (D)                | 4,799              | (D)                  | (D)                  | 35,014               | 209,671                  | (D)                      |
| Value of shipments.....do....                            | 321,091               | 242                                | 425              | 1,098              | (D)                | 6,661              | (D)                  | (D)                  | 49,808               | 262,857                  | (D)                      |
| Capital expenditures, new...do....                       | 5,596                 | 25                                 | 23               | 34                 | (D)                | 76                 | (D)                  | (D)                  | 573                  | 4,865                    | (D)                      |
| <b>INDUSTRY 3672.—CATHODE RAY PICTURE TUBES</b>          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                              | 151                   | 77                                 | 27               | 19                 | 15                 | 5                  | 2                    | 1                    | 1                    | 3                        | 1                        |
| All employees:   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....   | 10,916                | 130                                | 176              | 274                | 468                | 320                | 1,412                | (D)                  | (D)                  | 8,136                    | (D)                      |
| Payroll.....\$1,000..                                    | 66,888                | 598                                | 709              | 1,168              | 2,117              | 1,611              | 8,646                | (D)                  | (D)                  | 52,039                   | (D)                      |
| Value added, adjusted.....do....                         | 128,354               | 951                                | 1,026            | 1,828              | 2,743              | 3,923              | 8,034                | (D)                  | (D)                  | 109,849                  | (D)                      |
| Value of shipments.....do....                            | 269,122               | 1,845                              | 1,988            | 3,033              | 6,163              | 6,542              | 25,895               | (D)                  | (D)                  | 223,656                  | (D)                      |
| Capital expenditures, new...do....                       | 16,138                | 406                                | 310              | 254                | 496                | 300                | 773                  | (D)                  | (D)                  | 13,599                   | (D)                      |

See footnotes at end of table.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963—Continued

| Item   | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3673.—ELECTRON TUBES, TRANSMITTING  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                  | 57                    | 4                                  | 6                | 2                  | 6                  | 9                  | 10                   | 8                    | 6                    | 5                        | 1                        |
| All employees:                               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                             | 18,704                | 81                                 | (D)              | (D)                | 200                | 634                | 1,433                | 2,701                | 4,082                | 9,573                    | (D)                      |
| Payroll.....\$1,000..                        | 129,296               | 425                                | (D)              | (D)                | 1,139              | 3,501              | 9,949                | 18,710               | 27,781               | 67,791                   | (D)                      |
| Value added, adjusted.....do....             | 204,614               | 793                                | (D)              | (D)                | 1,954              | 5,686              | 15,802               | 29,386               | 49,786               | 101,207                  | (D)                      |
| Value of shipments.....do....                | 299,527               | 1,046                              | (D)              | (D)                | 3,509              | 8,339              | 20,823               | 39,088               | 71,534               | 155,188                  | (D)                      |
| Capital expenditures, new...do....           | 13,262                | 98                                 | (D)              | (D)                | 81                 | 134                | 663                  | 1,773                | 2,285                | 8,228                    | (D)                      |
| INDUSTRY 3674.—SEMICONDUCTORS                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                  | 107                   | 9                                  | 4                | 7                  | 13                 | 18                 | 19                   | 8                    | 14                   | 11                       | 4                        |
| All employees:                               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                             | 56,349                | 18                                 | 32               | 104                | 455                | 1,332              | 3,173                | 2,958                | 10,071               | 17,516                   | 20,690                   |
| Payroll.....\$1,000..                        | 320,875               | 119                                | 178              | 668                | 2,713              | 7,073              | 17,333               | 16,232               | 52,794               | 102,756                  | 121,009                  |
| Value added, adjusted.....do....             | 467,035               | 86                                 | 358              | 1,099              | 4,211              | 10,358             | 32,793               | 29,086               | 75,414               | 115,611                  | 198,019                  |
| Value of shipments.....do....                | 687,817               | 232                                | 494              | 1,571              | 6,097              | 14,665             | 45,876               | 40,801               | 111,936              | 188,828                  | 277,317                  |
| Capital expenditures, new...do....           | 52,439                | 13                                 | 31               | 154                | 470                | 696                | 1,879                | 1,631                | 6,451                | 12,048                   | 29,066                   |
| INDUSTRY 3679.—ELECTRONIC COMPONENTS, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                  | 1,934                 | 506                                | 229              | 231                | 337                | 218                | 238                  | 109                  | 47                   | 16                       | 3                        |
| All employees:                               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                             | 176,708               | 975                                | 1,560            | 3,164              | 10,702             | 15,468             | 36,455               | 39,092               | 32,410               | 24,234                   | 12,648                   |
| Payroll.....\$1,000..                        | 881,920               | 4,848                              | 7,758            | 14,688             | 51,074             | 75,082             | 169,598              | 195,985              | 155,790              | 135,184                  | 71,913                   |
| Value added, adjusted.....do....             | 1,457,433             | 8,497                              | 13,700           | 23,777             | 79,766             | 140,486            | 274,755              | 338,540              | 274,182              | 207,031                  | 96,699                   |
| Value of shipments.....do....                | 2,332,215             | 15,411                             | 21,973           | 40,315             | 132,553            | 221,922            | 458,705              | 523,145              | 416,100              | 343,910                  | 158,181                  |
| Capital expenditures, new...do....           | 88,508                | 47,998                             | 979              | 1,286              | 4,426              | 6,650              | 11,329               | 15,095               | 12,197               | 23,451                   | 5,097                    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>Includes capital expenditures of \$100-\$200 thousand for plants under construction but not in operation.

<sup>2</sup>Includes capital expenditures of \$2-\$5 million for plants under construction but not in operation.

<sup>3</sup>Includes capital expenditures of \$500-\$1,000 thousand for plants under construction but not in operation.

<sup>4</sup>Includes capital expenditures of \$5-\$10 million for plants under construction but not in operation.



TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                           | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |  | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3651      | Radio and TV receiving sets.....1963..             | 2,254,878          | 1,991,885        | 190,751            | 72,242                 | 91                                   | 2,070,838                          | 1,991,885             | 78,953                   | 96                            |
|           | 1958..   | 1,548,006          | 1,364,275        | 129,669            | 54,062                 | 91                                   | 1,481,575                          | 1,364,275             | 117,300                  | 92                            |
| 3652      | Phonograph records.....1963..                      | 180,173            | 174,063          | 3,822              | 2,288                  | 99                                   | 178,699                            | 174,063               | 4,636                    | 97                            |
|           | 1958..   | 148,731            | 133,016          | 4,236              | 11,479                 | 97                                   | 136,165                            | 133,016               | 3,149                    | 98                            |
| 3661      | Telephone; telegraph apparatus....1963..           | 1,736,358          | 1,463,433        | 192,478            | 80,447                 | <sup>1</sup> 95                      | 1,538,015                          | 1,463,433             | 74,582                   | <sup>1</sup> 95               |
|           | 1958..   | 1,207,955          | 1,077,273        | 77,243             | 53,439                 | <sup>1</sup> 96                      | 1,079,017                          | 1,077,273             | 1,744                    | <sup>1</sup> 99               |
| 3662      | Radio, TV communications equip-<br>ment.....1963.. | 7,145,600          | 5,511,882        | 750,466            | 883,252                | 88                                   | 6,052,037                          | 5,511,882             | 540,155                  | 91                            |
|           | 1958 <sup>2</sup> ..                               | 2,852,617          | 1,971,726        | 309,307            | 571,584                | 86                                   | 2,382,330                          | 1,971,726             | 410,604                  | 83                            |
| 3671      | Electron tubes, receiving type....1963..           | 321,091            | 272,436          | 33,846             | 14,809                 | 89                                   | 287,893                            | 272,436               | 15,457                   | 95                            |
|           | 1958..   | 382,526            | 323,502          | 38,492             | 20,532                 | 89                                   | 337,274                            | 323,502               | 13,772                   | 96                            |
| 3672      | Cathode ray picture tubes.....1963..               | 269,122            | 223,667          | ( <sup>2</sup> )   | <sup>2</sup> 45,455    | ( <sup>2</sup> )                     | 248,515                            | 223,667               | 24,848                   | 90                            |
|           | 1958..   | 159,252            | 149,535          | 5,710              | 4,007                  | 96                                   | 177,251                            | 149,535               | 27,716                   | 84                            |
| 3673      | Electron tubes, transmitting.....1963..            | 299,527            | 213,736          | 52,807             | 32,984                 | 80                                   | 286,663                            | 213,736               | 72,927                   | 75                            |
|           | 1958..   | 258,474            | 181,055          | 37,954             | 39,465                 | 83                                   | 224,899                            | 181,055               | 43,844                   | 81                            |
| 3674      | Semiconductors.....1963..                          | 687,817            | 575,087          | 76,342             | 36,388                 | 88                                   | 623,278                            | 575,087               | 48,191                   | 92                            |
|           | 1958..   | 250,306            | (NA)             | (NA)               | (NA)                   | (NA)                                 | 236,702                            | (NA)                  | (NA)                     | (NA)                          |
| 3679      | Electronic components, n.e.c.....1963..            | 2,332,215          | 1,943,715        | 242,542            | 145,958                | 89                                   | 2,501,294                          | 1,943,715             | 557,579                  | 78                            |
|           | 1958..   | 1,195,378          | (NA)             | (NA)               | (NA)                   | (NA)                                 | 1,297,570                          | (NA)                  | (NA)                     | (NA)                          |

Note: See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. <sup>1</sup>Revised.

<sup>1</sup>The exact percentages shown, while correct to the extent that they are mathematical calculations, are not very meaningful because of duplication in the value of shipments. See introductory text for this industry.

<sup>2</sup>For 1963, secondary products are included with miscellaneous receipts. The specialization ratio is between 85-90 percent.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars except for ranges (shown in parentheses) which are expressed in millions of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous

receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                            | Class of products and miscellaneous receipts   | All industries | Radio and TV receiving sets (SIC 3651) | Other industries |
|---|--|----------------|--|------------------|
| <b>RADIO AND TV RECEIVING SETS INDUSTRY</b> |  |                |  |                  |
|   | Total shipments and receipts of the industry.....  | (X)            | 2,254,878                              | (X)              |
|   | Primary products.....  | 2,070,838      | 1,991,885                              | 78,953           |
| 36511                                       | Household and automobile radios, and radio-phonograph combinations.....  | 531,290        | 496,921                                | 34,369           |
| 36512                                       | Household television receivers, including television combinations.....   | 1,092,310      | 1,092,165                              | 145              |
| 36513                                       | Recorders, audio-amplifiers, phonographs, tuners, speaker systems, and other audio equipment and accessories.....  | 431,102        | 386,727                                | 44,375           |
| 36510                                       | Radio and TV receiving sets, n.s.k.....  | 16,136         | 16,072                                 | 64               |
|   | Secondary products.....  | (X)            | 190,751                                | (X)              |
| 36112                                       | Testing equipment for testing electrical, radio, and communication circuits and motors.....  | (X)            | 4,079                                  | (X)              |
| 36621                                       | Commercial, industrial, and military electronic communication equipment (except broadcast equipment, space satellite-borne communications equipment (complete package))..... | (X)            | 8,384                                  | (X)              |
| 36622                                       | Radio and television broadcast equipment, and closed circuit systems.....  | (X)            | 9,768                                  | (X)              |
| 36623                                       | Intercommunication equipment (except telephone and telegraph) and electric alarm and signal systems and devices.....   | (X)            | 3,744                                  | (X)              |
| 36625                                       | Electronic search and detection apparatus, including radar, infrared, and sonar.....   | (X)            | 10,105                                 | (X)              |
| 36626                                       | Electronic military, industrial, and commercial equipment, n.e.c.....  | (X)            | 10,516                                 | (X)              |
| 36794                                       | Coils, transformers, reactors, and chokes for electronic applications.....   | (X)            | 19,709                                 | (X)              |
| 36795                                       | Other electronic components and accessories, n.e.c., including parts for electron tubes (except glass blanks).....   | (X)            | 43,065                                 | (X)              |
|   | All other secondary products.....  | (X)            | 81,381                                 | (X)              |
| 35811                                       | Automatic merchandising machines.....  | (X)            | (5-10)                                 | (X)              |
| 35851                                       | Heat transfer equipment.....   | (X)            | (over 2)                               | (X)              |
| 36720                                       | Cathode ray picture tubes, including rebuilt tubes.....  | (X)            | (over 2)                               | (X)              |
| 36740                                       | Solid state semiconductor devices.....   | (X)            | (10-20)                                | (X)              |
| 36942                                       | Battery charging generators.....   | (X)            | (over 2)                               | (X)              |
| 37175                                       | Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufacturers.....  | (X)            | (2-5)                                  | (X)              |
| 38424                                       | Electrical hearing aids.....   | (X)            | (2-5)                                  | (X)              |
| 38611                                       | Still picture equipment.....   | (X)            | (2-5)                                  | (X)              |
| 38613                                       | Motion picture equipment.....  | (X)            | (over 2)                               | (X)              |
| 39312                                       | Organs.....  | (X)            | (5-10)                                 | (X)              |
|   | Miscellaneous receipts.....  | (X)            | 72,242                                 | (X)              |
|   | Contract work.....   | (X)            | 14,720                                 | (X)              |
|   | Resales.....   | (X)            | 43,140                                 | (X)              |
|   | Other miscellaneous receipts.....  | (X)            | 14,382                                 | (X)              |
|   | Listing of other industries with over \$2 million shipments of each primary product class:   |                |  |                  |
| 36511                                       | 3634 Electric housewares and fans.....   | (X)            | (X)                                    | (over 2)         |
|   | 3662 Radio, TV communications equipment.....   | (X)            | (X)                                    | (over 2)         |
| 36513                                       | 3581 Automatic vending machines.....   | (X)            | (X)                                    | (over 2)         |
|   | 3611 Electric measuring instruments.....   | (X)            | (X)                                    | 2,362            |
|   | 3662 Radio, TV communications equipment.....   | (X)            | (X)                                    | 11,716           |
|   | 3679 Electronic components, n.e.c.....   | (X)            | (X)                                    | 14,223           |
|   | 3931 Musical instruments and parts.....  | (X)            | (X)                                    | (2-5)            |
|   |  | All industries | Phonograph records (SIC 3652)          | Other industries |
| <b>PHONOGRAPH RECORDS INDUSTRY</b>          |  |                |  |                  |
|   | Total shipments and receipts of the industry.....  | (X)            | 180,173                                | (X)              |
| 36520                                       | Phonograph records.....  | 178,699        | 174,063                                | 4,636            |
|   | Secondary products.....  | (X)            | 3,822                                  | (X)              |
|   | Miscellaneous receipts.....  | (X)            | 2,288                                  | (X)              |
|   | Resales.....   | (X)            | 1,838                                  | (X)              |
|   | Other miscellaneous receipts.....  | (X)            | 450                                    | (X)              |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code                                   | Class of products and miscellaneous receipts   | All industries | Telephone; telegraph apparatus, (SIC 3661)    | Other industries |
|--|--|----------------|---|------------------|
| <b>TELEPHONE; TELEGRAPH APPARATUS INDUSTRY</b>     |  |                |   |                  |
|  | Total shipments and receipts of the industry.....  | (X)            | 1,736,358                                     | (X)              |
|  | Primary products.....  | 1,538,015      | 1,463,433                                     | 74,582           |
| 36611  | Telephone switching and switchboard equipment.....   | 491,339        | 489,347                                       | 1,992            |
| 36612  | Other telephone and telegraph (wire) apparatus, equipment, and components.....   | 1,045,173      | 972,583                                       | 72,590           |
| 36610  | Telephone, telegraph apparatus, n.s.k.....   | 1,503          | 1,503   | -                |
|  | Secondary products.....  | (X)            | 192,478                                       | (X)              |
| 36621  | Commercial, industrial, and military electronic communication equipment (except broadcast equipment, space satellite-borne communications equipment (complete package))..... | (X)            | 43,208  | (X)              |
| 33560  | All other secondary products.....  | (X)            | 149,270                                       | (X)              |
| 19291  | Ammunition over 30 mm. (or 1.18 inches and over) n.e.c.....  | (X)            | (over 2)                                      | (X)              |
| 25420  | Metal partitions, shelving, lockers, and office and store fixtures.....  | (X)            | (over 2)                                      | (X)              |
| 33512  | Rolled, drawn and extruded copper and copper-base alloy mill shapes.....   | (X)            | (over 2)                                      | (X)              |
| 33560  | Rolled, drawn, and extruded nonferrous metal mill products (except copper and aluminum).....   | (X)            | (over 2)                                      | (X)              |
| 35595  | Other special industry machinery and equipment.....  | (X)            | (over 2)                                      | (X)              |
| 36112  | Test equipment for testing electrical, radio, and communication circuits and motors.....   | (X)            | (over 2)                                      | (X)              |
| 36131  | Switchgear, including power switchgear assemblies and other switching and interrupting devices 2300 volts and over.....  | (X)            | (over 2)                                      | (X)              |
| 36220  | General industry power circuit devices and controls.....   | (X)            | (5-10)  | (X)              |
| 36292  | Rectifying apparatus.....  | (X)            | (over 2)                                      | (X)              |
| 36410  | Electric lamps (bulbs only) including sealed beam lamps.....   | (X)            | (over 2)                                      | (X)              |
| 36430  | Current carrying wiring devices, including lightning rods.....   | (X)            | (over 2)                                      | (X)              |
| 36441  | Pole-line and transmission hardware.....   | (X)            | (over 2)                                      | (X)              |
| 36623  | Intercommunication equipment (except telephone and telegraph) and electric alarm and signal systems and devices.....   | (X)            | (2-5)   | (X)              |
| 36710  | Receiving type electron tubes, except cathode ray.....   | (X)            | (over 2)                                      | (X)              |
| 36730  | Transmitting, industrial and special purpose electron tubes (except X-ray).....  | (X)            | (2-5)   | (X)              |
| 36740  | Solid state semiconductor devices.....   | (X)            | (over 2)                                      | (X)              |
| 36793  | Resistors for electronic applications.....   | (X)            | (over 2)                                      | (X)              |
| 36795  | Other electronic components and accessories, n.e.c., including parts for electron tubes (except glass blanks).....   | (X)            | (20-50)                                       | (X)              |
|  | Miscellaneous receipts.....  | (X)            | 80,447  | (X)              |
|  | Contract work.....   | (X)            | 1,647   | (X)              |
|  | Resales.....   | (X)            | 33,357  | (X)              |
|  | Other miscellaneous receipts.....  | (X)            | 45,443  | (X)              |
| 36612  | Listing of other industries with over \$2 million shipments of each primary product class:   |                |   |                  |
|  | 3357 Nonferrous wire drawing, etc.....   | (X)            | (X)   | (over 2)         |
|  | 3662 Radio, TV communications equipment.....   | (X)            | (X)   | (20-50)          |
|  | 3674 Semiconductors.....   | (X)            | (X)   | (over 2)         |
|  |  | All industries | Radio, TV communications equipment (SIC 3662) | Other industries |
| <b>RADIO, TV COMMUNICATIONS EQUIPMENT INDUSTRY</b> |  |                |   |                  |
|  | Total shipments and receipts of the industry.....  | (X)            | 7,145,600                                     | (X)              |
|  | Primary products.....  | 6,052,037      | 5,511,882                                     | 540,155          |
| 36621  | Commercial industrial and military electronic communication equipment (except broadcast equipment, space satellite-borne communications equipment (complete package)).....   | 1,080,989      | 972,384                                       | 108,605          |
| 36622  | Radio and television broadcast equipment, and closed circuit systems.....  | 150,931        | 133,279                                       | 17,652           |
| 36623  | Intercommunication equipment (except telephone and telegraph) and electric alarm and signal systems and devices.....   | 165,801        | 125,720                                       | 40,081           |
| 36624  | Electronic navigational aids (except missile-borne and space vehicle basin equipment).....   | 1,246,261      | 1,212,484                                     | 33,777           |
| 36625  | Electronic search and detection apparatus, including radar, infrared and sonar.....  | 1,644,863      | 1,493,695                                     | 151,168          |
| 36626  | Electronic military, industrial, and commercial equipment, n.e.c.....  | 723,925        | 595,052                                       | 128,873          |
| 36627  | Space satellite-borne communication systems (complete package).....  | 28,709         | 28,709  | -                |
| 36628  | Missile-borne and space vehicle-borne navigation and guidance systems and equipment.....   | 978,597        | 919,014                                       | 59,583           |
| 36620  | Radio, TV communications equipment, n.s.k.....   | 31,961         | 31,545  | 416              |
|  | Secondary products.....  | (X)            | 750,466                                       | (X)              |
| 19410  | Sighting and fire-control equipment made from purchased lenses.....  | (X)            | 12,997  | (X)              |
| 19990  | Ordnance and accessories, n.e.c.....   | (X)            | 6,134   | (X)              |
| 34460  | Architectural and ornamental metal work (except curtain wall and other exterior panels).....   | (X)            | 2,283   | (X)              |
| 34990  | Fabricated metal products, n.e.c.....  | (X)            | 3,535   | (X)              |
| 35595  | Other special industry machinery and equipment.....  | (X)            | 3,581   | (X)              |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code  | Class of products and miscellaneous receipts   | All industries | Radio, TV communications equipment (SIC 3662) | Other industries |
|---|--|----------------|---|------------------|
| RADIO, TV COMMUNICATIONS EQUIPMENT INDUSTRY—Continued                                       |  |                |   |                  |
| Secondary products—Continued  |  |                |   |                  |
| 35711   | Electronic data processing machines, and associated equipment, except typewriters.....                             | (X)            | 28,158  | (X)              |
| 35712   | Computing and accounting machines, including cash registers.....   | (X)            | 16,868  | (X)              |
| 36112   | Test equipment for testing electrical, radio, and communication circuits, and motors.....                          | (X)            | 30,760  | (X)              |
| 36215   | Motor generator sets and other rotating equipment.....   | (X)            | 4,688   | (X)              |
| 36220   | General industry power circuit devices and controls.....   | (X)            | 5,540   | (X)              |
| 36513   | Recorders, audio amplifiers, phonographs, tuners, speaker systems, and other audio equipment and accessories.....  | (X)            | 11,716  | (X)              |
| 36730   | Transmitting, industrial, and special purpose electron tubes (except X-ray).....                                   | (X)            | 12,462  | (X)              |
| 36794   | Coils, transformers, reactors and chokes for electronic applications.....  | (X)            | 8,403   | (X)              |
| 36795   | Other electronic components and accessories, n.e.c., including parts for electron tubes (except glass blanks)..... | (X)            | 73,481  | (X)              |
| 36992   | Lamp bulb components, (except glass blanks) and electrical products.....   | (X)            | 4,226   | (X)              |
| 37216   | Other aeronautical services for aircraft.....  | (X)            | 7,880   | (X)              |
| 37291   | Other aircraft parts and auxiliary equipment.....  | (X)            | 35,012  | (X)              |
| 37292   | Guided missile components and subassemblies, n.e.c.....  | (X)            | 39,315  | (X)              |
| 37294   | Research and development on missile parts and components, n.e.c.....   | (X)            | 5,814   | (X)              |
| 38111   | Aircraft, flight, nautical, and navigational instruments and automatic pilots.....                                 | (X)            | 169,361                                       | (X)              |
| 38112   | Laboratory and scientific instruments.....   | (X)            | 5,755   | (X)              |
| 38213   | Industrial process instruments.....  | (X)            | 2,129   | (X)              |
| 38216   | Other mechanical measuring and controlling instruments.....  | (X)            | 4,028   | (X)              |
| 38311   | Optical instruments and lenses, except sighting and fire-control equipment.....                                    | (X)            | 12,223  | (X)              |
|   | All other secondary products.....  | (X)            | 244,117                                       | (X)              |
| 19251   | Guided missiles, complete.....   | (X)            | (20-50)                                       | (X)              |
| 19253   | Research and development on guided missiles (complete).....  | (X)            | (10-20)                                       | (X)              |
| 19255   | All other services on complete missiles and space vehicles.....  | (X)            | (2-5)   | (X)              |
| 33620   | Copper and copper-base alloy castings.....   | (X)            | (over 2)                                      | (X)              |
| 36133   | Low voltage panelboards and distribution boards and switching and interrupting devices 750 volts and under.....    | (X)            | (5-10)  | (X)              |
| 36511   | Household and automobile radios, and radio-phonograph combinations.....  | (X)            | (over 2)                                      | (X)              |
| 36612   | Other telephone and telegraph (wire) apparatus, equipment, and components.....                                     | (X)            | (20-50)                                       | (X)              |
| 36792   | Capacitors for electronic applications.....  | (X)            | (2-5)   | (X)              |
| 36920   | Primary batteries, dry and wet.....  | (X)            | (over 2)                                      | (X)              |
| 37224   | Aircraft engine parts and accessories.....   | (X)            | (2-5)   | (X)              |
| 38211   | Aircraft engine instruments, except flight.....  | (X)            | (10-20)                                       | (X)              |
| 38220   | Automatic temperature controls.....  | (X)            | (2-5)   | (X)              |
| 38312   | Sighting and fire-control equipment made from lenses, prisms, etc., produced in the same plant.....                | (X)            | (10-20)                                       | (X)              |
| 38611   | Still picture equipment.....   | (X)            | (2-5)   | (X)              |
| 39312   | Organs.....  | (X)            | (over 2)                                      | (X)              |
|   | Miscellaneous receipts.....  | (X)            | 883,252                                       | (X)              |
|   | Contract work.....   | (X)            | 20,152  | (X)              |
|   | Resales.....   | (X)            | 184,511                                       | (X)              |
|   | Receipts for installation.....   | (X)            | 29,083  | (X)              |
|   | Receipts for research and development work.....  | (X)            | 560,869                                       | (X)              |
|   | Receipts for repair work.....  | (X)            | 31,594  | (X)              |
|   | Other miscellaneous receipts.....  | (X)            | 57,043  | (X)              |
| Listings of other industries with over \$2 million shipments of each primary product class: |  |                |   |                  |
| 36621   | 1929 Ammunition, n.e.c.....  | (X)            | (X)   | (over 2)         |
|   | 3357 Nonferrous wire drawing, etc.....   | (X)            | (X)   | (over 2)         |
|   | 3571 Computing and related machines.....   | (X)            | (X)   | (over 2)         |
|   | 3651 Radio and TV receiving sets.....  | (X)            | (X)   | 8,384            |
|   | 3661 Telephone; telegraph apparatus.....   | (X)            | (X)   | 43,208           |
|   | 3679 Electronic components, n.e.c.....   | (X)            | (X)   | 7,256            |
|   | 3722 Aircraft engines and parts.....   | (X)            | (X)   | (over 2)         |
|   | 3729 Aircraft equipment, n.e.c.....  | (X)            | (X)   | (2-5)            |
| 36622   | 3611 Electric measuring instruments.....   | (X)            | (X)   | (2-5)            |
|   | 3651 Radio and TV receiving sets.....  | (X)            | (X)   | 9,768            |
| 36623   | 3613 Switchgear and switchboards.....  | (X)            | (X)   | (2-5)            |
|   | 3634 Electric housewares and fans.....   | (X)            | (X)   | (over 2)         |
|   | 3644 Noncurrent carrying devices.....  | (X)            | (X)   | (over 2)         |
|   | 3651 Radio and TV receiving sets.....  | (X)            | (X)   | 3,744            |
|   | 3661 Telephone; telegraph apparatus.....   | (X)            | (X)   | (2-5)            |
|   | 3729 Aircraft equipment, n.e.c.....  | (X)            | (X)   | (2-5)            |
|   | 3871 Watches and clocks.....   | (X)            | (X)   | (5-10)           |
| 36624   | 1925 Complete guided missiles.....   | (X)            | (X)   | (over 2)         |
|   | 1941 Sighting and fire-control equipment.....  | (X)            | (X)   | (over 2)         |
|   | 3571 Computing and related machines.....   | (X)            | (X)   | (2-5)            |
|   | 3721 Aircraft.....   | (X)            | (X)   | (over 2)         |
|   | 3729 Aircraft equipment, n.e.c.....  | (X)            | (X)   | (2-5)            |
|   | 3811 Scientific instruments.....   | (X)            | (X)   | (2-5)            |
|   | 3861 Photographic equipment.....   | (X)            | (X)   | (over 2)         |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963—Continued

| Prod. class code  | Class of products and miscellaneous receipts   | All industries | Radio, TV communications equipment (SIC 3662) | Other industries |
|---|--|----------------|---|------------------|
| RADIO, TV COMMUNICATIONS EQUIPMENT INDUSTRY—Continued   |  |                |   |                  |
| Listings of other industries with over \$2 million shipments of each primary product class—Con. |  |                |   |                  |
| 36625   | 3611 Electric measuring instruments.....   | (X)            | (X)   | (over 2)         |
|   | 3651 Radio and TV receiving sets.....  | (X)            | (X)   | 10,105           |
|   | 3721 Aircraft.....   | (X)            | (X)   | (50-100)         |
|   | 3722 Aircraft engines and parts.....   | (X)            | (X)   | (over 2)         |
|   | 3729 Aircraft equipment, n.e.c.....  | (X)            | (X)   | 16,834           |
|   | 3811 Scientific instruments.....   | (X)            | (X)   | (2-5)            |
|   | 3861 Photographic equipment.....   | (X)            | (X)   | (over 2)         |
| 36626   | 1925 Complete guided missiles.....   | (X)            | (X)   | 18,300           |
|   | 3611 Electric measuring instruments.....   | (X)            | (X)   | 10,318           |
|   | 3621 Motors and generators.....  | (X)            | (X)   | (2-5)            |
|   | 3651 Radio and TV receiving sets.....  | (X)            | (X)   | 10,516           |
|   | 3673 Electron tubes, transmitting.....   | (X)            | (X)   | 3,284            |
|   | 3679 Electronic components, n.e.c.....   | (X)            | (X)   | 32,230           |
|   | 3721 Aircraft.....   | (X)            | (X)   | (5-10)           |
|   | 3729 Aircraft equipment, n.e.c.....  | (X)            | (X)   | 9,649            |
|   | 3821 Mechanical measuring devices.....   | (X)            | (X)   | 6,116            |
| 36628   | 1925 Complete guided missiles.....   | (X)            | (X)   | (5-10)           |
|   | 1941 Sighting and fire-control equipment.....  | (X)            | (X)   | (over 2)         |
|   | 3721 Aircraft.....   | (X)            | (X)   | (over 2)         |
|   | 3722 Aircraft engines and parts.....   | (X)            | (X)   | (2-5)            |
|   | 3729 Aircraft equipment, n.e.c.....  | (X)            | (X)   | (10-20)          |
|   | 3811 Scientific instruments.....   | (X)            | (X)   | (over 2)         |
|   |  | All industries | Electron tubes, receiving type (SIC 3671)     | Other industries |
| ELECTRON TUBES, RECEIVING TYPE, INDUSTRY  |  |                |   |                  |
| Total shipments and receipts of the industry.....   |  | (X)            | 321,091                                       | (X)              |
| 36710   | Receiving type electron tubes, except cathode ray.....   | 287,893        | 272,436                                       | 15,457           |
| Secondary products.....   |  | (X)            | 33,846  | (X)              |
| 36730   | Transmitting, industrial, and special purpose electron tubes (except X-ray).....                                   | (X)            | 14,734  | (X)              |
| 36795   | Other electronic components and accessories, n.e.c., including parts for electron tubes (except glass blanks)..... | (X)            | 16,591  | (X)              |
| All other secondary products.....   |  | (X)            | 2,521   | (X)              |
| Miscellaneous receipts.....   |  | (X)            | 14,809  | (X)              |
| Resales.....  |  | (X)            | 11,149  | (X)              |
| Receipts for work done for others on their own materials.....                                   |  | (X)            | 2,732   | (X)              |
| Other miscellaneous receipts.....   |  | (X)            | 928   | (X)              |
| Listing of other industries with over \$2 million shipments of receiving type electron tubes:   |  |                |   |                  |
| 36710   | 3661 Telephone; telegraph apparatus.....   | (X)            | (X)   | (over 2)         |
|   | 3674 Semiconductors.....   | (X)            | (X)   | (over 2)         |
|   |  | All industries | Cathode ray picture tubes (SIC 3672)          | Other industries |
| CATHODE RAY PICTURE TUBES INDUSTRY  |  |                |   |                  |
| Total shipments and receipts of the industry.....   |  | (X)            | 269,122                                       | (X)              |
| 36720   | Cathode ray picture tubes, including rebuilt tubes.....  | 248,515        | 223,667                                       | 24,848           |
| Secondary products and miscellaneous receipts.....  |  | (X)            | 45,455  | (X)              |
| 36795   | Other electronic components and accessories.....   | (X)            | 3,657   | (X)              |
| All other secondary products and miscellaneous receipts.....                                    |  | (X)            | 41,798  | (X)              |
| 36730   | Electron tubes, transmitting.....  | (X)            | (over 2)                                      | (X)              |
| Listing of other industries with over \$2 million shipments of cathode ray picture tubes:       |  |                |   |                  |
| 36720   | 3651 Radio and TV receiving sets.....  | (X)            | (X)   | (over 2)         |
|   | 3673 Electron tubes, transmitting.....   | (X)            | (X)   | (over 2)         |
|   | 3674 Semiconductors.....   | (X)            | (X)   | (over 2)         |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code                       | Class of products and miscellaneous receipts   | All industries | Electron tubes, transmitting (SIC 3673) | Other industries |
|--|--|----------------|---|------------------|
| ELECTRON TUBES, TRANSMITTING, INDUSTRY |  |                |   |                  |
|  | Total shipments and receipts of the industry.....  | (X)            | 299,527                                 | (X)              |
| 36730                                  | Transmitting, industrial, and special purpose electron tubes (except X-ray).....                                   | 286,663        | 213,736                                 | 72,927           |
|  | Secondary products.....  | (X)            | 52,807                                  | (X)              |
| 36626                                  | Electronic military, industrial, and commercial equipment, n.e.c.....  | (X)            | 3,284                                   | (X)              |
| 36795                                  | Other electronic components and accessories, n.e.c., including parts for electron tubes (except glass blanks)..... | (X)            | 5,820                                   | (X)              |
|  | All other secondary products.....  | (X)            | 43,703                                  | (X)              |
| 36720                                  | Cathode ray picture tubes, including rebuilt tubes.....  | (X)            | (over 2)                                | (X)              |
| 36740                                  | Solid state semiconductor devices.....   | (X)            | (2-5)                                   | (X)              |
| 36930                                  | X-ray equipment, including X-ray tubes, and electro-therapeutic apparatus.....                                     | (X)            | (5-10)                                  | (X)              |
| 38112                                  | Laboratory and scientific instruments.....   | (X)            | (over 2)                                | (X)              |
| 38311                                  | Optical instruments and lenses, except sighting and fire-control equipment.....                                    | (X)            | (over 2)                                | (X)              |
|  | Miscellaneous receipts.....  | (X)            | 32,984                                  | (X)              |
|  | Resales.....   | (X)            | 18,730                                  | (X)              |
|  | Other miscellaneous receipts.....  | (X)            | 14,254                                  | (X)              |
| 36730                                  | Listing of other industries with over \$2 million shipments of electron tubes, transmitting:                       |                |   |                  |
|  | 3661 Telephone; telegraph apparatus.....   | (X)            | (X)                                     | (2-5)            |
|  | 3662 Radio and TV communications equipment.....  | (X)            | (X)                                     | 12,462           |
|  | 3671 Electron tubes, receiving.....  | (X)            | (X)                                     | 14,734           |
|  | 3672 Cathode ray picture tubes.....  | (X)            | (X)                                     | (over 2)         |
|  | 3674 Semiconductors.....   | (X)            | (X)                                     | (5-10)           |
|  |  | All industries | Semiconductors (SIC 3674)               | Other industries |
| SEMICONDUCTORS INDUSTRY                |  |                |   |                  |
|  | Total shipments and receipts of the industry.....  | (X)            | 687,817                                 | (X)              |
| 36740                                  | Solid state semiconductor devices.....   | 623,278        | 575,087                                 | 48,191           |
|  | Secondary products.....  | (X)            | 76,342                                  | (X)              |
| 36792                                  | Capacitors for electronic applications.....  | (X)            | 4,268                                   | (X)              |
| 36795                                  | Other electronic components and accessories, n.e.c., including parts for electron tubes (except blanks).....       | (X)            | 28,901                                  | (X)              |
|  | All other secondary products.....  | (X)            | 43,173                                  | (X)              |
| 35595                                  | Other special industry machinery and equipment.....  | (X)            | (over 2)                                | (X)              |
| 36612                                  | Other telephone and telegraph (wire) apparatus, equipment, and components.....                                     | (X)            | (over 2)                                | (X)              |
| 36710                                  | Receiving type electron tubes, except cathode ray.....   | (X)            | (over 2)                                | (X)              |
| 36720                                  | Cathode ray picture tubes, including rebuilt tubes.....  | (X)            | (over 2)                                | (X)              |
| 36730                                  | Transmitting, industrial, and special purpose electron tubes (except X-ray).....                                   | (X)            | (5-10)                                  | (X)              |
| 36793                                  | Resistors for electronic applications.....   | (X)            | (5-10)                                  | (X)              |
|  | Miscellaneous receipts.....  | (X)            | 36,388                                  | (X)              |
|  | Receipts for research and developmental work.....  | (X)            | 19,048                                  | (X)              |
|  | Resales.....   | (X)            | 5,116                                   | (X)              |
|  | Other miscellaneous receipts.....  | (X)            | 12,224                                  | (X)              |
| 36740                                  | Listing of other industries with over \$2 million shipments of solid state semiconductor devices:                  |                |   |                  |
|  | 3535 Conveyors.....  | (X)            | (X)                                     | (over 2)         |
|  | 3651 Radios and TV receiving sets.....   | (X)            | (X)                                     | (10-20)          |
|  | 3661 Telephone; telegraph apparatus.....   | (X)            | (X)                                     | (over 2)         |
|  | 3673 Electron tubes, transmitting.....   | (X)            | (X)                                     | (2-5)            |
|  | 3679 Electronic components, n.e.c.....   | (X)            | (X)                                     | 14,503           |
|  | 3822 Automatic temperature controls.....   | (X)            | (X)                                     | (over 2)         |

See footnotes at end of table.



**TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963 —Continued**

| Prod. class code                        | Class of products and miscellaneous receipts   | All industries | Electronic components, n.e.c. (SIC 3679) | Other industries |
|---|--|----------------|--|------------------|
| ELECTRONIC COMPONENTS, N.E.C., INDUSTRY |  |                |  |                  |
|   | Total shipments and receipts of the industry.....  | (X)            | 2,332,215                                | (X)              |
|   | Primary products.....  | 2,501,294      | 1,943,715                                | 557,579          |
| 36792                                   | Capacitors for electronic applications.....  | 318,831        | 299,920                                  | 18,911           |
| 36793                                   | Resistors for electronic applications.....   | 312,583        | 230,369                                  | 82,214           |
| 36794                                   | Coils, transformers, reactors and chokes for electronic applications.....  | 274,443        | 233,292                                  | 41,151           |
| 36795                                   | Other electronic components and accessories, n.e.c., including parts for electron tubes (except glass blanks).....                         | 1,496,668      | 1,081,847                                | 414,821          |
| 36790                                   | Electronic components, n.e.c., n.s.k.....  | 98,769         | 98,287                                   | 482              |
|   | Secondary products.....  | (X)            | 242,542                                  | (X)              |
| 36112                                   | Test equipment for testing electrical, radio, and communication circuits, and motors.....  | (X)            | 4,599                                    | (X)              |
| 36113                                   | Other electrical measuring instruments.....  | (X)            | 9,662                                    | (X)              |
| 36131                                   | Switchgear, including power switchgear assemblies and other switching and interrupting devices 2300 volts and over.....                    | (X)            | 3,691                                    | (X)              |
| 36211                                   | Fractional horsepower motors.....  | (X)            | 4,696                                    | (X)              |
| 36220                                   | General industry power circuit devices and controls.....   | (X)            | 2,410                                    | (X)              |
| 36430                                   | Current carrying wiring devices, including lightning rods.....   | (X)            | 10,615                                   | (X)              |
| 36513                                   | Recorders, audio amplifiers, phonographs, tuners, speaker systems, and other audio equipment and accessories.....                          | (X)            | 14,223                                   | (X)              |
| 36621                                   | Commercial, industrial, and military electronic communication equipment, except broadcast, and home-type intercommunication equipment..... | (X)            | 7,256                                    | (X)              |
| 36626                                   | Electronic military, industrial and commercial equipment, n.e.c.....   | (X)            | 32,230                                   | (X)              |
| 36740                                   | Semiconductor devices.....   | (X)            | 14,503                                   | (X)              |
| 36992                                   | Lamp bulb components (except glass blanks) and other electrical products.....  | (X)            | 5,549                                    | (X)              |
| 38111                                   | Aircraft, flight, nautical, and navigational instruments and automatic pilots.....   | (X)            | 4,207                                    | (X)              |
| 38213                                   | Industrial process instruments.....  | (X)            | 4,401                                    | (X)              |
| 38311                                   | Optical instruments and lenses, except sighting and fire-control equipment.....  | (X)            | 16,739                                   | (X)              |
|   | All other secondary products.....  | (X)            | 107,761                                  | (X)              |
| 19990                                   | Ordnance and accessories, n.e.c.....   | (X)            | (2-5)                                    | (X)              |
| 22953                                   | Other impregnated and coated fabrics (except rubber coated).....   | (X)            | (2-5)                                    | (X)              |
| 30795                                   | Industrial plastics products.....  | (X)            | (2-5)                                    | (X)              |
| 34612                                   | Job stampings, except automotive.....  | (X)            | (2-5)                                    | (X)              |
| 35197                                   | Parts and accessories for internal combustion engines.....   | (X)            | (over 2)                                 | (X)              |
| 35712                                   | Computing and accounting machines, including cash registers.....   | (X)            | (2-5)                                    | (X)              |
| 35990                                   | Carburetors, pistons and other machine shop products.....  | (X)            | (2-5)                                    | (X)              |
| 36121                                   | Specialty transformers and fluorescent ballasts, except parts.....   | (X)            | (2-5)                                    | (X)              |
| 36291                                   | Capacitors for industrial use (except for electronic applications).....  | (X)            | (5-10)                                   | (X)              |
| 36941                                   | Ignition harness and cable sets.....   | (X)            | (over 2)                                 | (X)              |
| 36945                                   | Other complete electrical equipment for internal combustion engines.....   | (X)            | (2-5)                                    | (X)              |
| 37224                                   | Aircraft engine parts and accessories.....   | (X)            | (over 2)                                 | (X)              |
|   | Miscellaneous receipts.....  | (X)            | 145,958                                  | (X)              |
|   | Contract work.....   | (X)            | 11,493                                   | (X)              |
|   | Resales.....   | (X)            | 103,823                                  | (X)              |
|   | Sales of scrap and refuse and miscellaneous repair work.....   | (X)            | 10,539                                   | (X)              |
|   | Other miscellaneous receipts.....  | (X)            | 20,103                                   | (X)              |
|   | Listing of other industries with over \$2 million shipments of each primary product class:   |                |  |                  |
| 36792                                   | 3629 Electric industrial goods, n.e.c.....   | (X)            | (X)                                      | (2-5)            |
|   | 3662 Radio and TV communications equipment.....  | (X)            | (X)                                      | (2-5)            |
|   | 3674 Semiconductors.....   | (X)            | (X)                                      | 4,268            |
|   | 3694 Engine electrical equipment.....  | (X)            | (X)                                      | (over 2)         |
| 36793                                   | 3571 Computing and related machines.....   | (X)            | (X)                                      | (over 2)         |
|   | 3622 Industrial controls.....  | (X)            | (X)                                      | (over 2)         |
|   | 3624 Carbon and graphite products.....   | (X)            | (X)                                      | (2-5)            |
|   | 3661 Telephone; telegraph apparatus.....   | (X)            | (X)                                      | (over 2)         |
|   | 3674 Semiconductors.....   | (X)            | (X)                                      | (5-10)           |
| 36794                                   | 3611 Electric measuring instruments.....   | (X)            | (X)                                      | (2-5)            |
|   | 3612 Transformers.....   | (X)            | (X)                                      | 4,384            |
|   | 3629 Electric industrial goods, n.e.c.....   | (X)            | (X)                                      | 2,132            |
|   | 3651 Radio and TV receiving sets.....  | (X)            | (X)                                      | 19,709           |
|   | 3662 Radio, TV communications equipment.....   | (X)            | (X)                                      | 8,403            |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code | Class of products and miscellaneous receipts   | All industries | Electronic components, n.e.c. (SIC 3679) | Other industries |
|------------------|--|----------------|--|------------------|
|                  | ELECTRONIC COMPONENTS, N.E.C., INDUSTRY—Continued  |                |  |                  |
|                  | Listing of other industries with over \$2 million shipments of each primary product class—Con. |                |  |                  |
| 36795            | 2641 Paper coating and glazing.....  | (X)            | (X)                                      | (over 2)         |
|                  | 3317 Steel pipe and tube.....  | (X)            | (X)                                      | (over 2)         |
|                  | 3357 Nonferrous wire drawing, etc.....   | (X)            | (X)                                      | (over 2)         |
|                  | 3449 Miscellaneous metalwork, n.e.c.....   | (X)            | (X)                                      | (2-5)            |
|                  | 3481 Fabricated wire products, n.e.c.....  | (X)            | (X)                                      | (2-5)            |
|                  | 3494 Valves and pipe fittings.....   | (X)            | (X)                                      | (2-5)            |
|                  | 3541 Metal-cutting machine tools.....  | (X)            | (X)                                      | (2-5)            |
|                  | 3571 Computing and related machines.....   | (X)            | (X)                                      | 74,696           |
|                  | 3611 Electric measuring instruments.....   | (X)            | (X)                                      | 18,375           |
|                  | 3612 Transformers.....   | (X)            | (X)                                      | (2-5)            |
|                  | 3643 Current carrying devices.....   | (X)            | (X)                                      | 19,476           |
|                  | 3651 Radio and TV receiving sets.....  | (X)            | (X)                                      | 43,065           |
|                  | 3661 Telephone; telegraph apparatus.....   | (X)            | (X)                                      | (20-50)          |
|                  | 3662 Radio, TV communications equipment.....   | (X)            | (X)                                      | 73,481           |
|                  | 3671 Electron tubes, receiving type.....   | (X)            | (X)                                      | 16,591           |
|                  | 3672 Cathode ray picture tubes.....  | (X)            | (X)                                      | 3,657            |
|                  | 3673 Electron tubes, transmitting.....   | (X)            | (X)                                      | 5,820            |
|                  | 3674 Semiconductors.....   | (X)            | (X)                                      | 28,901           |
|                  | 3699 Electrical products, n.e.c.....   | (X)            | (X)                                      | 2,599            |
|                  | 3729 Aircraft equipment, n.e.c.....  | (X)            | (X)                                      | 13,256           |
|                  | 3821 Mechanical measuring devices.....   | (X)            | (X)                                      | (5-10)           |
|                  | 3861 Photographic equipment.....   | (X)            | (X)                                      | (2-5)            |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.



TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product  | Value of shipments including interplant transfers (\$1,000) |                            |
|--------------|--|---|----------------------------|
|              |  | 1963  | 1958                       |
| 3651- --     | RADIO AND TELEVISION RECEIVING SETS, EXCEPT COMMUNICATIONS TYPES, TOTAL.....   | 2,070,838   | <sup>1</sup> 1,481,575     |
| 36511 10     | Household and automobile radios, and radio-phonograph combinations:<br>As reported in the census of manufactures <sup>2</sup> .....  | 531,290   | <sup>3</sup> 344,892       |
|              | As reported on Census Annual Form MA-36M <sup>2</sup> .....  | 520,034   | <sup>3</sup> 343,662       |
| 36512 20     | Household television receivers, including television combinations:<br>As reported in the census of manufactures <sup>2</sup> .....   | 1,092,310   | 726,595                    |
|              | As reported on Census Annual Form MA-36M <sup>2</sup> .....  | 1,067,061   | 691,242                    |
| 36513 --     | Recorders, audio amplifiers, phonographs, tuners, speaker systems, and other audio equipment and accessories.....  | 431,102   | <sup>1</sup> 3409,445 (NA) |
|              | As reported on the Census Annual Forms MA-36M and MA-36N <sup>2</sup> .....  | 394,893   |                            |
| 36513 20     | Phonographs and record players:<br>As reported in the census of manufactures <sup>2</sup> .....  | 175,912   | (NA)                       |
|              | As reported on Census Annual Form MA-36M <sup>2</sup> .....  | 174,089   | <sup>3</sup> 204,334       |
| 36513 30     | Recorders, tuners, and other home-type electronic equipment for sale separately:<br>As reported in the census of manufactures <sup>2</sup> .....   | 125,452   | (NA)                       |
|              | As reported on Census Annual Form MA-36M <sup>2</sup> .....  | 103,924   | <sup>1</sup> 83,267        |
| 36513 51     | Loudspeakers, speaker systems:<br>As reported in the census of manufactures <sup>2</sup> .....   | 71,277  | 63,714 (X)                 |
|              | As reported on Census Annual Form MA-36N <sup>2</sup> .....  | 69,510  |                            |
| 36513 55     | Microphones:<br>As reported in the census of manufactures <sup>2</sup> .....   | 18,868  | 11,763 (X)                 |
|              | As reported on Census Annual Form MA-36N <sup>2</sup> .....  | 17,555  |                            |
| 36513 60     | Home-type electronic kits to be assembled by consumer for radio receivers, tuners, amplifiers, and other audio equipment:<br>As reported in the census of manufactures <sup>2</sup> .....          | 14,544  | 13,326 (X)                 |
|              | As reported on Census Annual Form MA-36N <sup>2</sup> .....  | 13,944  |                            |
| 36513 70     | Chassis for home-type radio receivers, for sale separately:<br>As reported in the census of manufactures <sup>2</sup> .....  | ( <sup>4</sup> )  | 1,311                      |
|              | As reported on Census Annual Form MA-36M <sup>2</sup> .....  | ( <sup>4</sup> )  | 1,358                      |
| 36513 80     | Chassis for home-type television receivers, for sale separately:<br>As reported in the census of manufactures <sup>2</sup> .....   | <sup>4</sup> 12,055   | 4,702                      |
|              | As reported on Census Annual Form MA-36M <sup>2</sup> .....  | <sup>4</sup> 8,819  | 2,916                      |
| 36513 90     | Other commercial sound equipment, except broadcast, including complete public address systems, music distribution apparatus, etc.:<br>As reported in the census of manufactures <sup>2</sup> ..... | 9,485   | 19,065 (X)                 |
|              | As reported on Census Annual Form MA-36N <sup>2</sup> .....  | 7,052   |                            |
| 36513 00     | Recorders, audio amplifiers, audio equipment, etc., n.s.k.....   | 3,509   | 7,964                      |
| 36510 00     | Radio and television receiving sets, n.s.k.....  | 16,136  | 643                        |

| Product code | Product  | Unit of measure | 1963                                   |   |                 | 1958                                   |   |                 |
|--------------|--|-----------------|--|---|-----------------|--|---|-----------------|
|              |  |                 | Production for all purposes (quantity) | Total shipments, including interplant transfers |                 | Production for all purposes (quantity) | Total shipments, including interplant transfers |                 |
|              |  |                 |  | Quantity  | Value (\$1,000) |  | Quantity  | Value (\$1,000) |
| 3652- --     | PHONOGRAPH RECORDS, RECORD BLANKS, AND PRERECORDED TAPES, TOTAL.....               |                 | (X)                                    | (X)   | 178,699         | (X)                                    | (X)   | 136,165         |
| 36520 22     | Disc records (except electrical transcriptions):<br>45 r.p.m. - for own label..... | 1,000 units     | 98,827                                 | 70,686  | 15,420          | 82,835                                 | 70,629  | 19,509          |
| 36520 24     | 45 r.p.m. - on contract basis for others.....                                      | ..do.....       | (X)                                    | 111,629   | 12,640          | (X)                                    | 114,478   | 13,382          |
| 36520 31     | 33-1/3 r.p.m. for own label:<br>Stereophonic.....                                  | ..do.....       | 58,643                                 | 31,017  | 35,368          | 71,259                                 | 59,900  | 70,972          |
| 36520 33     | Monaural.....  | ..do.....       | 68,865                                 | 52,100  | 40,213          |  |   |                 |
| 36520 35     | 33-1/3 r.p.m. - on contract basis for others:<br>Stereophonic.....                 | ..do.....       | (X)                                    | 40,030  | 21,100          | (X)                                    | 42,741  | 15,709          |
| 36520 37     | Monaural.....  | ..do.....       | (X)                                    | 36,057  | 22,910          | (X)                                    |   |                 |
| 36520 61     | Other speeds, including 78 r.p.m. and electrical transcriptions of all speeds..... | ..do.....       | 15,803                                 | 23,749  | 11,942          | 22,799                                 | 40,218  | 8,503           |
| 36520 81     | Prerecorded tapes.....   | 1,000 reels     | 1,425                                  | 1,443   | 3,801           | 375                                    | 339   | 1,285           |
| 36520 91     | Record blanks (disc type and other).....   | .....           | (X)                                    | (X)   | 5,506           | (X)                                    | (X)   | 4,396           |
| 36520 00     | Phonograph records, n.s.k.....   | .....           | (X)                                    | (X)   | 9,799           | (X)                                    | (X)   | 2,609           |

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Total shipments including interplant transfers              |                    |                              |                    |
|--------------|---|---|--------------------|------------------------------|--------------------|
|              |   | 1963  |                    | 1958                         |                    |
|              |   | Quantity<br>(number of sets)                                | Value<br>(\$1,000) | Quantity<br>(number of sets) | Value<br>(\$1,000) |
| 3661- --     | TELEPHONE AND TELEGRAPH APPARATUS, TOTAL.....   | (X)   | 1,538,015          | (X)                          | 1,079,017          |
| 36611 --     | Telephone switching and switchboard equipment.....  | (X)   | 491,339            | (X)                          | 434,708            |
| 36611 11     | Telephone switchboard (central office and PBX subscriber A and B, trunk and toll).....  | (X)   | 96,725             | (X)                          | 61,803             |
| 36611 53     | Dial automatic telephone switching equipment (central office, PBX, and toll) excluding electronic switching equipment.....  | (X)   | 378,866            | (X)                          | 372,905            |
| 36611 55     | Electronic telephone switching equipment (central office, PBX, and toll).....   | (X)   | 15,748             |                              |                    |
| 36612 --     | Other telephone and telegraph (wire) apparatus, equipment, and components. Telephone carrier equipment and repeater equipment (including open-wire and cable transmission):   | (X)   | 1,045,173          | (X)                          | 637,339            |
| 36612 13     | Carrier equipment.....  | (X)   | 223,310            | (X)                          | 136,814            |
| 36612 15     | Repeater equipment.....   |   |                    |                              |                    |
| 36612 31     | Telephone instrument sets (transmitters and receivers with or without dial, for subscriber use only).....   | 8,534,246   | 120,393            | 6,879,767                    | 101,077            |
| 36612 61     | Other telephone apparatus and equipment, including components.....  | (X)   | 572,914            | (X)                          | 307,623            |
| 36612 73     | Telegraph (wire) apparatus equipment, and components, including military: Teleprinter units (a unit is interpreted as a perforator, a reperforator, a transmitting unit, a receiving unit, a teleprinter whether it be page or tape printer sending or receiving or both. Such units combined in one case or housing are considered separate units).....  | (X)   | 116,669            | (X)                          | 91,825             |
| 36612 75     | Telegraph switching equipment.....  |   |                    |                              |                    |
| 36612 77     | Telegraph carrier systems.....  |   |                    |                              |                    |
| 36612 79     | All other telegraph apparatus, equipment and components, including facsimile.....   |   |                    |                              |                    |
| 36612 81     | Data sets (digital or analog).....  | 14,447  | 9,969              | (NA)                         | (NA)               |
| 36612 00     | Other telephone and telegraph (wire) apparatus, equipment and components, n.s.k.....  | (X)   | 1,918              | (X)                          | -                  |
| 36610 00     | Telephone and telegraph apparatus, n.s.k.....   | (X)   | 1,503              | (X)                          | 6,970              |
| Product code | Product   | Value of shipments including interplant transfers (\$1,000) |                    |                              |                    |
|              |   | 1963  | 1958               |                              |                    |
| 3662- --     | RADIO AND TV COMMUNICATION EQUIPMENT, TOTAL.....  | 6,052,037   | 2,382,330          |                              |                    |
| 36621 --     | Commercial, industrial, and military electronic communication equipment, except broadcast equipment and home-type intercommunication equipment.....   | 1,080,989   | 416,001            |                              |                    |
| 36621 10     | Commercial, industrial, and military electronic communication equipment (except broadcast equipment, space satellite-borne communications systems (complete package), home-type intercommunication equipment, and microwave and mobile telephone communication equipment):<br>As reported in the census of manufactures <sup>2</sup> .....<br>As reported on Census Annual Form MA-36N <sup>2</sup> ..... | 1,013,221<br>980,485  | 372,125<br>(X)     |                              |                    |
| 36621 77     | Microwave telephone (communication) equipment.....  | 50,829  | 38,589             |                              |                    |
| 36621 79     | Mobile telephone (communication) equipment.....   | 14,025  | 635                |                              |                    |
| 36621 00     | Commercial, industrial and military electronic communication equipment, n.s.k.....  | 2,914   | 4,652              |                              |                    |
| 36622 10     | Radio and television broadcast equipment, and closed circuit systems:<br>As reported in the census of manufactures <sup>2</sup> .....<br>As reported on Census Annual Form MA-36N <sup>2</sup> .....  | 150,931<br>143,397  | 53,812<br>(X)      |                              |                    |
| 36623 --     | Intercommunication equipment (except telephone and telegraph) and electric alarm systems and signals systems and devices.....   | 165,801   | 129,786            |                              |                    |
| 36623 10     | Intercommunication equipment, excluding railway signals:<br>As reported in the census of manufactures <sup>2</sup> .....<br>As reported on Census Annual Form MA-36N <sup>2</sup> .....   | 135,606<br>129,143  | 83,402<br>(X)      |                              |                    |
| 36623 21     | Railway signals and attachments, electric:<br>Railroad highway grade crossing signals, exclusive of relays and other control apparatus.....   | 3,891   | 3,419              |                              |                    |
| 36623 29     | Other railway signal systems and safety control equipment.....  | 24,515  | 37,721             |                              |                    |
| 36623 00     | Intercommunication equipment (except telephone and telegraph) and electric alarm and signals systems and devices, n.s.k.....  | 1,789   | 5,244              |                              |                    |

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Value of shipments including interplant transfers (\$1,000) |                             |
|--------------|--|---|-----------------------------|
|              |  | 1963  | 1958                        |
| 3662- --     | RADIO AND TV COMMUNICATION EQUIPMENT—Continued   |   |                             |
| 36624 10     | Electronic navigational aids, except missile-borne and space-vehicle borne equipment:<br>As reported in the census of manufactures <sup>2</sup> .....<br>As reported on Census Annual Form MA-36N <sup>2</sup> ..... | 1,246,261<br>1,224,230                                      | 425,542<br>(X)              |
| 36625 10     | Electronic search and detection apparatus, including radar, infrared and sonar:<br>As reported in the census of manufactures <sup>2</sup> .....<br>As reported on Census Annual Form MA-36N <sup>2</sup> .....       | 1,644,863<br>1,563,909                                      | 1,016,440<br>(X)            |
| 36626 10     | Electronic military, industrial, and commercial equipment, n.e.c.:<br>As reported in the census of manufactures <sup>2</sup> .....<br>As reported on Census Annual Form MA-36N <sup>2</sup> .....                    | 723,925<br>662,984  | <sup>1</sup> 340,749<br>(X) |
| 36627 10     | Space satellite-borne communications systems (complete package):<br>As reported in the census of manufactures <sup>2</sup> .....<br>As reported on Census Annual Form MA-36N <sup>2</sup> .....                      | 28,709<br>28,409  | (NA)<br>(X)                 |
| 36628 10     | Missile-borne and space vehicle-borne navigation and guidance systems and equipment:<br>As reported in the census of manufactures <sup>2</sup> .....<br>As reported on Census Annual Form MA-36N <sup>2</sup> .....  | 978,597<br>961,391  | (NA)<br>(X)                 |
| 36620 00     | Radio and TV communication equipment, n.s.k.....   | 31,961  | -                           |
| 3671- --     | ELECTRON TUBES, RECEIVING TYPE, TOTAL.....   | 287,893   | 337,274                     |
| 36710 00     | Radio and television receiving type electron tubes, except cathode ray:<br>As reported in the census of manufactures <sup>2</sup> .....<br>As reported on Census Annual Form MA-36N <sup>2</sup> .....               | 287,893<br>276,098  | 337,274<br>(X)              |
| 3672- --     | CATHODE RAY PICTURE TUBES, TOTAL.....  | 248,515   | 177,251                     |
| 36720 00     | Cathode ray picture tubes, including rebuilt:<br>As reported in the census of manufactures <sup>2</sup> .....<br>As reported on Census Annual Form MA-36N <sup>2</sup> .....   | 248,515<br>243,290  | 177,251<br>(X)              |
| 3673- --     | TRANSMITTING, INDUSTRIAL, AND SPECIAL PURPOSE ELECTRON TUBES, TOTAL.....   | 286,663   | 224,899                     |
| 36730 00     | Transmitting, industrial, and special purpose electron tubes:<br>As reported in the census of manufactures <sup>2</sup> .....<br>As reported on Census Annual Form MA-36N <sup>2</sup> .....                         | 286,663<br>281,355  | 224,899<br>(X)              |
| 3674- --     | SEMICONDUCTORS, TOTAL.....   | 623,278   | 236,702                     |
| 36740 00     | Solid state semiconductor devices:<br>As reported in the census of manufactures <sup>2</sup> .....<br>As reported on Census Annual Form MA-36N <sup>2</sup> .....  | 623,278<br>608,265  | 236,702<br>(X)              |
| 3679- --     | ELECTRONIC COMPONENTS AND ACCESSORIES, N.E.C., TOTAL.....  | 2,501,294   | <sup>5</sup> 1,297,570      |
| 36792 00     | Capacitors for electronic applications:<br>As reported in the census of manufactures <sup>2</sup> .....<br>As reported on Census Annual Form MA-36N <sup>2</sup> .....   | <sup>6</sup> 318,831<br><sup>6</sup> 305,911                | <sup>6</sup> 183,562<br>(X) |
| 36793 00     | Resistors for electronic applications:<br>As reported in the census of manufactures <sup>2</sup> .....<br>As reported on Census Annual Form MA-36N <sup>2</sup> .....  | 312,583<br>312,386  | 146,788<br>(X)              |
| 36794 00     | Coils, transformers, reactors, and chokes for electronic application:<br>As reported in the census of manufactures <sup>2</sup> .....<br>As reported on Census Annual Form MA-36N <sup>2</sup> .....                 | <sup>6</sup> 274,443<br><sup>6</sup> 259,325                | <sup>6</sup> 191,984<br>(X) |
| 36795 --     | Other electronic components and accessories, n.e.c., including parts for electron tubes (except glass blanks).....   | 1,496,668   | <sup>5</sup> 685,015        |
| 36795 00     | Electronic components, n.e.c., except phonograph needles and cutting styli:<br>As reported in the census of manufactures <sup>2</sup> .....<br>As reported on Census Annual Form MA-36N <sup>2</sup> .....           | 1,459,552<br>1,342,011                                      | 674,084<br>(X)              |
| 36795 47     | Phonograph needles and cutting styli.....  | 37,116  | 10,931                      |
| 36790 00     | Electronic components and accessories, n.s.k.....  | 98,769  | 90,221                      |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Figure differs from that previously published for 1958. TV tuners (\$34,721 thousand) previously classified in Industry 3651 are now included under code 3662610 in 1963.

Footnotes continued on next page

TABLE 6A-1. **Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued**

Footnotes for table 6A-1--36D--Continued

<sup>2</sup>For these products, figures were also collected in the Bureau of the Census commodity survey program. In lieu of asking for detailed statistics on these products in the census of manufactures, respondents were asked to report only value of shipments for specified groups of products for which separate figures had previously been collected in the commodity survey. In most cases, the value figures reported in the census of manufactures for each group of products agreed closely with the corresponding figures reported in the commodity survey. However, there were minor differences between the census figures and the commodity survey figures. These variations were due primarily to the following reasons:

- a. Better coverage in census of manufactures program. Coverage in the annual surveys will be supplemented by adding respondents not currently in the survey but making the specified product according to their census of manufactures report.
- b. Use of different reporting periods (calendar year vs. fiscal year).
- c. Use of estimates in reporting figures on the commodity survey, whereas census of manufactures figures generally represent more exact shipment figures.

See tables 6A-2 and 6A-3 for more detailed product data.

<sup>3</sup>Figure differs from that previously published for 1958. Phonographs and record players previously included under code 3651110 are now included under code 3651320.

<sup>4</sup>In 1963, statistics on chassis for home-type radio receivers, for sale separately, are combined with chassis for home-type television receivers, for sale separately, in order to avoid disclosing figures of individual companies.

<sup>5</sup>Includes \$66,436 thousand of connectors for electronic application which were previously classified in industry 3643, Current Carrying Devices.

<sup>6</sup>Data for 1958 for product class 36792, Capacitors for electronic applications, include \$9,449 thousand for permeability tuning devices. These tuning devices are included in product class 36794, Coils, transformers, reactors, and chokes for electronic applications in 1963.



TABLE 6A-2. Radio Receivers and Television Sets—Quantity and Value of Shipments: 1963 and 1958

| Product code | Product  | Unit of measure | Total shipments including interplant transfers |                 |           |                 |
|--------------|--|-----------------|--|-----------------|-----------|-----------------|
|              |  |                 | 1963   |                 | 1958      |                 |
|              |  |                 | Quantity                                       | Value (\$1,000) | Quantity* | Value (\$1,000) |
| 36511 --     | Household and automobile radios, and radio-phonograph combinations, total.....   | 1,000 units...  | 18,155   | 520,034         | 12,734    | 343,662         |
|              | Home-type radio receivers, complete sets (except radio-phonograph combinations and television sets), total.....  | ..do.....       | 9,313  | 150,670         | 8,012     | 160,074         |
|              | Socket powered (except consoles), total.....   | ..do.....       | 5,338  | 87,215          | 4,663     | 77,555          |
|              | Table models (except clock), total.....  | ..do.....       | 2,334  | 40,484          | 2,587     | 39,613          |
| 36511 01     | AM.....  | ..do.....       | 1,535  | 16,206          | 2,336     | 31,031          |
| 36511 02     | AM-FM and FM only (including FM converters).....   | ..do.....       | 799  | 24,278          | 251       | 8,582           |
|              | Clock models, total.....   | ..do.....       | 3,004  | 46,731          | 2,076     | 37,942          |
| 36511 03     | AM.....  | ..do.....       | 2,754  | 39,708          | 2,076     | 37,942          |
| 36511 04     | AM-FM.....   | ..do.....       | 250  | 7,023           |           |                 |
| 36511 09     | Transistor.....  | ..do.....       | 3,923  | 59,899          | 2,438     | 63,101          |
| 36511 05     | Other home-type radios (battery-powered table and console models; socket-powered consoles; and portables, except transistor type).....                                   | ..do.....       | 52   | 3,556           | 911       | 19,418          |
| 36511 06     |  |                 |  |                 |           |                 |
| 36511 07     |  |                 |  |                 |           |                 |
| 36511 08     |  |                 |  |                 |           |                 |
|              | Home-type radio-phonograph combinations, complete sets including built-in recorders, excluding TV sets, total.....   | ..do.....       | 1,244  | 192,720         | 787       | 81,822          |
|              | Table models (including portable sets), total.....   | ..do.....       | 217  | 12,618          | 403       | 22,358          |
| 36511 13     | AM.....  | ..do.....       | 154  | 7,201           | 403       | 22,358          |
| 36511 14     | AM-FM.....   | ..do.....       | 63   | 5,417           |           |                 |
|              | Console models, total.....   | ..do.....       | 1,027  | 180,102         | 384       | 59,464          |
| 36511 15     | AM.....  | ..do.....       | 18   | 1,785           | 203       | 22,311          |
| 36511 16     | AM-FM.....   | ..do.....       | 1,009  | 178,317         | 181       | 37,153          |
| 36511 17     | Automobile radios (broadcast receivers only).....  | ..do.....       | 7,598  | 176,644         | 3,935     | 101,766         |
| 36512 --     | Household television receivers (color and black and white), including television combinations, total.....  | ..do.....       | 7,734  | 1,067,061       | 5,281     | 691,242         |
|              | Table models, including portable sets (with or without conventional radio):  |                 |  |                 |           |                 |
| 36512 01     | Black and white.....   | ..do.....       | 4,737  | 459,823         | 3,079     | 336,087         |
| 36512 02     | Color.....   | ..do.....       | 69   | 20,362          |           |                 |
|              | Console and consolette models (with or without conventional radio):  |                 |  |                 |           |                 |
| 36512 03     | Black and white.....   | ..do.....       | 1,954  | 273,790         | 2,124     | 338,806         |
| 36512 04     | Color.....   | ..do.....       | 623  | 206,717         |           |                 |
|              | Radio-phonograph-TV/recorder combination models:   |                 |  |                 |           |                 |
| 36512 05     | Black and white.....   | ..do.....       | 296  | 75,789          | 78        | 16,349          |
| 36512 06     | Color.....   | ..do.....       | 55   | 30,580          |           |                 |
| 36513 --     | Phonographs and record player attachments; radio and television chassis sold separately; recorders, tuners, and other similar home-type electronic equipment, total..... |                 | (X)  | 394,893         | (X)       | 399,742         |
|              | As reported in Census Annual Form MA-36M.....  |                 | (X)  | 286,832         | (X)       | 291,875         |
|              | Phonographs, total.....  | 1,000 units...  | 2,699  | 170,877         | 3,750     | 189,483         |
| 36513 01     | Mechanical (acoustical) reproduction phonographs (with spring or electric motor).....  | ..do.....       | 356  | 2,418           | 434       | 3,731           |
|              | Electronic phonographs (with speaker), total.....  | ..do.....       | 3,343  | 168,459         | 3,316     | 185,752         |
| 36513 02     | Coin operated.....   | ..do.....       | 54   | 43,320          | 52        | 37,152          |
|              | Noncoin operated, total.....   | ..do.....       | 3,289  | 125,139         | 3,264     | 148,600         |
| 36513 03     | Monaural.....  | ..do.....       | 1,596  | 33,638          | 3,264     | 148,600         |
| 36513 04     | Stereophonic.....  | ..do.....       | 1,693  | 91,501          |           |                 |
|              | Record player attachments (including record players with automatic record changing devices), total.....  | ..do.....       | 119  | 3,212           | 615       | 14,851          |
| 36513 05     | Complete with case (plug-in or induction types only).....  | ..do.....       | 76   | 1,556           | 387       | 9,664           |
| 36513 06     | For installation in combination sets and custom-built sets..   | ..do.....       | 43   | 1,656           | 228       | 5,187           |

See footnotes at end of table.

TABLE 6A-2. Radio Receivers and Television Sets—Quantity and Value of Shipments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure                                      | Total shipments including interplant transfers |                 |           |                 |                     |
|--------------|--|--|--|-----------------|-----------|-----------------|---------------------|
|              |  |  | 1963   |                 | 1958      |                 |                     |
|              |  |  | Quantity                                       | Value (\$1,000) | Quantity  | Value (\$1,000) |                     |
| 36513 --     | Phonographs and record player attachments; radio and television chassis sold separately; recorders, tuners, and other similar home-type electronic equipment—Continued<br>As reported in Census Annual Form MA-36M—Continued |  |  |                 |           |                 |                     |
|              | Recorders, tuners, and other similar home-type electronic equipment, for sale separately, total.....   | 1,000 units...                                       | 2,291  | 103,924         | (X)       |                 | 83,267              |
| 36513 31     | Recorders, home-type, tape, wire, and disc (except radio-phonograph-TV-recorder combinations; office recording machines; and recorder mechanisms).....   | ...do.....   | 412  | 43,511          | (X)       |                 | 44,892              |
| 36513 62     | Audio amplifiers and pre-amplifiers, home-type.....  | ...do.....   | 228  | 17,316          | 504       |                 | 34,663              |
| 36513 65     | Tuners, AM, FM, and AM-FM and tuner-amplifier combinations..   | ...do.....   | 1,060  | 35,433          | 51        |                 | 3,712               |
| 36513 67     | Other home-type electronic equipment (converters, adapters, etc.).....   | ...do.....   | 591  | 7,664           | (X)       |                 | ( <sup>2</sup> )    |
| 36513 71     | Chassis for home-type radio receivers, for sale separately....   | ...do.....   | 16   | 421             | 29        |                 | 1,358               |
| 36513 72     |  | Chassis for home-type television receivers, for sale | ...do.....                                     | 592             | 8,398     | 38              | 2,916               |
| 36513 87     |  | separately.....                                      | ...do.....                                     | (X)             | 108,061   | (X)             | 107,867             |
| 36513 88     | As reported in Census Annual Form MA-36N.....  |  |  |                 |           |                 |                     |
| 36513 51     | Speakers.....  |  | (X)  | 69,510          | (X)       |                 | 63,714              |
| 36513 55     | Microphones.....   | Units.....   | 2,770,788                                      | 17,555          | 1,551,000 |                 | 11,763              |
| 36513 60     | Home entertainment equipment kits.....   | ...do.....   | 359,155  | 13,944          | (X)       |                 | 13,326              |
| 36513 93     | Music distribution systems.....  |  | (X)  |                 | (X)       |                 | <sup>2</sup> 19,064 |
| 36513 94     | Public address systems.....  |  | (X)  | 7,052           | (X)       |                 |                     |

Source: Current Industrial Reports Series M36M "Home-type Radio Receivers and Television Sets, Automobile Radios, Phonographs, and Record Player Attachments" and M36N "Selected Electronics and Associated Products."

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>Includes a negligible amount of console models.

<sup>2</sup>Other home-type electronic equipment (code 3651367) were included with music distribution systems (code 3651393) and public address systems (code 3651384) in 1958.



**TABLE 6A-3. Selected Electronic and Associated Products-Quantity and Value of Shipments: 1963 and 1958**

| Product code | Product   | Total shipments including interplant transfers |                    |                               |                    |
|--------------|---|--|--------------------|-------------------------------|--------------------|
|              |   | 1963   |                    | 1958                          |                    |
|              |   | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 36621 --     | Commercial, industrial, and military electronic communication equipment (except broadcast equipment, space satellite-borne communications systems (complete package), home-type intercommunication equipment, and microwave and mobile telephone communication equipment), total..... | (X)  | 980,485            | (X)                           | 1,372,125          |
|              | Receivers, radio communications (point-to-point) except amateur, and Citizens Radio, sold separately:   |  |                    |                               |                    |
| 36621 21     | Very low frequency and low frequency (below 300 kc).....  | (X)  | 173                | }                             |                    |
| 36621 23     | Medium and high frequency (300 kc to 30 mc).....  | (X)  | 23,065             |                               |                    |
| 36621 24     | Very high frequency and ultra high frequency -- to 890 megacycles.....  | (X)  | 49,003             |                               |                    |
| 36621 25     | Microwave line-of-sight; microwave scatter; and microwave video relay, except studio transmitter link.....  |  |                    |                               |                    |
|              | Mobile receivers, except amateur and Citizens Radio, sold separately:   |  |                    | (X)                           | 40,067             |
| 36621 71     | Airborne.....   | (X)  | 6,203              | }                             |                    |
| 36621 73     | Marine.....   |  |                    |                               |                    |
| 36621 75     | Ground.....   |  |                    |                               |                    |
| 36621 91     | Light communications systems and equipment, electronic (including infrared).....  | (X)  | 3,009              | }                             |                    |
|              | Point-to-point radio communication systems such as Dew Line, White Alice, etc., (except real estate), sold as a complete package (antennae, power supplies, receivers, transmitters, multiplexing and demodulating equipment, etc.):  |  |                    |                               |                    |
| 36621 11     | Very low frequency and low frequency (below 300 kc).....  | (X)  | 42,346             |                               |                    |
| 36621 13     | Medium and high frequency (300 kc to 30 mc).....  | (X)  | 43,667             |                               |                    |
| 36621 14     | Very high frequency and ultra high frequency -- to 890 megacycles.....  | (X)  | 104,493            |                               |                    |
| 36621 15     | Microwave line-of-sight; microwave scatter; and microwave video relay, except studio-transmitter link.....  |  |                    |                               |                    |
|              | Transmitters and RF power amplifiers, radio communications (point-to-point), except amateur and Citizens Radio, sold separately:  |  |                    |                               |                    |
| 36621 31     | Very low frequency and low frequency (below 300 kc).....  | (X)  | 15,847             |                               |                    |
| 36621 33     | Medium and high frequency (300 kc to 30 mc).....  | (X)  | 42,566             |                               |                    |
| 36621 34     | Very high frequency and ultra high frequency -- to 890 megacycles.....  | (X)  | 47,614             |                               |                    |
| 36621 35     | Microwave line-of-sight; microwave scatter; and microwave video relay, except studio television link.....   |  |                    |                               |                    |
| 36621 43     | Associated ground equipment for space satellite communications systems (including telemetering, synchronization, relay, and command and control equipment).....   | (X)  | 26,887             | }                             |                    |
| 36621 45     | Sonar communications systems and equipment.....   | (X)  | ( <sup>2</sup> )   |                               |                    |
| 36621 47     | Carrier current communications systems and equipment, n.e.c.....  | (X)  | 20,803             |                               |                    |
|              | Mobile radio systems, sold as complete packages, including transceivers, base stations, power amplifiers, antennae, repeaters, transmitters, receivers, etc., except amateur and Citizens Radio:  |  |                    | (X)                           | 1,332,058          |
| 36621 51     | Airborne.....   | (X)  | 26,311             | }                             |                    |
| 36621 53     | Marine.....   | (X)  | 5,396              |                               |                    |
| 36621 55     | Ground.....   | (X)  | 188,754            |                               |                    |
|              | Mobile transceivers and transmitters, except amateur and Citizens Radio, sold separately:   |  |                    | }                             |                    |
| 36621 61     | Airborne.....   | 5,295  | 11,394             |                               |                    |
| 36621 63     | Marine.....   | (X)  | 76,239             |                               |                    |
| 36621 65     | Ground.....   |  |                    |                               |                    |
| 36621 81     | Portable receivers, transceivers, and transmitter-receivers, except amateur and Citizens Radio.....   |  | 27,427             |                               | 16,547             |
|              | Amateur radio communications equipment, fixed, mobile, and portable:  |  |                    |                               |                    |
| 36621 83     | Transmitters and RF power amplifiers.....   | (X)  | 2,416              | }                             |                    |
| 36621 85     | Receivers.....  | 23,697   | 5,213              |                               |                    |
| 36621 87     | Other (transceivers, transmitter-receivers, etc.).....  | (X)  | 10,931             |                               |                    |
| 36621 89     | Citizens Radio communication equipment.....   |  | 170,396            |                               | 15,274             |
| 36621 93     | Electronic checkout, monitoring, evaluation, and other electronic support equipment for communications systems.....   | (X)  | 33,937             | }                             |                    |
| 36621 98     | Other communications equipment, sold separately.....  | (X)  | 2129,813           |                               |                    |
| 36621 92     | Communications antennae, below 890 megacycles.....  | (X)  | 20,943             |                               |                    |
| 36621 94     | Microwave, antenna systems above 890 megacycles (horns, parabolas, etc.), exclude structural towers, sold separately.....   | (X)  | 11,641             |                               |                    |

See footnotes at end of table.

TABLE 6A-3. Selected Electronic and Associated Products-Quantity and Value of Shipments: 1963 and 1958-Continued

| Product code | Product  | Total shipments including interplant transfers |                    |                               |                    |
|--------------|--|--|--------------------|-------------------------------|--------------------|
|              |  | 1963   |                    | 1958                          |                    |
|              |  | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 36622 --     | Radio and television broadcast equipment, and closed circuit systems, total.....   | (X)  | 143,397            | (X)                           | 53,812             |
|              | Transmitters, RF power amplifiers, and related equipment:  |  |                    |                               |                    |
| 36622 32     | AM.....  | (X)  | 5,985              | (X)                           | 5,156              |
| 36622 33     | FM.....  | (X)  | 1,425              |                               |                    |
| 36622 34     | TV.....  | (X)  | 6,038              |                               |                    |
| 36622 35     | TV boosters and repeaters.....   | (X)  | 5,608              | (X)                           | 6,792              |
| 36622 36     | Other (broadcast transmission line equipment, phasing equipment, etc.).....  |  |                    |                               |                    |
| 36622 51     | Studio transmitter links (STL) and remote pickups equipment.....   | (X)  | 1,479              |                               |                    |
|              | Audio equipment:   |  |                    |                               |                    |
| 36622 12     | Amplifiers.....  | (X)  | 9,680              |                               |                    |
| 36622 13     | Control consoles and switchers.....  | 809  | 1,344              |                               |                    |
| 36622 14     | Broadcast recorders.....   | 12,371   | 7,430              |                               |                    |
| 36622 15     | Turntables.....  | 35,081   | 1,696              |                               |                    |
| 36622 16     | Other (power supplies, terminal equipment, etc.).....  | (X)  | 6,610              |                               |                    |
|              | Video equipment:   |  |                    |                               |                    |
| 36622 22     | Amplifiers.....  | 3,887  | 1,202              | (X)                           | 19,658             |
| 36622 23     | Cameras (TV and TV camera chains).....   | (X)  | 8,762              |                               |                    |
| 36622 24     | Control consoles and switchers.....  | 393  | 2,317              |                               |                    |
| 36622 25     | Film equipment (broadcast film cameras, multiplexers, projectors, etc.).....   | (X)  | 4,732              |                               |                    |
| 36622 26     | Monitors.....  | 8,272  | 2,708              |                               |                    |
| 36622 27     | Video tape recorders.....  | (X)  | 27,240             | (X)                           |                    |
| 36622 28     | Other (power supplies, synchronization equipment, terminal equipment, etc.).....   |  |                    |                               |                    |
| 36622 30     | Broadcasting transmitting antennae.....  | (X)  | 831                |                               |                    |
| 36622 31     | Community antennae systems except structural towers, sold separately....   | (X)  | 5,364              |                               |                    |
|              | Other broadcast, studio, theatre, and commercial sound equipment, sold separately (excluding studio lighting equipment, radiating and supporting towers, and closed circuit TV and cameras): |  |                    |                               |                    |
| 36622 37     | Broadcast and studio sound effects equipment.....  | (X)  | 4,045              | (X)                           |                    |
| 36622 38     | Theatre sound equipment.....   |  |                    |                               |                    |
|              | Electronic kits to be assembled by purchaser:  |  |                    |                               |                    |
| 36622 92     | Amateur equipment kits.....  | (X)  | 5,525              | (X)                           | 7,485              |
| 36622 93     | Test and measuring equipment kits.....   | (X)  | 18,561             |                               |                    |
| 36622 94     | Other kits.....  |  |                    |                               |                    |
| 36622 41     | Closed circuit television systems and equipment.....   | (X)  | 14,815             | (X)                           | 7,710              |
| 36622 00     | Radio and television broadcast equipment, and closed circuit systems, n.s.k.....   | (X)  | -                  | (X)                           | 7,011              |

| Product code | Product   | Value of shipments including interplant transfers (\$1,000) |          |
|--------------|---|---|----------|
|              |   | 1963  | 1958     |
| 36623 --     | Intercommunication equipment (except telephone and telegraph) and electric alarm systems and signal systems and devices, total.....   | 129,143   | 83,402   |
| 36623 11     | Intercommunication equipment, electronically amplified (except intercommunication equipment designed primarily for use in telephone and telegraph networks).....  | 69,399  | 26,169   |
| 36623 42     | Vehicular and pedestrian traffic signal heads, including parts and accessories.....   | 12,312  | 12,496   |
| 36623 43     | Electronic and electro-mechanical controllers, detectors, and sensors; including parts and accessories  | 6,026   |          |
| 36623 47     | Alarm systems, electronic.....  | 41,406  | 44,737   |
| 36624 --     | Electronic navigational aids, except missile-borne and space vehicle-borne equipment, total.....  | 1,224,230   | 3425,542 |
| 36624 13     | Nonmissile and space vehicle guidance equipment (ground, ship, or airborne command guidance systems, etc.).....   | 269,596   | 424,832  |
| 36624 14     | Electronic checkout, launching, and other missile and space vehicle support systems (ground, ship, and air).....  | 239,838   |          |
|              | Navigational systems and equipment (NAV AIDS) for aircraft, ship and ground navigation (autopilots, beacons, transponders, collision warning devices, DECCA, DME, ILS, Doppler navigation systems, inertial navigational systems, optical/laser, LORAN, radio compasses and direction finders, SHORAN, TACAN, VOR, VORTAC equipment, etc.): |   |          |
| 36624 15     | Airborne navigational systems.....  | 425,851   |          |
| 36624 16     | Surface (ship and ground) navigational systems.....   | 78,745  |          |
| 36624 17     | Underwater navigational systems.....  | 133,539   |          |
| 36624 18     | Electronic checkout, monitoring, evaluation, and other electronic support equipment for navigational systems and equipment.....   | 76,661  |          |
| 36624 00     | Electronic navigational aids, n.s.k.....  | -   | 710      |

See footnotes at end of table.



TABLE 6A-3. Selected Electronic and Associated Products—Quantity and Value of Shipments: 1963 and 1958—Continued

| Product code | Product  | Value of shipments including interplant transfers (\$1,000) |           |     |
|--------------|--|---|-----------|-----|
|              |  | 1963  | 1958      |     |
| 36625 --     | Electronic search and detection apparatus, including radar, infrared and sonar, total.....   | 1,563,909   | 1,016,440 |     |
| 36625 12     | Light reconnaissance and surveillance electronic systems and equipment, including electronic checkout, monitoring, evaluation, and other electronic support equipment for light reconnaissance and surveillance electronic systems (infrared, ultraviolet, and visible light)..... | 235,542   | }         |     |
| 36625 25     | Miscellaneous search, detection, identification, and tracking systems and equipment.....   | 20,162  |           |     |
|              | Radar systems and equipment:   |   |           |     |
|              | Search, detection, and acquisition radar systems and equipment (BMEWS, airborne, and other early warning radars, air traffic control radars, air defense and fighter control radars, ship radars, harbor control radars, meteorological radars, etc.):                             |   |           |     |
| 36625 42     | Airborne and missile/space radars.....   | 105,938   | }         |     |
| 36625 44     | Ship (marine) radars.....  | 52,174  |           |     |
| 36625 46     | Ground radars.....   | 315,142   |           |     |
|              | Tracking radar systems and equipment (fire-control, bombing, bombing-navigational radars, aircraft and missile tracking radars, etc.):   |   |           |     |
| 36625 62     | Airborne and missile/space radars.....   | 58,674  | }         |     |
| 36625 64     | Ship (marine) radars.....  | 305,373   |           |     |
| 36625 66     | Ground radars.....   |   |           |     |
|              | Instrumentation radar systems and equipment (altimeters, highway speed control radars, missile and space satellite tracking range radars, GCA and other precision approach radars, etc.):  |   |           |     |
| 36625 72     | Airborne and missile/space radars.....   | 21,075  | }         |     |
| 36625 74     | Ship (marine) radars.....  | 47,958  |           |     |
| 36625 76     | Ground radars.....   |   |           |     |
| 36625 82     | Electronic checkout, monitoring, evaluation, and other electronic support equipment for radar systems.....   | 86,079  | }         |     |
|              | Sonar search, detection, and tracking systems and equipment, including ASW (depth finding, fire-control, fusing, guidance, hydrophones, mapping, sonarbuoys, navigation, sonar fish finders, sonar range instrumentation, and other):  |   |           |     |
| 36625 52     | Surface ship applications (destroyers, destroyer escorts, etc.).....   | 41,564  | }         |     |
| 36625 53     | Submarine applications.....  | 28,387  |           |     |
| 36625 54     | Submerged fixed systems.....   | 15,638  |           |     |
| 36625 55     | Airborne.....  | 35,052  |           |     |
| 36625 56     | Electronic checkout, monitoring, evaluation, and other electronic support equipment for sonar systems.....   | 35,423  | 44,618    |     |
| 36625 91     | Specialized command and control data processing and display equipment sold separately from complete systems.....   | 159,728   | }         |     |
| 36625 00     | Electronic search and detection apparatus, including radar, infrared and sonar, n.s.k.....   | -   |           | 935 |
| 36626 --     | Electronic military, industrial, and commercial equipment, n.e.c.....  | 662,984   | 340,749   |     |
| 36626 31     | Telemetry equipment.....   | 158,351   | 50,367    |     |
|              | Amplifiers, except audio, RF power, and video, sold separately:  |   |           |     |
| 36626 61     | Magnetic.....  | 5,620   | }         |     |
| 36626 65     | Pulse.....   | 2,492   |           |     |
| 36626 67     | DC.....  | 6,002   |           |     |
| 36626 69     | Other (differential, facsimile, etc.).....   | 11,199  |           |     |
| 36626 71     | Automotive equipment, electronic.....  | 10,598  | }         |     |
| 36626 81     | Consumer electronic equipment, n.e.c.....  | 74,583  |           |     |
|              | Ultrasonic equipment:  |   |           |     |
| 36626 22     | Cleaners.....  | 2,170   | }         |     |
| 36626 24     | Drills, solders, and welders.....  | 615   |           |     |
| 36626 26     | Other.....   | 3,863   |           |     |
| 36626 52     | Facsimile communications equipment.....  | 3,839   | }         |     |
| 36626 91     | Electronic trainers and simulators.....  | 64,319  |           |     |
| 36626 92     | Electronic teaching machines and teaching aids.....  | 7,604   |           |     |
| 36626 97     | Miscellaneous electronic systems, equipment, and subassemblies, n.e.c.....   | 274,741   |           |     |
| 36626 59     | Geophysical electronic equipment (exploration and other specialized geophysical equipment).....  | 5,579   |           |     |
|              | Meteorological electronics equipment:  |   |           |     |
| 36626 53     | Automatic weather stations, complete airborne, ground and marine packages (sensors, computers, recorders, etc.).....   | 2,339   |           | }   |
| 36626 54     | Automatic weather tracking equipment (DF).....   |   |           |     |
| 36626 55     | Cellometers, transitometers, and other electronic end of runway equipment.....   |   |           |     |
| 36626 56     | Space satellite meteorological systems (complete systems: TV scanning, recording equipment, infrared equipment, telemetry links, etc.).....  |   |           |     |
| 36626 33     | Specialized meteorological telemetering equipment.....   | 7,311   | }         |     |
| 36626 57     | Particle accelerator electronics equipment and subassemblies for betatrons, cyclotrons, synchrotrons, etc.; linear accelerators: dynamotrons Vandergraff, traveling wave, etc.....   | 18,131  |           |     |
| 36626 58     | Radio astronomy equipment.....   | 2,949   |           |     |
| 36626 98     | Scientific electronic equipment, n.e.c.....  | 679   |           |     |
| 36626 96     | Other electronic industrial processing equipment.....  |   |           |     |

See footnotes at end of table.

TABLE 6A-3. Selected Electronic and Associated Products-Quantity and Value of Shipments: 1963 and 1958-Continued

| Product code | Product  | Value of shipments including interplant transfers (\$1,000) |   |                  |            |                 |
|--------------|--|---|---|------------------|------------|-----------------|
|              |  | 1963  | 1958  |                  |            |                 |
| 36626 --     | Electronic military, industrial, and commercial equipment, n.e.c.—Continued  |   |   |                  |            |                 |
| 36626 00     | Electronic military, industrial, and commercial equipment, n.e.c.....  | -   | 3,185   |                  |            |                 |
| 36627 41     | Space satellite-borne communications systems (complete packages).....  | 28,409  | ( <sup>1</sup> )                                  |                  |            |                 |
| 36628 12     | Missile-borne and space vehicle-borne navigations and guidance systems and equipment.....  | 961,391   | ( <sup>2</sup> )                                  |                  |            |                 |
| Product code | Product  | Unit of measure   | Value of shipments including interplant transfers |                  |            |                 |
|              |  |   | 1963  |                  | 1958       |                 |
|              |  |   | Quantity  | Value (\$1,000)  | Quantity*  | Value (\$1,000) |
| 36710 --     | Electron tubes, receiving type, total.....   |   | (X)   | 276,098          | (X)        | 337,274         |
|              | Receiving tubes:   |   |   |                  |            |                 |
| 36710 11     | Standard, GT, and GT/G.....  | 1,000 units...  | 61,941  | 58,650           | 115,138    | 88,919          |
| 36710 12     | Miniature.....   | ..do.....   | 241,931   | 176,966          | 288,167    | 211,080         |
| 36710 13     | Subminiature.....  | ..do.....   | 8,835   | 14,238           | 4,275      | 12,292          |
| 36710 15     | Other.....   | ..do.....   | 24,863  | 26,244           | (X)        | 24,983          |
| 36720 --     | Cathode ray picture tubes, total.....  |   | (X)   | 243,290          | (X)        | 177,251         |
|              | Television picture tubes, including rebuilt tubes:   |   |   |                  |            |                 |
| 36720 13     | Black and white.....   | Units.....  | 10,206,893  | 243,290          | 9,671,000  | 177,251         |
| 36720 15     | Color.....   | ..do.....   |   |                  |            |                 |
| 36730 --     | Transmitting, industrial, and special purpose electron tube, total.....  |   | (X)   | 281,355          | (X)        | 224,899         |
|              | Power and special purpose tubes:   |   |   |                  |            |                 |
| 36730 11     | High vacuum tubes.....   | Units.....  | 3,154,758   | 62,610           | 5,945,000  | 54,548          |
| 36730 22     | Gas and vapor tubes.....   | ..do.....   | (NA)  | 27,238           | 2,969,000  | 29,791          |
| 36730 27     | Klystrons.....   | ..do.....   | (X)   | 52,392           | 170,000    | 27,926          |
| 36730 51     | Magnetrons.....  | Units.....  | 68,298  | 38,617           | 109,000    | 50,626          |
| 36730 91     | Forward wave tubes.....  | ..do.....   | 19,642  | 39,204           | }          | }               |
| 36730 92     | Backward wave tubes.....   | ..do.....   | 6,925   | 12,505           |            |                 |
| 36730 93     | Light sensing tubes.....   | ..do.....   | (X)   | 19,986           |            |                 |
| 36730 94     | Light emitting and special purpose display tubes.....  | Units.....  | 160,379   | 8,399            | (X)        | 62,008          |
| 36730 95     | Storage tubes.....   | ..do.....   | 249,936   | 14,785           | }          | }               |
| 36730 96     | Miscellaneous special purpose tubes.....   | ..do.....   | (X)   | 5,619            |            |                 |
| 36740 --     | Semiconductor devices, total.....  |   | (X)   | 608,265          | (X)        | 236,702         |
|              | Transistors:   |   |   |                  |            |                 |
| 36740 61     | Silicon.....   | Units.....  | 55,477,604  | 164,276          | 3,787,000  | 38,909          |
| 36740 65     | Germanium.....   | ..do.....   | 221,394,645                                       | 157,141          | 47,185,000 | 86,806          |
| 36740 67     | Other (gallium arsenide, silicon carbide, etc.).....   | ..do.....   | (X)   | ( <sup>4</sup> ) | (X)        | (X)             |
|              | Diodes, including rectifiers, and related devices:   |   |   |                  |            |                 |
|              | Diodes, general purpose and switching and rectifiers:  |   |   |                  |            |                 |
| 36740 23     | Silicon.....   | 1,000 units...  | 235,269   | 140,786          | 21,906     | 53,254          |
| 36740 43     | Germanium.....   | ..do.....   | 411,354   | 36,709           | 35,434     | 25,641          |
| 36740 13     | Selenium and copper oxide.....   | ..do.....   | 41,127  | 16,862           | 13,010     | 24,224          |
| 36740 91     | Other.....   | ..do.....   | (X)   | ( <sup>4</sup> ) | }          | }               |
| 36740 92     | Light sensitive semiconductor devices (all materials: doped germanium, silicon, indium antimonide, lead sulfide, etc.): Solar cells..... |   | (X)   | 7,436            |            |                 |
| 36740 93     | Other.....   |   | (X)   | 3,977            |            |                 |
| 36740 94     | Zener diodes (voltage regulator and voltage reference diodes)  | 1,000 units...  | 10,434  | 25,873           | }          | }               |
| 36740 95     | Other semiconductor devices.....   | ..do.....   | (X)   | 438,751          |            |                 |
| 36740 96     | Semiconductor parts (chips, headers, cans, etc.).....  |   | (X)   | 16,454           | }          | }               |
| 36792 --     | Capacitors for electronic applications, total.....   |   | (X)   | 305,911          |            |                 |
| 36792 21     | Aluminum electrolytic (a.c. and d.c.).....   | 1,000 units...  | 135,355   | 59,462           | 68,140     | 35,299          |
| 36792 31     | Tantalum electrolytic.....   | ..do.....   | 45,004  | 56,922           | 6,004      | 15,354          |
| 36792 41     | Ceramic dielectric.....  | ..do.....   | 1,411,805   | 50,263           | 581,580    | 26,681          |
| 36792 51     | Mica dielectric.....   | ..do.....   | 166,371   | 19,994           | 140,586    | 14,788          |
| 36792 61     | Capacitors for automotive ignition systems.....  | ..do.....   | (X)   | 49,226           | }          | }               |
| 36792 62     | Other.....   | ..do.....   | (X)   | 70,044           |            |                 |
| 36792 12     | Paper, metallized paper, film, and dual dielectric.....  | ..do.....   | (X)   |                  |            |                 |

See footnotes at end of table.



TABLE 6A-3. Selected Electronic and Associated Products—Quantity and Value of Shipments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure | Value of shipments including interplant transfers |                 |           |                 |         |
|--------------|--|-----------------|---|-----------------|-----------|-----------------|---------|
|              |  |                 | 1963  |                 | 1958      |                 |         |
|              |  |                 | Quantity  | Value (\$1,000) | Quantity' | Value (\$1,000) |         |
| 36793 --     | Resistors for electronic applications, total.....  |                 | (X)   | 312,386         | (X)       | 146,788         |         |
| 36793 11     | Composition, fixed.....  | 1,000 units...  | 2,811,399   | 72,271          | 1,617,442 | 38,733          |         |
| 36793 51     | Deposited carbon and metal film, fixed.....  | ..do.....       | 207,411   | 46,908          | 45,258    | 11,430          |         |
| 36793 31     | Wire-wound, fixed.....   | ..do.....       | 146,914   | 44,743          | 49,171    | 21,259          |         |
| 36793 15     | Variable nonwire-wound, precision and nonprecision.....  | ..do.....       | 168,094   | 58,034          | 116,272   | 31,168          |         |
| 36793 36     | Variable wire-wound, precision and nonprecision.....   | ..do.....       | 32,862  | 73,363          | (X)       | 32,326          |         |
| 36793 55     | Other (thermistor, thermistor-bolometers, varister, etc.).....   | ..do.....       | 55,796  | 17,067          | (X)       | 11,872          |         |
| 36794 --     | Coils, transformers, reactors, and chokes for electronic applications, total.....  |                 | (X)   | 259,325         | (X)       | 201,433         |         |
| 36794 32     | Audio transformers.....  |                 | (X)   | 34,465          | }         | (X)             | 35,615  |
| 36794 33     | Low frequency chokes and filters.....  |                 | (X)   | 19,145          |           |                 |         |
| 36794 41     | Plate and filament transformers, including auto transformers, except toroidal.....   |                 | (X)   | 50,799          |           |                 |         |
|              | Pulse transformers:  |                 |   |                 |           |                 |         |
| 36794 62     | Computer types.....  | 1,000 units...  | 1,631   | 4,669           | }         | (X)             | 11,717  |
| 36794 63     | Other types.....   |                 | (X)   | 7,041           |           |                 |         |
| 36794 12     | RF chokes.....   | 1,000 units...  | (X)   | 10,813          | }         | 215,535         | 35,978  |
| 36794 13     | RF coils and IF transformers.....  | ..do.....       | (X)   | 44,607          |           |                 |         |
| 36794 71     | Television transformers and reactors (horizontal output, vertical deflection, focus coils, deflection yokes, etc.).....  |                 | (X)   | 65,886          |           |                 |         |
| 36794 91     | Toroidal windings (transformers and reactors), except complete magnetic amplifiers.....  |                 | (X)   | 17,323          | }         | (X)             | 22,443  |
| 36794 92     | Other (balun coils, permeability tuning devices, etc.).....  |                 | (X)   | 4,577           |           |                 |         |
| 36795 --     | Electronic components, n.e.c., except phonograph needles and cutting styli, total.....   |                 | (X)   | 1,342,011       | (X)       | 674,084         |         |
| 36795 13     | Electron tube parts except glass blanks.....   |                 | (X)   | 40,696          | (X)       | 52,343          |         |
| 36795 31     | Phonograph cartridges and pickups.....   | 1,000 units...  | 10,166  | 14,542          | (X)       | 21,253          |         |
|              | Complex components (two or more components packaged and shipped as a single unit) except filters and other items listed elsewhere:   |                 |   |                 |           |                 |         |
| 36795 21     | Passive component packages, or "modules" assembled from conventional components (RC networks, tone control packages, interstage coupling packages).....  |                 | (X)   | 5,232           | }         | (X)             | 31,164  |
| 36795 22     | Active component packages or "modules" assembled from conventional components.....   |                 | (X)   | 78,763          |           |                 |         |
| 36795 23     | Active or passive component packages or "modules": assembled from components fabricated during the assembly process or from specially designed, discrete, miniature components designed only for use in modules..... |                 | (X)   | 19,072          |           |                 |         |
| 36795 25     | Integrated circuitry (semiconductor networks).....   |                 | (X)   | 9,219           | }         | (X)             |         |
| 36795 26     | Molecular circuitry (functional electronic blocks).....  |                 | (X)   |                 |           |                 |         |
| 36795 32     | Switches, mechanical types for electronic circuitry (coaxial, tap, rotary wafer, slide selector and similar types).....  |                 | (X)   | 37,615          | (X)       | 20,308          |         |
|              | Static power supply converters for electronic applications, sold separately:   |                 |   |                 |           |                 |         |
| 36795 43     | Regulated.....   |                 | (X)   | 49,577          | }         | (X)             | 24,496  |
| 36795 44     | Unregulated.....   | Units.....      | 26,432  | 4,393           |           |                 |         |
| 36795 45     | Variable frequency.....  |                 | (X)   | 1,225           |           |                 |         |
| 36795 46     | Other (a.c., d.c., converters and inverters, klystron, vibrator, etc.).....  |                 | (X)   | 7,993           |           |                 |         |
|              | Relays for electronic applications:  |                 |   |                 |           |                 |         |
| 36795 33     | Clapper, rotary, plunger, or solenoid.....   | 1,000 units...  | 1,602   | 516,931         | }         | 3,054           | 12,099  |
| 36795 34     | Other.....   | ..do.....       | (X)   | 523,763         |           |                 |         |
| 36795 35     | Home antennae.....   | Units.....      | 12,833,494  | 34,214          | }         | 9,644,000       | 66,141  |
| 36795 37     | Auto antennae.....   | ..do.....       | 8,978,456   | 16,388          |           |                 |         |
| 36795 52     | Printed circuit boards, printed cables, and forms already etched, placed, etc., ready for component insertion.....   |                 | (X)   | 76,844          |           |                 |         |
| 36795 95     | Quartz crystals.....   | 1,000 units...  | 14,805  | 44,213          | 4,138     | 10,519          |         |
| 36795 59     | Recording magnetic tape and wire.....  | 1,000 ft.....   | 876,892   | 112,583         | (X)       | 33,907          |         |
|              | Transducers, electrical/electronic input or output, n.e.c.:  |                 |   |                 |           |                 |         |
|              | Acoustical:  |                 |   |                 |           |                 |         |
| 36795 11     | Sonar.....   |                 | (X)   | 6,261           | }         | (X)             | 340,204 |
| 36795 12     | Ultrasonic, vibration, etc.....  |                 | (X)   | 2,361           |           |                 |         |
|              | Mechanical:  |                 |   |                 |           |                 |         |
| 36795 14     | Accelerometers.....  | Units.....      | 41,887  | 10,298          | }         |                 |         |
| 36795 15     | Pressure.....  | ..do.....       | 46,248  | 15,326          |           |                 |         |
| 36795 16     | Strain gauges and other mechanical.....  |                 | (X)   | 8,922           |           |                 |         |

See footnotes at end of table.

TABLE 6A-3. Selected Electronic and Associated Products-Quantity and Value of Shipments: 1963 and 1958-Continued

| Product code | Product  | Unit of measure                  | Value of shipments including interplant transfers |                 |           |                 |  |
|--------------|--|----------------------------------|---|-----------------|-----------|-----------------|--|
|              |  |                                  | 1963  |                 | 1958      |                 |  |
|              |  |                                  | Quantity  | Value (\$1,000) | Quantity* | Value (\$1,000) |  |
| 36795 --     | Electronic components, n.e.c., except phonograph needles and cutting styli--Continued  |                                  |   |                 |           |                 |  |
| 36795 18     | Transducers, electrical/electronic input or output, n.e.c.--Con. Thermal (pyrometers, thermo-couples, etc. - excluding bi-metallic, mercury, and other mechanical output types)..... |                                  | (X)   | 7,757           |           |                 |  |
| 36795 19     | Other: Optical (including any not covered under crystal, etc.), chemical, magnetic, nuclear, etc.....  |                                  | (X)   | 8,946           |           |                 |  |
| 36795 41     | Frequency synthesizers.....  |                                  | (X)   | (6)             |           |                 |  |
| 36795 97     | Cryogenic cooling devices (cryostats, etc.) for infrared detectors, masers, etc.....   |                                  | (X)   | (6)             |           |                 |  |
| 36795 28     | Delay lines.....   |                                  | (X)   | 8,881           |           |                 |  |
| 36795 29     | Earphones and headsets, except telephone.....  |                                  | (X)   | 14,487          |           |                 |  |
| 36795 38     | Antennae accessories.....  |                                  | (X)   | 32,459          |           |                 |  |
|              | Microwave components and devices, except antennae, tubes, and semiconductors:  |                                  |   |                 |           |                 |  |
|              | Ferrite (including yttrium garnets) microwave components:  |                                  |   |                 |           |                 |  |
| 36795 61     | Circulators, all types (permanent magnet).....   | Units.....                       | 6,490   | 2,223           |           |                 |  |
| 36795 62     | Circulators (electromagnetic), used as switches, modulators, etc.....  |                                  | (X)   | 7,855           |           |                 |  |
| 36795 63     | Isolators.....   | Units.....                       | 48,559  | 5,364           |           |                 |  |
| 36795 64     | Phase shifters.....  |                                  | (X)   | (7)             |           |                 |  |
| 36795 65     | Other ferrite microwave components.....  |                                  | (X)   | 2,904           |           |                 |  |
|              | Microwave devices, other than ferrite and solid state:   |                                  |   |                 |           |                 |  |
| 36795 66     | Attenuators, dummy loads, high and low power terminations, etc.....  |                                  | (X)   | 9,151           |           |                 |  |
| 36795 67     | Cavities.....  |                                  | (X)   | 3,260           |           |                 |  |
| 36795 68     | Couplers (directional couplers, hybrid junctions, etc.)....  | Units.....                       | 42,100  | 4,760           |           |                 |  |
| 36795 69     | Duplexers and diplexers, except electric tubes and ferrite devices.....  | do.....                          | 5,438   | 1,868           |           |                 |  |
| 36795 71     | Reactive microwave components, n.e.c.....  |                                  | (X)   | 6,899           |           |                 |  |
| 36795 73     | Rotary joints and sector scan joints.....  |                                  | (X)   | 1,270           |           |                 |  |
| 36795 74     | Switches, coaxial and waveguide.....   | Units.....                       | 144,812   | 8,161           |           |                 |  |
| 36795 75     | Rigid waveguides and fittings.....   |                                  | (X)   | 9,670           | (X)       | 340,204         |  |
| 36795 77     | Flexible waveguides and fittings.....  |                                  | (X)   | 3,398           |           |                 |  |
| 36795 78     | Other microwave components, except ferrite devices.....  |                                  | (X)   | 23,268          |           |                 |  |
|              | Microwave subassemblies:   |                                  |   |                 |           |                 |  |
| 36795 56     | Parametric amplifiers.....   |                                  | (X)   | 3,771           |           |                 |  |
| 36795 57     | Other solid state assemblies (frequency multipliers, harmonic generators, etc.).....   |                                  | (X)   | 2,341           |           |                 |  |
| 36795 53     | Pulse forming networks.....  |                                  | (X)   | 1,762           |           |                 |  |
| 36795 54     | Recording and reproducing heads.....   |                                  | (X)   | 9,366           |           |                 |  |
|              | Connectors:  |                                  |   |                 |           |                 |  |
| 36795 81     | RF.....  | 1,000 of connector equivalents.. | 40,545  | 30,632          |           |                 |  |
| 36795 82     | Cylindrical.....   | do.....                          | 23,892  | 77,103          |           |                 |  |
| 36795 83     | Rack and panel.....  | do.....                          | 31,445  | 45,585          |           |                 |  |
| 36795 84     | Printed circuit.....   | do.....                          | 29,681  | 40,629          |           |                 |  |
| 36795 85     | Fusion sealed.....   | do.....                          | 2,125   | 9,604           |           |                 |  |
| 36795 86     | Other.....   | do.....                          | (X)   | 71,027          |           |                 |  |
|              | Crystals, filters, and related devices:  |                                  |   |                 |           |                 |  |
|              | Filter, except microwave:  |                                  |   |                 |           |                 |  |
| 36795 92     | LC, RC, etc.....   | Units.....                       | 1,001,211   | 14,316          |           |                 |  |
| 36795 91     | Infrared, ultra violet, etc., excluding optical lenses (germanium silicon, fused quartz, rock salt, and other)....   |                                  | (X)   | 7,126           |           |                 |  |
| 36795 93     | Mechanical.....  |                                  | (X)   | 6,127           |           |                 |  |
| 36795 94     | Quartz and other piezoelectric filters.....  |                                  |   |                 |           |                 |  |
| 36795 96     | Other crystals (ADP, Rochelle salt, ruby, garnet, etc.).....   |                                  | (X)   | 2,892           |           |                 |  |
| 36795 39     | Electronic parts, n.e.c., and specialized electronic hardware...   |                                  | (X)   | 6,227,718       | (X)       | 46,083          |  |
| 36795 00     | Other electronic components and accessories, n.s.k.....  |                                  | -   | -               |           |                 |  |

Source: Current Industrial Reports Series M36N "Selected Electronics and Associated Products."

Standard Notes: - Represents zero. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Data for 1958 for product class 36621, Commercial, industrial and military electronic communication equipment, includes space satellite-borne communications systems (code 3662741), collected separately in 1963.

<sup>2</sup>Figures on Sonar communications systems and equipment, are included with Other communications equipment, sold separately (3662198) in order to avoid disclosing figures of individual companies.

<sup>3</sup>Data for 1958 for product class 36624, Electronic navigational aids, except missile-borne and space vehicle-borne equipment includes missile-borne and space vehicle-borne navigations and guidance system and equipment (code 3662812), collected separately in 1963.

<sup>4</sup>Figures on "Other transistors" and "Other diodes" are included with "Other semiconductor devices" (3674095) in order to avoid disclosing figures of individual companies.

Footnotes continued on next page.



TABLE 6A-3. Selected Electronic and Associated Products—Quantity and Value of Shipments: 1963 and 1958—Continued

Footnotes for table 6A-3--36D--Continued

<sup>5</sup>The following figures were published in Current Industrial Reports Series M36A, Switchgear, Switchboard Apparatus, Relays, and Industrial Controls:

| Product                           | 1963<br>(\$1,000) |
|-----------------------------------|-------------------|
| Total (Series M36A).....          | \$163,733         |
| Switchboard relays.....           | 39,939            |
| Circuit relays:                   |                   |
| A.c. and d.c. magnetic control... | 114,172           |
| Overload relays.....              | 9,622             |

The Series M36A values, when added to the comparable values for relays for electronic applications, result in the following total for 1963: \$204,427.

<sup>6</sup>Figures on "Frequency synthesizers" and "Cryogenic cooling devices" are included with "Electronic parts, n.e.c., and specialized electronic hardware" (3679539) in order to avoid disclosing figures of individual companies.

<sup>7</sup>Figures on "Phase shifters" are included with "Circulators (electromagnetic), used as switches, modulators, etc.," to avoid disclosing figures of individual companies.

TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year  | Indexes (1954 = 100) |            | Product code | Product and year  | Indexes (1954 = 100) |            |
|--------------|---|----------------------|------------|--------------|---|----------------------|------------|
|              |   | Production           | Unit value |              |   | Production           | Unit value |
| 365--        | Radio and TV receiving equipment.....1963..<br>1958..   | 163<br>103           | 84<br>97   |              | Communication equipment—Continued   |                      |            |
| 3651-        | Radio and television receiving sets, except communication types.....1963..<br>1958..                        | 161<br>99            | 83<br>97   | 3662-        | Radio and TV communication equipment.....1963..<br>1958..                         | (1)<br>(1)           | (1)<br>(1) |
| 36511        | Household and automobile radios, and radio-phonograph combinations.....1963..<br>1958..                     | 260<br>134           | 90<br>113  | 367--        | Electronic components.....1963..<br>1958..  | (1)<br>(1)           | (1)<br>(1) |
| 36512        | Household television receivers, including television combinations.....1963..<br>1958..                      | 129<br>77            | 83<br>92   | 3671-        | Electron tubes, receiving type.....1963..<br>1958..                               | 91<br>104            | 109<br>113 |
| 36513        | Phonographs and record players.....1963..<br>1958..   | 181<br>141           | 73<br>89   | 3672-        | Cathode ray picture tubes.....1963..<br>1958..                                    | 110<br>92            | 106<br>91  |
| 3652-        | Phonograph records, record blanks, and prerecorded tapes.....1963..<br>1958..                               | 221<br>178           | 106<br>101 | 3673-        | Transmitting, industrial, and special purpose electron tubes.....1963..<br>1958.. | 166<br>130           | 111<br>110 |
| 366--        | Communication equipment.....1963..<br>1958..  | (1)<br>(1)           | (1)<br>(1) | 3674-        | Solid state semiconductor devices....1963..<br>1958..                             | (2)<br>782           | (2)<br>134 |
| 3661-        | Telephone and telegraph apparatus....1963..<br>1958..   | (1)<br>(1)           | (1)<br>(1) | 3679-        | Electronic components and accessories, n.e.c.....1963..<br>1958..                 | (1)<br>(1)           | (1)<br>(1) |
| 36612        | Other telephone and telegraph (wire) apparatus, equipment and components <sup>2</sup> .....1963..<br>1958.. | 270<br>161           | 85<br>87   | 36792        | Capacitors for electronic applications.....1963..<br>1958..                       | 210<br>88            | 82<br>117  |
|              |   |                      |            | 36793        | Resistors for electronic applications.....1963..<br>1958..                        | 300<br>137           | 110<br>113 |

n.e.c. Not elsewhere classified.

<sup>1</sup>Not shown because comparable quantity data were not obtained for the majority of these products measured in terms of value.

<sup>2</sup>Unit value indexes based on shipments data for telephone instrument sets; production indexes derived by including in addition the values for other telephone apparatus and equipment shipped.

<sup>3</sup>Not shown pending further review of quantity and price information reported in 1963 to determine comparability with data reported for 1958 and 1954.



TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments, 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class  | 1963                    | 1962 <sup>1</sup>      | 1961 <sup>1</sup>      | 1960 <sup>1</sup>    | 1959 <sup>1</sup>    | 1958                 | 1954    | 1947    |
|-------|--|-------------------------|------------------------|------------------------|----------------------|----------------------|----------------------|---------|---------|
| 3651- | Radio and TV receiving sets.....   | 2,034,333               | 1,947,943              | 1,711,514              | 1,640,594            | 1,743,644            | 1,481,575            | (NA)    | (NA)    |
| 36511 | Household and automobile radios, and radio-<br>phonograph combinations.....  | <sup>2</sup> 520,034    | <sup>2</sup> 495,999   | <sup>2</sup> 431,956   | <sup>2</sup> 414,933 | 421,722              | 344,892              | 253,494 | 672,880 |
| 36512 | Household television receivers, including<br>television combinations.....  | <sup>2</sup> 1,067,061  | <sup>2</sup> 925,132   | <sup>2</sup> 812,012   | <sup>2</sup> 775,191 | 815,361              | 726,595              | (NA)    | (NA)    |
| 36513 | Recorders, audio amplifiers, phonographs,<br>tuners, speaker systems, and other audio<br>equipment and accessories.....  | 431,102                 | 523,715                | 462,389                | 444,820              | 502,713              | 409,445              | (NA)    | (NA)    |
| 36510 | Radio and TV receiving sets, n.s.k.....  | 16,136                  | (3,097)                | (5,157)                | (5,650)              | (3,848)              | 643                  | (NA)    | (NA)    |
| 36520 | Phonograph records, record blanks, and pre-<br>recorded tapes.....   | 178,699                 | 186,800                | 160,660                | 149,175              | 141,954              | 136,165              | 80,224  | 105,825 |
| 3661- | Telephone; telegraph apparatus.....  | 1,538,015               | 1,757,802              | 1,583,039              | 1,431,136            | 1,244,568            | 1,079,017            | 755,469 | 631,919 |
| 36611 | Telephone switching and switchboard equip-<br>ment.....  | 491,339                 | 613,140                | 585,390                | 514,348              | 418,115              | 434,708              | 245,159 | 284,932 |
| 36612 | Other telephone and telegraph (wire)<br>apparatus, equipment, and components.....  | 1,045,173               | 1,127,231              | 992,264                | 910,240              | 820,906              | 637,339              | 508,744 | 345,524 |
| 36610 | Telephone; telegraph apparatus, n.s.k.....   | 1,503                   | (17,431)               | (5,385)                | (6,548)              | 5,547                | 6,970                | 1,566   | 1,463   |
| 3662  | Radio and TV communications equipment <sup>F</sup> .....   | 5,863,071               | 5,085,729              | 4,582,836              | 3,854,109            | 3,000,412            | 2,382,330            | (X)     | (X)     |
| 36621 | Commercial, industrial, and military elec-<br>tronic communication equipment (except<br>broadcast equipment, space satellite-borne<br>communication equipment (complete<br>package) <sup>F</sup> ..... | <sup>3</sup> 1,080,989  | <sup>3</sup> 858,833   | <sup>3</sup> 811,848   | <sup>3</sup> 597,088 | <sup>3</sup> 518,553 | <sup>3</sup> 416,001 | (X)     | (X)     |
| 36622 | Radio and television broadcast equipment,<br>and closed circuit systems <sup>F</sup> .....   | <sup>3</sup> 143,397    | 93,643                 | 72,619                 | 86,969               | 76,372               | 53,812               | (X)     | (X)     |
| 36623 | Intercommunication equipment (except<br>telephone and telegraph) and electric<br>alarm and signal systems and devices <sup>F</sup> .....   | 165,801                 | 181,027                | 163,817                | 183,873              | 168,477              | 129,786              | (X)     | (X)     |
| 36624 | Electronic navigational aids (except missile-<br>borne and space vehicle-borne equipment) <sup>F</sup> .....   | <sup>3</sup> 41,224,230 | <sup>4</sup> 1,693,818 | <sup>4</sup> 1,379,912 | <sup>4</sup> 887,118 | <sup>4</sup> 465,447 | <sup>4</sup> 425,542 | (X)     | (X)     |
| 36625 | Electronic search and detection apparatus,<br>including radar, infrared and sonar <sup>F</sup> .....   | <sup>4</sup> 1,563,909  | 1,698,680              | 1,562,074              | 1,507,485            | 1,391,719            | 1,016,440            | (X)     | (X)     |
| 36626 | Electronic military, industrial and comm-<br>ercial equipment, n.e.c. <sup>F</sup> .....   | <sup>4</sup> 662,984    | 559,728                | 592,566                | 590,576              | 379,844              | 340,749              | (X)     | (X)     |
| 36627 | Space satellite-borne communications sys-<br>tems (complete package) <sup>F</sup> .....  | <sup>13</sup> 428,409   | ( <sup>3</sup> )       | ( <sup>3</sup> )       | ( <sup>3</sup> )     | ( <sup>3</sup> )     | ( <sup>3</sup> )     | (X)     | (X)     |
| 36628 | Missile-borne and space vehicle-borne nav-<br>igation and guidance systems and equipment <sup>F</sup> .....  | <sup>3</sup> 4961,391   | ( <sup>3</sup> )       | ( <sup>3</sup> )       | ( <sup>3</sup> )     | ( <sup>3</sup> )     | ( <sup>3</sup> )     | (X)     | (X)     |
| 36620 | Radio, TV communications equipment, n.s.k. <sup>F</sup> .....  | 31,961                  | -                      | -                      | -                    | -                    | -                    | -       | -       |
| 36710 | Receiving type electron tubes, except,<br>cathode ray.....   | <sup>4</sup> 276,098    | 277,886                | 263,635                | 307,400              | 335,841              | 337,274              | 288,821 | 86,795  |
| 36720 | Cathode ray picture tubes, including rebuilt<br>tubes.....   | <sup>4</sup> 243,290    | 222,318                | 229,451                | 212,930              | 211,949              | 177,251              | 212,968 | 7,137   |
| 36730 | Transmitting industrial, and special purpose<br>electron tubes (except X-ray).....   | <sup>4</sup> 281,355    | 337,747                | 297,413                | 256,374              | 257,699              | 224,899              | 156,111 | 27,135  |
| 36740 | Solid state semiconductor devices.....   | <sup>4</sup> 608,265    | 567,645                | 552,681                | 525,798              | 389,795              | 236,702              | 22,602  | (NA)    |
| 3679- | Electronic components, n.e.c.....  | 2,318,402               | 2,190,295              | 1,795,231              | 1,637,605            | 1,487,904            | 1,297,570            | 915,443 | (NA)    |
| 36792 | Capacitors for electronic applications.....  | <sup>4</sup> 305,911    | 355,958                | 294,531                | 271,005              | 240,506              | 183,562              | 178,157 | 75,190  |
| 36793 | Resistors for electronic applications.....   | <sup>4</sup> 312,386    | 275,382                | 235,691                | 211,786              | 205,419              | 146,788              | 94,785  | 21,492  |
| 36794 | Coils, transformers, reactors, and chokes<br>for electronic applications.....  | <sup>4</sup> 259,325    | 227,852                | 212,268                | 215,266              | 222,962              | 191,984              | 180,223 | 63,461  |
| 36795 | Other electronic components and accessories,<br>n.e.c., including parts for electronic<br>tubes (except glass blanks).....   | <sup>4</sup> 1,342,011  | 1,201,103              | 929,705                | 825,709              | 720,867              | 685,015              | 440,521 | (NA)    |
| 36790 | Electronic components, n.e.c., n.s.k.....  | 98,769                  | (130,000)              | (123,036)              | (113,839)            | 98,150               | 90,221               | 21,757  | 42,595  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. Revised n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Source: Current Industrial Reports Series M36M, Home-Type Radio Receivers and Television Sets, Automobile Radios, Phonographs and Record Players.

<sup>3</sup>For 1958-1962 product classes 36627 and 36628 were part of product classes 36621 and 36624, respectively. Refer to Current Industrial Reports Series M36N for 1961 and 1962 comparable data on these two new product classes. Separate data prior to 1961 are unavailable.

<sup>4</sup>Source: Current Industrial Reports Series M36N, Selected Electronic and Associated Products.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area  | Value of shipments |                  | Product class and geographic area  | Value of shipments     |                  | Product class and geographic area   | Value of shipments     |                  |
|--|--------------------|------------------|--|------------------------|------------------|---|------------------------|------------------|
|  | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>      | 1958             |   | 1963 <sup>1</sup>      | 1958             |
| HOUSEHOLD AND AUTOMOBILE RADIOS, AND RADIO-PHONOGRAPH COMBINATIONS (36511)   | 1963 <sup>1</sup>  |                  | OTHER TELEPHONE AND TELEGRAPH (WIRE) APPARATUS, EQUIPMENT, AND COMPONENTS (36612)—Continued  | 1963 <sup>1</sup> 1958 |                  | INTERCOMMUNICATION EQUIPMENT (EXCEPT TELEPHONE AND TELEGRAPH) AND ELECTRIC ALARM AND SIGNAL SYSTEMS AND DEVICES (36623) | 1963 <sup>1</sup> 1958 |                  |
| United States, total....   | 531,290            |                  | East North Central.....  | 413,039                | 278,539          | United States, total...   | 165,801                | 129,786          |
| New England.....   | 16,051             |                  | Illinois.....  | 252,823                | 166,004          | New England.....  | 23,888                 | ( <sup>2</sup> ) |
| Middle Atlantic.....   | 100,503            |                  | West North Central.....  | 58,898                 | 6,590            | Massachusetts.....  | 10,324                 | 7,144            |
| New York.....  | 71,292             |                  | All other divisions.....   | 212,714                | 84,784           | Connecticut.....  | 13,564                 | 11,045           |
| North Central.....   | 324,066            |                  | California.....  | 33,387                 | 20,397           | Middle Atlantic.....  | 92,216                 | ( <sup>2</sup> ) |
| Indiana.....   | 153,882            |                  | COMMERCIAL, INDUSTRIAL, AND MILITARY ELECTRONIC COMMUNICATION EQUIPMENT (EXCEPT BROADCAST EQUIPMENT AND SPACE SATELLITE-BORNE COMMUNICATION EQUIPMENT) (36621) |                        |                  | New York.....   | 53,718                 | 42,504           |
| Illinois.....  | 151,564            |                  | United States, total...  | 1,080,989              | 416,001          | East North Central.....   | 24,848                 | 31,862           |
| South.....   | 79,579             |                  | New England.....   | 87,816                 | 19,001           | Ohio.....   | 12,004                 | 4,154            |
| West.....  | 11,091             |                  | Massachusetts.....   | 65,715                 | ( <sup>2</sup> ) | Illinois.....   | 11,691                 | 21,425           |
| HOUSEHOLD TELEVISION RECEIVERS, INCLUDING TELEVISION COMBINATIONS (36512)  | 1963 <sup>1</sup>  | 1958             | Connecticut.....   | 16,623                 | 3,252            | West North Central.....   | 8,245                  | 3,406            |
| United States, total....   | 1,092,310          | 726,594          | Middle Atlantic.....   | 254,594                | 179,266          | Missouri.....   | 1,173                  | 1,290            |
| Northeast.....   | 270,765            | ( <sup>2</sup> ) | New York.....  | 120,408                | 76,417           | South.....  | 7,977                  | 4,142            |
| North Central.....   | 706,426            | ( <sup>2</sup> ) | New Jersey.....  | 78,987                 | 83,169           | Texas.....  | 2,282                  | ( <sup>2</sup> ) |
| South and West.....  | 115,119            | ( <sup>2</sup> ) | Pennsylvania.....  | 55,199                 | 19,680           | West.....   | 8,627                  | 2,457            |
| RECORDERS, AUDIO AMPLIFIERS, PHONOGRAPHS, TUNERS, SPEAKER SYSTEMS, AND OTHER AUDIO EQUIPMENT AND ACCESSORIES (36513) | 1963 <sup>1</sup>  |                  | East North Central.....  | 316,674                | ( <sup>2</sup> ) | California.....   | 8,627                  | 2,279            |
| United States, total....   | 431,102            |                  | Ohio.....  | 126,537                | 8,887            | ELECTRONIC NAVIGATIONAL AIDS (EXCEPT MISSILE BORNE AND SPACE VEHICLE BASIN EQUIPMENT) (36624)                           |                        |                  |
| New England.....   | 29,849             |                  | Illinois.....  | 154,933                | 63,869           | United States, total...   | 1,246,261              | 425,542          |
| Massachusetts.....   | 26,856             |                  | West North Central.....  | 123,605                | ( <sup>2</sup> ) | New England.....  | 94,844                 | ( <sup>2</sup> ) |
| Middle Atlantic.....   | 95,248             |                  | South.....   | 215,607                | 73,089           | Massachusetts.....  | 87,527                 | 7,171            |
| New York.....  | 64,004             |                  | Maryland.....  | 50,750                 | 17,763           | Middle Atlantic.....  | 327,143                | ( <sup>2</sup> ) |
| New Jersey.....  | 18,158             |                  | North Carolina.....  | 12,000                 | 26,545           | New York.....   | 251,950                | ( <sup>2</sup> ) |
| Pennsylvania.....  | 13,086             |                  | Florida.....   | 15,902                 | ( <sup>2</sup> ) | North Central.....  | 139,032                | 61,467           |
| East North Central.....  | 229,901            |                  | Mountain.....  | 7,220                  | 22,215           | Illinois.....   | 6,605                  | ( <sup>2</sup> ) |
| Indiana.....   | 28,412             |                  | Pacific.....   | 75,473                 | 21,174           | South.....  | 147,126                | ( <sup>2</sup> ) |
| Illinois.....  | 157,143            |                  | California.....  | 74,911                 | 21,174           | Florida.....  | 17,742                 | ( <sup>2</sup> ) |
| Michigan.....  | 33,642             |                  | RADIO AND TELEVISION BROADCAST EQUIPMENT, AND CLOSED CIRCUIT SYSTEMS (36622)   |                        |                  | Mountain.....   | 12,113                 | ( <sup>2</sup> ) |
| West North Central.....  | 19,953             |                  | United States, total...  | 150,931                | 53,812           | Arizona.....  | 11,959                 | ( <sup>2</sup> ) |
| South Atlantic.....  | 1,920              |                  | New England.....   | 6,047                  | 1,715            | Pacific.....  | 526,003                | ( <sup>2</sup> ) |
| East South Central.....  | 17,284             |                  | Middle Atlantic.....   | 70,987                 | 28,214           | California.....   | 526,003                | ( <sup>2</sup> ) |
| West South Central.....  | 12,262             |                  | New York.....  | 19,757                 | ( <sup>2</sup> ) | ELECTRONIC SEARCH AND DETECTION APPARATUS, INCLUDING RADAR, INFRARED AND SONAR (36625)                                  |                        |                  |
| Texas.....   | 3,226              |                  | New Jersey.....  | 42,705                 | 18,253           | United States, total...   | 1,644,863              | 1,016,440        |
| West.....  | 24,685             |                  | Pennsylvania.....  | 8,525                  | 18,253           | New England.....  | 266,263                | 179,595          |
| TELEPHONE SWITCHING AND SWITCHBOARD EQUIPMENT (36611)  | 1963 <sup>1</sup>  | 1958             | East North Central.....  | 26,249                 | 10,537           | Massachusetts.....  | 208,742                | 168,943          |
| United States, total....   | 491,339            | 434,708          | Illinois.....  | 9,555                  | 4,371            | Connecticut.....  | 21,272                 | ( <sup>2</sup> ) |
| Northeast and North Central.   | 449,729            | ( <sup>2</sup> ) | West North Central.....  | 4,919                  | 3,282            | Middle Atlantic.....  | 571,113                | 368,720          |
| South and West.....  | 41,610             | ( <sup>2</sup> ) | South Atlantic.....  | 6,316                  | 2,226            | New York.....   | 440,975                | 228,297          |
| OTHER TELEPHONE AND TELEGRAPH (WIRE) APPARATUS, EQUIPMENT, AND COMPONENTS (36612)                                    |                    |                  | Maryland.....  | 6,198                  | ( <sup>2</sup> ) | New Jersey.....   | 107,905                | ( <sup>2</sup> ) |
| United States, total....   | 1,045,173          | 637,339          | West South Central.....  | 2,726                  | ( <sup>2</sup> ) | Pennsylvania.....   | 22,293                 | ( <sup>2</sup> ) |
| Northeast.....   | 360,522            | 267,426          | Mountain.....  | 1,247                  | ( <sup>2</sup> ) | North Central.....  | 175,917                | 74,214           |
| Massachusetts.....   | 184,842            | 114,089          | Pacific.....   | 32,440                 | ( <sup>2</sup> ) | Illinois.....   | 28,186                 | 25,483           |
| New York.....  | 47,945             | 12,969           |  |                        |                  | South.....  | 317,303                | ( <sup>2</sup> ) |
| New Jersey.....  | 120,952            | 139,578          |  |                        |                  | Texas.....  | 44,597                 | ( <sup>2</sup> ) |

See footnotes at end of table.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area   | Value of shipments |         | Product class and geographic area   | Value of shipments |         | Product class and geographic area  | Value of shipments |         |
|---|--------------------|---------|---|--------------------|---------|--|--------------------|---------|
|   | 1963 <sup>1</sup>  | 1958    |   | 1963 <sup>1</sup>  | 1958    |  | 1963 <sup>1</sup>  | 1958    |
| ELECTRONIC MILITARY, INDUSTRIAL, AND COMMERCIAL EQUIPMENT, N.E.C. (36626)                   |                    |         | CAPACITORS FOR ELECTRONIC APPLICATIONS (36792)                                |                    |         | COILS, TRANSFORMERS, REACTORS, AND CHOKES FOR ELECTRONIC APPLICATIONS (36794)—Continued                                |                    |         |
| United States, total....  | 723,925            | 340,749 | United States, total....  | 318,831            | 183,562 | East North Central.....  | 114,364            | 78,596  |
| New England.....  | 73,854             | (2)     | New England.....  | 90,176             | 56,040  | Ohio.....  | 12,463             | 18,180  |
| Massachusetts.....  | 54,826             | 10,026  | Massachusetts.....  | 39,539             | 35,791  | Indiana.....   | 34,194             | 9,597   |
| Connecticut.....  | 10,557             | (2)     | Connecticut.....  | 25,752             | 10,446  | Illinois.....  | 54,272             | 43,027  |
| Middle Atlantic.....  | 177,700            | (2)     | Middle Atlantic.....  | 46,275             | 33,970  | Michigan.....  | 8,427              | 5,151   |
| New York.....   | 112,757            | (2)     | New York.....   | 17,822             | 11,428  | Wisconsin.....   | 5,008              | 2,641   |
| New Jersey.....   | 46,264             | 21,235  | New Jersey.....   | 11,884             | 12,590  | West North Central.....  | 15,961             | 10,762  |
| Pennsylvania.....   | 18,679             | 11,860  | Pennsylvania.....   | 16,569             | 9,952   | Minnesota.....   | 4,373              | (2)     |
| East North Central.....   | 121,366            | (2)     | North Central.....  | 67,162             | 42,207  | Missouri.....  | 2,634              | 4,408   |
| Ohio.....   | 12,710             | 3,173   | Ohio.....   | 8,571              | (2)     | South Atlantic.....  | 8,562              | 4,045   |
| Illinois.....   | 65,178             | (2)     | Illinois.....   | 26,620             | 23,971  | Florida.....   | 3,970              | (2)     |
| Michigan.....   | 3,538              | (2)     | Wisconsin.....  | 7,074              | 4,383   | East South Central.....  | 3,255              | 1,103   |
| West North Central.....   | 6,195              | (2)     | South Atlantic.....   | 77,082             | (2)     | West South Central.....  | 2,665              | 1,404   |
| Minnesota.....  | 2,100              | (2)     | Virginia.....   | 11,102             | (2)     | Texas.....   | 2,665              | 1,404   |
| Missouri.....   | 3,512              | (2)     | North Carolina.....   | 29,117             | 14,053  | West.....  | 30,386             | 20,531  |
| South.....  | 129,208            | (2)     | South Carolina.....   | 35,044             | 8,900   | OTHER ELECTRONICS COMPONENTS AND ACCESSORIES, N.E.C., INCLUDING PARTS FOR ELECTRON TUBES (EXCEPT GLASS BLANKS) (36795) |                    |         |
| Maryland.....   | 25,563             | 8,369   | East South Central.....   | 13,514             | (2)     | United States, total...  | 1,496,668          | 685,015 |
| Virginia.....   | 14,062             | (2)     | West South Central.....   | 3,020              | (2)     | New England.....   | 212,492            | 86,868  |
| Florida.....  | 55,010             | 29,903  | Texas.....  | 3,020              | (2)     | Massachusetts.....   | 107,706            | 32,082  |
| Oklahoma.....   | 14,549             | (2)     | West.....   | 21,602             | (2)     | Rhode Island.....  | 9,792              | (2)     |
| Texas.....  | 13,920             | (2)     | RESISTORS FOR ELECTRONIC APPLICATIONS (36793)                                 |                    |         | Connecticut.....   | 74,867             | 44,370  |
| Mountain.....   | 14,882             | (2)     | United States, total...   | 312,583            | 146,788 | Middle Atlantic.....   | 489,714            | 222,903 |
| Pacific.....  | 200,720            | (2)     | New England.....  | 22,199             | 14,790  | New York.....  | 235,022            | 87,356  |
| California.....   | 196,992            | 32,015  | New Hampshire.....  | 12,738             | (2)     | New Jersey.....  | 137,701            | 72,644  |
| MISSILE-BORNE AND SPACE VEHICLE-BORNE NAVIGATION AND GUIDANCE SYSTEMS AND EQUIPMENT (36628) |                    |         | Middle Atlantic.....  | 101,974            | 48,603  | Pennsylvania.....  | 116,991            | 62,903  |
| United States, total....  | 978,597            |         | New York.....   | 34,120             | 12,712  | East North Central.....  | 307,297            | 212,737 |
| New England.....  | 70,721             |         | New Jersey.....   | 7,676              | 7,960   | Ohio.....  | 54,478             | 44,644  |
| Massachusetts.....  | 63,653             |         | Pennsylvania.....   | 60,178             | 27,931  | Indiana.....   | 38,984             | 16,868  |
| Middle Atlantic.....  | 250,461            |         | East North Central.....   | 101,884            |         | Illinois.....  | 149,040            | 112,850 |
| North Central.....  | 105,018            |         | Indiana.....  | 28,322             |         | Michigan.....  | 48,220             | 31,361  |
| South.....  | 85,968             |         | West North Central.....   | 36,455             |         | Wisconsin.....   | 16,575             | 7,004   |
| Mountain.....   | 1,614              |         | Iowa.....   | 19,119             |         | West North Central.....  | 102,249            | 46,085  |
| Pacific.....  | 464,815            |         | South.....  | 16,533             | (2)     | Minnesota.....   | 74,821             | 31,433  |
| TRANSMITTING, INDUSTRIAL, AND SPECIAL PURPOSE ELECTRON TUBES - MC-36M (36730)               |                    |         | North Carolina.....   | 7,334              | (2)     | Iowa.....  | 8,146              | 7,212   |
| United States, total....  | 286,663            | 224,899 | West.....   | 33,538             | (2)     | Missouri.....  | 10,874             | 5,226   |
| New England.....  | 49,244             | 64,917  | COILS, TRANSFORMERS, REACTORS, AND CHOKES FOR ELECTRONIC APPLICATIONS (36794) |                    |         | Nebraska.....  | 2,860              | (2)     |
| Middle Atlantic.....  | 111,889            | 100,451 | United States, total...   | 274,443            | 191,984 | Kansas.....  | 5,548              | (2)     |
| New York.....   | 38,203             | 20,120  | New England.....  | 32,076             | 22,620  | South Atlantic.....  | 83,980             | 20,611  |
| New Jersey.....   | 32,566             | 40,592  | Massachusetts.....  | 25,999             | 19,010  | Maryland.....  | 13,908             | 5,347   |
| Pennsylvania.....   | 41,120             | 39,739  | Middle Atlantic.....  | 67,174             | 52,923  | North Carolina.....  | 11,487             | 9,726   |
| North Central.....  | 11,766             | (2)     | New York.....   | 35,712             | 33,579  | East South Central.....  | 13,506             | (2)     |
| Illinois.....   | 7,047              | (2)     | New Jersey.....   | 14,013             | 10,416  | Tennessee.....   | 3,156              | 2,018   |
| South.....  | 17,775             | (2)     | Pennsylvania.....   | 17,449             | 8,928   | West South Central.....  | 18,061             | (2)     |
| West.....   | 95,989             | (2)     |   |                    |         | Texas.....   | 14,037             | 2,941   |
|   |                    |         |   |                    |         | Mountain.....  | 16,516             | 1,857   |
|   |                    |         |   |                    |         | Colorado.....  | 2,616              | (2)     |
|   |                    |         |   |                    |         | Arizona.....   | 7,566              | (2)     |
|   |                    |         |   |                    |         | Pacific.....   | 252,853            | 83,929  |
|   |                    |         |   |                    |         | California.....  | 249,962            | 82,511  |

Footnotes on next page.

TABLE 6D. **Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued**

Footnotes for table 6D-36D

(Z) Less than \$1 million reported. n.e.c. Not elsewhere classified.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 36511, Massachusetts, Connecticut, New Jersey, Pennsylvania, Ohio, Iowa, Maryland, Kentucky, Tennessee, Arkansas, Texas, California; 36512, Massachusetts, New York, New Jersey, Pennsylvania, Indiana, Illinois, Minnesota, Tennessee, Arkansas, Texas, California; 36513, Maine, Connecticut, Ohio, Wisconsin, Minnesota, Iowa, North Carolina, Kentucky, Tennessee, Arkansas, Oklahoma, California; 36611, New York, New Jersey, Ohio, Illinois, Nebraska, Virginia, Tennessee, Oklahoma; 36612, Connecticut, Pennsylvania, Ohio, Indiana, Wisconsin, Minnesota, Missouri, Nebraska, Maryland, North Carolina, Tennessee, Mississippi, Arkansas, Oklahoma, Oregon; 36621, New Hampshire, Indiana, Michigan, Minnesota, Iowa, Missouri, Kansas, Virginia, South Carolina, Oklahoma, Texas, New Mexico, Arizona, Nevada; 36622, Massachusetts, Indiana, Michigan, Iowa, Texas, California; 36623, New Jersey, Pennsylvania, Minnesota, Iowa, Virginia, Kentucky; 36624, Connecticut, New Jersey, Pennsylvania, Ohio, Indiana, Minnesota, Iowa, Missouri, Maryland, Virginia, North Carolina, Tennessee, Alabama, Texas; 36625, New Hampshire, Rhode Island, Ohio, Indiana, Michigan, Wisconsin, Maryland, Virginia, North Carolina, South Carolina, Florida, Tennessee, Oklahoma, Arizona, Utah, Washington, California; 36626, New Hampshire, Indiana, Wisconsin, North Carolina, Arkansas, Idaho, New Mexico, Arizona, Washington; 36628, Connecticut, New York, New Jersey, Pennsylvania, Ohio, Michigan, Wisconsin, Minnesota, Iowa, Maryland, North Carolina, Florida, Tennessee, Alabama, Texas, Arizona, Washington, California; 36730, Massachusetts, Connecticut, Ohio, Missouri, Virginia, Florida, Kentucky, Texas, Utah, California; 36792, New Hampshire, Vermont, Rhode Island, Indiana, Minnesota, Nebraska, Florida, Tennessee, Alabama, Mississippi, California; 36793, Massachusetts, Rhode Island, Ohio, Illinois, Michigan, Wisconsin, Minnesota, Missouri, Nebraska, Kansas, Maryland, Florida, Texas, California; 36794, Connecticut, Iowa, West Virginia, South Carolina, Tennessee, California; 36795, Maine, New Hampshire, Vermont, Virginia, West Virginia, Georgia, Florida, Kentucky, Alabama, Oklahoma, New Mexico, Utah, Washington.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code  | Material   | Unit of measure                  | 1963     |                          | 1958     |                          |
|---|--|----------------------------------|----------|--------------------------|----------|--------------------------|
|   |  |                                  | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3651.—RADIO AND TV RECEIVING SETS    |  |                                  |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....   |                                  | (X)      | 1,335,000                | (X)      | 894,137                  |
|   | Mill shapes and forms (except castings):   |                                  |          |                          |          |                          |
|   | Carbon steel:  |                                  |          |                          |          |                          |
| 331011  | Bars and bar shapes.....   | Short tons....                   | 2,500    | 485                      | 5,572    | 1,190                    |
| 331012  | Sheet and strip.....   | ..do.....                        | 49,670   | 10,155                   | 53,445   | 11,747                   |
| 331019  | All other carbon steel mill shapes and forms.....  | ..do.....                        | 7,801    | 1,531                    | 3,834    | 1,354                    |
| 331020  | Alloy steel (except stainless).....  | ..do.....                        | 2,202    | 703                      | 2,467    | 1,380                    |
| 331031  | Stainless steel.....   | ..do.....                        | 232      | 403                      | 61       | 73                       |
|   | Copper and copper-base alloy:  |                                  |          |                          |          |                          |
| 335728  | Bare wire (for electrical conduction only).....  | 1,000 lbs....                    | 5,221    | 1,532                    | 4,438    | 1,872                    |
| 335790  | Insulated wire and cable.....  | 1,000 lbs. (copper content)..... |          |                          |          |                          |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                           | 1,000 lbs....                    | 18,632   | 11,527                   | 4,802    | 5,441                    |
| 335123  | Plate, sheet, and strip, including military cups and discs.....                                      | ..do.....                        | 625      | 543                      | 758      | 416                      |
| 335127  | Pipe and tube.....   | ..do.....                        |          |                          |          |                          |
|   | Aluminum and aluminum-base alloy:  |                                  |          |                          |          |                          |
| 335202  | Sheet, plate and foil.....   | ..do.....                        | 921      | 605                      | 2,673    | 1,671                    |
| 335205  | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                                      | ..do.....                        | 1,578    | 1,043                    | 1,154    | 487                      |
| 335209  | All other aluminum mill shapes and forms (wire rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                        |          |                          |          |                          |
| 336100  | Aluminum and aluminum-base alloy castings (rough and semifinished).                                  | ..do.....                        | 765      | 651                      | (NA)     | 1,229                    |
|   | Fractional horsepower electric motors (under 1 hp.):   |                                  |          |                          |          |                          |
| 362110  | Timing motors, synchronous and subsynchronous.....   | Thousands....                    | 1,157    | 2,892                    | 824      | 4,862                    |
| 362115  | Other fractional horsepower electric motors (excluding timing motors).....                           | ..do.....                        | 1,618    | 6,352                    | 871      | 2,862                    |
| 367010  | Electron tubes, except X-ray.....  | ..do.....                        | 200,089  | 274,324                  | 103,736  | 135,053                  |
| 367401  | Solid state semiconductors.....  | ..do.....                        | 86,029   | 24,340                   | 17,255   | 15,514                   |
| 339913  | Ferrites (powders and paste).....  | ..do.....                        | (X)      | 1,135                    | (X)      | 1,298                    |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                    | ..do.....                        | (X)      | 859,627                  | (X)      | 578,553                  |
| 976000  | Materials, parts, containers and supplies, n.s.k.....  | ..do.....                        | (X)      | 137,152                  | (X)      | 129,135                  |
| INDUSTRY 3661.—TELEPHONE; TELEGRAPH APPARATUS |  |                                  |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....   |                                  | (X)      | 655,050                  | (X)      | 479,565                  |
|   | Mill shapes and forms (except castings):   |                                  |          |                          |          |                          |
|   | Carbon steel:  |                                  |          |                          |          |                          |
| 331011  | Bars and bar shapes.....   | Short tons....                   | 19,489   | 3,755                    | 14,441   | 3,076                    |
| 331012  | Sheet and strip.....   | ..do.....                        | 85,584   | 12,085                   | 43,306   | 8,055                    |
| 331019  | All other carbon steel mill shapes and forms.....  | ..do.....                        | 7,221    | 1,727                    | 10,529   | 2,798                    |
|   | Alloy steel (except stainless):  |                                  |          |                          |          |                          |
| 331021  | Bars and bar shapes.....   | ..do.....                        | 10,061   | 8,428                    | 1,170    | 1,259                    |
| 331029  | All other alloy steel mill shapes and forms.....   | ..do.....                        |          |                          |          |                          |
| 331031  | Stainless steel.....   | ..do.....                        |          |                          | 1,251    | 1,609                    |
|   | Copper and copper-base alloy:  |                                  |          |                          |          |                          |
| 335728  | Bare wire (for electrical conduction only).....  | 1,000 lbs....                    | 7,195    | 7,543                    | 5,267    | 4,054                    |
| 335790  | Insulated wire and cable.....  | 1,000 lbs. (copper content)..... |          |                          |          |                          |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                           | 1,000 lbs....                    | 12,725   | 25,336                   | 23,717   | 23,633                   |
| 335123  | Plate, sheet, and strip, including military cups and discs.....                                      | ..do.....                        | 8,473    | 5,195                    | 25,164   | 10,534                   |
| 335127  | Pipe and tube.....   | ..do.....                        | 22,587   | 11,918                   |          |                          |
|   | Aluminum and aluminum-base alloy:  |                                  |          |                          |          |                          |
| 335202  | Sheet, plate and foil.....   | ..do.....                        | 4,994    | 2,828                    | 4,350    | 2,088                    |
| 335205  | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)                                      | ..do.....                        | 1,149    | 630                      | 3,287    | 1,856                    |
| 335209  | All other aluminum mill shapes and forms (wire rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                        | 4,198    | 1,666                    |          |                          |
| 336100  | Aluminum and aluminum-base alloy castings (rough and semifinished).                                  | ..do.....                        | 5,122    | 3,178                    | 800      | 921                      |
| 367010  | Electron tubes, except X-ray.....  | Thousands....                    | 1,857    | 11,645                   | 6,136    | 11,830                   |
| 367408  | Solid state semiconductors.....  | ..do.....                        | 96,388   | 48,085                   | (NA)     | 3,430                    |
| 282130  | Thermoplastic resins (cellulosics, polyethylenes, styrenes, etc.)..                                  | 1,000 lbs....                    | 18,029   | 8,179                    | (NA)     | (NA)                     |
| 282140  | Thermosetting resins (melamines, phenolics, polyesters, ureas, etc.                                  | ..do.....                        | 7,553    | 1,771                    | (NA)     | (NA)                     |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                    | ..do.....                        | (X)      | 490,014                  | (X)      | 404,422                  |
| 976000  | Materials, parts, containers, and supplies, n.s.k.....   | ..do.....                        | (X)      | 9,938                    | (X)      | -                        |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material   | Unit of measure                 | 1963     |                          | 1958     |                          |
|--|--|---------------------------------|----------|--------------------------|----------|--------------------------|
|  |  |                                 | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3662.—RADIO, TV COMMUNICATION EQUIPMENT     |  |                                 |          |                          |          |                          |
|  | Materials, parts, containers and supplies, total.....                            |                                 | (X)      | 2,468,669                | (X)      | r 1,076,231              |
| Mill shapes and forms (except castings):             |  |                                 |          |                          |          |                          |
| Carbon steel:  |  |                                 |          |                          |          |                          |
| 331012   | Sheet and strip.....   | Short tons....                  | 15,986   | 3,208                    | 13,432   | 2,315                    |
| 331011   | Bars and bar shapes.....   | ..do.....                       |          |                          | 10,744   | 1,721                    |
| 331017   | Wire and wire products.....  | ..do.....                       | (NA)     | 10,319                   | (NA)     | 636                      |
| 331015   | Structural shapes.....   | ..do.....                       |          |                          |          |                          |
| 331019   | All other carbon steel mill shapes and forms.....                                | ..do.....                       |          |                          | 15,077   | 3,329                    |
| Alloy steel (except stainless):                      |  |                                 |          |                          |          |                          |
| 331021   | Bars and bar shapes.....   | ..do.....                       | 1,362    | 588                      | 1,176    | 309                      |
| 331029   | All other alloy steel mill shapes and forms.....                                 | ..do.....                       | 2,565    | 1,153                    | 1,897    | 1,075                    |
| 331031   | Stainless steel.....   | ..do.....                       | 1,984    | 3,174                    | 1,784    | 2,572                    |
| Copper and copper-base alloy:                        |  |                                 |          |                          |          |                          |
| 335728   | Bare wire (for electrical conduction only).....                                  | 1,000 lbs.....                  | 4,371    | 3,387                    | 951      | 430                      |
| 335790   | Insulated wire and cable.....  | 1,000 lbs. (copper content).... | 24,238   | 22,307                   | 9,524    | 9,755                    |
| 335102   | Rod, bar and mechanical wire, including extruded and/or drawn shapes.....        | 1,000 lbs.....                  | 2,698    | 1,721                    |          |                          |
| 335123   | Plate, sheet, and strip (including military cups and discs)....                  | ..do.....                       | 1,401    | 1,258                    | 2,415    | 1,789                    |
| 335127   | Pipe and tube.....   | ..do.....                       | 1,234    | 926                      |          |                          |
| Aluminum and aluminum-base alloy:                    |  |                                 |          |                          |          |                          |
| 335202   | Sheet, plate and foil.....   | ..do.....                       | 13,437   | 8,804                    | 8,562    | 5,179                    |
| 335205   | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)                  | ..do.....                       | 8,933    | 5,978                    |          |                          |
| 335209   | All other aluminum mill shapes and forms.....                                    | ..do.....                       | 3,955    | 2,592                    | 5,966    | 3,814                    |
| 335606   | Nickel and nickel-base alloy mill shapes and forms.....                          | ..do.....                       | 348      | 732                      | 146      | 311                      |
| Castings (rough and semifinished):                   |  |                                 |          |                          |          |                          |
| 332300   | Steel.....   | Short tons....                  | 14,931   | 8,069                    | 5,445    | 2,452                    |
| 336100   | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....                  | 11,248   | 13,892                   | 4,103    | 4,617                    |
| 336200   | Copper and copper-base alloy.....  | ..do.....                       | 1,066    | 1,243                    | 2,453    | 2,058                    |
| Fractional electric horsepower motors (under 1 hp.): |  |                                 |          |                          |          |                          |
| 362110   | Timing motors, synchronous and subsynchronous.....                               | Thousands....                   | 191      | 9,176                    | (NA)     | r 9,022                  |
| 362115   | Other fractional horsepower electric motors (excluding timing motors).....       | ..do.....                       | 414      | 11,690                   | 176      | 10,184                   |
| 367010   | Electron tubes, except X-ray.....  | ..do.....                       | 55,857   | 66,496                   | 22,723   | 56,246                   |
| 367408   | Solid state semiconductors.....  | ..do.....                       | 123,780  | 104,248                  | 6,582    | 18,248                   |
| 281995   | Silicon, hyperpure.....  | Kilograms....                   | 695      | 1,431                    | (NA)     | (NA)                     |
| 335605   | Germanium.....   | Pounds.....                     | 870      | 223                      | (NA)     | (NA)                     |
| 260091   | Paper and paperboard containers.....   | ..do.....                       | (X)      | 6,114                    | (X)      | (NA)                     |
| 339913   | Ferrites (powder and paste).....   | ..do.....                       | (X)      | 2,123                    | (X)      | 212                      |
| Glass and glass products:                            |  |                                 |          |                          |          |                          |
| 322921   | Tube blanks.....   | Thousands....                   | (D)      | (D)                      | (NA)     | (NA)                     |
| 320311   | Other than tube blanks.....  | ..do.....                       | (X)      | 1,370                    | (NA)     | (NA)                     |
| 367951   | Fabricated electron tube parts, except blanks.....                               | ..do.....                       | (X)      | 8,762                    | (NA)     | (NA)                     |
| 282130   | Thermoplastic resins (cellulosics, polyethylenes, styrenes, etc.)..              | 1,000 lbs.....                  | 2,498    | 380                      | (NA)     | (NA)                     |
| 282140   | Thermosetting resins (melamines, phenolics, polyesters, ureas, etc.)             | ..do.....                       | (D)      | (D)                      | (NA)     | (NA)                     |
| 970099   | All other materials and components, parts, containers and supplies consumed..... | ..do.....                       | (X)      | 2,032,543                | (X)      | r 730,961                |
| 976000   | Materials, parts, containers and supplies, n.s.k.....                            | ..do.....                       | (X)      | 134,762                  | (X)      | 208,996                  |
| INDUSTRY 3671.—ELECTRON TUBES, RECEIVING TYPE        |  |                                 |          |                          |          |                          |
|  | Materials, parts, containers, and supplies, total.....                           |                                 | (X)      | 60,103                   | (X)      | 73,442                   |
| Mill shapes and forms (except castings):             |  |                                 |          |                          |          |                          |
| Carbon steel:  |  |                                 |          |                          |          |                          |
| 331011   | Bars and bar shapes.....   | Short tons....                  | (D)      | (D)                      | (NA)     | (NA)                     |
| 331012   | Sheet and strip.....   | ..do.....                       | (D)      | (D)                      | (NA)     | (NA)                     |
| 331015   | Structural shapes.....   | ..do.....                       | -        | -                        | (NA)     | (NA)                     |
| 331017   | Wire and wire products.....  | ..do.....                       | (D)      | (D)                      | (NA)     | (NA)                     |
| 331019   | All other carbon mill shapes and forms.....                                      | ..do.....                       | -        | -                        | (NA)     | (NA)                     |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material   | Unit of measure                    | 1963     |                          | 1958     |                          |
|--|--|------------------------------------|----------|--------------------------|----------|--------------------------|
|  |  |                                    | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3671.—ELECTRON TUBES, RECEIVING TYPE—Con. |  |                                    |          |                          |          |                          |
|  | Mill shapes and forms (except castings):—Continued                               |                                    |          |                          |          |                          |
|  | Alloy steel (except stainless):  |                                    |          |                          |          |                          |
| 331021   | Bars and bar shapes.....   | Short tons....                     | -        | -                        | (NA)     | (NA)                     |
| 331029   | All other alloy steel mill shapes and forms.....                                 | ...do.....                         | (D)      | (D)                      | (NA)     | (NA)                     |
| 331031   | Stainless steel.....   | ...do.....                         | (D)      | (D)                      | (NA)     | (NA)                     |
|  | Copper and copper-base alloy:  |                                    |          |                          |          |                          |
| 335728   | Bare wire (for electrical conduction only).....                                  | 1,000 lbs....                      | (D)      | (D)                      | (NA)     | (NA)                     |
| 335790   | Insulated wire and cable.....  | 1,000 lbs.<br>(copper content).... | (D)      | (D)                      | (NA)     | (NA)                     |
| 335102   | Rod, bar and mechanical wire, including extruded and/or drawn shapes.....        | 1,000 lbs....                      | (D)      | (D)                      | (NA)     | (NA)                     |
| 335123   | Plate, sheet, and strip (including military cups and discs)...                   | ...do.....                         | (D)      | (D)                      | (NA)     | (NA)                     |
| 335127   | Pipe and tube.....   | .....                              | -        | -                        | (NA)     | (NA)                     |
|  | Aluminum and aluminum-base alloy:  |                                    |          |                          |          |                          |
| 335202   | Sheet, plate and foil.....   | 1,000 lbs....                      | (D)      | (D)                      | (NA)     | (NA)                     |
| 335205   | Extruded shapes (including extruded rod, bar, pipe, tube,etc.)                   | ...do.....                         | (D)      | (D)                      | -        | -                        |
| 335209   | All other aluminum mill shapes and forms.....                                    | .....                              | -        | -                        | (NA)     | (NA)                     |
|  | Castings (rough and semifinished):   |                                    |          |                          |          |                          |
| 332300   | Steel.....   | Short tons....                     | -        | -                        | (NA)     | (NA)                     |
| 336100   | Aluminum and aluminum-base alloy.....  | 1,000 lbs....                      | (D)      | (D)                      | -        | -                        |
| 336200   | Copper and copper-base alloy.....  | .....                              | -        | -                        | (NA)     | (NA)                     |
|  | Fractional electric horsepower motors (under 1 hp.):                             |                                    |          |                          |          |                          |
| 362110   | Timing motors synchronous and subsynchronous.....                                | Number.....                        | (D)      | (D)                      | (NA)     | (NA)                     |
| 362115   | Other fractional horsepower electric motors (excluding timing motors).....       | ...do.....                         | (D)      | (D)                      | (NA)     | (NA)                     |
| 367010   | Electron tubes, except X-ray.....  | Thousands....                      | (D)      | (D)                      | (NA)     | (NA)                     |
| 367408   | Solid state semiconductors.....  | ...do.....                         | (D)      | (D)                      | (NA)     | (NA)                     |
| 260091   | Paper and paperboard containers.....   | .....                              | (X)      | 1,163                    | (X)      | 1,617                    |
| 329905   | Mica.....  | Pounds.....                        | 468,088  | 2,553                    | (NA)     | 4,776                    |
| 335606   | Nickel and nickel-base alloy mill shapes and forms.....                          | 1,000 lbs....                      | 1,391    | 3,044                    | 788      | 2,335                    |
| 335603   | Molybdenum, rolled, drawn, or extruded.....                                      | Pounds.....                        | 30,485   | 1,968                    | (NA)     | 1,263                    |
| 335733   | Tungsten wire.....   | .....                              | (X)      | 3,468                    | (X)      | 2,993                    |
| 322921   | Glass tube blanks.....   | Thousands....                      | 331,401  | 3,339                    | (NA)     | (NA)                     |
| 320311   | Glass products other than tube blanks.....                                       | .....                              | (X)      | 1,652                    | (X)      | (NA)                     |
| 367951   | Fabricated electron tube parts, except blanks.....                               | .....                              | (X)      | 26,209                   | (X)      | (NA)                     |
| 970099   | All other materials and components, parts, containers and supplies consumed..... | .....                              | (X)      | 15,574                   | (X)      | 56,185                   |
| 976000   | Materials, parts, containers and supplies, n.s.k.....                            | .....                              | (X)      | 1,133                    | (X)      | 4,273                    |
| INDUSTRY 3672.—CATHODE RAY PICTURE TUBES           |  |                                    |          |                          |          |                          |
|  | Materials, parts, containers and supplies, total.....                            | .....                              | (X)      | 138,318                  | (X)      | 86,200                   |
|  | Mill shapes and forms (except castings):   |                                    |          |                          |          |                          |
|  | Carbon steel:  |                                    |          |                          |          |                          |
| 331011   | Bars and bar shapes.....   | Short tons....                     | (D)      | (D)                      | (NA)     | (NA)                     |
| 331012   | Sheet and strip.....   | ...do.....                         | (D)      | (D)                      | (NA)     | (NA)                     |
| 331015   | Structural shapes.....   | ...do.....                         | (D)      | (D)                      | (NA)     | (NA)                     |
| 331021   | Alloy steel (except stainless)   |                                    |          |                          |          |                          |
| 331021   | Bars and bar shapes.....   | Short tons....                     | (D)      | (D)                      | (NA)     | (NA)                     |
| 331031   | Stainless steel.....   | ...do.....                         | (D)      | (D)                      | (NA)     | (NA)                     |
|  | Copper and copper-base alloy:  |                                    |          |                          |          |                          |
| 335123   | Plate, sheet, and strip (including military cups and discs)...                   | 1,000 lbs....                      | (D)      | (D)                      | (NA)     | (NA)                     |
| 335127   | Pipe and tube.....   | ...do.....                         | (D)      | (D)                      | (NA)     | (NA)                     |
|  | Aluminum and aluminum-base alloy:  |                                    |          |                          |          |                          |
| 335202   | Sheet, plate and foil.....   | ...do.....                         | (D)      | (D)                      | (NA)     | (NA)                     |
| 335205   | Extruded shapes (including extruded rod, bar, pipe, tube,etc.)                   | ...do.....                         | (D)      | (D)                      | (NA)     | (NA)                     |
| 335209   | All other aluminum mill shapes and forms.....                                    | ...do.....                         | (D)      | (D)                      | (NA)     | (NA)                     |
|  | Castings (rough and semifinished)  |                                    |          |                          |          |                          |
| 336100   | Aluminum and aluminum-base alloy.....  | ...do.....                         | (D)      | (D)                      | (NA)     | (NA)                     |
| 336200   | Copper and copper-base alloy.....  | ...do.....                         | (D)      | (D)                      | (NA)     | (NA)                     |
|  | Fractional electric horsepower motors (under 1 hp.):                             |                                    |          |                          |          |                          |
| 362115   | Other fractional horsepower electric motors (excluding timing motors).....       | Number.....                        | (D)      | (D)                      | (NA)     | (NA)                     |
| 367010   | Electron tubes, except X-ray.....  | Thousands....                      | 105,303  | 793                      | (NA)     | (NA)                     |
| 260091   | Paper and paperboard containers.....   | .....                              | (X)      | (D)                      | (X)      | 2,955                    |
| 335733   | Tungsten wire.....   | 1,000 lbs....                      | (D)      | (D)                      | (X)      | 124                      |
| 339913   | Ferrites (powder and paste).....   | .....                              | (X)      | (D)                      | (NA)     | (NA)                     |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | Unit of measure                  | 1963       |                          | 1958     |                          |
|--|---|----------------------------------|------------|--------------------------|----------|--------------------------|
|  |   |                                  | Quantity   | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3672.—CATHODE RAY PICTURE TUBES—Continued   |   |                                  |            |                          |          |                          |
| 322921   | Glass and glass products:   |                                  |            |                          |          |                          |
| 320311   | Tube blanks.....  | Thousands.....                   | 49,217 (X) | 61,777 (D)               | (NA)     | (NA)                     |
|  | Other than tube blanks.....   | .....                            |            |                          | (NA)     | (NA)                     |
| 367951   | Fabricated electron tube parts, except blanks.....                                | .....                            | (X)        | 7,160                    | (NA)     | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed..... | .....                            | (X)        | 65,178                   | (X)      | 82,348                   |
| 976000   | Materials, parts, containers, and supplies, n.s.k.....                            | .....                            | (X)        | 3,410                    | (X)      | 773                      |
| INDUSTRY 3673.—ELECTRON TUBES, TRANSMITTING          |   |                                  |            |                          |          |                          |
|  | Materials, parts, containers and supplies, total.....                             | .....                            | (X)        | 73,946                   | (X)      | 73,346                   |
| Mill shapes and forms (except castings):             |   |                                  |            |                          |          |                          |
| Carbon steel:  |   |                                  |            |                          |          |                          |
| 331011   | Bars and bar shapes.....  | Short tons.....                  | } 105      | } 263                    | (NA)     | (NA)                     |
| 331012   | Sheet and strip.....  | ..do.....                        |            |                          | (NA)     | (NA)                     |
| 331015   | Structural shapes.....  | ..do.....                        |            |                          | (NA)     | (NA)                     |
| 331017   | Wire and wire products.....   | ..do.....                        |            |                          | (NA)     | (NA)                     |
| 331019   | All other carbon steel mill shapes and forms.....                                 | ..do.....                        |            |                          | (NA)     | (NA)                     |
| Alloy steel (except stainless):                      |   |                                  |            |                          |          |                          |
| 331021   | Bars and bar shapes.....  | ..do.....                        | } 22       | } 116                    | (NA)     | (NA)                     |
| 331029   | All other alloy steel mill shapes and forms.....                                  | ..do.....                        |            |                          | (NA)     | (NA)                     |
| 331031   | Stainless steel.....  | ..do.....                        | 146        | 552                      | (NA)     | (NA)                     |
| Copper and copper base alloy:                        |   |                                  |            |                          |          |                          |
| 335728   | Bare wire (for electrical conduction only).....                                   | 1,000 lbs.....                   | } 97       | } 131                    | (NA)     | (NA)                     |
| 335790   | Insulated wire and cable.....   | 1,000 lbs. (copper content)..... |            |                          | (NA)     | (NA)                     |
| 335102   | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....        | 1,000 lbs.....                   | 656        | 735                      | (NA)     | (NA)                     |
| 335123   | Plate, sheet, and strip (including military cups and discs).....                  | ..do.....                        | 800        | 751                      | (NA)     | (NA)                     |
| 335127   | Pipe and tube.....  | ..do.....                        | 406        | 410                      | (NA)     | (NA)                     |
| Aluminum base and aluminum base alloy:               |   |                                  |            |                          |          |                          |
| 335202   | Sheet, plate, and foil.....   | ..do.....                        | } 290      | } 384                    | (NA)     | (NA)                     |
| 335205   | Extruded shapes (including extruded rod, bar, pipe, tube, etc.).....              | ..do.....                        |            |                          | (NA)     | (NA)                     |
| 335209   | All other aluminum mill shapes and forms.....                                     | ..do.....                        |            |                          | 139      | 219                      |
| Castings (rough and semifinished):                   |   |                                  |            |                          |          |                          |
| 332300   | Steel.....  | Short tons.....                  | 50         | 61                       | (NA)     | (NA)                     |
| 336100   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                   | 1,145      | 144                      | (NA)     | (NA)                     |
| 336200   | Copper and copper-base alloy.....   | ..do.....                        | (D)        | (D)                      | (NA)     | (NA)                     |
| Fractional electric horsepower motors (under 1 hp.): |   |                                  |            |                          |          |                          |
| 362110   | Timing motors, synchronous and subsynchronous.....                                | Number.....                      | (D)        | (D)                      | (NA)     | (NA)                     |
| 362115   | Other fractional horsepower electric motors (excluding timing motors).....        | ..do.....                        | (D)        | (D)                      | (NA)     | (NA)                     |
| 367010   | Electron tubes, except X-ray.....   | Thousands.....                   | 9,110      | 2,512                    | (NA)     | (NA)                     |
| 367408   | Solid state semiconductors.....   | ..do.....                        | 1,960      | 509                      | (NA)     | (NA)                     |
| 335605   | Germanium.....  | Kilograms.....                   | (D)        | (D)                      | (NA)     | (NA)                     |
| 260091   | Paper and paperboard containers.....  | .....                            | (X)        | 552                      | (X)      | 815                      |
| 329905   | Mica.....   | Pounds.....                      | (D)        | (D)                      | (X)      | 163                      |
| 335606   | Nickel and nickel-base alloy shapes and forms.....                                | 1,000 lbs.....                   | 307        | 824                      | 849      | 1,660                    |
| 335602   | Tantalum mill products.....   | Pounds.....                      | 3,403      | 158                      | (X)      | 121                      |
| 335603   | Molybdenum, rolled, drawn or extruded.....  | ..do.....                        | 36,261     | 849                      | (X)      | 753                      |
| 335733   | Tungsten wire.....  | 1,000 meters.....                | 1,206      | 251                      | (X)      | 668                      |
| 367951   | Fabricated electron tube parts except blanks.....                                 | .....                            | (X)        | 25,787                   | (NA)     | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed..... | .....                            | (X)        | 36,467                   | (X)      | 65,422                   |
| 976000   | Materials, parts, containers, and supplies, n.s.k.....                            | .....                            | (X)        | 2,271                    | (X)      | 3,637                    |
| INDUSTRY 3674.—SEMICONDUCTORS                        |   |                                  |            |                          |          |                          |
|  | Materials, parts, containers and supplies, total.....                             | .....                            | (X)        | 183,301                  | (?)      | (?)                      |
| Mill shapes and forms (except castings):             |   |                                  |            |                          |          |                          |
| Carbon steel:  |   |                                  |            |                          |          |                          |
| 331011   | Bars and bar shapes.....  | Short tons.....                  | } 1,529    | } 723                    | (?)      | (?)                      |
| 331012   | Sheet and strip.....  | ..do.....                        |            |                          | (?)      | (?)                      |
| 331015   | Structural shapes.....  | ..do.....                        |            |                          | (?)      | (?)                      |
| 331017   | Wire and wire products.....   | ..do.....                        |            |                          | (?)      | (?)                      |
| 331019   | All other carbon steel mill shapes and forms.....                                 | ..do.....                        |            |                          | (?)      | (?)                      |
| Alloy steel (except stainless):                      |   |                                  |            |                          |          |                          |
| 331021   | Bars and bar shapes.....  | ..do.....                        | } 1,109    | } 3,310                  | (?)      | (?)                      |
| 331029   | All other alloy steel mill shapes and forms.....                                  | ..do.....                        |            |                          | (?)      | (?)                      |
| 331031   | Stainless steel.....  | ..do.....                        |            |                          |          |                          |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure                  | 1963     |                          | 1958     |                          |
|---|---|----------------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                                  | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3674.—SEMICONDUCTORS—Continued                   |   |                                  |          |                          |          |                          |
| Mill shapes and forms (except castings)— Continued        |   |                                  |          |                          |          |                          |
| 335728  | Copper and copper-base alloy:   |                                  |          |                          |          |                          |
|   | Bare wire (for electrical conduction only).....                                   | 1,000 lbs.....                   | 594      | 547                      | (2)      | (2)                      |
| 335790  | Insulated wire and cable.....   | 1,000 lbs. (copper content)..... | 87       | 327                      | (2)      | (2)                      |
| 335102  | Rod, bar and mechanical wire, including extruded and/or drawn shapes.....         | 1,000 lbs.....                   | } 569    | 783                      | (2)      | (2)                      |
| 335123  | Plate, sheet, and strip (including military cups and discs).....                  | do.....                          |          |                          |          |                          |
| 335127  | Pipe and tube.....  | do.....                          |          |                          |          |                          |
| 335202  | Aluminum and aluminum-base alloy:   |                                  |          |                          |          |                          |
|   | Sheet, plate and foil.....  | do.....                          | } 280    | 328                      | (2)      | (2)                      |
| 335205  | Extruded shapes (including extruded rod, bar, pipe, tube, etc.).....              | do.....                          |          |                          |          |                          |
| 335209  | All other aluminum mill shapes and forms.....                                     | do.....                          |          |                          |          |                          |
| 332300  | Castings (rough and semifinished):  |                                  |          |                          |          |                          |
|   | Steel.....  | Short tons.....                  | (D)      | (D)                      | (2)      | (2)                      |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                   | (D)      | (D)                      | (2)      | (2)                      |
| 336200  | Copper and copper-base alloy.....   | do.....                          | (D)      | (D)                      | (2)      | (2)                      |
| 362110  | Fractional electric horsepower motors (under 1 hp):                               |                                  |          |                          |          |                          |
|   | Timing motors synchronous and subsynchronous.....                                 | Number.....                      | (D)      | (D)                      | (2)      | (2)                      |
| 362115  | Other fractional horsepower electric motors (excluding timing motors).....        | do.....                          | (D)      | (D)                      | (2)      | (2)                      |
| 367010  | Electron tubes, except X-ray.....   | Thousands.....                   | 103      | 299                      | (2)      | (2)                      |
| 367408  | Solid state semiconductors.....   | do.....                          | 8,734    | 2,419                    | (2)      | (2)                      |
| 335606  | Nickel and nickel base-alloy mill shapes and forms.....                           | 1,000 lbs.....                   | 544      | 1,874                    | (2)      | (2)                      |
| 335602  | Tantalum mill products.....   | (X)                              |          | 1,140                    | (2)      | (2)                      |
| 281995  | Silicon, hyperpure.....   | Kilograms.....                   | 345,692  | 11,800                   | (2)      | (2)                      |
| 335603  | Molybdenum, rolled, drawn or extruded.....  | Pounds.....                      | 24,395   | 432                      | (2)      | (2)                      |
| 335605  | Germanium.....  | do.....                          | 51,753   | 6,530                    | (2)      | (2)                      |
| 335733  | Tungsten wire.....  | (X)                              |          | 187                      | (2)      | (2)                      |
| 260091  | Paper and paperboard containers.....  | (X)                              |          | 1,447                    | (2)      | (2)                      |
| 322921  | Glass tube blanks.....  | Thousands.....                   | 291,105  | 6,131                    | (2)      | (2)                      |
| 320311  | Glass products other than tube blanks.....  | (X)                              |          | 4,392                    | (2)      | (2)                      |
| 970099  | All other materials and components, parts, containers, and supplies consumed..... |                                  | (X)      | 140,632                  | (2)      | (2)                      |
| INDUSTRY 3679.—ELECTRONIC COMPONENTS, N.E.C. <sup>2</sup> |   |                                  |          |                          |          |                          |
| Materials, parts, containers, and supplies, total.....    |   |                                  | (X)      | 754,690                  | (X)      | 497,179                  |
| Mill shapes and forms (except castings):                  |   |                                  |          |                          |          |                          |
| Carbon steel:   |   |                                  |          |                          |          |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....                  | 3,927    | 1,182                    | 9,237    | 2,318                    |
| 331012  | Sheet and strip.....  | do.....                          | 40,553   | 9,797                    | 24,318   | 5,211                    |
| 331015  | Structural shapes.....  | do.....                          | 825      | 272                      | 1,986    | 500                      |
| 331017  | Wire and wire products.....   | do.....                          | 7,860    | 2,979                    | 4,532    | 2,478                    |
| 331019  | All other carbon steel mill shapes and forms.....                                 | do.....                          | 7,272    | 3,593                    | 31,364   | 7,165                    |
| Alloy steel (except stainless):                           |   |                                  |          |                          |          |                          |
| 331021  | Bars and bar shapes.....  | do.....                          | 770      | 464                      | } 8,120  | 4,578                    |
| 331029  | All other alloy steel mill shapes and forms.....                                  | do.....                          | 22,200   | 11,488                   |          |                          |
| 331031  | Stainless steel.....  | do.....                          | 1,552    | 2,364                    | 651      | 811                      |
| Copper and copper-base alloy:                             |   |                                  |          |                          |          |                          |
| 335728  | Bare wire (for electrical conduction only).....                                   | 1,000 lbs.....                   | 16,706   | 11,070                   | 14,585   | 8,748                    |
| 335790  | Insulated wire and cable.....   | 1,000 lbs. (copper content)..... | 26,304   | 18,087                   | 12,324   | 10,250                   |
| 335102  | Rod, bar and mechanical wire, including extruded and/or drawn shapes.....         | 1,000 lbs.....                   | 15,583   | 7,322                    | } 10,197 | 8,833                    |
| 335123  | Plate sheet and strip (including military cups and discs).....                    | do.....                          | 12,218   | 7,103                    |          |                          |
| 335127  | Pipe and tube.....  | do.....                          | 4,935    | 3,280                    |          |                          |
| Aluminum and aluminum-base alloy:                         |   |                                  |          |                          |          |                          |
| 335202  | Sheet, plate and foil.....  | do.....                          | 23,252   | 15,364                   | 14,297   | 11,728                   |
| 335205  | Extruded shapes (including extruded rod, bar, pipe, tube, etc.).....              | do.....                          | 15,704   | 12,631                   | } 15,471 | 8,027                    |
| 335209  | All other aluminum mill shapes and forms.....                                     | do.....                          | 4,381    | 3,588                    |          |                          |
| Castings (rough and semifinished):                        |   |                                  |          |                          |          |                          |
| 332300  | Steel.....  | Short tons.....                  | 875      | 642                      | 385      | 262                      |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                   | 2,033    | 3,894                    | 1,186    | 1,215                    |
| 336200  | Copper and copper-base alloy.....   | do.....                          | 499      | 485                      | 321      | 290                      |
| Fractional electric horsepower motors (under 1 hp.):      |   |                                  |          |                          |          |                          |
| 362110  | Timing motors, synchronous and subsynchronous.....                                | Thousands.....                   | (D)      | (D)                      | 114      | 524                      |
| 362115  | Other fractional horsepower electric motors (excluding timing motors).....        | do.....                          | 426      | 1,366                    | 1,782    | 5,886                    |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | Unit of measure | 1963     |                          | 1958     |                          |
|--|---|-----------------|----------|--------------------------|----------|--------------------------|
|  |   |                 | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3679.— ELECTRONIC COMPONENTS, N.E.C.—Con. |   |                 |          |                          |          |                          |
| 367010   | Electron tubes, except X-ray.....   | Thousands.....  | 6,792    | 5,290                    | 2,474    | 3,390                    |
| 367408   | Solid state semiconductors.....   | ...do.....      | 15,918   | 13,718                   | 1,732    | 2,599                    |
| 281995   | Silicon, hyperpure.....   | Kilograms.....  | 2,773    | 395                      | (NA)     | (NA)                     |
| 335605   | Germanium.....  | Pounds.....     | 1,139    | 1,022                    | (NA)     | (NA)                     |
| 260091   | Paper and paperboard containers.....  | .....           | (X)      | 7,080                    | (NA)     | (NA)                     |
| 329905   | Mica.....   | Pounds.....     | 687,544  | 3,212                    | (X)      | 2,604                    |
| 335606   | Nickel and nickel-base alloy mill shapes and forms.....                           | 1,000 lbs.....  | 1,172    | 3,646                    | 1,178    | 3,056                    |
| 335602   | Tantalum mill products.....   | Pounds.....     | 159,417  | 8,237                    | (NA)     | 2,023                    |
| 335603   | Molybdenum, rolled, drawn, or extruded.....                                       | ...do.....      | 14,371   | 255                      | (NA)     | (NA)                     |
| 335733   | Tungsten wire.....  | 1,000 lbs.....  | 1,065    | 289                      | (NA)     | (NA)                     |
| 339913   | Ferrites (powders and paste).....   | .....           | (X)      | 9,354                    | (X)      | 3,605                    |
| Glass and glass products:                          |   |                 |          |                          |          |                          |
| 322921   | Tube blanks.....  | Thousands.....  | 465      | 254                      | (NA)     | (NA)                     |
| 320311   | Other than tube blanks.....   | .....           | (X)      | 3,282                    | (X)      | (NA)                     |
| 367951   | Fabricated electron tube parts except blanks.....                                 | .....           | (X)      | 1,712                    | (X)      | (NA)                     |
| 282130   | Thermoplastic resins (cellulosics, polyethylenes, styrenes, etc.)..               | 1,000 pounds... | 5,032    | 2,823                    | (NA)     | (NA)                     |
| 282140   | Thermosetting resins (melamines, phenolics, polyesters, ureas, etc.)              | ...do.....      | 9,968    | 6,703                    | (NA)     | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed..... | .....           | (X)      | 434,704                  | (X)      | 326,496                  |
| 976000   | Materials, parts, containers, and supplies, n.s.k.....                            | .....           | (X)      | <sup>1</sup> 135,742     | (X)      | <sup>1</sup> 74,582      |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind. <sup>1</sup>Revised.

<sup>1</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

<sup>2</sup>Since industry 3674 was included as part of industry 3679 in 1958, separate statistics on materials consumed for industry 3674 in 1958 are included in the detail for industry 3679.



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Radio and TV receiving sets (SIC 3651) | Phonograph records (SIC 3652) | Telephone; telegraph apparatus (SIC 3661) | Radio, TV communications equipment (SIC 3662) | Electron tubes, receiving type (SIC 3671) | Cathode ray picture tubes (SIC 3672) | Electron tubes, transmitting (SIC 3673) | Electronic components, n.e.c. (SIC 3679) |
|---|--|-------------------------------|---|---|---|--------------------------------------|---|--|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 7,034                                  | 1,581                         | 9,322                                     | 23,128  | 3,517                                     | 2,300                                | 4,309                                   | 26,440                                   |
| Total cost of purchased fuels.....do....  | 2,312                                  | 724                           | 3,211                                     | 5,895   | 896                                       | 729                                  | 1,057                                   | 6,752                                    |
| Bituminous coal, lignite, and anthracite:   |  |                               |   |   |   |                                      |   |  |
| Quantity.....1,000 short tons..   | 52                                     | (S)                           | 189                                       | 45  | (S)                                       | (S)                                  | (S)                                     | 52                                       |
| Cost.....\$1,000..  | 360                                    | (S)                           | 1,363                                     | 378   | (S)                                       | (S)                                  | (S)                                     | 369                                      |
| Coke and breeze:  |  |                               |   |   |   |                                      |   |  |
| Quantity.....1,000 short tons..   | -                                      | -                             | (S)                                       | -   | -   | -                                    | -                                       | (S)                                      |
| Cost.....\$1,000..  | -                                      | -                             | (S)                                       | -   | -   | -                                    | -                                       | (S)                                      |
| Fuel oil (distillate and residual):   |  |                               |   |   |   |                                      |   |  |
| Quantity.....1,000 barrels of 42 gallons..  | 273                                    | 107                           | 233                                       | 939   | 53  | 31                                   | 49                                      | 697                                      |
| Cost.....\$1,000..  | 966                                    | 357                           | 729                                       | 2,909   | 165                                       | 118                                  | 157                                     | 2,488                                    |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |  |                               |   |   |   |                                      |   |  |
| Quantity.....million cu.ft..  | (S)                                    | 547                           | 2,110                                     | 2,583   | 623                                       | 719                                  | 348                                     | 4,578                                    |
| Cost.....\$1,000..  | (S)                                    | 276                           | 928                                       | 1,903   | 385                                       | 459                                  | 234                                     | 2,801                                    |
| Other fuels.....do....  | 283                                    | (S)                           | 186                                       | 705   | 209                                       | 117                                  | 495                                     | 1,092                                    |
| Electric energy:  |  |                               |   |   |   |                                      |   |  |
| Purchased:  |  |                               |   |   |   |                                      |   |  |
| Quantity.....million kw.-hrs..  | 357                                    | 60                            | 531                                       | 1,440   | 219                                       | 138                                  | 276                                     | 1,536                                    |
| Cost.....\$1,000..  | 4,722                                  | 857                           | 6,111                                     | 17,233  | 2,621                                     | 1,571                                | 3,252                                   | 19,688                                   |
| Generated less sold.....million kw.-hrs..   | (S)                                    | -                             | 152                                       | 53  | -   | -                                    | -                                       | (S)                                      |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 182                                    | 25                            | 222                                       | 946   | 48  | 17                                   | 40                                      | 372                                      |
| Prime movers, total.....do....  | 21                                     | (Z)                           | 91  | 310   | 1   | 1                                    | 1                                       | 44                                       |
| Driving generators.....do....   | 17                                     | -                             | 76  | 24  | 1   | 1                                    | 1                                       | 21                                       |
| Not driving generators.....do....   | 4                                      | (Z)                           | 15  | 286   | (Z)                                       | (Z)                                  | (Z)                                     | 23                                       |
| Electric motors, total.....do....   | 162                                    | 24                            | 209                                       | 645   | 47  | 15                                   | 39                                      | 328                                      |
| Driven by purchased energy.....do....   | 162                                    | 24                            | 130                                       | 636   | 47  | 15                                   | 39                                      | 328                                      |
| Driven by energy generated at establishment.....do....  | (Z)                                    | -                             | 78  | 10  | -   | -                                    | -                                       | (Z)                                      |
| Aggregate horsepower per 100 production workers.....  | 276                                    | 354                           | 326                                       | 645   | 224                                       | 313                                  | 263                                     | 219                                      |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3651-                          | RADIO AND TV RECEIVING SETS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 348                     | 81,264         | 411,924           | 66,538             | 128,463           | 289,287         | 911,954  | 1,389,412                   | 2,254,878                    | 30,511                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 274                     | 52,724         | 253,916           | 45,017             | 86,026            | 186,596         | 654,478  | 1,081,312                   | 1,691,378                    | 19,262                              |
|                                | 75-89% specialization.....   | 21                      | 14,568         | 87,206            | 10,709             | 21,488            | 54,379          | 143,700  | 173,741                     | 314,451                      | 7,781                               |
| 36511                          | Household and automobile radios, and phonograph combinations (primary product class of estab.)   | 35                      | 17,448         | 94,454            | 14,205             | 27,759            | 68,056          | 200,974  | 257,370                     | 452,294                      | 8,765                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 22                      | 5,042          | 24,260            | 4,234              | 8,458             | 17,434          | 68,635   | 96,340                      | 162,416                      | 1,273                               |
| 36512                          | Household television receivers, including television combinations (primary product class of estab.)  | 24                      | 39,410         | 204,764           | 33,265             | 63,015            | 146,594         | 508,188  | 919,672                     | 1,390,810                    | 15,928                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 7                       | 10,302         | 52,941            | 8,514              | 16,227            | 39,422          | 159,766  | 297,294                     | 439,081                      | 2,148                               |
|                                | 75-89% specialization.....   | 6                       | 16,048         | 83,960            | 14,459             | 27,531            | 64,941          | 180,081  | 359,512                     | 526,513                      | 8,896                               |
| 36513                          | Recorders, audio amplifiers, phonographs, tuners, speaker systems, and other audio equipment and accessories (primary product class of estab.).....  | 169                     | 22,793         | 106,586           | 17,686             | 34,975            | 69,848          | 192,115  | 204,472                     | 393,078                      | 5,059                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 116                     | 7,326          | 39,688            | 6,099              | 11,892            | 20,846          | 58,599   | 58,087                      | 115,311                      | 1,538                               |
|                                | 75-89% specialization.....   | 17                      | 4,692          | 21,929            | 3,707              | 7,159             | 15,084          | 41,130   | 41,130                      | 90,078                       | 738                                 |
| 3661-                          | TELEPHONE; TELEGRAPH APPARATUS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 90                      | 89,465         | 554,375           | 63,983             | 122,707           | 358,741         | 1,013,792                                      | 704,187                     | 1,736,358                    | 55,127                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 67                      | 41,886         | 249,015           | 30,969             | 58,949            | 169,789         | 498,394  | 322,921                     | 818,488                      | 20,349                              |
| 36611                          | Telephone switching and switch-board equipment (primary product class of estab.).....  | 15                      | 43,117         | 274,590           | 30,661             | 57,807            | 180,786         | 472,449  | 306,835                     | 789,777                      | (D)                                 |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 3                       | 148            | 665               | 125                | 220               | 491             | 2,263  | 985                         | 3,240                        | (D)                                 |
| 36612                          | Other telephone and telegraph (wire) apparatus, equipment, and components (primary product class of estab.).....   | 51                      | 46,202         | 279,108           | 33,205             | 64,669            | 177,493         | 540,076  | 396,371                     | 944,337                      | (D)                                 |
| 3662-                          | RADIO, TV COMMUNICATIONS EQUIPMENT   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 1,132                   | 387,384        | 2,840,218         | 205,698            | 419,121           | 1,230,671       | 4,327,671                                      | 2,822,882                   | 7,145,600                    | 138,734                             |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 890                     | 242,904        | 1,803,960         | 125,728            | 254,497           | 739,699         | 2,863,220                                      | 1,818,259                   | 4,647,647                    | 82,671                              |
|                                | 75-89% specialization.....   | 83                      | 49,606         | 339,204           | 25,518             | 54,050            | 147,369         | 506,459  | 400,048                     | 908,751                      | 22,117                              |
| 36621                          | Commercial, industrial, and military electronic communication equipment (except broadcast equipment, space satellite-borne communications equipment) (complete package) (primary product class of estab.)..... | 210                     | 76,540         | 535,179           | 44,668             | 92,490            | 250,045         | 828,362  | 614,829                     | 1,439,735                    | 23,416                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 135                     | 18,847         | 119,917           | 11,289             | 23,133            | 49,990          | 247,267  | 150,059                     | 388,257                      | 7,207                               |
|                                | 75-89% specialization.....   | 23                      | 5,998          | 36,059            | 3,590              | 7,758             | 17,965          | 46,844   | 72,335                      | 130,436                      | 690                                 |
| 36622                          | Radio and television broadcast equipment, and closed circuit systems (primary product class of estab.).....  | 109                     | 8,220          | 55,976            | 4,393              | 9,055             | 25,170          | 94,675   | 80,392                      | 174,067                      | 1,909                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 84                      | 1,423          | 7,744             | 911                | 1,816             | 4,036           | 14,045   | 11,465                      | 26,321                       | 468                                 |
|                                | 75-89% specialization.....   | 8                       | 2,158          | 14,121            | 1,055              | 2,198             | 5,131           | 21,241   | 24,542                      | 44,182                       | 302                                 |

See footnotes at end of table.



TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 36623                          | Intercommunication equipment (except telephone and telegraph) and electric alarm and signal systems and devices (primary product class of estab.)..... | 82                      | 8,839          | 53,349            | 5,438              | 10,572            | 27,845          | 92,738   | 57,025                      | 150,376                      | 2,737                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 54                      | 4,605          | 26,883            | 2,806              | 5,547             | 14,347          | 48,729   | 32,554                      | 81,208                       | 1,603                               |
|                                | 75-89% specialization.....   | 14                      | 2,674          | 17,897            | 1,596              | 3,004             | 9,078           | 28,904   | 14,077                      | 43,605                       | 715                                 |
| 36624                          | Electronic navigational aids (except missile-borne and space vehicle basin equipment) (primary product class of estab.).....                           | 53                      | 45,215         | 324,696           | 24,117             | 49,347            | 136,095         | 557,811  | 361,540                     | 911,628                      | 10,406                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 16                      | 12,802         | 91,997            | 7,065              | 15,122            | 40,236          | 149,898  | 76,960                      | 222,729                      | 2,964                               |
|                                | 75-89% specialization.....   | 5                       | 4,197          | 30,230            | 2,319              | 4,447             | 11,576          | 61,370   | 38,810                      | 93,289                       | 1,098                               |
| 36625                          | Electronic search and detection apparatus, including radar, infrared and sonar (primary product class of estab.).....                                  | 95                      | 123,830        | 923,893           | 61,910             | 124,610           | 391,611         | 1,302,323                                      | 913,289                     | 2,269,336                    | 37,498                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 27                      | 32,662         | 246,958           | 15,286             | 29,601            | 107,613         | 412,089  | 213,286                     | 641,004                      | 6,476                               |
|                                | 75-89% specialization.....   | 17                      | 19,424         | 140,408           | 11,317             | 22,907            | 61,651          | 199,890  | 119,645                     | 323,410                      | 4,023                               |
| 36626                          | Electronic military, industrial, and commercial equipment, n.e.c. (primary product class of estab.)  | 281                     | 38,466         | 251,645           | 23,760             | 48,048            | 128,038         | 359,899  | 231,302                     | 588,839                      | 16,787                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 194                     | 17,074         | 103,235           | 11,423             | 23,345            | 55,066          | 149,435  | 113,449                     | 263,192                      | 7,032                               |
|                                | 75-89% specialization.....   | 29                      | 7,985          | 58,978            | 5,319              | 10,784            | 39,303          | 81,292   | 34,450                      | 113,913                      | 2,024                               |
| 3673-                          | ELECTRON TUBES, TRANSMITTING   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 57                      | 18,704         | 129,296           | 11,631             | 24,027            | 72,406          | 204,614  | 96,311                      | 299,527                      | 13,262                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 44                      | 9,774          | 68,077            | 6,454              | 13,271            | 40,593          | 101,432  | 46,973                      | 146,767                      | 5,897                               |
| 3674-                          | SEMICONDUCTORS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 107                     | 56,349         | 320,875           | 37,548             | 77,113            | 168,504         | 467,035  | 199,384                     | 687,817                      | 52,439                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 92                      | 34,045         | 189,307           | 22,167             | 45,223            | 94,267          | 286,881  | 110,630                     | 405,311                      | 34,285                              |
|                                | 75-89% specialization.....   | 6                       | 13,692         | 79,956            | 9,541              | 20,524            | 44,969          | 104,673  | 56,153                      | 169,080                      | 8,457                               |
| 3679-                          | ELECTRONIC COMPONENTS, N.E.C.  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 1,934                   | 176,708        | 881,920           | 133,412            | 261,707           | 550,845         | 1,457,433                                      | 889,488                     | 2,332,215                    | 88,508                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 1,689                   | 127,006        | 599,157           | 98,552             | 191,969           | 389,691         | 1,014,937                                      | 575,799                     | 1,586,587                    | 50,352                              |
|                                | 75-89% specialization.....   | 80                      | 17,172         | 92,717            | 12,367             | 24,239            | 57,236          | 162,845  | 107,464                     | 271,564                      | 6,240                               |
| 36792                          | Capacitors for electronic applications (primary product class of estab.).....  | 106                     | 32,480         | 137,891           | 25,737             | 50,093            | 94,004          | 220,852  | 112,710                     | 333,947                      | 9,871                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 79                      | 19,765         | 79,689            | 16,138             | 31,765            | 56,074          | 141,031  | 63,063                      | 206,981                      | 4,482                               |
|                                | 75-89% specialization.....   | 11                      | 6,827          | 31,379            | 4,794              | 9,182             | 19,345          | 37,205   | 29,031                      | 65,689                       | 2,267                               |
| 36793                          | Resistors for electronic applications (primary product class of estab.).....   | 98                      | 23,336         | 122,525           | 17,058             | 34,122            | 77,105          | 214,401  | 81,391                      | 294,499                      | 11,517                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 71                      | 12,107         | 59,434            | 8,801              | 17,724            | 35,990          | 109,184  | 37,715                      | 146,644                      | 6,274                               |
|                                | 75-89% specialization.....   | 10                      | 4,954          | 26,480            | 3,579              | 6,944             | 17,155          | 38,957   | 12,301                      | 51,741                       | 1,440                               |
| 36794                          | Coils, transformers, reactors, and chokes for electronic applications (primary product class of estab.).....   | 237                     | 24,911         | 103,576           | 20,196             | 38,007            | 67,496          | 153,601  | 115,474                     | 268,695                      | 4,015                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 185                     | 16,250         | 65,367            | 13,558             | 25,408            | 44,745          | 93,203   | 75,165                      | 167,522                      | 2,543                               |
|                                | 75-89% specialization.....   | 15                      | 2,112          | 9,372             | 1,746              | 3,312             | 5,801           | 14,088   | 6,493                       | 20,580                       | 920                                 |
| 36795                          | Other electronic components and accessories, n.e.c., including parts for electron tubes (except glass blanks) (primary product class of estab.).....   | 926                     | 86,206         | 475,827           | 62,755             | 123,853           | 283,704         | 788,826  | 532,612                     | 1,308,101                    | 49,913                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 768                     | 49,711         | 257,063           | 37,488             | 73,271            | 161,258         | 444,105  | 270,737                     | 709,563                      | 23,567                              |
|                                | 75-89% specialization.....   | 68                      | 13,871         | 77,067            | 10,144             | 19,777            | 48,802          | 139,971  | 98,320                      | 238,598                      | 5,122                               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

TABLE 9. Establishments, Production Workers, and Man-Hours for Selected Metalworking Operations: 1963

| Metalworking operations   | Number of establishments |   |         |            | Employment in the specified operation |   |         |            | Man-hours worked by production workers in the specified operation<br>(1,000) |
|---|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|--|
|   | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |  |
|   |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |  |
| INDUSTRY 3651.—RADIO AND TV RECEIVING SETS                      |                          |   |         |            |                                       |   |         |            |  |
| TOTAL, ALL OPERATIONS.....                                      | (X)                      | (X)                                       | (X)     | (X)        | 59,204                                | (X)                                       | (X)     | (X)        | 117,247  |
| Nonferrous die casting.....                                     | 5                        | 2   | 1       | 2          | (D)                                   | (D)                                       | (D)     | (D)        | (D)  |
| Electroplating and other plating.....                           | 16                       | 5   | 8       | 3          | 233                                   | 9   | 92      | 132        | 478  |
| Galvanizing and other hot dip coating.....                      | 4                        | 3   | -       | 1          | (D)                                   | (D)                                       | -       | (D)        | (D)  |
| Heat treating of metals.....                                    | 4                        | 4   | -       | -          | 9                                     | 9   | -       | -          | 19   |
| Automatic screw machine department.....                         | 11                       | 7   | 1       | 3          | 148                                   | 11  | (D)     | (D)        | 305  |
| Machine shop.....   | 55                       | 24  | 19      | 12         | 1,068                                 | 52  | 184     | 832        | 1,832  |
| Tool and die shop.....  | 44                       | 22  | 17      | 5          | 579                                   | 43  | 191     | 345        | 1,199  |
| Stamping, blanking and forming of metals.....                   | 52                       | 18  | 14      | 20         | 1,092                                 | 39  | 126     | 927        | 2,195  |
| Painting, lacquering and enameling on metals.....               | 37                       | 21  | 14      | 2          | 242                                   | 48  | (D)     | (D)        | 484  |
| Plastics molding.....   | 2                        | 2   | -       | -          | (D)                                   | (D)                                       | -       | -          | (D)  |
| Assembly of product.....  | 125                      | 8   | 22      | 95         | 45,914                                | 16  | 209     | 45,689     | 90,957   |
| Shipping department, including packing and crating...           | 113                      | 57  | 39      | 17         | 1,567                                 | 111                                       | 335     | 1,121      | 3,139  |
| All other operations such as maintenance, warehousing, etc..... | 79                       | 29  | 14      | 36         | 8,096                                 | 64  | 142     | 7,890      | 16,127   |
| INDUSTRY 3661.—TELEPHONE; TELEGRAPH APPARATUS                   |                          |   |         |            |                                       |   |         |            |  |
| TOTAL, ALL OPERATIONS.....                                      | (X)                      | (X)                                       | (X)     | (X)        | 62,315                                | (X)                                       | (X)     | (X)        | 122,310  |
| Nonferrous die casting.....                                     | 4                        | 1   | -       | 3          | 173                                   | (D)                                       | -       | (D)        | 328  |
| Electroplating and other plating.....                           | 24                       | 7   | 7       | 10         | 589                                   | 24  | 58      | 507        | 1,185  |
| Galvanizing and other hot dip coating.....                      | 5                        | 4   | 1       | -          | 15                                    | 10  | 5       | -          | 32   |
| Heat treating of metals.....                                    | 23                       | 11  | 9       | 3          | 193                                   | 27  | 86      | 80         | 383  |
| Automatic screw machine department.....                         | 19                       | 3   | 6       | 10         | 614                                   | 8   | 60      | 546        | 1,208  |
| Machine shop.....   | 40                       | 7   | 13      | 20         | 2,919                                 | 11  | 136     | 2,772      | 5,738  |
| Tool and die shop.....  | 29                       | 3   | 9       | 17         | 1,688                                 | 10  | 85      | 1,593      | 3,357  |
| Plate or structural fabrication.....                            | 14                       | -   | 6       | 8          | 715                                   | -   | 78      | 637        | 1,228  |
| Stamping, blanking and forming of metals.....                   | 35                       | 7   | 8       | 20         | 2,751                                 | 18  | 80      | 2,653      | 5,285  |
| Painting, lacquering and enameling on metals.....               | 29                       | 11  | 13      | 5          | 381                                   | 21  | 110     | 250        | 736  |
| Plastics molding.....   | 12                       | -   | 3       | 9          | 1,273                                 | -   | 35      | 1,238      | 2,441  |
| Assembly of product.....  | 45                       | 2   | 6       | 37         | 40,430                                | 4   | 66      | 40,360     | 78,946   |
| Shipping department, including packing and crating...           | 40                       | 13  | 16      | 11         | 727                                   | 21  | 156     | 550        | 1,490  |
| All other operations such as maintenance, warehousing, etc..... | 42                       | 9   | 8       | 25         | 9,847                                 | 15  | 87      | 9,745      | 19,953   |
| INDUSTRY 3662.—RADIO, TV COMMUNICATIONS EQUIPMENT               |                          |   |         |            |                                       |   |         |            |  |
| TOTAL, ALL OPERATIONS.....                                      | (X)                      | (X)                                       | (X)     | (X)        | 168,757                               | (X)                                       | (X)     | (X)        | 339,554  |
| Nonferrous die casting.....                                     | 3                        | 2   | 1       | -          | (D)                                   | (D)                                       | (D)     | -          | (D)  |
| Electroplating and other plating.....                           | 99                       | 54  | 30      | 15         | 896                                   | 94  | 273     | 529        | 1,803  |
| Galvanizing and other hot dip coating.....                      | 16                       | 11  | 3       | 2          | (D)                                   | (D)                                       | (D)     | (D)        | (D)  |
| Heat treating of metals.....                                    | 54                       | 43  | 9       | 2          | 197                                   | 68  | (D)     | (D)        | 469  |
| Automatic screw machine department.....                         | 46                       | 27  | 19      | 2          | 277                                   | 52  | (D)     | (D)        | 556  |
| Machine shop.....   | 422                      | 156                                       | 146     | 122        | 15,349                                | 310                                       | 1,425   | 13,614     | 32,887   |
| Tool and die shop.....  | 124                      | 45  | 44      | 35         | 2,787                                 | 80  | 444     | 2,263      | 5,791  |
| Plate or structural fabrication.....                            | 53                       | 25  | 13      | 15         | 1,172                                 | 42  | 138     | 992        | 2,195  |
| Stamping, blanking and forming of metals.....                   | 189                      | 97  | 61      | 31         | 2,403                                 | 174                                       | 639     | 1,590      | 5,093  |
| Painting, lacquering and enameling on metals.....               | 227                      | 166                                       | 45      | 16         | 1,278                                 | 261                                       | 384     | 633        | 2,674  |
| Plastics molding.....   | 44                       | 25  | 13      | 6          | 373                                   | 42  | 114     | 217        | 744  |
| Assembly of product.....  | 493                      | 67  | 125     | 301        | 88,498                                | 158                                       | 1,340   | 37,000     | 179,912  |
| Shipping department, including packing and crating...           | 394                      | 273                                       | 81      | 40         | 3,329                                 | 432                                       | 732     | 2,165      | 6,537  |
| All other operations such as maintenance, warehousing, etc..... | 246                      | 114                                       | 69      | 163        | 52,102                                | 204                                       | 651     | 51,247     | 100,723  |
| INDUSTRY 3671.—ELECTRON TUBES, RECEIVING TYPE                   |                          |   |         |            |                                       |   |         |            |  |
| TOTAL, ALL OPERATIONS.....                                      | (X)                      | (X)                                       | (X)     | (X)        | 20,226                                | (X)                                       | (X)     | (X)        | 35,170   |
| Electroplating and other plating.....                           | 4                        | 2   | 2       | -          | 32                                    | (D)                                       | (D)     | -          | 61   |
| Heat treating of metals.....                                    | 6                        | 1   | 2       | 3          | 181                                   | (D)                                       | (D)     | 165        | 335  |
| Machine shop.....   | 18                       | 3   | 7       | 8          | 354                                   | 7   | 91      | 256        | 650  |
| Tool and die shop.....  | 5                        | -   | 4       | 1          | 81                                    | -   | (D)     | (D)        | 117  |
| Stamping, blanking and forming of metals.....                   | 6                        | 1   | 2       | 3          | 375                                   | (D)                                       | (D)     | (D)        | 706  |
| Painting, lacquering and enameling on metals.....               | 6                        | 3   | 3       | -          | 29                                    | 4   | 25      | -          | 56   |
| Assembly of product.....  | 21                       | -   | 2       | 19         | 16,065                                | -   | (D)     | (D)        | 27,834   |
| Shipping department, including packing and crating...           | 17                       | 6   | 6       | 5          | 288                                   | 8   | 69      | 211        | 576  |
| All other operations such as maintenance, warehousing, etc..... | 19                       | 1   | -       | 18         | 2,821                                 | (D)                                       | -       | (D)        | 4,835  |

See footnotes at end of table.



TABLE 9. Establishments, Production Workers, and Man-Hours for Selected Metalworking Operations: 1963—Continued

| Metalworking operations   | Number of establishments |   |         |            | Employment in the specified operation |   |         |            | Man-hours worked by production workers in the specified operation<br>(1,000) |
|---|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|--|
|   | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>2</sup> |         |            |  |
|   |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |  |
| INDUSTRY 3672.—CATHODE RAY PICTURE TUBES                        |                          |   |         |            |                                       |   |         |            |  |
| TOTAL, ALL OPERATIONS.....                                      | (X)                      | (X)                                       | (X)     | (X)        | 7,144                                 | (X)                                       | (X)     | (X)        | 15,048   |
| Electroplating and other plating.....                           | 1                        | -   | 1       | -          | (D)                                   | -   | (D)     | -          | (D)  |
| Heat treating of metals.....                                    | 1                        | -   | -       | 1          | (D)                                   | -   | -       | (D)        | (D)  |
| Machine shop.....   | 5                        | -   | 2       | 3          | 116                                   | -   | (D)     | (D)        | 249  |
| Tool and die shop.....  | 2                        | -   | -       | 2          | (D)                                   | -   | -       | (D)        | (D)  |
| Stamping, blanking and forming of metals.....                   | 3                        | -   | 1       | 2          | 167                                   | -   | (D)     | (D)        | 365  |
| Painting, lacquering and enameling on metals.....               | 2                        | 1   | 1       | -          | (D)                                   | (D)                                       | (D)     | -          | (D)  |
| Plastics molding.....   | 1                        | -   | 1       | -          | (D)                                   | -   | (D)     | -          | (D)  |
| Assembly of product.....  | 17                       | 1   | 4       | 12         | 5,369                                 | (D)                                       | (D)     | 5,316      | 11,309   |
| Shipping department, including packing and crating...           | 16                       | 7   | 6       | 3          | 362                                   | 13  | 52      | 291        | 736  |
| All other operations such as maintenance, warehousing, etc..... | 14                       | 7   | 4       | 5          | 999                                   | (D)                                       | 28      | 955        | 2,106  |
| INDUSTRY 3673.—ELECTRON TUBES, TRANSMITTING                     |                          |   |         |            |                                       |   |         |            |  |
| TOTAL, ALL OPERATIONS.....                                      | (X)                      | (X)                                       | (X)     | (X)        | 10,477                                | (X)                                       | (X)     | (X)        | 21,931   |
| Electroplating and other plating.....                           | 21                       | 9   | 9       | 3          | 177                                   | 15  | 85      | 77         | 367  |
| Galvanizing and other hot dip coating.....                      | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          | (D)  |
| Heat treating of metals.....                                    | 17                       | 14  | 3       | -          | 59                                    | 28  | 31      | -          | 117  |
| Automatic screw machine department.....                         | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          | (D)  |
| Machine shop.....   | 28                       | 4   | 8       | 16         | 1,316                                 | 10  | 92      | 1,214      | 2,779  |
| Tool and die shop.....  | 14                       | 1   | 7       | 6          | 284                                   | (D)                                       | (D)     | 212        | 578  |
| Plate or structural fabrication.....                            | 3                        | 1   | 1       | 1          | 49                                    | (D)                                       | (D)     | (D)        | 109  |
| Stamping, blanking and forming of metals.....                   | 13                       | 7   | 4       | 2          | 107                                   | 14  | (D)     | (D)        | 223  |
| Painting, lacquering and enameling on metals.....               | 17                       | 14  | 2       | 1          | 68                                    | 27  | (D)     | (D)        | 148  |
| Plastics molding.....   | 3                        | 3   | -       | -          | 6                                     | 6   | -       | -          | 13   |
| Assembly of product.....  | 36                       | 1   | 5       | 30         | 4,473                                 | (D)                                       | (D)     | 4,418      | 9,157  |
| Shipping department, including packing and crating...           | 34                       | 21  | 12      | 1          | 202                                   | 41  | (D)     | (D)        | 421  |
| All other operations such as maintenance, warehousing, etc..... | 33                       | 6   | 8       | 19         | 3,702                                 | 12  | 78      | 3,612      | 8,011  |
| INDUSTRY 3674.—SEMICONDUCTORS                                   |                          |   |         |            |                                       |   |         |            |  |
| TOTAL, ALL OPERATIONS.....                                      | (X)                      | (X)                                       | (X)     | (X)        | 37,244                                | (X)                                       | (X)     | (X)        | 76,517   |
| Electroplating and other plating.....                           | 33                       | 20  | 10      | 3          | 286                                   | 39  | 101     | 146        | 562  |
| Galvanizing and other hot dip coating.....                      | 5                        | 4   | 1       | -          | (D)                                   | (D)                                       | (D)     | -          | (D)  |
| Heat treating of metals.....                                    | 13                       | 8   | 5       | -          | 62                                    | 14  | 48      | -          | 124  |
| Automatic screw machine department.....                         | 4                        | 2   | 2       | -          | 25                                    | (D)                                       | (D)     | -          | 50   |
| Machine shop.....   | 45                       | 18  | 12      | 15         | 723                                   | 43  | 117     | 563        | 1,455  |
| Tool and die shop.....  | 13                       | 4   | 5       | 4          | 429                                   | 10  | 45      | 374        | 873  |
| Plate or structural fabrication.....                            | 3                        | 1   | 1       | 1          | (D)                                   | (D)                                       | (D)     | (D)        | (D)  |
| Stamping, blanking and forming of metals.....                   | 6                        | 2   | 2       | 2          | 62                                    | (D)                                       | (D)     | (D)        | 115  |
| Painting, lacquering and enameling on metals.....               | 14                       | 9   | 4       | 1          | 61                                    | 17  | (D)     | (D)        | 125  |
| Plastics molding.....   | 6                        | 4   | 1       | 1          | 40                                    | (D)                                       | (D)     | (D)        | 80   |
| Assembly of product.....  | 70                       | 1   | 9       | 60         | 27,738                                | (D)                                       | (D)     | 27,652     | 56,663   |
| Shipping department, including packing and crating...           | 59                       | 35  | 15      | 9          | 726                                   | 69  | 127     | 530        | 1,443  |
| All other operations such as maintenance, warehousing, etc..... | 55                       | 9   | 13      | 33         | 6,909                                 | 20  | 114     | 6,775      | 14,675   |
| INDUSTRY 3679.—ELECTRONIC COMPONENTS, N.E.C.                    |                          |   |         |            |                                       |   |         |            |  |
| TOTAL, ALL OPERATIONS.....                                      | 1,934                    | (X)                                       | (X)     | (X)        | 111,221                               | (X)                                       | (X)     | (X)        | 215,998  |
| Nonferrous die casting.....                                     | 8                        | 2   | 4       | 2          | 121                                   | (D)                                       | 53      | (D)        | 246  |
| Electroplating and other plating.....                           | 138                      | 79  | 48      | 11         | 1,028                                 | 156                                       | 500     | 372        | 2,128  |
| Galvanizing and other hot dip coating.....                      | 39                       | 35  | 1       | 3          | 278                                   | 52  | (D)     | (D)        | 568  |
| Heat treating of metals.....                                    | 70                       | 54  | 13      | 3          | 270                                   | 75  | 101     | 94         | 529  |
| Automatic screw machine department.....                         | 62                       | 26  | 17      | 19         | 1,451                                 | 47  | 173     | 1,231      | 2,886  |
| Machine shop.....   | 407                      | 179                                       | 145     | 83         | 7,348                                 | 378                                       | 1,395   | 5,575      | 15,872   |
| Tool and die shop.....  | 213                      | 118                                       | 75      | 20         | 2,179                                 | 253                                       | 731     | 1,195      | 4,360  |
| Plate or structural fabrication.....                            | 28                       | 19  | 7       | 2          | 161                                   | 43  | (D)     | (D)        | 329  |
| Stamping, blanking and forming of metals.....                   | 219                      | 112                                       | 71      | 36         | 2,692                                 | 235                                       | 662     | 1,795      | 5,098  |
| Painting, lacquering and enameling on metals.....               | 186                      | 153                                       | 27      | 6          | 723                                   | 240                                       | 213     | 270        | 1,473  |
| Plastics molding.....   | 127                      | 74  | 39      | 14         | 1,607                                 | 138                                       | 363     | 1,106      | 3,239  |
| Assembly of product.....  | 545                      | 56  | 104     | 385        | 69,085                                | 114                                       | 1,160   | 67,811     | 143,502  |
| Shipping department, including packing and crating...           | 459                      | 331                                       | 104     | 24         | 2,965                                 | 594                                       | 861     | 1,510      | 5,919  |
| All other operations such as maintenance, warehousing, etc..... | 383                      | 127                                       | 127     | 129        | 21,313                                | 244                                       | 1,280   | 19,789     | 29,849   |

Footnotes on next page.

TABLE 9. Establishments, Production Workers, and Man-Hours for Selected Metalworking Operations: 1963—Continued

Footnotes for table 9-36D

Note: Very small establishments were not requested to report their metalworking operations and, in some instances, a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production-worker employment on the last line of the table below:

| Item  | Industry |        |       |        |       |       |        |       |
|---|----------|--------|-------|--------|-------|-------|--------|-------|
|   | 3651     | 3661   | 3662  | 3671   | 3672  | 3673  | 3674   | 3679  |
| Total number of establishments in the industry.....   | 348      | 90     | 1,132 | 42     | 151   | 57    | 107    | 1,934 |
| Number of establishments which reported one or more of the specified operations.....                              | 167      | 54     | 634   | 23     | 20    | 41    | 87     | 779   |
| Percent of industry production workers in these establishments.....   | 85-90    | 95-100 | 80-85 | 95-100 | 85-90 | 90-95 | 95-100 | 80-85 |
| Number of establishments which reported "none" of the operations apply.....                                       | 15       | 2      | 68    | 19     | 16    | 4     | 20     | 157   |
| Percent of industry production workers in these establishments.....   | 0-5      | 0-5    | 0-5   | 0-5    | 0-5   | 0-5   | 0-5    | 0-5   |
| Percent of industry production workers in establishments which completed the metalworking operations inquiry..... | 85-90    | 95-100 | 85-90 | 95-100 | 90-95 | 90-95 | 95-100 | 85-90 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishment.



## MISCELLANEOUS ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3691—Storage Batteries
- 3692—Primary Batteries, Dry and Wet
- 3693—X-Ray and Therapeutic Apparatus and Tubes
- 3694—Electrical Equipment for Internal Combustion Engines
- 3699—Electrical Machinery, Equipment, and Supplies, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3691—STORAGE BATTERIES

This industry comprises establishments primarily engaged in the manufacture of storage batteries for automobiles, trucks, farm tractors, and busses as well as storage batteries for farm uses, communications systems, and railroad equipment. Parts for storage batteries are also included in this industry. For a detailed list of products of industry 3691, refer to table 6A-1, product codes 3691112 to 3691298.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Storage Batteries Industry totaled \$516 million. This amount included shipments of storage batteries (primary products) valued at \$500 million, shipments of other products (secondary products) valued at \$8 million, and miscellaneous receipts (mainly resales) at \$8 million.

This industry's shipments of storage batteries represented 98 percent of its total product shipments. The industry specialization ratio in 1958 was 99 percent.

Shipments of storage batteries by this industry in 1963 represented 99 percent of all shipments of these products (\$504 million) by all industries. In 1958 the coverage ratio was 100 percent.

The production index for the primary products of the industry increased to 153 in 1963 from the 1958 level of 112. The unit value index for 1963 was 92 compared to 96 in 1958. Both indexes were computed on a basis of 1954 = 100.

### 3692—PRIMARY BATTERIES, DRY AND WET

This industry comprises establishments primarily engaged in the manufacture of dry and wet cell primary batteries for flashlights, railroad lanterns, hearing aids, portable radios, farm radios, and general purposes as well as parts and supplies for primary batteries. For a detailed list of products of industry 3692, refer to table 6A-1, product codes 3692012 to 3692095.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Primary Batteries, Dry and Wet, Industry totaled \$195 million. This amount included shipments of dry and wet primary batteries (primary products) valued at \$173 million, shipments of other products (secondary products) valued at \$8 million, and miscellaneous receipts (mainly resales) at \$14 million.

This industry's shipments of dry and wet primary batteries represented 96 percent of its total product shipments. The industry specialization ratio in 1958 was 99 percent.

Shipments of dry and wet primary batteries by this industry represented 91 percent of all shipments of these products (\$192 million) by all industries. In 1958 the coverage ratio was 98 percent.

The production index for the primary products of the industry increased to 120 in 1963 from the 1958 level of 93. The unit value index for 1963 was 135 compared to 123 in 1958. Both indexes were computed on a basis of 1954 = 100.

### 3693—X-RAY AND THERAPEUTIC APPARATUS AND TUBES

This industry comprises establishments primarily engaged in manufacturing radiographic X-ray, fluoroscopic X-ray, and therapeutic X-ray apparatus and tubes for medical, industrial, research and control applications. Establishments primarily engaged in manufacturing radio receiving type tubes are classified in industry 3671; television receiving cathode ray tubes in industry 3672; transmitting tubes in industry 3673; and electrotherapeutic lamp units for ultra-violet and infra-red radiation in industry 3641. For a detailed list of products of industry 3693, refer to table 6A-1, product codes 3693019 to 3693096.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the X-Ray Apparatus and Tubes Industry totaled \$144 million. This amount included shipments of X-ray apparatus and tubes (primary products) valued at \$87 million, shipments of other products (secondary products) valued at \$18 million, and miscellaneous receipts (mainly resales) at \$39 million.

This industry's shipments of X-ray apparatus and tubes represented 83 percent of its total product shipments. The industry specialization ratio in 1958 was 84 percent.

Shipments of X-ray apparatus and tubes by this industry represented 80 percent of all shipments of these products (\$109 million) by all industries. In 1958 the coverage ratio was 82 percent.

### 3694—ELECTRICAL EQUIPMENT FOR INTERNAL COMBUSTION ENGINES

This industry comprises establishments primarily engaged in manufacturing electrical equipment for internal combustion engines. Important products of this industry include starting motors and generators for automobiles and aircraft; and ignition apparatus for



internal combustion engines including spark plugs, magnetos, coils, and distributors. For a detailed list of products of industry 3694, refer to table 6A-1, product codes 3694111 to 3694698.

The code number for this industry in the Standard Industrial Classification Manual is unchanged, but the content of the industry has been slightly changed from the classification system used in 1958. The change in composition of the industry as now constituted, compared with that under the classification system followed in the 1958 census, is due to a revision made in the 1963 supplement to the 1957 edition of the Standard Industrial Classification, reclassifying establishments primarily manufacturing automotive wiring harness sets other than ignition from industry 3694 to industry 3714 (census industry 3717) "Automobiles and Parts."

Value of shipments and other receipts of the Engine Electrical Equipment Industry totaled \$901 million. This amount included shipments of electrical equipment for internal combustion engines (primary products) valued at \$706 million, shipments of other products (secondary products) valued at \$128 million, and miscellaneous receipts (mainly resales) at \$67 million.

This industry's shipments of engine electrical equipment represented 93 percent of its total product shipments. The industry specialization ratio in 1958 was 87 percent. Secondary products shipped by this industry in 1963 consisted mainly of parts and accessories for passenger cars, trucks, and busses shipped to motor vehicle manufacturers (\$81 million).

Shipments of electrical equipment for internal combustion engines by this industry represented 81 percent of all shipments of these products (\$874 million) by all industries. In 1958 the coverage ratio was 83 percent.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3694, e.g., Cranking motors (36943), 98 percent; Components and parts for engine electrical equipment (36946), 92 percent; and Ignition harness and cable sets and spark plugs (36941 and 36944 combined), 54 percent.

The higher specialization ratio in 1963 compared with the 1958 figure primarily results from changes in the Standard Industrial Classification system as described above.

The production index for the primary products of the industry increased to 129 in 1963 from the 1958 level of 100. The unit value index for 1963 was 123 compared to 107 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3699—ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing electrical machinery, equipment, and supplies, n.e.c. For a detailed list of products of industry 3699, refer to table 6A-1, product codes 3699211 to 3699629.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Electrical Products, N.E.C., Industry totaled \$190 million. This amount included shipments of electrical machinery, equipment, and supplies, n.e.c. (primary products) valued at \$163 million, shipments of other products (secondary products) valued at \$19 million, and miscellaneous receipts (mainly resales) at \$8 million.

This industry's shipments of electrical machinery, equipment, and supplies, n.e.c., represented 90 percent of its total product shipments. The industry specialization ratio in 1958 was 91 percent. Secondary products shipped by this industry in 1963 included miscellaneous electronic components and accessories (\$3 million).

Shipments of electrical machinery, equipment, and supplies, n.e.c., by this industry represented 49 percent of all shipments of these products (\$336 million) by all industries. In 1958 the coverage ratio was 54 percent. Other industries shipping electrical machinery, equipment, and supplies, n.e.c., consisted mainly of industry 3357, Nonferrous Wire Drawing, etc., \$102 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3699, e.g., Lamp bulb components (36992), 65 percent; and Appliance wire and cord and flexible cord sets (36996), 30 percent.

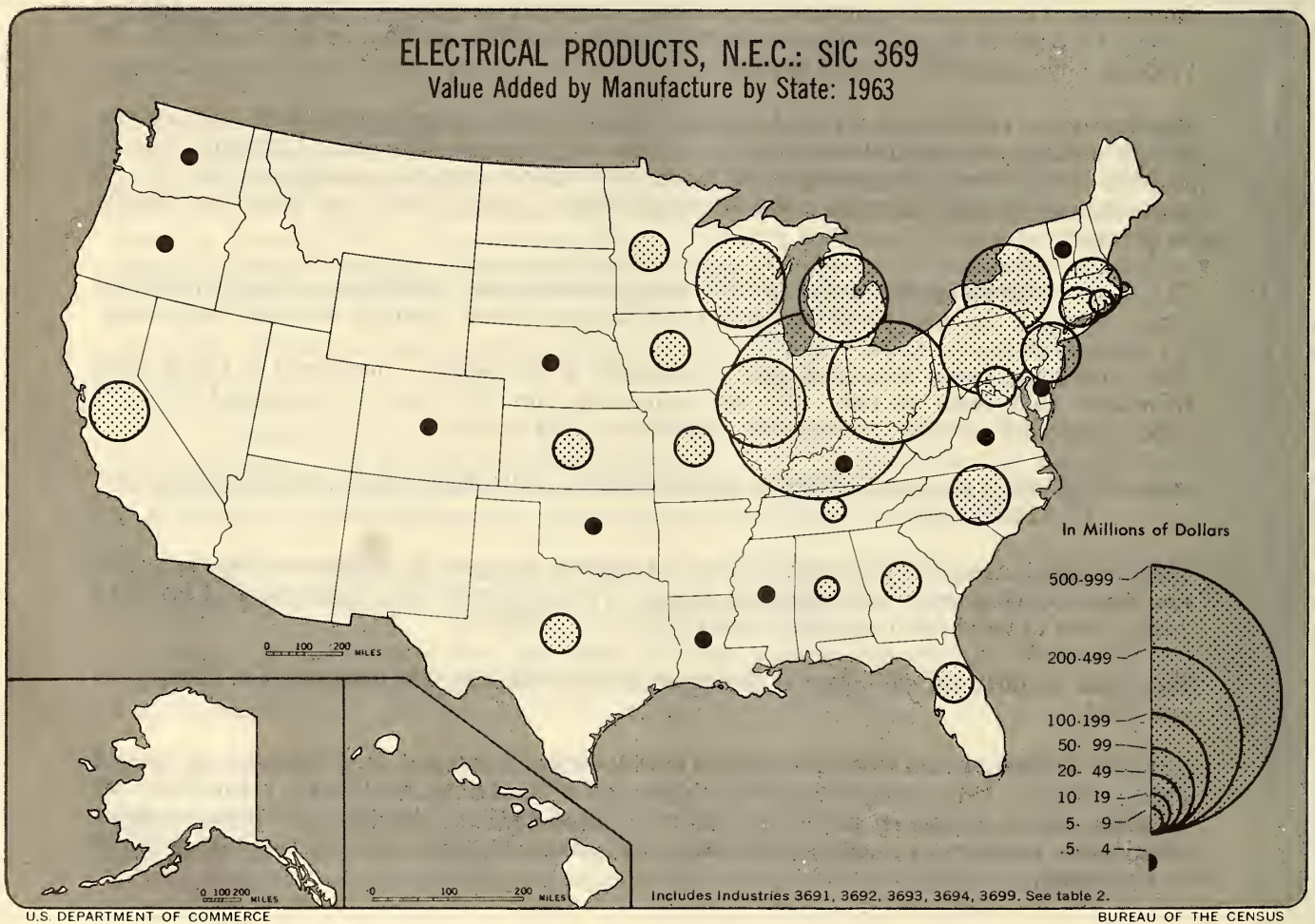




TABLE 1. General Statistics: 1963 and Earlier Years

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3691.—STORAGE BATTERIES              |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 169                        | 252               | 120  | 17,512            | 108,700              | 13,871             | 28,444               | 80,237             | 244,152  | 275,629                           | 516,457                            | 11,968  | 98  | 99                                       |
| 1962 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 16,250            | 99,410               | 12,540             | 29,201               | 74,813             | 210,867  | 245,478                           | 452,097                            | 9,566   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 15,427            | 89,516               | 11,725             | 27,134               | 67,261             | 178,547  | 245,787                           | 423,353                            | 8,449   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 15,525            | 87,867               | 12,075             | 26,545               | 63,709             | 167,923  | 244,521                           | 415,777                            | 9,188   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 16,059            | 88,298               | 12,648             | 27,684               | 66,081             | 180,792  | 244,241                           | 417,413                            | 6,766   | (NA)  | (NA)                                     |
| 1958.....                                     | 207                        | 276               | 106  | 14,924            | 76,961               | 11,787             | 23,205               | 55,459             | 150,061  | 211,794                           | 368,993                            | 7,330   | 99  | 100                                      |
| 1957 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 14,522            | 72,217               | 11,266             | 21,554               | 51,282             | 132,565  | 226,719                           | 359,353                            | (S)   | 98  | 100                                      |
| 1956 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 15,820            | 71,284               | 11,983             | 23,488               | 51,591             | 124,274  | 242,962                           | 362,869                            | 17,474  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 15,882            | 71,582               | 11,827             | 24,120               | 51,070             | 129,713  | 245,835                           | 370,954                            | 9,609   | (NA)  | (NA)                                     |
| 1954 <sup>2</sup> .....                       | 244                        | 308               | 101  | 15,670            | 66,872               | 11,899             | 23,244               | 46,415             | 128,882  | 215,854                           | 343,668                            | 10,512  | 100   | 100                                      |
| 1953 <sup>2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 17,292            | 73,341               | 13,315             | 26,494               | 53,218             | 138,795  | 234,420                           | 373,215                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 16,286            | 67,185               | 12,972             | 26,935               | 51,071             | 135,200  | 238,568                           | 373,768                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 16,794            | 64,254               | 13,531             | 27,948               | 49,131             | 138,698  | 248,329                           | 387,027                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 16,368            | 57,973               | 12,927             | 26,436               | 42,450             | 120,419  | 193,065                           | 313,484                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 15,742            | 52,320               | 12,282             | 24,855               | 37,073             | 107,291  | 175,422                           | 281,713                            | (NA)  | (NA)  | (NA)                                     |
| 1947 <sup>2</sup> .....                       | 205                        | 246               | (NA)   | 16,570            | 49,734               | 13,632             | 29,541               | 38,257             | 114,246  | 183,408                           | 297,654                            | (NA)  | 90  | 99                                       |
| 1939 <sup>2</sup> .....                       | (NA)                       | 190               | (NA)   | (NA)              | (NA)                 | 9,564              | (NA)                 | 12,743             | 35,841   | 48,932                            | 84,773                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3692.—PRIMARY BATTERIES, DRY AND WET |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 26                         | 46                | 29   | 8,478             | 40,602               | 6,791              | 13,615               | 29,029             | 113,787  | 80,302                            | 195,298                            | 4,132   | 96  | 91                                       |
| 1962 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 8,326             | 39,045               | 6,296              | 12,982               | 25,213             | 109,232  | 86,372                            | 194,327                            | 3,076   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 8,006             | 36,832               | 5,992              | 12,169               | 24,067             | 96,950   | 75,389                            | 170,445                            | 2,413   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 8,433             | 36,673               | 6,554              | 12,734               | 24,570             | 94,036   | 69,187                            | 163,787                            | 3,362   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 8,911             | 37,326               | 7,230              | 14,307               | 27,089             | 96,699   | 67,098                            | 162,181                            | 1,948   | (NA)  | (NA)                                     |
| 1958.....                                     | 24                         | 42                | 29   | 8,096             | 34,025               | 6,498              | 13,236               | 24,455             | 75,431   | 59,518                            | 138,215                            | 2,343   | 99  | 98                                       |
| 1957 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 8,049             | 33,101               | 6,575              | 12,568               | 24,131             | 70,493   | 62,455                            | 126,369                            | 2,121   | 99  | 97                                       |
| 1956 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 9,421             | 35,572               | 7,582              | 14,312               | 26,056             | 62,505   | 63,271                            | 124,744                            | 2,255   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 9,668             | 35,489               | 8,042              | 15,053               | 26,170             | 59,499   | 62,100                            | 124,752                            | (S)   | (NA)  | (NA)                                     |
| 1954 <sup>2</sup> .....                       | 20                         | 41                | 33   | 10,773            | 36,633               | 8,893              | 16,814               | 27,427             | 58,490   | 61,080                            | 123,803                            | 2,088   | 98  | 98                                       |
| 1953 <sup>2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 12,331            | 40,234               | 10,617             | 20,524               | 31,575             | 76,159   | 72,830                            | 148,989                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 11,481            | 36,105               | 9,789              | 19,432               | 28,516             | 57,768   | 70,177                            | 127,945                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,960            | 32,839               | 9,409              | 18,500               | 26,131             | 50,109   | 62,582                            | 112,691                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,008            | 27,610               | 8,657              | 17,043               | 22,149             | 49,908   | 46,845                            | 96,753                             | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 9,516             | 25,514               | 8,006              | 16,235               | 19,891             | 44,691   | 41,385                            | 86,076                             | (NA)  | (NA)  | (NA)                                     |
| 1947 <sup>2</sup> .....                       | 23                         | 38                | (NA)   | 10,261            | 24,463               | 9,181              | 18,407               | 20,656             | 45,275   | 39,770                            | 85,045                             | (NA)  | 90  | 98                                       |
| 1939 <sup>2</sup> .....                       | (NA)                       | 31                | (NA)   | (NA)              | (NA)                 | 5,470              | (NA)                 | 6,466              | 18,565   | 14,245                            | 32,810                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3693.—X-RAY APPARATUS AND TUBES      |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 56                         | 58                | 30   | 6,236             | 43,796               | 3,430              | 6,921                | 20,124             | 86,534   | 56,916                            | 143,706                            | 2,132   | 83  | 80                                       |
| 1962 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 6,240             | 41,129               | 3,815              | 7,900                | 18,474             | 76,229   | 53,171                            | 127,101                            | 1,239   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 6,377             | 37,714               | 3,601              | 7,375                | 16,792             | 67,168   | 49,995                            | 116,315                            | 1,087   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 6,064             | 35,412               | 3,380              | 7,219                | 16,223             | 67,406   | 47,246                            | 110,670                            | 826   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 5,789             | 32,581               | 3,241              | 6,766                | 15,222             | 60,057   | 42,435                            | 101,882                            | 1,086   | (NA)  | (NA)                                     |
| 1958.....                                     | 124                        | 126               | 33   | 5,258             | 30,686               | 3,012              | 5,856                | 14,308             | 58,436   | 35,743                            | 95,090                             | 1,371   | 84  | 82                                       |
| 1957 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | (S)               | (S)                  | (S)                | (S)                  | (S)                | (S)  | (S)                               | (S)                                | (S)   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | (S)               | (S)                  | (S)                | (S)                  | (S)                | (S)  | (S)                               | (S)                                | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | (S)               | (S)                  | (S)                | (S)                  | (S)                | (S)  | (S)                               | (S)                                | (S)   | (NA)  | (NA)                                     |
| 1954 <sup>2</sup> .....                       | 129                        | 130               | 35   | 7,054             | 32,583               | 4,601              | 9,036                | 17,688             | 57,665   | 40,736                            | 97,043                             | 1,913   | 81  | 91                                       |
| 1953 <sup>2</sup> .....                       | (NA)                       | (NA)              | (NA)   | (S)               | (S)                  | (S)                | (S)                  | (S)                | (S)  | (S)                               | (S)                                | (S)   | (NA)  | (NA)                                     |
| 1952 <sup>2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 6,551             | 28,235               | 4,317              | 8,909                | 16,373             | 48,938   | 20,803                            | 69,741                             | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 6,294             | 25,845               | 4,232              | 9,090                | 15,491             | 45,160   | 20,390                            | 65,560                             | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 4,945             | 18,297               | 3,172              | 6,594                | 9,960              | 31,688   | 12,707                            | 44,395                             | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>2</sup> .....                       | (NA)                       | (NA)              | (NA)   | 5,306             | 18,318               | 3,329              | 6,511                | 10,078             | 34,102   | 15,695                            | 49,797                             | (NA)  | (NA)  | (NA)                                     |
| 1947 <sup>2</sup> .....                       | 114                        | 116               | 30   | 7,678             | 23,217               | 5,621              | 11,762               | 15,354             | 38,635   | 20,473                            | 59,518                             | 2,271   | 94  | 93                                       |
| 1939 <sup>2</sup> .....                       | (NA)                       | 77                | (NA)   | (NA)              | (NA)                 | 1,920              | (NA)                 | 2,708              | 12,057   | 5,690                             | 17,747                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> .....                       | (NA)                       | 46                | (NA)   | (NA)              | (NA)                 | 1,936              | (NA)                 | 2,760              | 11,912   | 5,236                             | 17,148                             | (NA)  | (NA)  | (NA)                                     |

TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year                                       | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3694.—ENGINE ELECTRICAL EQUIPMENT |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                  | 163                        | 182               | 98   | 40,559            | 250,202              | 32,697             | 66,903               | 184,438            | 496,662  | 398,039                           | 900,663                            | 15,490  | 93  | 81                                       |
| 1962 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 43,598            | 272,568              | 35,298             | 71,801               | 193,029            | 534,498  | 382,386                           | 905,004                            | 22,039  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 40,485            | 236,857              | 31,949             | 61,334               | 157,859            | 449,219  | 311,162                           | 766,399                            | 18,698  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 42,926            | 239,326              | 33,861             | 65,742               | 164,782            | 470,667  | 330,960                           | 799,392                            | 13,889  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 41,281            | 235,993              | 32,616             | 66,524               | 165,103            | 473,468  | 323,023                           | 782,467                            | 12,119  | (NA)  | (NA)                                     |
| 1958 <sup>3</sup> .....                    | 147                        | 157               | 89   | 38,127            | 195,983              | 29,530             | 56,394               | 135,775            | 353,534  | 248,149                           | 606,518                            | 8,942   | 87  | 84                                       |
| 1957 <sup>2</sup> .....                    | (NA)                       | (NA)              | (NA)   | 50,874            | 235,627              | 40,519             | 78,714               | 168,949            | 435,489  | 301,781                           | 723,211                            | 12,430  | 85  | 87                                       |
| 1956 <sup>2</sup> .....                    | (NA)                       | (NA)              | (NA)   | 49,277            | 227,134              | 39,505             | 79,474               | 165,392            | 396,855  | 284,530                           | 672,112                            | 16,983  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 53,600            | 245,103              | 44,253             | 91,616               | 186,006            | 440,894  | 327,988                           | 745,645                            | 16,880  | (NA)  | (NA)                                     |
| 1954 <sup>2</sup> .....                    | 154                        | 169               | 105  | 46,349            | 200,279              | 37,219             | 74,147               | 146,769            | 336,623  | 264,580                           | 612,344                            | 18,172  | 85  | 87                                       |
| 1953 <sup>1 2</sup> .....                  | (NA)                       | (NA)              | (NA)   | 52,970            | 216,471              | 44,047             | 86,872               | 167,704            | 348,020  | 283,053                           | 631,073                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>2</sup> .....                    | (NA)                       | (NA)              | (NA)   | 47,737            | 194,485              | 39,359             | 79,363               | 150,701            | 314,830  | 242,299                           | 557,129                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>2</sup> .....                    | (NA)                       | (NA)              | (NA)   | 51,169            | 195,591              | 43,130             | 85,859               | 153,850            | 330,828  | 265,089                           | 595,917                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>2</sup> .....                    | (NA)                       | (NA)              | (NA)   | 39,971            | 149,315              | 33,516             | 69,280               | 117,038            | 263,847  | 189,779                           | 453,626                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1 2</sup> .....                  | (NA)                       | (NA)              | (NA)   | 36,890            | 124,328              | 30,471             | 59,018               | 94,650             | 204,471  | 152,665                           | 357,136                            | (NA)  | (NA)  | (NA)                                     |
| 1947 <sup>2</sup> .....                    | 100                        | 112               | (NA)   | 44,450            | 126,737              | 38,449             | 73,329               | 103,249            | 198,656  | 159,143                           | 357,799                            | (NA)  | 89  | 91                                       |
| 1939 <sup>2</sup> .....                    | (NA)                       | 90                | (NA)   | (NA)              | (NA)                 | (NA)               | (NA)                 | 23,675             | 66,066   | 40,565                            | 106,631                            | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3699.—ELECTRICAL PRODUCTS, N.E.C. |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                  | 245                        | 350               | 106  | 10,923            | 51,215               | 8,492              | 16,496               | 33,355             | 101,221  | 88,970                            | 190,038                            | 3,271   | 90  | 49                                       |
| 1962 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 11,551            | 53,293               | 8,803              | 16,370               | 31,817             | 93,687   | 96,562                            | 189,308                            | 2,302   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 11,998            | 52,483               | 9,190              | 18,004               | 32,854             | 93,832   | 86,235                            | 179,549                            | 1,639   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 11,607            | 48,683               | 9,115              | 17,550               | 30,889             | 91,472   | 82,610                            | 172,572                            | 1,444   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 10,902            | 43,748               | 8,512              | 16,689               | 28,040             | 79,933   | 90,199                            | 171,844                            | (S)   | (NA)  | (NA)                                     |
| 1958 <sup>4</sup> .....                    | 247                        | 259               | 99   | 10,259            | 39,342               | 8,182              | 15,776               | 26,342             | 73,581   | 89,773                            | 165,388                            | 1,364   | 91  | 54                                       |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>2</sup>Data for Alaska and Hawaii are not included.

<sup>3</sup>A revision in the definition of this industry was made in the 1963 supplement to the 1957 edition of the Standard Industrial Classification, reclassifying establishments primarily manufacturing automotive wiring harness sets other than ignition from industry 3694 to industry 3714 (Census industry 3717) "Motor Vehicles and Parts." The statistics for 1958 to 1962 have been revised to take this reclassification into account. However, comparable data for this industry are not available for earlier years.

<sup>4</sup>A revision of the definition of this industry was introduced in the 1957 Standard Industrial Classification so that earlier figures on a comparable basis are unavailable.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                  | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3691.—STORAGE BATTERIES              |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 252            | 120                                | 17,512         | 108,700           | 13,871             | 28,444            | 80,237          | 244,152                              | 275,629           | 516,457            | 11,968                    | 14,924           | 150,061                              |
| New England.....                              | 16             | 10                                 | 1,117          | 7,494             | 704                | 1,498             | 3,197           | 13,932                               | 13,885            | 27,195             | 1,503                     | 501              | 5,758                                |
| Middle Atlantic....                           | 34             | 18                                 | 5,549          | 34,683            | 4,200              | 8,331             | 24,915          | 70,027                               | 68,498            | 137,285            | 2,340                     | 5,238            | 46,260                               |
| New York.....                                 | 8              | 5                                  | 900            | 5,199             | 676                | 1,433             | 3,372           | 8,686                                | 9,574             | 18,787             | 468                       | 1,011            | 9,168                                |
| New Jersey.....                               | 11             | 6                                  | 1,901          | 11,584            | 1,514              | 3,092             | 9,301           | 28,151                               | 23,460            | 51,079             | 639                       | 1,556            | 14,300                               |
| Pennsylvania.....                             | 15             | 7                                  | 2,748          | 17,900            | 2,010              | 3,806             | 12,242          | 33,190                               | 35,464            | 67,419             | 1,233                     | 2,671            | 22,792                               |
| East North Central.                           | 44             | 26                                 | 4,259          | 27,892            | 3,562              | 7,473             | 22,546          | 65,897                               | 76,066            | 142,221            | 2,107                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Ohio.....                                     | 5              | 4                                  | 239            | 1,158             | 190                | 387               | 898             | 3,548                                | 4,494             | 8,026              | 97                        | 819              | 8,511                                |
| Illinois.....                                 | 19             | 11                                 | 1,049          | 4,927             | 835                | 1,578             | 4,333           | 17,160                               | 18,619            | 35,972             | 446                       | 872              | 12,630                               |
| Michigan.....                                 | 8              | 4                                  | 652            | 4,559             | 544                | 1,217             | 3,712           | 10,231                               | 16,825            | 26,938             | 588                       | 446              | 4,412                                |
| West North Central.                           | 21             | 12                                 | 2,041          | 11,414            | 1,738              | 3,529             | 9,257           | 27,365                               | 29,712            | 56,111             | 435                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South Atlantic.....                           | 37             | 16                                 | 1,383          | 8,083             | 1,069              | 2,192             | 5,412           | 17,631                               | 26,381            | 43,956             | 2,542                     | 830              | 10,236                               |
| East South Central.                           | 12             | 7                                  | 470            | 2,581             | 402                | 838               | 2,142           | 8,030                                | 10,219            | 18,063             | 369                       | 364              | 4,412                                |
| Tennessee.....                                | 6              | 4                                  | 260            | 1,428             | 219                | 463               | 1,205           | 4,381                                | 6,021             | 10,317             | 1,323                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West South Central.                           | 24             | 9                                  | 862            | 5,384             | 690                | 1,480             | 4,131           | 12,651                               | 17,255            | 29,557             | 1,482                     | 833              | 9,258                                |
| West.....                                     | 64             | 22                                 | 1,831          | 11,169            | 1,506              | 3,103             | 8,637           | 28,619                               | 33,613            | 62,069             | 1,190                     | 1,752            | 18,233                               |
| California.....                               | 40             | 15                                 | 1,437          | 9,051             | 1,207              | 2,506             | 7,090           | 22,792                               | 26,098            | 48,684             | 635                       | 1,391            | 14,419                               |
| INDUSTRY 3692.—PRIMARY BATTERIES, DRY AND WET |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 46             | 29                                 | 8,478          | 40,602            | 6,791              | 13,615            | 29,029          | 113,787                              | 80,302            | 195,298            | 4,132                     | 8,096            | 75,431                               |
| Northeast.....                                | 15             | 9                                  | 1,778          | 9,018             | 1,448              | 2,956             | 6,643           | 23,753                               | 15,796            | 40,958             | 738                       | 1,665            | 16,651                               |
| North Central.....                            | 14             | 12                                 | 4,357          | 19,832            | 3,550              | 7,011             | 14,262          | 49,871                               | 36,059            | 85,926             | 1,532                     | 6,431            | 58,780                               |
| South and West.....                           | 17             | 8                                  | 2,343          | 11,752            | 1,793              | 3,648             | 8,124           | 40,163                               | 28,447            | 68,414             | 1,862                     |                  |                                      |
| INDUSTRY 3693.—X-RAY APPARATUS AND TUBES      |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 58             | 30                                 | 6,236          | 43,796            | 3,430              | 6,921             | 20,124          | 86,534                               | 56,916            | 143,706            | 2,132                     | 5,258            | 58,436                               |
| Northeast.....                                | 24             | 13                                 | 1,447          | 9,466             | 838                | 1,697             | 5,044           | 19,208                               | 10,285            | 29,269             | 534                       | 1,270            | 12,562                               |
| North Central.....                            | 18             | 13                                 | 3,593          | 25,461            | 2,009              | 3,979             | 11,470          | 52,702                               | 25,352            | 78,433             | 1,365                     | 3,205            | 34,784                               |
| Illinois.....                                 | 11             | 7                                  | 605            | 3,604             | 468                | 917               | 2,254           | 6,456                                | 4,425             | 11,549             | 179                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South and West.....                           | 16             | 4                                  | 1,196          | 8,869             | 583                | 1,245             | 3,610           | 14,624                               | 21,279            | 36,004             | 233                       | 783              | 11,090                               |
| INDUSTRY 3694.—ENGINE ELECTRICAL EQUIPMENT    |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 182            | 98                                 | 40,559         | 250,202           | 32,697             | 66,903            | 184,438         | 496,662                              | 398,039           | 900,663            | 15,490                    | 38,127           | 353,534                              |
| New England.....                              | 17             | 11                                 | 2,152          | 10,908            | 1,626              | 3,035             | 6,554           | 18,606                               | 17,686            | 36,165             | 397                       | 2,410            | 17,817                               |
| Middle Atlantic....                           | 45             | 27                                 | 4,537          | 21,718            | 3,423              | 6,719             | 14,168          | 44,544                               | 28,695            | 72,954             | 1,196                     | 7,847            | 57,376                               |
| New York.....                                 | 23             | 13                                 | 2,505          | 11,743            | 1,844              | 3,441             | 6,966           | 27,770                               | 16,660            | 44,100             | 890                       | 6,328            | 46,519                               |
| New Jersey.....                               | 10             | 6                                  | 851            | 4,129             | 724                | 1,525             | 2,989           | 6,119                                | 5,245             | 11,359             | 81                        | 515              | 3,246                                |
| Pennsylvania.....                             | 12             | 8                                  | 1,181          | 5,846             | 855                | 1,753             | 4,213           | 10,655                               | 6,790             | 17,495             | 225                       | 1,004            | 7,611                                |
| North Central.....                            | 60             | 38                                 | 31,667         | 207,565           | 25,824             | 53,339            | 156,432         | 416,281                              | 338,953           | 760,396            | 13,394                    | 27,051           | 272,185                              |
| Ohio.....                                     | 11             | 9                                  | 5,919          | 35,739            | 4,671              | 9,339             | 23,519          | 77,448                               | 67,400            | 145,772            | 3,059                     | 8,135            | 95,479                               |
| Illinois.....                                 | 15             | 10                                 | 2,792          | 15,174            | 1,859              | 3,621             | 8,802           | 31,280                               | 26,695            | 60,292             | 1,541                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Wisconsin.....                                | 5              | 5                                  | 1,235          | 5,706             | 1,020              | 2,034             | 4,188           | 9,776                                | 6,737             | 16,396             | 236                       | 2,031            | 10,651                               |
| South Atlantic.....                           | 13             | 4                                  | 189            | 713               | 164                | 351               | 597             | 1,141                                | 791               | 1,952              | 10                        | 343              | 2,155                                |
| East South Central.                           | 9              | 7                                  | 1,107          | 4,369             | 947                | 1,991             | 3,308           | 7,714                                | 7,486             | 16,486             | 197                       |                  |                                      |
| West South Central.                           | 8              | 1                                  | 67             | 288               | 57                 | 116               | 212             | 455                                  | 451               | 914                | 17                        |                  |                                      |
| West.....                                     | 30             | 10                                 | 840            | 4,641             | 656                | 1,352             | 3,167           | 7,921                                | 3,977             | 11,796             | 279                       | 476              | 4,001                                |
| California.....                               | 27             | 10                                 | 817            | 4,508             | 638                | 1,310             | 3,095           | 7,723                                | 3,785             | 11,407             | 272                       | 462              | 3,881                                |

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>               | 1963              |                                       |                   |                      |                    |                      |                    |   |                                |                                 | 1958                                   |                           |   |
|--|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|---|--------------------------------|---------------------------------|--|---------------------------|---|
|  | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted<br>(\$1,000) | Cost of materials<br>(\$1,000) | Value of shipments<br>(\$1,000) | Capital expenditures, new<br>(\$1,000) | All employees<br>(number) | Value added by manufacture, adjusted<br>(\$1,000) |
|  | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                |                                 |  |                           |   |
| INDUSTRY 3699.—ELECTRICAL PRODUCTS, N.E.C. |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                 | 350               | 106                                   | 10,923            | 51,215               | 8,492              | 16,496               | 33,355             | 101,221   | 88,970                         | 190,038                         | 3,271                                  | 10,259                    | 73,581  |
| New England.....                           | 28                | 11                                    | 1,666             | 7,763                | 1,333              | 2,666                | 5,793              | 16,743  | 12,014                         | 28,523                          | 528                                    | 1,202                     | 8,584   |
| Massachusetts....                          | 12                | 2                                     | 773               | 3,409                | 580                | 1,147                | 2,439              | 6,920   | 5,863                          | 12,603                          | (D)                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Connecticut.....                           | 10                | 5                                     | 240               | 1,112                | 195                | 394                  | 791                | 1,378   | 1,785                          | 3,131                           | (D)                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Middle Atlantic....                        | 119               | 39                                    | 3,210             | 13,736               | 2,722              | 5,241                | 9,946              | 28,496  | 32,138                         | 59,931                          | 737                                    | 3,430                     | 25,703  |
| New York.....                              | 65                | 26                                    | 2,277             | 8,765                | 1,912              | 3,714                | 6,023              | 17,370  | 22,734                         | 39,433                          | 254                                    | 2,524                     | 15,330  |
| East North Central.                        | 79                | 37                                    | 2,768             | 12,291               | 2,303              | 4,386                | 8,444              | 24,101  | 23,188                         | 47,397                          | 441                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Ohio.....                                  | 17                | 8                                     | 739               | 4,118                | 582                | 1,116                | 2,842              | 8,762   | 7,038                          | 15,786                          | 82                                     | 898                       | 7,905   |
| Indiana.....                               | 14                | 11                                    | 685               | 2,664                | 583                | 1,060                | 1,728              | 5,578   | 4,754                          | 10,626                          | 169                                    | 296                       | 2,000   |
| Wisconsin.....                             | 4                 | 4                                     | 159               | 636                  | 134                | 255                  | 453                | 1,015   | 1,355                          | 2,352                           | 23                                     | 123                       | 733   |
| West North Central.                        | 14                | 8                                     | 704               | 3,133                | 493                | 916                  | 1,977              | 8,638   | 5,673                          | 14,785                          | 159                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Missouri.....                              | 5                 | 5                                     | 548               | 2,367                | 365                | 677                  | 1,412              | 6,787   | 3,842                          | 10,999                          | 94                                     | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| South.....                                 | 44                | 6                                     | 1,953             | 10,807               | 1,198              | 2,461                | 5,269              | 16,949  | 10,345                         | 27,428                          | 1,284                                  | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| West.....                                  | 66                | 5                                     | 622               | 3,485                | 443                | 826                  | 1,926              | 6,294   | 5,612                          | 11,974                          | 122                                    | 972                       | 6,467   |
| California.....                            | 56                | 5                                     | 603               | 3,380                | 429                | 797                  | 1,844              | 6,081   | 5,448                          | 11,624                          | 120                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available.  
(X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup> General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.  
SIC 3691, Storage Batteries: New England--Massachusetts, 10 (558); Rhode Island, 1 (20-99); Connecticut, 5 (500-999); East North Central--Indiana, 8 (1,771); Wisconsin, 4 (191); West North Central--Minnesota, 5 (558); Iowa, 2 (20-99); Missouri, 8 (702); Nebraska, 1 (20-99); Kansas, 5 (689); South Atlantic--Delaware, 1 (100-249); Maryland, 3 (1-19); District of Columbia, 1 (1-19); Virginia, 4 (20-99); North Carolina, 5 (234); Georgia, 8 (504); Florida, 15 (390); East South Central--Kentucky, 4 (100-249); Mississippi, 2 (20-99); West South Central--Louisiana, 4 (20-99); Oklahoma, 1 (100-249); Texas, 19 (686); Mountain--Colorado, 4 (129); New Mexico, 1 (1-19); Arizona, 2 (1-19); Utah, 2 (20-99); Pacific--Washington, 4 (20-99); Oregon, 10 (179); Alaska, 1 (1-19).  
SIC 3692, Primary Batteries, Dry and Wet: New England--Vermont, 1 (250-499); Connecticut, 2 (20-99); Middle Atlantic--New York, 6 (674); New Jersey, 3 (250-499); Pennsylvania, 3 (100-249); East North Central--Ohio, 3 (1,000-2,499); Illinois, 3 (1,000-2,499); Wisconsin, 6 (1,000-2,499); West North Central--Iowa, 1 (250-499); Missouri, 1 (20-99); South Atlantic--Maryland, 2 (100-249); North Carolina, 6 (2,128); East South Central--Tennessee, 1 (100-249); Mountain--Colorado, 1 (20-99); Pacific--Washington, 1 (1-19); Oregon, 1 (1-19); California, 5 (1-19).  
SIC 3693, X-Ray Apparatus and Tubes: New England--Massachusetts, 4 (20-99); Connecticut, 3 (230); Middle Atlantic--New York, 12 (761); New Jersey, 3 (250-499); Pennsylvania, 2 (100-249); East North Central--Ohio, 2 (1,000-2,499); Wisconsin, 2 (1,000-2,499); West North Central--Minnesota, 2 (20-99); Missouri, 1 (20-99); South Atlantic--Maryland, 1 (500-999); Florida, 1 (20-99); East South Central--Kentucky, 1 (1-19); West South Central--Texas, 1 (1-19); Pacific--Washington, 1 (1-19); Oregon, 1 (100-249); California, 10 (150).  
SIC 3694, Engine Electrical Equipment: New England--New Hampshire, 1 (1-19); Massachusetts, 9 (1509); Connecticut, 6 (500-999); East North Central--Indiana, 5 (15,879); Michigan, 15 (5,000-9,999); West North Central--Minnesota, 2 (1-19); Iowa, 1 (250-499); Missouri, 3 (20-99); Nebraska, 1 (1-19); Kansas, 2 (1-19); South Atlantic--Delaware, 1 (20-99); Maryland, 1 (1-19); North Carolina, 3 (20-99); South Carolina, 1 (20-99); Georgia, 1 (1-19); Florida, 6 (20-99); East South Central--Kentucky, 4 (249); Tennessee, 3 (20-99); Alabama, 1 (500-999); Mississippi, 1 (20-99); West South Central--Arkansas, 1 (1-19); Louisiana, 2 (20-99); Oklahoma, 1 (1-19); Texas, 4 (20-99); Mountain--New Mexico, 1 (1-19); Nevada, 1 (1-19); Pacific--Washington, 1 (1-19).  
SIC 3699, Electrical Products, n.e.c.: New England--Maine, 1 (100-249); New Hampshire, 2 (20-99); Rhode Island, 3 (250-499); Middle Atlantic--New Jersey, 34 (639); Pennsylvania, 20 (294); East North Central--Illinois, 26 (500-999); Michigan, 18 (500-999); West North Central--Minnesota, 5 (124); Iowa, 1 (1-19); Nebraska, 2 (20-99); Kansas, 1 (1-19); South Atlantic--Maryland, 2 (1-19); Virginia, 2 (20-99); North Carolina, 3 (1-19); Georgia, 4 (20-99); Florida, 12 (1,419); East South Central--Tennessee, 3 (20-99); Alabama, 2 (1-19); West South Central--Arkansas, 1 (1-19); Oklahoma, 5 (1-19); Texas, 10 (350); Mountain--Colorado, 3 (1-19); Arizona, 3 (1-19); Pacific--Washington, 4 (1-19).  
<sup>2</sup> This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.



TABLE 3. Detailed Statistics: 1963

| Item   | Storage batteries<br>(SIC 3691) | Primary batteries,<br>dry and wet<br>(SIC 3692) | X-ray apparatus<br>and tubes<br>(SIC 3693) | Engine electrical<br>equipment<br>(SIC 3694) | Electrical products,<br>n.e.c.<br>(SIC 3699) |
|--|---------------------------------|---|--|--|--|
| Primary product specialization ratio <sup>1</sup> .....        | .98                             | .96   | .83  | .93  | .90  |
| Coverage ratio <sup>2</sup> .....                              | .99                             | .91   | .80  | .81  | .49  |
| Establishments, total.....number..                             | 252                             | 46  | 58   | 182  | 350  |
| With 1 to 19 employees.....do....                              | 132                             | 17  | 28   | 84   | 244  |
| With 20 to 99 employees.....do....                             | 73                              | 7   | 19   | 51   | 83   |
| With 100 employees or more.....do....                          | 47                              | 22  | 11   | 47   | 23   |
| Proprietors and working partners.....do....                    | 111                             | 13  | 11   | 44   | 155  |
| All employees (average for the year).....do....                | 17,512                          | 8,478   | 6,236                                      | 40,559                                       | 10,923                                       |
| Payroll (all employees), total for year.....\$1,000..          | 108,700                         | 40,602  | 43,796                                     | 250,202                                      | 51,215                                       |
| Production workers:  |                                 |   |  |  |  |
| Average for the year.....number..                              | 13,871                          | 6,791   | 3,430                                      | 32,697                                       | 8,492  |
| March.....do....   | 13,473                          | 6,461   | 3,292                                      | 33,321                                       | 8,035  |
| May.....do....   | 13,623                          | 6,589   | 3,344                                      | 33,598                                       | 8,100  |
| August.....do....  | 13,174                          | 7,170   | 3,371                                      | 31,113                                       | 8,705  |
| November.....do....  | 15,214                          | 6,945   | 3,710                                      | 32,770                                       | 9,125  |
| Man-hours.....1,000..  | 28,444                          | 13,615  | 6,921                                      | 66,903                                       | 16,496                                       |
| January-March.....do....                                       | 7,254                           | 3,265   | 1,767                                      | 17,018                                       | 3,944  |
| April-June.....do....  | 6,702                           | 3,487   | 1,780                                      | 17,353                                       | 3,973  |
| July-September.....do....                                      | 6,597                           | 3,252   | 1,624                                      | 15,435                                       | 4,054  |
| October-December.....do....                                    | 7,902                           | 3,624   | 1,768                                      | 17,121                                       | 4,525  |
| Wages.....\$1,000..  | 80,237                          | 29,029  | 20,124                                     | 184,438                                      | 33,355                                       |
| Cost of materials, etc., total.....do....                      | 275,629                         | 80,302  | 56,916                                     | 398,039                                      | 88,970                                       |
| Materials, parts, containers, and supplies consumed.....do.... | 264,197                         | 69,928  | 34,352                                     | 356,386                                      | 83,253                                       |
| Cost of resales.....do....                                     | 2,955                           | 8,754   | 21,376                                     | 34,795                                       | 3,876  |
| Fuels consumed.....do....                                      | 2,217                           | 529   | 185  | 1,783  | 506  |
| Electric energy:   |                                 |   |  |  |  |
| Purchased:   |                                 |   |  |  |  |
| Quantity.....million kw.-hrs..                                 | 442                             | 61  | 39   | 344  | 69   |
| Cost.....\$1,000..   | 5,159                           | 817   | 552  | 2,787  | 1,048  |
| Generated less sold.....million kw.-hrs..                      | (D)                             | -   | -  | (D)  | -  |
| Contract work.....\$1,000..                                    | 1,101                           | 274   | 451  | 2,288  | 287  |
| Value of shipments (including resales), total.....do....       | 516,457                         | 195,298   | 143,706                                    | 900,663                                      | 190,038                                      |
| Value of resales.....do....                                    | 3,959                           | 12,413  | 28,844                                     | 59,316                                       | 6,450  |
| Value added by manufacture, adjusted.....do....                | 244,152                         | 113,787   | 86,534                                     | 496,662                                      | 101,221                                      |
| Manufacturers' inventories:                                    |                                 |   |  |  |  |
| Beginning of year, total.....do....                            | 72,900                          | 29,464  | 30,274                                     | 109,644                                      | 25,078                                       |
| Finished products.....do....                                   | 23,548                          | 10,370  | 12,238                                     | 33,050                                       | 6,973  |
| Work-in-process.....do....                                     | 27,933                          | 8,992   | 8,588                                      | 44,120                                       | 4,211  |
| Materials, supplies, fuel, etc.....do....                      | 21,419                          | 10,102  | 9,448                                      | 32,474                                       | 13,894                                       |
| End of year, total.....do....                                  | 75,138                          | 29,986  | 30,036                                     | 99,818                                       | 24,330                                       |
| Finished products.....do....                                   | 23,836                          | 9,292   | 11,608                                     | 31,921                                       | 7,349  |
| Work-in-process.....do....                                     | 30,065                          | 8,861   | 8,962                                      | 39,287                                       | 3,988  |
| Materials, supplies, fuel, etc.....do....                      | 21,237                          | 11,833  | 9,466                                      | 28,610                                       | 12,993                                       |
| Expenditures for plant and equipment, total.....do....         | 12,445                          | 4,207   | 2,190                                      | 17,187                                       | 3,333  |
| New, total.....do....  | 11,968                          | 4,132   | 2,132                                      | 15,490                                       | 3,271  |
| New structures and additions to plant.....do....               | 3,460                           | 1,173   | 579  | 3,009  | 260  |
| New machinery and equipment.....do....                         | 8,508                           | 2,959   | 1,553                                      | 12,481                                       | 3,011  |
| Used plant and equipment.....do....                            | 477                             | 75  | 58   | 1,697  | 62   |
| Selected operating ratios:                                     |                                 |   |  |  |  |
| Payroll/Total employment.....                                  | 6,207                           | 4,789   | 7,023                                      | 6,169  | 4,689  |
| Production workers/Total employment.....                       | .79                             | .80   | .55  | .81  | .78  |
| Man-hours/Production workers.....                              | 2,051                           | 2,005   | 2,018                                      | 2,046  | 1,943  |
| Production worker wages/Man-hours.....                         | 2.82                            | 2.13  | 2.91                                       | 2.76   | 2.02   |
| Cost of materials and payrolls/Total value of shipments....    | .74                             | .62   | .70  | .72  | .74  |
| Cost of materials/Total value of shipments.....                | .53                             | .41   | .40  | .44  | .47  |
| Adjusted value added/Total employment.....                     | 13,942                          | 13,421  | 13,877                                     | 12,245                                       | 9,267  |
| Salaries and wages/Adjusted value added.....                   | .45                             | .36   | .51  | .50  | .51  |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3691.—STORAGE BATTERIES              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 252                   | 76                                 | 31               | 25                 | 41                 | 32                 | 29                   | 13                   | 3                    | 2                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 17,512                | 124                                | 219              | 360                | 1,313              | 2,335              | 4,303                | 4,576                | 4,282                | (D)                      | -                        |
| Payroll.....\$1,000..                         | 108,700               | 591                                | 1,051            | 1,740              | 6,614              | 13,074             | 27,079               | 27,047               | 29,504               | (D)                      | -                        |
| Value added, adjusted.....do....              | 244,152               | 1,612                              | 2,203            | 3,834              | 15,270             | 31,658             | 70,146               | 60,407               | 59,022               | (D)                      | -                        |
| Value of shipments.....do....                 | 516,457               | 3,307                              | 4,171            | 9,301              | 37,917             | 74,684             | 158,267              | 120,227              | 108,583              | (D)                      | -                        |
| Capital expenditures, new...do....            | 11,968                | 1,283                              | 154              | 219                | 872                | 1,619              | 5,662                | 2,181                | 978                  | (D)                      | -                        |
| INDUSTRY 3692.—PRIMARY BATTERIES, DRY AND WET |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 46                    | 10                                 | 3                | 4                  | 2                  | 5                  | 9                    | 9                    | 3                    | 1                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 8,478                 | 12                                 | 16               | 117                | (D)                | 358                | 1,751                | 6,224                | (D)                  | (D)                      | -                        |
| Payroll.....\$1,000..                         | 40,602                | 54                                 | 64               | 564                | (D)                | 1,443              | 8,784                | 29,693               | (D)                  | (D)                      | -                        |
| Value added, adjusted.....do....              | 113,787               | 105                                | 158              | 981                | (D)                | 3,420              | 30,915               | 78,208               | (D)                  | (D)                      | -                        |
| Value of shipments.....do....                 | 195,298               | 246                                | 290              | 2,155              | (D)                | 5,928              | 53,102               | 133,577              | (D)                  | (D)                      | -                        |
| Capital expenditures, new...do....            | 4,132                 | 270                                | (D)              | (D)                | (D)                | 86                 | 1,857                | 2,119                | (D)                  | (D)                      | -                        |
| INDUSTRY 3693.—X-RAY APPARATUS AND TUBES      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 58                    | 9                                  | 7                | 12                 | 7                  | 12                 | 7                    | 1                    | 2                    | 1                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 6,236                 | 24                                 | 56               | 171                | 203                | 806                | 1,652                | (D)                  | 3,324                | (D)                      | -                        |
| Payroll.....\$1,000..                         | 43,796                | 116                                | 390              | 936                | 1,175              | 4,834              | 10,721               | (D)                  | 25,624               | (D)                      | -                        |
| Value added, adjusted.....do....              | 86,534                | 192                                | 864              | 1,107              | 2,416              | 8,899              | 23,343               | (D)                  | 49,713               | (D)                      | -                        |
| Value of shipments.....do....                 | 143,706               | 348                                | 1,335            | 2,494              | 4,192              | 15,771             | 33,005               | (D)                  | 86,561               | (D)                      | -                        |
| Capital expenditures, new...do....            | 2,132                 | 7                                  | 22               | 29                 | 43                 | 323                | 593                  | (D)                  | 1,116                | (D)                      | -                        |
| INDUSTRY 3694.—ENGINE ELECTRICAL EQUIPMENT    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 182                   | 38                                 | 19               | 27                 | 31                 | 20                 | 19                   | 16                   | 6                    | 4                        | 2                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 40,559                | 55                                 | 145              | 382                | 982                | 1,379              | 3,040                | 5,997                | 4,382                | 24,197                   | (D)                      |
| Payroll.....\$1,000..                         | 250,202               | 273                                | 789              | 1,729              | 4,011              | 6,474              | 15,118               | 30,769               | 17,719               | 173,320                  | (D)                      |
| Value added, adjusted.....do....              | 496,662               | 602                                | 1,479            | 3,355              | 6,605              | 11,247             | 31,903               | 54,578               | 38,516               | 348,377                  | (D)                      |
| Value of shipments.....do....                 | 900,663               | 1,110                              | 2,640            | 6,310              | 11,978             | 19,768             | 67,151               | 101,684              | 76,429               | 613,593                  | (D)                      |
| Capital expenditures, new...do....            | 15,490                | 22                                 | 61               | 112                | 177                | 605                | 1,190                | 1,840                | 756                  | 10,727                   | (D)                      |
| INDUSTRY 3699.—ELECTRICAL PRODUCTS, N.E.C.    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 350                   | 167                                | 33               | 44                 | 58                 | 25                 | 15                   | 5                    | 2                    | 1                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 10,923                | 190                                | 224              | 607                | 1,884              | 1,664              | 2,297                | 1,509                | 2,548                | (D)                      | -                        |
| Payroll.....\$1,000..                         | 51,215                | 1,074                              | 1,128            | 2,793              | 8,416              | 6,520              | 10,874               | 6,634                | 13,776               | (D)                      | -                        |
| Value added, adjusted.....do....              | 101,221               | 1,948                              | 1,999            | 4,748              | 15,830             | 14,183             | 22,765               | 18,154               | 21,594               | (D)                      | -                        |
| Value of shipments.....do....                 | 190,038               | 4,034                              | 3,709            | 11,467             | 32,451             | 31,557             | 41,965               | 31,086               | 33,769               | (D)                      | -                        |
| Capital expenditures, new...do....            | 3,271                 | 46                                 | 43               | 120                | 429                | 465                | 333                  | 357                  | 1,478                | (D)                      | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left. n.e.c. Not elsewhere classified.

<sup>1</sup>Includes capital expenditures of approximately \$100-\$200 thousand for plants under construction but not in operation.<sup>2</sup>Includes capital expenditures of approximately \$20-\$50 thousand for plants under construction but not in operation.



TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|---|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |   | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |   | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |   | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3691      | Storage batteries.....1963..            | 516,457            | 500,373          | 8,300              | 7,784                  | 98                                   | 504,492                            | 500,373               | 4,119                    | 99                            |
|           | 1958..                                  | 368,993            | 360,359          | 2,131              | 6,503                  | 99                                   | 361,489                            | 360,359               | 1,130                    | 100                           |
| 3692      | Primary batteries, dry and wet...1963.. | 195,298            | 173,536          | 8,000              | 13,762                 | 96                                   | 191,624                            | 173,536               | 18,088                   | 91                            |
|           | 1958..                                  | 138,215            | 132,525          | 1,255              | 4,435                  | 99                                   | 135,679                            | 132,525               | 3,154                    | 98                            |
| 3693      | X-ray apparatus and tubes.....1963..    | 143,706            | 87,014           | 18,031             | 38,661                 | 83                                   | 108,577                            | 87,014                | 21,563                   | 80                            |
|           | 1958..                                  | 95,090             | 59,948           | 11,564             | 23,578                 | 84                                   | 72,969                             | 59,948                | 13,021                   | 82                            |
| 3694      | Engine electrical equipment.....1963..  | 900,663            | 705,622          | 128,394            | 66,647                 | 93                                   | 873,912                            | 705,622               | 168,290                  | 81                            |
|           | 1958..                                  | 606,518            | 484,585          | 75,301             | 46,632                 | 87                                   | 586,853                            | 484,585               | 102,268                  | 83                            |
| 3699      | Electrical products, n.e.c.....1963..   | 190,038            | 163,009          | 18,896             | 8,133                  | 90                                   | 335,524                            | 163,009               | <sup>1</sup> 172,515     | <sup>1</sup> 49               |
|           | 1958..                                  | 165,388            | 134,736          | 12,958             | 17,694                 | 91                                   | 249,231                            | 134,736               | <sup>1</sup> 114,495     | <sup>1</sup> 54               |

Note: See Introduction for an explanation of terms used.

<sup>1</sup> Included in this industry are appliance wire and cord and flexible cord sets which are also primary to industry 3357, Nonferrous Wire Drawing, Etc. For 1963, a coverage ratio computed on the basis of including both industries to which appliance wire and cord and flexible cord sets are primary would total 79 percent; 49 percent by industry 3699, and 30 percent by industry 3357. The remaining 21 percent was shipped by establishments in other industries. For 1958, a coverage ratio computed on the basis of including both industries to which appliance wire and cord and flexible cord sets are primary would total 81 percent; 54 percent by industry 3699, and 17 percent by industry 3357. The remaining 19 percent was shipped by establishments in other industries.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars except for ranges (shown in parentheses) which are expressed in millions of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous

receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                                | Class of products and miscellaneous receipts   | All industries | Storage batteries (SIC 3691)              | Other industries | Prod. class code                            | Class of products and miscellaneous receipts  | All industries | X-ray apparatus and tubes (SIC 3693)   | Other industries |
|---|--|----------------|---|------------------|---|---|----------------|--|------------------|
| <b>STORAGE BATTERIES INDUSTRY</b>               |  |                |   |                  | <b>X-RAY APPARATUS AND TUBES INDUSTRY</b>   |   |                |  |                  |
|   | Total shipments and receipts of the industry.....  | (X)            | 516,457                                   | (X)              |   | Total shipments and receipts of the industry.....   | (X)            | 143,706                                | (X)              |
|   | Primary products.....  | 504,492        | 500,373                                   | 4,119            | 36930                                       | X-ray equipment, including X-ray tubes and electrotherapeutic apparatus.....                    | 108,577        | 87,014                                 | 21,563           |
| 36911   | Storage batteries, SLI type.....   | 360,885        | 360,885                                   | -                |   | Secondary products.....   | (X)            | 18,031                                 | (X)              |
| 36912   | Storage batteries, other than SLI type, including parts for storage batteries.....   | 139,095        | 134,976                                   | 4,119            | 36930                                       | High frequency induction and dielectric heating equipment and parts, attachments and components | (X)            | (over 2)                               | (X)              |
| 36910   | Storage batteries, n.s.k.....  | 4,512          | 4,512                                     | -                | 35673                                       | Industrial process instruments....  | (X)            | (2-5)                                  | (X)              |
|   | Secondary products.....  | (X)            | 8,300                                     | (X)              | 38213                                       | Other mechanical measuring and control instruments.....   | (X)            | (over 2)                               | (X)              |
| 36920   | Primary batteries, dry and wet... All other secondary products....   | (X)            | 3,815                                     | (X)              | 38216                                       | Miscellaneous receipts.....   | (X)            | 38,661                                 | (X)              |
|   | Miscellaneous receipts.....  | (X)            | 7,784                                     | (X)              |   | Resales.....  | (X)            | 28,844                                 | (X)              |
|   | Contract work.....   | (X)            | 75  | (X)              |   | Other miscellaneous receipts.....   | (X)            | 9,817                                  | (X)              |
|   | Resales.....   | (X)            | 3,959                                     | (X)              |   | Listing of other industries with over \$2 million shipments of X-ray apparatus and tubes:       |                |  |                  |
|   | Other miscellaneous receipts....   | (X)            | 3,750                                     | (X)              |   | 3611 Electric measuring instruments.....  | (X)            | (X)                                    | (5-10)           |
| 36912   | Listing of the industries with over \$2 million shipments of each primary product classes:<br>3692 Primary batteries, dry and wet..... | (X)            | (X)                                       | (over 2)         | 36930                                       | 3673 Electron tubes, transmitting   | (X)            | (X)                                    | (5-10)           |
|   |  |                |   |                  |   | 3821 Mechanical measuring devices   | (X)            | (X)                                    | (2-5)            |
|   |  |                |   |                  |   | 3831 Optical instruments and lenses.....  | (X)            | (X)                                    | (over 2)         |
|   |  | All industries | Primary batteries, dry and wet (SIC 3692) | Other industries |   |   | All industries | Engine electrical equipment (SIC 3694) | Other industries |
| <b>PRIMARY BATTERIES, DRY AND WET, INDUSTRY</b> |  |                |   |                  | <b>ENGINE ELECTRICAL EQUIPMENT INDUSTRY</b> |   |                |  |                  |
|   | Total shipments and receipts of the industry.....  | (X)            | 195,298                                   | (X)              |   | Total shipments and receipts of the industry.....   | (X)            | 900,663                                | (X)              |
| 36920   | Primary batteries, dry and wet....   | 191,624        | 173,536                                   | 18,088           |   | Primary products.....   | 873,912        | 705,622                                | 168,290          |
|   | Secondary products.....  | (X)            | 8,000                                     | (X)              | 36942                                       | Battery charging generators.....  | 199,287        | 171,882                                | 27,405           |
| 36426   | Other electric and nonelectric lighting equipment (including hand portable equipment) and parts and accessories.....                   | (X)            | 2,651                                     | (X)              | 36943                                       | Cranking motors.....  | 134,672        | 131,333                                | 3,339            |
|   | All other secondary products....   | (X)            | 5,349                                     | (X)              | 36945                                       | Other complete electrical equipment for internal combustion engines.....                        | 217,123        | 181,903                                | 35,220           |
| 36912   | Storage batteries, other than SLI type, including parts for storage batteries.....   | (X)            | (over 2)                                  | (X)              | 36946                                       | Components and parts for engine electrical equipment.....                                       | 114,726        | 105,542                                | 9,184            |
|   | Miscellaneous receipts.....  | (X)            | 13,762                                    | (X)              | 36941                                       | Ignition harness and cable sets...  | 58,899         | 109,602                                | 93,142           |
|   | Resales.....   | (X)            | 12,413                                    | (X)              | 36944                                       | Spark plugs.....  | 143,845        |  |                  |
|   | Other miscellaneous receipts....   | (X)            | 1,349                                     | (X)              | 36940                                       | Engine electrical equipment, n.s.k.   | 5,360          | 5,360                                  | -                |
|   | Listing of other industries with over \$2 million shipments of primary batteries, dry and wet:   |                |   |                  |   | Secondary products.....   | (X)            | 128,394                                | (X)              |
| 36920   | 3691 Storage batteries.....  | (X)            | (X)                                       | 3,815            | 37175                                       | Parts and accessories for passenger cars, trucks, and busses shipped to:                        |                |  |                  |
|   | 3356 Rolling and drawing, n.e.c.   | (X)            | (X)                                       | (over 2)         | 37176                                       | Motor vehicle manufacturers....   | (X)            | 81,481                                 | (X)              |
|   | 3642 Lighting fixtures.....  | (X)            | (X)                                       | (2-5)            |   | Other than motor vehicle manufacturers.....   | (X)            | 4,633                                  | (X)              |
|   | 3662 Radio, TV communications equipment.....   | (X)            | (X)                                       | (over 2)         | 19610                                       | All other secondary products....  | (X)            | 42,280                                 | (X)              |
|   | 3694 Engine electrical equipment   | (X)            | (X)                                       | (over 2)         |   | Small arms ammunition, 30 mm and under (or 1.18 inches and under).....                          | (X)            | (over 2)                               | (X)              |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963—Continued

| Prod. class code | Class of products and miscellaneous receipts   | All industries | Engine electrical equipment (SIC 3694) | Other industries | Prod. class code | Class of products and miscellaneous receipts   | All industries                            | Electrical products, n.e.c. (SIC 3699) | Other industries     |        |
|------------------|--|----------------|--|------------------|------------------|--|---|--|----------------------|--------|
|                  | ENGINE ELECTRICAL EQUIPMENT INDUSTRY—Continued   |                |  |                  |                  | ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES, N.E.C., INDUSTRY  |   |  |                      |        |
|                  | Secondary products—Continued   |                |  |                  |                  | Total shipments and receipts of the industry.....  | (X)                                       | 190,038                                | (X)                  |        |
| 33560            | All other secondary products—Continued   |                |  |                  |                  | Primary products.....  | 335,524                                   | 163,009                                | 172,515              |        |
|                  | Rolled, drawn, and extruded nonferrous metal mill products (except copper and aluminum)..            | (X)            | (over 2)                               | (X)              | 36992            | Lamp bulb components (except glass blanks) and electrical products..   | 156,918                                   | 102,444                                | 54,474               |        |
| 35990            | Carburators, pistons, and other machine shop products.....   | (X)            | (2-5)                                  | (X)              | 36996            | Appliance wire and cord and flexible cord sets (manufactured from purchased materials).....                        | <sup>1</sup> 167,664                      | 49,822                                 | <sup>1</sup> 117,842 |        |
| 36216            | Parts and supplies for motors, generators, and motor generator sets, except land transportation..... | (X)            | (2-5)                                  | (X)              | 36990            | Electrical products, n.e.c., n.s.k.....  | 10,942                                    | 10,743                                 | 199                  |        |
| 36240            | Carbon and graphite products...  | (X)            | (2-5)                                  | (X)              |                  | Secondary products.....  | (X)                                       | 18,896                                 | (X)                  |        |
| 36430            | Current carrying wiring devices, including lightning rods.....                                       | (X)            | (2-5)                                  | (X)              |                  | Other electronic components and accessories, n.e.c., including parts for electron tubes (except glass blanks)..... | (X)                                       | 2,599                                  | (X)                  |        |
| 36792            | Capacitors for electronic applications.....  | (X)            | (5-10)                                 | (X)              | 36795            | All other secondary products.....  | (X)                                       | 16,297                                 | (X)                  |        |
| 36920            | Primary batteries, dry and wet.  | (X)            | (over 2)                               | (X)              |                  | Specialty transformers and fluorescent ballasts, except parts.....   | (X)                                       | (2-5)                                  | (X)                  |        |
|                  | Miscellaneous receipts.....  | (X)            | 66,647                                 | (X)              | 36121            | Ignition harness and cable sets.   | (X)                                       | (2-5)                                  | (X)                  |        |
|                  | Contract work.....   | (X)            | 2,144                                  | (X)              | 36410            | Electric lamps (bulbs only) including sealed beam lamps....  | (X)                                       | (over 2)                               | (X)                  |        |
|                  | Scrap and refuse (except iron, steel, copper, and aluminum)....                                      | (X)            | 2,011                                  | (X)              |                  | Miscellaneous receipts.....  | (X)                                       | 8,133                                  | (X)                  |        |
|                  | Resales.....   | (X)            | 59,316                                 | (X)              |                  | Contract work.....   | (X)                                       | 1,039                                  | (X)                  |        |
|                  | Other miscellaneous receipts.....  | (X)            | 3,176                                  | (X)              |                  | Resales.....   | (X)                                       | 6,450                                  | (X)                  |        |
|                  | Listing of other industries with over \$2 million shipments of each primary product classes:         |                |  |                  |                  | Other miscellaneous receipts.....  | (X)                                       | 644                                    | (X)                  |        |
| 36941            | 3357 Nonferrous wire drawing....   | (X)            | (X)                                    | 5,576            |                  | Listing of other industries with over \$2 million shipments of each primary product classes:                       |   |  |                      |        |
|                  | 3679 Electronic components, n.e.c.....   | (X)            | (X)                                    | (over 2)         | 36992            | 3564 Blowers and fans.....   | (X)                                       | (X)                                    | (5-10)               |        |
|                  | 3699 Electrical products, n.e.c.   | (X)            | (X)                                    | (2-5)            |                  | 3634 Electric housewares and fans.....   | (X)                                       | (X)                                    | (2-5)                |        |
|                  | 3717 Motor vehicles and parts...   | (X)            | (X)                                    | (over 2)         |                  | 3641 Electric lamps.....   | (X)                                       | (X)                                    | (over 2)             |        |
| 36942            | 3621 Motors and generators.....  | (X)            | (X)                                    | 14,081           |                  | 3643 Current carrying wiring devices.....  | (X)                                       | (X)                                    | (2-5)                |        |
|                  | 3651 Radio and TV receiving sets   | (X)            | (X)                                    | (over 2)         |                  | 3679 Electronic components, n.e.c.....   | (X)                                       | (X)                                    | 5,549                |        |
|                  | 3717 Motor vehicles and parts...   | (X)            | (X)                                    | 2,180            |                  | 36996  | 3643 Current carrying wiring devices..... | (X)                                    | (X)                  | 12,624 |
|                  | 3821 Mechanical measuring devices.....   | (X)            | (X)                                    | (over 2)         |                  | 3357 Nonferrous wire drawing....   | (X)                                       | (X)                                    | 101,667              |        |
| 36944            | 3717 Motor vehicles and parts...   | (X)            | (X)                                    | (over 2)         |                  |  |   |  |                      |        |
| 36945            | 3357 Nonferrous wiring drawing..   | (X)            | (X)                                    | (over 2)         |                  |  |   |  |                      |        |
|                  | 3599 Miscellaneous machinery....   | (X)            | (X)                                    | (over 2)         |                  |  |   |  |                      |        |
|                  | 3621 Motors and generators.....  | (X)            | (X)                                    | (2-5)            |                  |  |   |  |                      |        |
|                  | 3622 Industrial controls.....  | (X)            | (X)                                    | (5-10)           |                  |  |   |  |                      |        |
|                  | 3643 Current carrying devices...   | (X)            | (X)                                    | (2-5)            |                  |  |   |  |                      |        |
|                  | 3679 Electronic components, n.e.c.....   | (X)            | (X)                                    | (over 2)         |                  |  |   |  |                      |        |
|                  | 3717 Motor vehicles and parts...   | (X)            | (X)                                    | 3,734            |                  |  |   |  |                      |        |
| 36946            | 3599 Miscellaneous machinery....   | (X)            | (X)                                    | (2-5)            |                  |  |   |  |                      |        |
|                  | 3821 Mechanical measuring devices.....   | (X)            | (X)                                    | (over 2)         |                  |  |   |  |                      |        |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Includes the total for product class 33576, Appliance wire and cord and flexible cord sets, which is primary to industry 3357.

TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                      |                     |                    |
|--------------|---|-----------------|--|----------------------|---------------------|--------------------|
|              |   |                 | 1963   |                      | 1958                |                    |
|              |   |                 | Quantity                                       | Value (\$1,000)      | Quantity            | Value (\$1,000)    |
| 3691- --     | STORAGE BATTERIES, TOTAL.....   |                 | (X)  | 504,492              | (X)                 | 361,489            |
| 36911 --     | Storage batteries, SLI type.....  |                 | (X)  | 360,885              | (X)                 | 278,960            |
|              | Motor vehicle type storage batteries, including tractor, aircraft, and marine starting, lighting, and ignition types, complete units: |                 |  |                      |                     |                    |
|              | Automobile, truck, farm tractor, and bus:   |                 |  |                      |                     |                    |
|              | Automotive type (all types primarily designed to fit passenger cars, regardless of application) for original equipment:               |                 |  |                      |                     |                    |
| 36911 12     | 6 volt.....   | 1,000 units.... | 9,214  | 77,285               | 413                 | 3,311              |
| 36911 15     | 12 volt.....  | ..do.....       |  |                      |                     |                    |
|              | For replacement:  |                 |  |                      |                     |                    |
|              | Wet:  |                 |  |                      |                     |                    |
| 36911 21     | 6 volt.....   | ..do.....       | 9,915  | 72,527               | 17,450              | 128,226            |
| 36911 23     | 12 volt.....  | ..do.....       | 8,459  | 74,095               | 17,419              | 174,327            |
|              | Dry charge:   |                 |  |                      |                     |                    |
| 36911 27     | 6 volt.....   | ..do.....       | 4,338  | 33,658               | (NA)                | (NA)               |
| 36911 28     | 12 volt.....  | ..do.....       | 9,496  | 79,963               | (NA)                | (NA)               |
|              | Heavy-duty transport, motor coach and bus, and diesel starting batteries)(excluding marine and railway diesel starting batteries):    |                 |  |                      |                     |                    |
|              | For original equipment:   |                 |  |                      |                     |                    |
| 36911 32     | 6 volt.....   | ..do.....       | 146  | 1,422                | 76                  | 21,837             |
| 36911 35     | 12 volt.....  | ..do.....       | 234  | 3,693                |                     |                    |
|              | For replacement:  |                 |  |                      |                     |                    |
| 36911 42     | 6 volt.....   | ..do.....       | 478  | 4,431                | 273                 | 3,983              |
| 36911 45     | 12 volt.....  | ..do.....       | 278  | 4,437                | 110                 | 3,106              |
| 36911 51     | Aircraft.....   | ..do.....       | 90   | 3,154                | 73                  | 2,649              |
| 36911 71     | Marine.....   | ..do.....       | 92   | 1,474                | 118                 | 4,745              |
| 36911 98     | Other starting, lighting, and ignition type batteries (including motorcycle).....   |                 | (X)  | 4,746                | (X)                 | 7,978              |
| 36912 --     | Storage batteries (other than SLI type) including parts for storage batteries, all types.....   |                 | (X)  | 139,095              | (X)                 | 78,511             |
|              | Motive power type:  |                 |  |                      |                     |                    |
| 36912 11     | Industrial truck type.....  | 1,000 units.... | 70   | 27,420               | (NA)                | 18,074             |
| 36912 19     | Other motive power type storage batteries, including mining, and industrial locomotive and railway.....                               | ..do.....       | 24   | 3,760                | (X)                 | 888                |
| 36912 41     | Farm and emergency lighting storage batteries.....  |                 | (X)  | ( <sup>3</sup> )     | (X)                 | ( <sup>4</sup> )   |
| 36912 51     | Communication storage batteries (include radio station, telephone and telegraph, and railroad signalling).....                        |                 | (X)  | 18,126               | (X)                 | 15,626             |
| 36912 61     | Railway diesel starting batteries.....  | 1,000 units.... | 27   | 6,005                | (X)                 | ( <sup>4</sup> )   |
| 36912 71     | Railway air-conditioning and car lighting batteries.....  |                 | (X)  | ( <sup>3</sup> )     | (X)                 | 3,660              |
| 36912 91     | Parts and supplies for storage batteries.....   |                 | (X)  | 9,525                | (X)                 | 10,767             |
| 36912 93     | Nickel-cadmium batteries.....   | 1,000 batteries | 2,683  | 8,917                | (NA)                | (NA)               |
| 36912 95     |   | 1,000 of cells. | 2,933  | (X)                  | (NA)                | (NA)               |
| 36912 98     | Other storage batteries.....  |                 | (X)  | <sup>3</sup> 565,342 | (X)                 | 429,496            |
| 36910 00     | Storage batteries, n.s.k.....   |                 | (X)  | 4,512                | (X)                 | 4,018              |
| 3692- --     | PRIMARY BATTERIES, DRY AND WET, TOTAL.....  |                 | (X)  | 191,624              | (X)                 | 135,679            |
|              | Dry cells (Leclanche types), except military:   |                 |  |                      |                     |                    |
|              | General purpose (6" or equivalent) 1.5 volt dry cells:  |                 |  |                      |                     |                    |
| 36920 12     | Single unit.....  | 1,000 batteries | 5,084  | 2,741                | <sup>6</sup> 8,355  | <sup>6</sup> 5,953 |
| 36920 14     |   | 1,000 cells.... | 5,084  | (X)                  | <sup>6</sup> 10,530 | (X)                |
| 36920 16     | Multiple.....   | 1,000 batteries | 1,823  | 3,031                | ( <sup>6</sup> )    | ( <sup>6</sup> )   |
| 36920 18     |   | 1,000 cells.... | 5,605  | (X)                  | ( <sup>6</sup> )    | (X)                |
|              | Flashlight cells (single cells only):   |                 |  |                      |                     |                    |
|              | "D" size:   |                 |  |                      |                     |                    |
| 36920 22     | Standard.....   | 1,000 cells.... | 399,685  | 34,870               | 363,513             | 34,311             |
| 36920 23     | Industrial.....   | ..do.....       |  |                      |                     |                    |
| 36920 25     | "C" size, medium.....   | ..do.....       | 179,565  | 12,818               | 89,241              | 7,259              |
| 36920 26     | AA size, penlight.....  | ..do.....       |  |                      |                     |                    |
| 36920 27     | AAA size, penlight.....   | ..do.....       |  |                      |                     |                    |
| 36920 28     | N size, novelty.....  | ..do.....       |  |                      |                     |                    |
| 36920 29     | All other single cells.....   | ..do.....       |  |                      |                     |                    |
| 36920 31     | Lantern batteries and other multiple cells (general purpose industrial RR type emergency and other multiple cells).....               | 1,000 batteries | 16,794   | 14,227               | 12,758              | 7,784              |
| 36920 33     |   | 1,000 cells.... | 86,466   | (X)                  | 54,139              | (X)                |
|              | Hearing aid cells:  |                 |  |                      |                     |                    |
| 36920 41     | A type.....   | 1,000 batteries | ( <sup>8</sup> )                               | ( <sup>8</sup> )     | <sup>9</sup> 9,424  | <sup>9</sup> 1,454 |
| 36920 43     |   | 1,000 cells.... | ( <sup>8</sup> )                               | (X)                  | <sup>9</sup> 24,311 | (X)                |
| 36920 45     | B type.....   | 1,000 batteries | ( <sup>8</sup> )                               | ( <sup>8</sup> )     | ( <sup>9</sup> )    | ( <sup>9</sup> )   |
| 36920 47     |   | 1,000 cells.... | ( <sup>8</sup> )                               | (X)                  | ( <sup>9</sup> )    | (X)                |
| 36920 51     | Photoflash batteries.....   | 1,000 batteries | ( <sup>8</sup> )                               | ( <sup>8</sup> )     | ( <sup>7</sup> )    | ( <sup>7</sup> )   |
| 36920 53     |   | 1,000 cells.... | ( <sup>8</sup> )                               | (X)                  | ( <sup>7</sup> )    | (X)                |

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                 |          |                 |
|--------------|---|-----------------|--|-----------------|----------|-----------------|
|              |   |                 | 1963   |                 | 1958     |                 |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 3692- --     | PRIMARY BATTERIES, DRY AND WET—Continued  |                 |  |                 |          |                 |
|              | Dry cells (Leclanche types), except military—Continued  |                 |  |                 |          |                 |
|              | Radio A-B and C cells (other than photoflash and hearing aid):  |                 |  |                 |          |                 |
| 36920 55     | Portable radio and instrument.....  | 1,000 batteries | 124,289  | 32,609          | 22,586   | 15,732          |
| 36920 57     |   | 1,000 cells.... | 437,655  | (X)             | 339,412  | (X)             |
| 36920 61     | Farm radio "A-B" packs.....   | 1,000 batteries | (10)   | (10)            | 911      | 3,586           |
| 36920 63     |   | 1,000 cells.... | (10)   | (X)             | 49,803   | (X)             |
| 36920 69     | Other types.....  | 1,000 batteries | 101,092  | 101,284         | 4,431    | 2,566           |
| 36920 71     |   | 1,000 cells.... | 107,529  | (X)             | 73,098   | (X)             |
|              | Dry cell (except Leclanche type and military):  |                 |  |                 |          |                 |
| 36920 72     | Mercury.....  |                 |  |                 |          |                 |
| 36920 73     |   | 1,000 batteries | 8144,734                                       | 831,146         | (?)      | (?)             |
| 36920 76     | Alkali.....   | 1,000 cells.... | 8240,276                                       | (X)             | (?)      | (X)             |
| 36920 77     |   |                 |  |                 |          |                 |
| 36920 79     | All other dry cells (except military).....  |                 |  |                 |          |                 |
| 36920 81     |   |                 |  |                 |          |                 |
|              | Dry cells, military type:   |                 |  |                 |          |                 |
| 36920 83     | General purpose (6" equivalent) 1.5 volts dry cells, single and multiple unit.....  | 1,000 batteries | (11)   | (11)            | (?)      | (?)             |
| 36920 84     |   | 1,000 cells.... | (11)   | (X)             | (?)      | (X)             |
| 36920 85     | Flashlight, standard.....   | 1,000 batteries | (11)   | (11)            | (?)      | (?)             |
| 36920 86     |   | 1,000 cells.... | (11)   | (X)             | (?)      | (X)             |
| 36920 87     | Portable radio types.....   | 1,000 batteries | (11)   | (11)            | (?)      | (?)             |
| 36920 88     |   | 1,000 cells.... | (11)   | (X)             | (?)      | (X)             |
| 36920 89     | Other dry cells (military).....   | 1,000 batteries | 1137,428                                       | 1120,539        | 773,463  | 734,095         |
| 36920 91     |   | 1,000 cells.... | 11437,482                                      | (X)             | 7643,124 | (X)             |
| 36920 92     | Wet cell primary batteries.....   | 1,000 batteries | 824  | 14,178          | (NA)     | 6,252           |
| 36920 93     |   | 1,000 cells.... | 3,258  | (X)             |          |                 |
| 36920 95     | Parts and supplies for primary batteries.....   |                 | (X)  | 22,542          | (X)      | 14,807          |
| 36920 99     | Primary batteries, n.s.k.....   |                 | (X)  | 1,639           | (X)      | 1,880           |
| 3693- --     | X-RAY APPARATUS AND TUBES, TOTAL.....   |                 | (X)  | 108,577         | (X)      | 72,969          |
|              | X-ray equipment, including X-ray tubes, and electro-therapeutic apparatus:  |                 |  |                 |          |                 |
| 36930 --     | As reported in the census of manufactures.....  |                 | (X)  | 108,577         | (X)      | 72,969          |
|              | As reported on Census Annual Form MA-36N.....   |                 | (X)  | 100,599         | (X)      | (X)             |
|              | Medical diagnostic and therapeutic electronic equipment, except X-ray:  |                 |  |                 |          |                 |
| 36930 82     | Diathermy equipment.....  |                 | (X)  | 3,651           |          |                 |
| 36930 92     | Electrocardiographs.....  | No. of units... | 9,803  | 7,477           |          |                 |
| 36930 94     | Electroencephalographs.....   |                 | (X)  | (12)            |          |                 |
| 36930 96     | Other (electronic).....   |                 | (X)  | 1218,187        |          |                 |
|              | X-ray equipment and accessories (excluding X-ray spectrometers and diffraction equipment):  |                 |  |                 | (X)      | 64,125          |
| 36930 19     | Medical and dental X-ray and gamma ray equipment.....   |                 | (X)  | 42,451          |          |                 |
| 36930 34     | Industrial and scientific X-ray equipment.....  |                 | (X)  | 12,036          |          |                 |
| 36930 71     | X-ray equipment accessories.....  |                 | (X)  | 6,836           |          |                 |
| 36930 49     | X-ray tubes and valves, sold separately.....  | No. of units... | 30,121   | 9,961           | (X)      | 8,844           |
| 3694- --     | ELECTRICAL EQUIPMENT FOR INTERNAL COMBUSTION ENGINES.....   |                 | (X)  | 873,912         | (X)      | 586,853         |
| 36941 --     | Ignition harness and cable sets <sup>13</sup> .....   |                 | (X)  | 58,899          | (X)      | 28,831          |
|              | Ignition harness sets:  |                 |  |                 |          |                 |
| 36941 11     | Automotive type <sup>13</sup> .....   | 1,000 units.... | 20,438   | 28,667          | (NA)     | (14)            |
| 36941 15     | Aircraft type.....  | do.....         | 1,377  | 6,716           | (NA)     | 9,580           |
| 36941 19     | Other, including tractor, stationary engine, etc.....   |                 | (X)  | 2,330           | (X)      | 1410,191        |
| 36941 51     | Cable sets (automotive and aircraft types).....   | 1,000 units.... | 15,450   | 20,742          | (NA)     | 7,923           |
| 36941 00     | Ignition harness sets, n.s.k.....   |                 | (X)  | 444             | (X)      | 1,137           |
| 36942 --     | Battery charging generators.....  |                 | (X)  | 199,287         | (X)      | 104,930         |
|              | Battery charging generators, including alternators for internal combustion engines:   |                 |  |                 |          |                 |
|              | Passenger car and light truck type:   |                 |  |                 |          |                 |
| 36942 11     | 6 volt.....   | 1,000 units.... | 450  | 3,631           | 321      | 2,672           |
| 36942 15     | 12 volt.....  | do.....         | 9,334  | 119,972         | 5,345    | 53,574          |
| 36942 21     | Heavy-duty truck and bus type- 12 volt and higher.....  | do.....         | 280  | 17,539          | 581      | 10,405          |
| 36942 29     | All other (excluding farm lighting generators, but including farm tractor, marine, stationary, construction machinery, and aircraft and space types)..... | do.....         | (NA)   | 16,986          | (NA)     | 7,914           |
|              | Regulators for battery charging generators:   |                 |  |                 |          |                 |
| 36942 41     | Passenger car and light truck type.....   | do.....         | 13,891   | 34,867          | 10,237   | 24,781          |
| 36942 49     | Other types, including heavy-duty, truck and bus type.....  | do.....         | 727  | 5,710           | (NA)     | 5,584           |
| 36942 00     | Battery charging generators, n.s.k.....   |                 | (X)  | 582             | (X)      | -               |

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure  | Total shipments including interplant transfers |                 |          |                      |  |
|--------------|---|--|--|-----------------|----------|----------------------|--|
|              |   |  | 1963   |                 | 1958     |                      |  |
|              |   |  | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000)      |  |
| 3694--       | ELECTRICAL EQUIPMENT FOR INTERNAL COMBUSTION ENGINES—Con.   |  |  |                 |          |                      |  |
| 36943--      | Cranking motors.....  |  | (X) 134,672                                    | (X) 82,332      |          |                      |  |
| 36943 11     | Passenger car and light truck type.....   | 1,000 units...   | 8,839  | 108,030         | 5,735    | 63,001               |  |
| 36943 31     | Heavy-duty truck and bus type.....  | ..do.....  | 772  | 24,754          | 605      | 12,341               |  |
| 36943 51     | Farm tractor type.....  | ..do.....  | 157  | 1,888           | (NA)     | 6,990                |  |
| 36943 71     | Other cranking motors, including aircraft type.....   | ..do.....  | (X)  | 143,845         | (X)      | 123,064              |  |
| 36944--      | Spark plugs.....  |  |  |                 |          |                      |  |
| 36944 11     | Automotive type.....  | 1,000 units...   | 528,607  | 134,660         | (NA)     | 123,064              |  |
| 36944 31     | Aircraft type.....  | ..do.....  | 4,354  | 8,901           | (X)      | -                    |  |
| 36944 00     | Spark plugs, n.s.k.....   | ..do.....  | (X)  | 284             | (X)      | -                    |  |
| 36945--      | Other complete electrical equipment for internal combustion engines.....  |  | (X) 217,123                                    | (X) 133,797     |          |                      |  |
|              | Ignition coils:   |  |  |                 |          |                      |  |
| 36945 11     | For automotive vehicles (trucks, buses, and passenger cars)...  | 1,000 units...   | 18,354   | 32,743          | 9,637    | 16,658               |  |
| 36945 19     | Other ignition coils.....   | ..do.....  | 786  | 2,125           | 1,560    | 3,272                |  |
|              | Distributors:   |  |  |                 |          |                      |  |
| 36945 31     | Passenger car and light truck type.....   | ..do.....  | 9,473  | 53,886          | 5,358    | 28,316               |  |
| 36945 39     | Other types.....  | ..do.....  | (X)  | 174,787         | (NA)     | 15,285               |  |
| 36945 53     | Ignition magnetos (all types).....  | No. of units..   | (X)  | 5,486           | (X)      | 7,327                |  |
| 36945 61     | Other ignition equipment.....   | ..do.....  |  |                 |          |                      |  |
|              | Switches specifically designed for use in vehicles and aircraft (all types: starting, lighting, ignition, etc.):                    |  |  |                 |          |                      |  |
| 36945 81     | Automotive vehicle switches (trucks, buses, and passenger cars).....  | 1,000 units...   | 113,291  | 80,670          | 112,635  | 38,901               |  |
| 36945 85     | Aircraft switches.....  | ..do.....  | (X)  | 8,829           | (X)      | 4,721                |  |
| 36945 89     | Other vehicle switches.....   | ..do.....  | (X)  | 11,882          | (X)      | 2,316                |  |
| 36945 98     | Other complete electrical equipment units for internal combustion engines and vehicles.....   | ..do.....  | (X)  | 3,884           | (X)      | 13,879               |  |
| 36945 00     | Other complete electrical equipment for internal combustion engines, n.s.k.....   | ..do.....  | (X)  | 263             | (X)      | -                    |  |
| 36946--      | Components and parts for engine electrical equipment.....   |  | (X) 114,726                                    | (X) 103,325     |          |                      |  |
| 36946 11     | Armatures, field coils, and drive end housings for cranking motors.....   |  | (X)  | 26,838          | (X)      | 16,395               |  |
| 36946 21     | Armatures for battery charging generators.....  |  | (X)  | 10,086          | (X)      | 3,706                |  |
| 36946 31     | Parts for ignition distributors:  |  |  |                 |          |                      |  |
|              | Distributor heads and rotors.....   |  | (X)  | 10,086          | (X)      | 3,706                |  |
|              | Breaker point sets:   |  |  |                 |          |                      |  |
| 36946 51     | Contact arms.....   | 1,000 units...   | (NA)   | 40,936          | 49,726   | 15,326               |  |
| 36946 55     | Contact supports and screws.....  | ..do.....  | (X)  | 52,337          | 34,926   | 8,844                |  |
| 36946 71     | Condensers.....   | ..do.....  | 52,337   | 13,615          | 39,934   | 10,596               |  |
| 36946 98     | Other component parts for engine electrical equipment, including field coils for battery charging generators.....                   |  | (X)  | 23,177          | (X)      | 48,458               |  |
| 36946 00     | Components and parts for engine electrical equipment, n.s.k.....  |  | (X)  | 74              | (X)      | -                    |  |
| 36940 00     | Electrical equipment for internal combustion engines, n.s.k.....  |  | (X)  | 5,360           | (X)      | 10,574               |  |
| 3699--       | ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES, N.E.C., TOTAL.   |  | (X) 335,524                                    | (X) 249,231     |          |                      |  |
| 36992--      | Lamp bulb components (except glass blanks) and other electrical products, total.....  |  | (X) 156,918                                    | (X) 115,846     |          |                      |  |
| 36992 11     | Electric lamp (bulb) bases.....   |  | (X) 21,570                                     | (X) 18,204      |          |                      |  |
| 36992 21     | Other electric lamp (bulb) components, including supports, electrodes, lead-ins, and filaments, but excluding lamp bulb blanks..... |  | (X)  | 56,629          | (X)      | 33,961               |  |
| 36992 51     | Electric gongs, chimes and bells.....   |  | (X)  | 8,951           | (X)      | 8,727                |  |
| 36992 71     | Christmas tree lighting outfits, including value of bulbs made or purchased and assembled in outfits.....                           | 1,000 sets....   | 13,063   | 16,237          | (X)      | 25,354               |  |
| 36992 66     | Electric comfort heating equipment (warm-air furnaces and unit heaters), excluding household air space heaters <sup>15</sup> .....  |  | (X)  | 7,144           | (X)      | 29,600               |  |
| 36992 98     | Other electrical products, n.e.c.....   |  | (X)  | 46,387          | (X)      | 127,069              |  |
| 33576--      | Appliance wire and cord and flexible cord sets.....   |  | (X)  | 167,664         | (X)      | 127,069              |  |
| 36996--      |   |  |  |                 |          |                      |  |
| 33576--      | Made by industry 3357 (drawing and insulating of nonferrous wire).....  |  | (X)  | 101,667         | (X)      | 66,199               |  |
| 36996--      | Made by industry 3699 (electrical machinery, equipment, and supplies, n.e.c.), and other industries.....                            |  | (X)  | 65,997          | (X)      | 60,870               |  |
|              | Flexible cord sets, including heater cord sets:   |  |  |                 |          |                      |  |
| 33576 13     | Rubber insulated.....   |  | (X)  | 25,794          | (X)      | (NA)                 |  |
| 36996 13     |   | Made in nonferrous wire drawing, etc. (industry 3357).....                     | (X)  | 11,221          | (X)      | <sup>16</sup> 20,881 |  |
| 33576 13     |   | Made in electrical products, n.e.c., (industry 3699) and other industries..... | (X)  | 14,573          | (X)      | <sup>17</sup> 27,288 |  |
| 36996 13     |   |  |  |                 |          |                      |  |

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code         | Product  | Unit of measure  | Total shipments including interplant transfers |                 |          |                 |
|----------------------|--|--|--|-----------------|----------|-----------------|
|                      |  |  | 1963   |                 | 1958     |                 |
|                      |  |  | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 3699- --             | ELECTRICAL MACHINERY, EQUIPMENT, AND SUPPLIES, N.E.C.—Con.                     |  |  |                 |          |                 |
| 33576 --<br>36996 -- | Appliance wire and cord and flexible cord sets—Continued                       |  |  |                 |          |                 |
|                      |  |  |  |                 |          |                 |
|                      | Flexible cord sets, including heater cord sets—Continued                       |  |  |                 |          |                 |
| 33576 15<br>36996 15 | Thermoplastic insulated.....   |  | (X) 39,957                                     | (X)             | (NA)     |                 |
| 33576 15<br>36996 15 |  | Made in nonferrous wire drawing, etc. (industry 3357).....                     | (X)  | 19,024          | (X)      | (16)            |
|                      | Made in electrical products, n.e.c. (industry 3699), and other industries..... | (X)  | 20,933   | (X)             | (17)     |                 |
|                      | Appliance wire and cord:   |  |  |                 |          |                 |
| 33576 21<br>36996 21 | Fixture wire (including heat resistant).....                                   |  | (X) 18,153                                     | (X)             | 8,405    |                 |
| 33576 21<br>36996 21 |  | Made in nonferrous wire drawing, etc. (industry 3357).....                     | (X)  | 15,270          | (X)      | 6,549           |
|                      | Made in electrical products, n.e.c. (industry 3699), and other industries..... | (X)  | 2,883  | (X)             | 1,856    |                 |
|                      | Flexible cord (including heater cord):   |  |  |                 |          |                 |
|                      | Rubber insulated.....  | (X)  | 22,766   | (X)             | 16,205   |                 |
| 33576 22<br>36996 22 | Made in nonferrous wire drawing, etc. (industry 3357).....                     | (X)  | 20,793   | (X)             | 14,825   |                 |
|                      |  | Made in electrical products, n.e.c. (industry 3699), and other industries..... | (X)  | 1,973           | (X)      | 1,380           |
| 33576 25<br>36996 25 | Thermoplastic insulated.....   | (X)  | 26,862   | (X)             | 10,925   |                 |
| 33576 25<br>36996 25 |  | Made in nonferrous wire drawing, etc. (industry 3357).....                     | (X)  | 22,187          | (X)      | 9,829           |
|                      | Made in electrical products, n.e.c. (industry 3699), and other industries..... | (X)  | 4,675  | (X)             | 1,096    |                 |
| 33576 29<br>36996 29 | Other appliance wire and cord.....   | (X)  | 24,276   | (X)             | 36,173   |                 |
| 33576 29<br>36996 29 |  | Made in nonferrous wire drawing, etc. (industry 3357).....                     | (X)  | 7,713           | (X)      | 11,481          |
|                      | Made in electrical products, n.e.c. (industry 3699), and other industries..... | (X)  | 16,563   | (X)             | 24,692   |                 |
| 33576 00<br>36996 00 | Appliance wire and cord and flexible cord sets, n.s.k.....                     | (X)  | 9,856  | (X)             | 7,192    |                 |
| 33576 00<br>33996 00 |  | Made in nonferrous wire drawing, etc. (industry 3357).....                     | (X)  | 5,459           | (X)      | 2,634           |
|                      | Made in electrical products, n.e.c. (industry 3699), and other industries..... | (X)  | 4,397  | (X)             | 4,558    |                 |
| 36990 00             | Electrical products, n.e.c., n.s.k.....  | (X)  | 10,942   | (X)             | 6,316    |                 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

- <sup>1</sup>For 1958, includes both wet and dry charge.
- <sup>2</sup>For 1958, includes \$180 thousand for which no quantity was reported.
- <sup>3</sup>For 1963, product codes 3691241 and 3691271 are included with product code 3691298.
- <sup>4</sup>For 1958, product codes 3691241 and 3691261 are included with product code 3691298.
- <sup>5</sup>For 1963, a large portion of this value represents work on fuel cells.
- <sup>6</sup>Codes 3692012 and 3692014 include data for codes 3692016 and 3692018 in 1958.
- <sup>7</sup>Codes 3692089 and 3692091 include data for codes 3692028, 3692029, 3692051, 3692053, and 3692072 through 3692088 in 1958.
- <sup>8</sup>Codes 3692072 through 3692081 include data for codes 3692041 through 3692053 in 1963.
- <sup>9</sup>Codes 3692041 and 3692043 include data for codes 3692045 and 3692047 in 1958.
- <sup>10</sup>Codes 3692069 and 3692071 include data for codes 3692061 and 3692063 in 1963.
- <sup>11</sup>Codes 3692089 and 3692091 include data for codes 3692083 through 3692088 in 1963.
- <sup>12</sup>Code 3693094 combined with code 3693096 to avoid disclosing figures of individual companies.
- <sup>13</sup>Product code 3694111 has been revised to exclude nonignition automotive wiring harness sets. Accordingly, the total for product class 36941 is not comparable with estimates published for 1959 to 1962 in the annual survey of manufactures. Also, see footnote 3 of table 1.
- <sup>14</sup>In 1958, automotive type ignition harness sets were included with "all other" (Census product code 3694119) to avoid disclosing operations of individual companies.
- <sup>15</sup>Other types of electric comfort heating equipment are included in industry 3634, Electric Housewares and Fans.
- <sup>16</sup>In 1958, product codes 3357613 and 3357615 were combined.
- <sup>17</sup>In 1958, product codes 3699613 and 3699615 were combined.

TABLE 6A-2. **Automotive Type Storage Batteries—Quantity and Value Shipped, by Class of Customer: 1963 and 1958**

(Product codes 3691112 to 3691128)

| Class of customer  | Total shipments including interplant transfers |                    |                           |                    |
|--|--|--------------------|---------------------------|--------------------|
|  | 1963   |                    | 1958                      |                    |
|  | Quantity<br>(1,000 units)                      | Value<br>(\$1,000) | Quantity<br>(1,000 units) | Value<br>(\$1,000) |
| Shipments by all manufacturing establishments, total.....                                    | 41,422   | 337,528            | 30,732                    | 254,662            |
| To the United States Government.....   | 485  | 6,241              | 647                       | 9,210              |
| To export customers (including shipments to company's foreign branches or subsidiaries)..... | 193  | 1,715              | 664                       | 4,548              |
| To domestic customers:   |  |                    |                           |                    |
| For original equipment purposes.....   | 9,070  | 75,009             | 5,631                     | 49,109             |
| For replacement purposes:  |  |                    |                           |                    |
| Manufacturer's proprietary brands:   |  |                    |                           |                    |
| To jobbers and distributors.....   | 12,387   | 111,532            | 9,914                     | 86,667             |
| To retail dealers.....   | 978  | 10,226             | 1,270                     | 14,228             |
| To other proprietary-brand customers.....  | 986  | 6,005              | 690                       | 4,066              |
| Private brands:  |  |                    |                           |                    |
| To oil companies.....  | 3,703  | 126,800            | 3,049                     | 86,834             |
| To tire companies.....   | 2,053  |                    | 2,183                     |                    |
| To mail-order and chain stores.....  | 7,735  |                    | 5,746                     |                    |
| To motor-vehicle manufacturers (replacement only).....                                       | 1,663  |                    | 368                       |                    |
| To other private-brand customers.....  | 2,169  |                    | 570                       |                    |

TABLE 6B. **Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958**

| Product code | Product and year   | Indexes (1954 = 100) |            |
|--------------|--|----------------------|------------|
|              |  | Production           | Unit value |
| 369--        | Electrical products, n.e.c.....1963..  | (1)                  | (1)        |
|              | .....1958..  | (1)                  | (1)        |
| 3691-        | Storage batteries <sup>2</sup> .....1963..                                     | 153                  | 92         |
|              | .....1958..  | 112                  | 96         |
| 36911        | Storage batteries, SLI type.....1963..   | 164                  | 85         |
|              | .....1958..  | 113                  | 95         |
| 3692-        | Primary batteries, dry and wet.....1963..                                      | 120                  | 135        |
|              | .....1958..  | 93                   | 123        |
| 3693-        | X-ray apparatus and tubes.....1963..   | (1)                  | (1)        |
|              | .....1958..  | (1)                  | (1)        |
| 3694--       | Electrical equipment for internal combustion engines <sup>3</sup> .....1963..  | 129                  | 123        |
|              | .....1958..  | 100                  | 107        |
| 36942        | Battery charging generators.....1963..   | 140                  | 126        |
|              | .....1958..  | 102                  | 97         |
| 36943        | Cranking motors.....1963..   | 126                  | 132        |
|              | .....1958..  | 89                   | 114        |
| 36945        | Other complete electrical equipment for internal combustion engines.....1963.. | 137                  | 112        |
|              | .....1958..  | 88                   | 108        |
| 3699-        | Electrical products, n.e.c.....1963..  | (1)                  | (1)        |
|              | .....1958..  | (1)                  | (1)        |

n.e.c. Not elsewhere classified.

<sup>1</sup>Not shown because comparable quantity data were not obtained for a significant portion of these products.<sup>2</sup>Adjusted to include product class 36912 (Storage batteries, other than SLI type).<sup>3</sup>Adjusted to include ignition harness and cable sets (product class 36941), spark plugs (product class 36944) and components and parts for engine electrical equipment (product class 36946).



TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments, 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class  | 1963                 | 1962 <sup>1</sup>   | 1961 <sup>1</sup>   | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958    | 1954    | 1947    |
|-------|--|----------------------|---------------------|---------------------|-------------------|-------------------|---------|---------|---------|
| 3691- | Storage batteries.....   | 504,492              | 436,646             | 406,911             | 404,862           | 401,483           | 361,489 | 336,118 | 293,358 |
| 36911 | Storage batteries, SLI type.....   | 360,885              | 318,066             | 298,255             | 298,990           | 310,007           | 278,960 | 258,840 | 249,328 |
| 36912 | Storage batteries, other than SLI types,<br>including parts for storage batteries..... | 139,095              | 115,854             | 106,071             | 101,650           | 87,909            | 78,511  | 77,278  | 44,030  |
| 36910 | Storage batteries, n.s.k.....  | 4,512                | (2,726)             | (2,585)             | (4,222)           | (3,567)           | 4,018   | (NA)    | (NA)    |
| 36920 | Primary batteries, dry and wet.....  | 191,624              | 197,066             | 171,341             | 153,320           | 157,787           | 135,679 | 117,926 | 78,094  |
| 36930 | X-ray equipment, including X-ray tubes, and<br>electrotherapeutic apparatus.....       | <sup>2</sup> 100,599 | <sup>2</sup> 81,435 | <sup>2</sup> 55,394 | 87,980            | 78,307            | 72,969  | 66,839  | 58,868  |
| 3694- | Engine electrical equipment.....   | 873,912              | 812,798             | 729,394             | 743,170           | 744,332           | 586,853 | 588,171 | (NA)    |
| 36941 | Ignition harness and cable sets.....   | 58,899               | 39,449              | 37,370              | 37,066            | 35,051            | 28,831  | 53,943  | (NA)    |
| 36942 | Battery charging generators.....   | 199,287              | 126,498             | 125,313             | 123,918           | 129,666           | 104,930 | 105,343 | 72,519  |
| 36943 | Cranking motors.....   | 134,672              | 119,110             | 99,086              | 113,940           | 111,726           | 82,332  | 80,701  | 47,496  |
| 36944 | Spark plugs.....   | 143,845              | 158,858             | 149,334             | 157,473           | 159,997           | 123,064 | 113,631 | 57,922  |
| 36945 | Other complete electrical equipment for<br>internal combustion engines.....            | 217,123              | 189,514             | 155,251             | 160,049           | 163,214           | 133,797 | 158,500 | 113,285 |
| 36946 | Components and parts for engine electrical<br>equipment.....                           | 114,726              | 148,518             | 131,412             | 129,402           | 130,601           | 103,325 | 76,053  | 70,929  |
| 36940 | Engine electrical equipment, n.s.k.....  | 5,360                | (30,851)            | (31,628)            | (21,322)          | (14,077)          | 10,574  | (NA)    | (NA)    |
| 3699- | Electrical products, n.e.c.....  | 335,524              | 309,320             | 292,912             | 244,294           | 286,759           | 249,231 | (NA)    | (NA)    |
| 36992 | Lamp bulb components (except glass blanks)<br>and other electrical products.....       | 156,918              | 142,169             | 133,462             | 119,198           | 125,108           | 115,846 | (NA)    | (NA)    |
| 36996 | Appliance wire and cord, and flexible cord<br>sets <sup>3</sup> .....                  | 167,664              | 159,215             | 146,659             | 90,129            | 149,809           | 127,069 | (NA)    | (NA)    |
| 36990 | Electrical products, n.e.c., n.s.k.....  | 10,942               | (7,936)             | (12,791)            | (34,967)          | (11,842)          | 6,316   | (NA)    | (NA)    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Source: Current Industrial Reports Series M36N, "Selected Electronics and Associated Products".

<sup>3</sup>Includes the total for product class 33576, appliance wire and cord and flexible cord sets, which is primary to industry 3357.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area   | Value of shipments |                  | Product class and geographic area   | Value of shipments      |                  | Product class and geographic area  | Value of shipments   |                  |
|---|--------------------|------------------|---|-------------------------|------------------|--|----------------------|------------------|
|   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>       | 1958             |  | 1963 <sup>1</sup>    | 1958             |
| STORAGE BATTERIES, SLI TYPE (36911)   |                    |                  | IGNITION HARNESS AND CABLE SETS (36941)                                     |                         |                  | COMPONENTS AND PARTS FOR ENGINE ELECTRICAL EQUIPMENT (36946)—Continued           |                      |                  |
| United States, total....  | 360,885            | 278,960          | United States, total....  | 58,899                  |                  | North Central.....   | 77,286               | ( <sup>2</sup> ) |
| New England.....  | 9,939              | 69,270           | New England.....  | 2,064                   |                  | Illinois.....  | 24,589               | 15,479           |
| Middle Atlantic.....  | 63,081             |                  | Middle Atlantic.....  | 9,181                   |                  | Michigan.....  | 4,982                | ( <sup>2</sup> ) |
| East North Central.....   | 112,382            | 79,675           | New York.....   | 7,026                   |                  | South and West.....  | 5,915                | ( <sup>2</sup> ) |
| Ohio.....   | 7,940              | 17,540           | North Central.....  | 45,233                  |                  |  |                      |                  |
| Indiana.....  | 57,400             | ( <sup>2</sup> ) | Illinois.....   | 2,512                   |                  | LAMP BULB COMPONENTS (EXCEPT GLASS BLANKS) AND OTHER ELECTRICAL PRODUCTS (36992) |                      |                  |
| Illinois.....   | 15,155             | 13,795           | Michigan.....   | 9,506                   |                  | United States, total...  | 156,918              | 115,846          |
| West North Central.....   | 35,340             | 27,864           | South and West.....   | 2,421                   |                  | New England.....   | 26,365               | 11,703           |
| Minnesota.....  | 7,832              | 6,588            |   |                         |                  | Connecticut.....   | 4,894                | ( <sup>2</sup> ) |
| South Atlantic.....   | 39,803             | ( <sup>2</sup> ) | BATTERY CHARGING GENERATORS (36942)   |                         |                  | Middle Atlantic.....   | 51,370               | 45,280           |
| Georgia.....  | 20,900             | 14,349           | United States, total...   | 199,287                 | 104,930          | New York.....  | 6,702                | 15,024           |
| Florida.....  | 4,898              | 3,517            | New England.....  | 2,369                   | 5,332            | New Jersey.....  | 25,224               | ( <sup>2</sup> ) |
| East South Central.....   | 17,281             | ( <sup>2</sup> ) | Middle Atlantic.....  | 16,046                  |                  | ( <sup>2</sup> )   | Pennsylvania.....    | 9,117            |
| Tennessee.....  | 9,600              | 7,607            | New York.....   | 6,388                   | ( <sup>2</sup> ) | East North Central.....  | 37,235               | 26,071           |
| West South Central.....   | 27,228             | ( <sup>2</sup> ) | East North Central.....   | 171,126                 | ( <sup>2</sup> ) | Ohio.....  | 25,171               | 20,816           |
| Mountain.....   | 6,458              | 45,246           | Illinois.....   | 1,713                   | 95,269           | Indiana.....   | 5,839                | ( <sup>2</sup> ) |
| Pacific.....  | 49,373             |                  | 35,808  | West North Central..... |                  | 1,586  |                      | Illinois.....    |
| California.....   | 43,752             |                  | South.....  | 5,807                   | 4,329            | Michigan.....  | 3,126                | 1,374            |
| STORAGE BATTERIES, OTHER THAN SLI TYPE, INCLUDING PARTS FOR STORAGE BATTERIES (36912) |                    |                  | West.....   | 2,353                   |                  | ( <sup>2</sup> )   | Wisconsin.....       | 1,057            |
| United States, total....  | 139,095            | 78,511           | California.....   | 2,029                   |                  | West North Central.....  | 7,403                | 32,792           |
| New England.....  | 16,829             | 45,130           | SPARK PLUGS (36944)   |                         |                  | Minnesota.....   | 3,017                |                  |
| Middle Atlantic.....  | 68,177             |                  | ( <sup>2</sup> )  | United States, total... | 143,845          |  | South and West.....  | 34,545           |
| New Jersey.....   | 21,453             |                  | East North Central.....   | 119,502                 |                  | APPLIANCE WIRE AND CORD, AND FLEXIBLE CORD SETS (33576 and 36996)                |                      |                  |
| North Central.....  | 46,546             | 29,367           | All other divisions.....  | 24,343                  |                  | United States, total...  | 167,664              | 127,069          |
| Illinois.....   | 20,358             | ( <sup>2</sup> ) | OTHER COMPLETE ELECTRICAL EQUIPMENT FOR INTERNAL COMBUSTION ENGINES (36945) |                         |                  | New England.....   | 73,941               | 56,343           |
| South.....  | 3,973              | 1,151            | United States, total...   | 217,123                 | 133,797          | Massachusetts.....   | 26,255               | ( <sup>2</sup> ) |
| West.....   | 3,570              | 2,863            | New England.....  | 17,806                  | 47,110           | Rhode Island.....  | 29,082               | 26,278           |
| X-RAY EQUIPMENT, INCLUDING X-RAY TUBES, AND ELECTROTHERAPEUTIC APPARATUS (36930)      |                    |                  | Middle Atlantic.....  | 34,628                  |                  | ( <sup>2</sup> )   | Middle Atlantic..... | 30,874           |
| United States, total....  | 108,577            | 72,969           | New York.....   | 28,125                  | 16,845           | New York.....  | 20,728               | 17,117           |
| New England.....  | 19,203             | ( <sup>2</sup> ) | North Central.....  | 147,594                 | ( <sup>2</sup> ) | New Jersey.....  | 4,797                | 4,011            |
| Middle Atlantic.....  | 14,495             | 13,286           | Illinois.....   | 6,944                   | 5,362            | Pennsylvania.....  | 5,349                | 1,864            |
| New York.....   | 10,540             | 7,241            | Michigan.....   | 26,519                  | 13,283           | East North Central.....  | 51,419               | 30,237           |
| North Central.....  | 59,742             | ( <sup>2</sup> ) | South and West.....   | 17,095                  | ( <sup>2</sup> ) | Indiana.....   | 17,756               | 8,804            |
| Illinois.....   | 10,376             | 8,557            | COMPONENTS AND PARTS FOR ENGINE ELECTRICAL EQUIPMENT (36946)                |                         |                  | Illinois.....  | 12,748               | 11,627           |
| South.....  | 9,289              | ( <sup>2</sup> ) | United States, total...   | 114,726                 | 103,325          | Michigan.....  | 10,993               | ( <sup>2</sup> ) |
| Pacific.....  | 5,848              | ( <sup>2</sup> ) | New England.....  | 9,517                   | 29,500           | West North Central.....  | 3,651                | 3,223            |
|   |                    |                  | Middle Atlantic.....  | 22,008                  |                  | ( <sup>2</sup> )   | South.....           | 1,308            |
|   |                    |                  | New York.....   | 17,230                  | 19,090           | Pacific.....   | 6,471                | 12,716           |
|   |                    |                  |   |                         |                  | California.....  | 6,471                | 12,716           |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 36911, Massachusetts, Connecticut, New Jersey, Pennsylvania, Michigan, Wisconsin, Missouri, Nebraska, Kansas, Delaware, Virginia, North Carolina, Kentucky, Mississippi, Oklahoma, Texas, Colorado, and Oregon; 36912, Massachusetts, Connecticut, New York, Pennsylvania, Indiana, Minnesota, Missouri, North Carolina, Florida, and California; 36930, Massachusetts, Connecticut, New Jersey, Pennsylvania, Ohio, Wisconsin, Minnesota, Maryland, Florida, and California; 36941, Rhode Island, Pennsylvania, Ohio, Indiana, Missouri, and California; 36942, Connecticut, New Jersey, Ohio, Indiana, Michigan, Wisconsin, and Alabama; 36944, New Jersey, Pennsylvania, Ohio, Michigan, Iowa, and Alabama; 36945, Massachusetts, Connecticut, Pennsylvania, Ohio, Indiana, Wisconsin, Kentucky, Alabama, Mississippi, Texas, and California; 36946, Massachusetts, Connecticut, New Jersey, Ohio, Indiana, Wisconsin, Missouri, Kentucky, and Arizona; 36992, Maine, Massachusetts, Rhode Island, Missouri, North Carolina, Florida, Texas, and California; 33576 and 36996, Connecticut, Ohio, and Missouri.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code  | Material  | Unit of measure            | 1963     |                          | 1958     |                          |
|---|---|----------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                            | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3691.—STORAGE BATTERIES              |   |                            |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....  |                            | (X)      | 264,197                  | (X)      | 202,082                  |
|   | Lead:   |                            |          |                          |          |                          |
| 333233  | Refined unalloyed lead.....   | Short tons.....            | 119,827  | 26,109                   | 83,065   | 20,671                   |
| 333234  | Antimonial lead.....  | ..do.....                  | 223,146  | 57,063                   | 169,743  | 50,679                   |
| 281634  | Litharage.....  | ..do.....                  | 87,706   | 20,959                   | 95,204   | 24,720                   |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                     |                            | (X)      | 129,291                  | (X)      | 98,725                   |
| 976000  | Materials, parts, containers, and supplies, n.s.k.....  |                            | (X)      | 30,775                   | (X)      | 7,287                    |
| INDUSTRY 3692.—PRIMARY BATTERIES, DRY AND WET |   |                            |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....  |                            | (X)      | 69,928                   | (X)      | 54,987                   |
| 335607  | Zinc and zinc-base alloy mill shapes and forms.....   | Short tons.....            | 116,178  | 6,610                    | 13,252   | 3,765                    |
| 362406  | Carbon and graphite electrodes and other carbon and graphite products for electrical use.....         |                            | (X)      | 2,467                    | (X)      | 3,328                    |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                     |                            | (X)      | 60,090                   | (X)      | 45,003                   |
| 976000  | Materials, parts, containers, and supplies, n.s.k. <sup>1</sup> .....                                 |                            | (X)      | 761                      | (X)      | 2,891                    |
| INDUSTRY 3694.—ENGINE ELECTRICAL EQUIPMENT    |   |                            |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....  |                            | (X)      | 356,386                  | (X)      | 220,373                  |
|   | Mill shapes and forms:(except castings):  |                            |          |                          |          |                          |
|   | Carbon steel:   |                            |          |                          |          |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....            | 118,289  | 24,671                   | 105,136  | 18,063                   |
| 331012  | Sheet and strip.....  | ..do.....                  | 116,554  | 17,599                   | 100,131  | 14,001                   |
| 331017  | Wire and wire products.....   | ..do.....                  | 11,614   | 6,905                    | 16,334   | 3,873                    |
| 331013  | Plates.....   | ..do.....                  |          |                          |          |                          |
| 331019  | All other carbon steel mill shapes and forms.....   | ..do.....                  | 17,318   | 3,577                    | 22,137   | 4,032                    |
| 331020  | Alloy steel (except stainless).....   | ..do.....                  | 1,701    | 509                      | 3,852    | 1,460                    |
| 331031  | Stainless steel.....  | ..do.....                  | 337      | 422                      | 746      | 980                      |
|   | Copper and copper-base alloy:   |                            |          |                          |          |                          |
| 335728  | Bare wire for electrical conduction only.....   | 1,000 lbs.....             | 39,200   | 19,594                   | 21,921   | 10,882                   |
| 335790  | Insulated wire and cable.....   | 1,000 lbs. copper content. | 30,537   | 16,090                   | 44,523   | 21,196                   |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.....             | 22,402   | 8,318                    |          |                          |
| 335123  | Plate, sheet, and strip, including military cups and discs.....                                       | ..do.....                  | 8,590    | 4,280                    | 14,009   | 6,578                    |
| 335127  | Pipe and tube.....  | ..do.....                  | 88       | 56                       |          |                          |
|   | Aluminum and aluminum-base alloy:   |                            |          |                          |          |                          |
| 335202  | Sheet, plate, and foil.....   | ..do.....                  | 1,170    | 1,053                    | 543      | 499                      |
| 335205  | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                                       | ..do.....                  | 631      | 478                      |          |                          |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                  | 781      | 570                      | 2,499    | 1,428                    |
|   | Primary metals:   |                            |          |                          |          |                          |
| 331051  | Pig iron.....   | Short tons.....            | (D)      | (D)                      | (NA)     | (NA)                     |
| 333401  | Aluminum and aluminum-base alloy refinery shapes.....   | ..do.....                  | (D)      | (D)                      | 2,580    | 1,084                    |
|   | Castings (rough and semifinished): <sup>2</sup>   |                            |          |                          |          |                          |
| 332011  | Iron (gray and malleable).....  | ..do.....                  | 15,646   | 5,454                    | 11,601   | 2,999                    |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....             | 10,122   | 5,160                    | 1,225    | 1,329                    |
| 336200  | Copper and copper-base alloy.....   | ..do.....                  | 493      | 280                      | 254      | 193                      |
|   | Bearings:   |                            |          |                          |          |                          |
| 356218  | Ball.....   |                            |          |                          |          |                          |
| 356228  | Roller.....   |                            | (X)      | 8,646                    | (X)      | 6,069                    |
| 970099  | All other materials and components, parts, containers and supplies consumed.....                      |                            | (X)      | 225,597                  | (X)      | 116,994                  |
| 976000  | Materials, parts, containers, and supplies, n.s.k.....  |                            | (X)      | 7,127                    | (X)      | 8,713                    |
| INDUSTRY 3699.—ELECTRICAL PRODUCTS, N.E.C.    |   |                            |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....  |                            | (X)      | 83,253                   | (NA)     | (NA)                     |
|   | Mill shapes and forms (except castings):  |                            |          |                          |          |                          |
| 331001  | Carbon steel.....   | Short tons.....            | 2,798    | 944                      | (NA)     | (NA)                     |
| 331020  | Alloy steel (except stainless).....   | ..do.....                  | 931      | 566                      | (NA)     | (NA)                     |
| 331031  | Stainless steel.....  | ..do.....                  | 488      | 454                      | (NA)     | (NA)                     |
| 335208  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....             | (D)      | (D)                      | (NA)     | (NA)                     |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | Unit of measure | 1963         |                          | 1958     |                          |
|--|---|-----------------|--------------|--------------------------|----------|--------------------------|
|  |   |                 | Quantity     | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3699.—ELECTRICAL PRODUCTS, N.E.C.—Continued |   |                 |              |                          |          |                          |
| Mill shapes and forms (except castings)—Continued    |   |                 |              |                          |          |                          |
| 335728   | Copper and copper-base alloy:<br>Bare wire (for electrical conduction only).....  | 1,000 lbs.      | 459          | 892                      | (NA)     | (NA)                     |
| 335790   | Insulated wire and cable.....   | 1,000 lbs.      |              |                          | (NA)     | (NA)                     |
| 335100   | Brass mill shapes (rod, sheet, bar, etc.).....                                    | 1,000 lbs.....  | 14,056       | 13,337                   | (NA)     | (NA)                     |
| 367010   | Electron tubes, except X-ray.....   | .....           | 6,950<br>(D) | 3,065<br>(D)             | (NA)     | (NA)                     |
| 367408   | Solid state semiconductors <sup>2</sup> .....                                     | ...do.....      | 1,655        | 1,286                    | (NA)     | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed..... | .....           | (X)          | 45,462                   | (NA)     | (NA)                     |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>1</sup> .....             | .....           | (X)          | 17,247                   | (NA)     | (NA)                     |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup> Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

<sup>2</sup> Does not include quantities produced and consumed in the same establishment.



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item   | Storage batteries<br>(SIC 3691) | Primary batteries,<br>wet and dry<br>(SIC 3692) | X-ray apparatus<br>and tubes<br>(SIC 3693) | Engine electrical<br>equipment<br>(SIC 3694) | Electrical<br>products, n.e.c.<br>(SIC 3699) |
|--|---------------------------------|---|--|--|--|
| Total cost of purchased fuels and electric energy.....\$1,000..  | 7,143                           | 1,273   | 675  | 6,082  | 1,704  |
| Total cost of purchased fuels.....do....   | 2,302                           | 505   | 181  | 2,262  | 589  |
| Bituminous coal, lignite, and anthracite:  |                                 |   |  |  |  |
| Quantity.....1,000 short tons..  | 12                              | 18  | (S)  | 100  | (S)  |
| Cost.....\$1,000..   | 92                              | 180   | (S)  | 754  | (S)  |
| Coke and breeze:   |                                 |   |  |  |  |
| Quantity.....1,000 short tons..  | (S)                             | -   | -  | -  | -  |
| Cost.....\$1,000..   | (S)                             | -   | -  | -  | -  |
| Fuel oil (distillate and residual):  |                                 |   |  |  |  |
| Quantity.....1,000 barrels of 42 gallons..   | 170                             | 13  | (S)  | 77   | 57   |
| Cost.....\$1,000..   | 496                             | 57  | (S)  | 265  | 221  |
| Gas (natural, manufactured, still, blast furnace,<br>and coke oven):   |                                 |   |  |  |  |
| Quantity.....million cu.ft..   | 1,799                           | 377   | 58   | 2,096  | 410  |
| Cost.....\$1,000..   | 1,025                           | 235   | 49   | 1,217  | 239  |
| Other fuels.....do....   | 642                             | (S)   | 52   | (S)  | 114  |
| Electric energy:   |                                 |   |  |  |  |
| Purchased:   |                                 |   |  |  |  |
| Quantity.....million kw.-hrs..   | 413                             | 57  | 30   | 345  | 68   |
| Cost.....\$1,000..   | 4,841                           | 768   | 494  | 3,820  | 1,115  |
| Generated less sold.....million kw.-hrs..  | (S)                             | -   | -  | (S)  | -  |
| Aggregate horsepower of prime movers and electric motors<br>driven by purchased energy (December 31), total.....1,000 hp.. | 97                              | 19  | 15   | 173  | 30   |
| Prime movers, total.....do....   | 17                              | (Z)   | (Z)  | 15   | 1  |
| Driving generators.....do....  | 6                               | (Z)   | (Z)  | 5  | (Z)  |
| Not driving generators.....do....  | 11                              | (Z)   | (Z)  | 10   | 1  |
| Electric motors, total.....do....  | 81                              | 18  | 15   | 166  | 28   |
| Driven by purchased energy.....do....  | 80                              | 18  | 15   | 158  | 28   |
| Driven by energy generated at establishment.....do....   | 1                               | -   | -  | 9  | -  |
| Aggregate horsepower per 100 production workers.....   | 774                             | 302   | 393  | 452  | 341  |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3691-                          | STORAGE BATTERIES   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 252                     | 17,512         | 108,700           | 13,871             | 28,444            | 80,237          | 244,152  | 275,629                     | 516,457                      | 11,968                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 241                     | 16,832         | 105,889           | 13,310             | 27,397            | 78,089          | 236,885  | 266,897                     | 501,230                      | 11,606                              |
| 36911                          | Storage batteries, SLI type (primary product class of estab.)   | 176                     | 11,305         | 72,589            | 9,396              | 19,637            | 57,473          | 168,508  | 205,351                     | 372,556                      | 7,072                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 163                     | 9,960          | 64,641            | 8,332              | 17,630            | 51,950          | 154,921  | 183,312                     | 337,106                      | 6,590                               |
|                                | 75-89% specialization.....  | 9                       | 1,074          | 6,512             | 864                | 1,570             | 4,545           | 10,982   | 16,940                      | 27,797                       | 387                                 |
| 36912                          | Storage batteries, other than SLI type, including parts for storage batteries (primary product class of estab.).....          | 38                      | 6,053          | 35,363            | 4,354              | 8,534             | 22,211          | 73,702   | 68,301                      | 139,962                      | 4,610                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 27                      | 5,465          | 33,117            | 3,842              | 7,623             | 20,398          | 66,054   | 60,855                      | 125,661                      | 4,427                               |
| 3693-                          | X-RAY APPARATUS AND TUBES   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 58                      | 6,236          | 43,796            | 3,430              | 6,921             | 20,124          | 86,534   | 56,916                      | 143,706                      | 2,132                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 44                      | 2,577          | 16,093            | 1,748              | 3,432             | 8,790           | 33,117   | 21,292                      | 54,546                       | 1,212                               |
| 3694-                          | ENGINE ELECTRICAL EQUIPMENT   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 182                     | 40,559         | 250,202           | 32,697             | 66,903            | 184,438         | 496,662  | 398,039                     | 900,663                      | 15,490                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 147                     | 28,382         | 182,179           | 23,057             | 47,772            | 135,348         | 359,173  | 248,377                     | 610,724                      | 11,843                              |
|                                | 75-89% specialization.....  | 10                      | 2,377          | 11,216            | 1,729              | 3,115             | 6,383           | 26,552   | 27,025                      | 52,805                       | 465                                 |
| 36941                          | Ignition harness and cable sets (primary product class of estab.)   | 25                      | 1,764          | 7,123             | 1,421              | 2,814             | 4,854           | 11,056   | 22,130                      | 34,637                       | 395                                 |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 17                      | 758            | 3,033             | 583                | 1,144             | 1,837           | 3,931  | 7,771                       | 12,932                       | 331                                 |
| 36945                          | Other complete electrical equipment for internal combustion engines (primary product class of estab.).....                    | 34                      | 6,648          | 30,170            | 5,315              | 10,777            | 20,962          | 55,593   | 45,927                      | 101,941                      | 1,432                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 23                      | 3,577          | 14,975            | 2,922              | 5,969             | 10,868          | 30,387   | 24,890                      | 55,091                       | 968                                 |
| 36946                          | Components and parts for engine electrical equipment (primary product class of estab.).....                                   | 25                      | 6,125          | 29,996            | 4,481              | 8,536             | 18,068          | 62,635   | 48,758                      | 113,776                      | 2,615                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 8                       | 538            | 2,363             | 436                | 834               | 1,636           | 6,509  | 3,922                       | 9,993                        | 738                                 |
|                                | 75-89% specialization.....  | 5                       | 701            | 3,129             | 636                | 1,244             | 2,347           | 8,142  | 12,621                      | 20,125                       | 285                                 |
| 3699                           | ELECTRICAL PRODUCTS, N.E.C.   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 350                     | 10,923         | 51,215            | 8,492              | 16,496            | 33,355          | 101,221  | 88,970                      | 190,038                      | 3,271                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 317                     | 7,822          | 36,872            | 6,010              | 11,676            | 23,301          | 70,401   | 64,432                      | 135,921                      | 2,532                               |
|                                | 75-89% specialization.....  | 11                      | 1,384          | 5,820             | 1,188              | 2,339             | 4,400           | 11,376   | 10,741                      | 21,748                       | 229                                 |
| 36992                          | Lamp bulb components (except glass blanks) and electrical products (primary product class of estab.)                          | 87                      | 6,196          | 31,677            | 4,600              | 8,974             | 20,003          | 63,782   | 51,234                      | 114,889                      | 2,510                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 71                      | 4,326          | 22,236            | 3,106              | 6,081             | 13,038          | 43,089   | 35,931                      | 79,720                       | 1,950                               |
| 36996                          | Appliance wire and cord, and flexible cord sets (manufactured from purchased materials)(primary product class of estab.)..... | 59                      | 3,850          | 15,687            | 3,173              | 6,135             | 10,536          | 29,823   | 31,274                      | 60,827                       | 602                                 |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 43                      | 2,383          | 9,566             | 1,999              | 3,842             | 6,612           | 16,184   | 18,502                      | 34,764                       | 390                                 |
|                                | 75-89% specialization.....  | 11                      | 817            | 3,425             | 665                | 1,362             | 2,390           | 5,806  | 6,101                       | 11,462                       | 101                                 |

n.e.c. Not elsewhere classified.



TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations                           | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|---|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|   | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|   |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3691.—STORAGE BATTERIES                  |                          |   |         |            |                                       |   |         |            |
| Nonferrous foundry (except die casting).....      | 9                        | 7   | 1       | 1          | 59                                    | (D)                                       | (D)     | (D)        |
| Nonferrous die casting.....                       | 15                       | 11  | 4       | -          | 43                                    | 13  | 30      | -          |
| Heat treating of metals.....                      | 2                        | 2   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Machine shop.....                                 | 18                       | 6   | 8       | 4          | 236                                   | 14  | 76      | 146        |
| Tool and die shop.....                            | 3                        | 2   | 1       | -          | (D)                                   | (D)                                       | (D)     | -          |
| Stamping, blanking and forming of metals.....     | 5                        | 4   | 1       | -          | 23                                    | (D)                                       | (D)     | -          |
| Painting, lacquering and enameling on metals..... | 10                       | 10  | -       | -          | 14                                    | 14  | -       | -          |
| INDUSTRY 3692.—PRIMARY BATTERIES, DRY AND WET     |                          |   |         |            |                                       |   |         |            |
| Nonferrous foundry (except die casting).....      | 1                        | -   | 1       | -          | (D)                                   | -   | (D)     | -          |
| Heat treating of metals.....                      | 1                        | -   | 1       | -          | (D)                                   | -   | (D)     | -          |
| Machine shop.....                                 | 4                        | 4   | -       | -          | 9                                     | 9   | -       | -          |
| Tool and die shop.....                            | 4                        | -   | 4       | -          | 33                                    | -   | 33      | -          |
| Stamping, blanking and forming of metals.....     | 11                       | 6   | 5       | -          | 63                                    | 13  | 50      | -          |
| Painting, lacquering and enameling on metals..... | 2                        | 2   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| INDUSTRY 3693.—X-RAY APPARATUS AND TUBES          |                          |   |         |            |                                       |   |         |            |
| Machine shop.....                                 | 30                       | 13  | 9       | 8          | 485                                   | 23  | 94      | 368        |
| Tool and die shop.....                            | 11                       | 7   | 2       | 2          | 75                                    | 11  | (D)     | (D)        |
| Plate or structural fabrication.....              | 4                        | 2   | -       | 2          | (D)                                   | (D)                                       | -       | (D)        |
| Stamping, blanking and forming of metals.....     | 18                       | 8   | 5       | 5          | 241                                   | 14  | 39      | 188        |
| Painting, lacquering and enameling on metals..... | 20                       | 14  | 3       | 3          | 161                                   | 28  | 43      | 90         |
| INDUSTRY 3694.—ENGINE ELECTRICAL EQUIPMENT        |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....                              | 2                        | 1   | -       | 1          | (D)                                   | (D)                                       | -       | (D)        |
| Nonferrous die casting.....                       | 7                        | -   | 4       | 3          | 198                                   | -   | 47      | 151        |
| Electroplating and other plating.....             | 19                       | 11  | 7       | 1          | 136                                   | 24  | (D)     | (D)        |
| Galvanizing and other hot dip coating.....        | 6                        | 5   | -       | 1          | 30                                    | (D)                                       | -       | (D)        |
| Heat treating of metals.....                      | 14                       | 6   | 6       | 2          | 143                                   | (D)                                       | 58      | (D)        |
| Automatic screw machine department.....           | 26                       | 10  | 9       | 7          | 618                                   | 23  | 84      | 511        |
| Machine shop.....                                 | 41                       | 16  | 12      | 13         | 907                                   | 31  | 120     | 756        |
| Tool and die shop.....                            | 40                       | 14  | 17      | 9          | 1,554                                 | 28  | 144     | 1,382      |
| Stamping, blanking and forming of metals.....     | 40                       | 15  | 16      | 9          | 1,509                                 | 28  | 138     | 1,343      |
| Painting, lacquering and enameling on metals..... | 31                       | 28  | 2       | 1          | 86                                    | 48  | (D)     | (D)        |
| INDUSTRY 3699.—ELECTRICAL PRODUCTS, N.E.C.        |                          |   |         |            |                                       |   |         |            |
| Machine shop.....                                 | 29                       | 16  | 10      | 3          | 208                                   | 29  | 94      | 85         |
| Stamping, blanking and forming of metals.....     | 23                       | 10  | 8       | 5          | 401                                   | 13  | 92      | 296        |
| Painting, lacquering and enameling on metals..... | 22                       | 16  | 5       | 1          | 98                                    | 28  | (D)     | (D)        |

Note: Very small establishments were not requested to report their metalworking operations and, in some instances, a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production-worker employment on the last line of the table below:

| Item  | Industry |       |       |       |       |
|---|----------|-------|-------|-------|-------|
|   | 3691     | 3692  | 3693  | 3694  | 3699  |
| Total number of establishments in the industry.....   | 252      | 46    | 58    | 182   | 350   |
| Number of establishments which reported one or more of the specified operations.....                              | 43       | 17    | 32    | 72    | 45    |
| Percent of industry production workers in these establishments.....   | 40-45    | 45-50 | 85-90 | 85-90 | 45-50 |
| Number of establishments which reported "none" of the operations apply.....                                       | 75       | 18    | 6     | 36    | 66    |
| Percent of industry production workers in these establishments.....   | 25-30    | 35-40 | 0-5   | 0-5   | 30-35 |
| Percent of industry production workers in establishments which completed the metalworking operations inquiry..... | 65-70    | 85-90 | 90-95 | 90-95 | 75-80 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishment.





## Transportation Equipment

- 37A Motor vehicles and equipment
- 37B Aircraft and parts
- 37C Ship and boat building, railroad and miscellaneous transportation equipment

This major group covers establishments primarily engaged in manufacturing equipment for transportation of passengers and cargo by land, air, and water. Important products produced by establishments classified in this major group include motor vehicles, aircraft, ships, boats, railroad equipment, and miscellaneous transportation equipment such as motorcycles, bicycles, etc.

The Standard Industrial Classification System (1957 edition) includes, in Industry Group 372, guided missile components, not elsewhere classified, and receipts from research and development on aircraft parts, guided missile components, not elsewhere classified, and airplane and missile engines.

Certain products which are sometimes associated with or considered a part of transportation

equipment are classified in other major groups in the Standard Industrial Classification System. For example, wheeltypes tractors, track-laying tractors, mining cars, and industrial trucks, tractors, trailers, and stackers are in Major Group 35; and ignition systems and storage batteries, in Major Group 36.

Railroad shops are not classified as manufacturing by the Standard Industrial Classification System and, therefore, such activities are not included in employment and other establishment totals for Major Group 37 or Industry Group 374. However, such shops were requested to report the quantity and value of locomotives and railroad cars built or rebuilt. Data on railroad cars built or rebuilt in railroad shops are included only in table 6A-2 for Industry 3742.

# TRANSPORTATION EQUIPMENT: MAJOR GROUP 37

Value Added by Manufacture by State: 1963

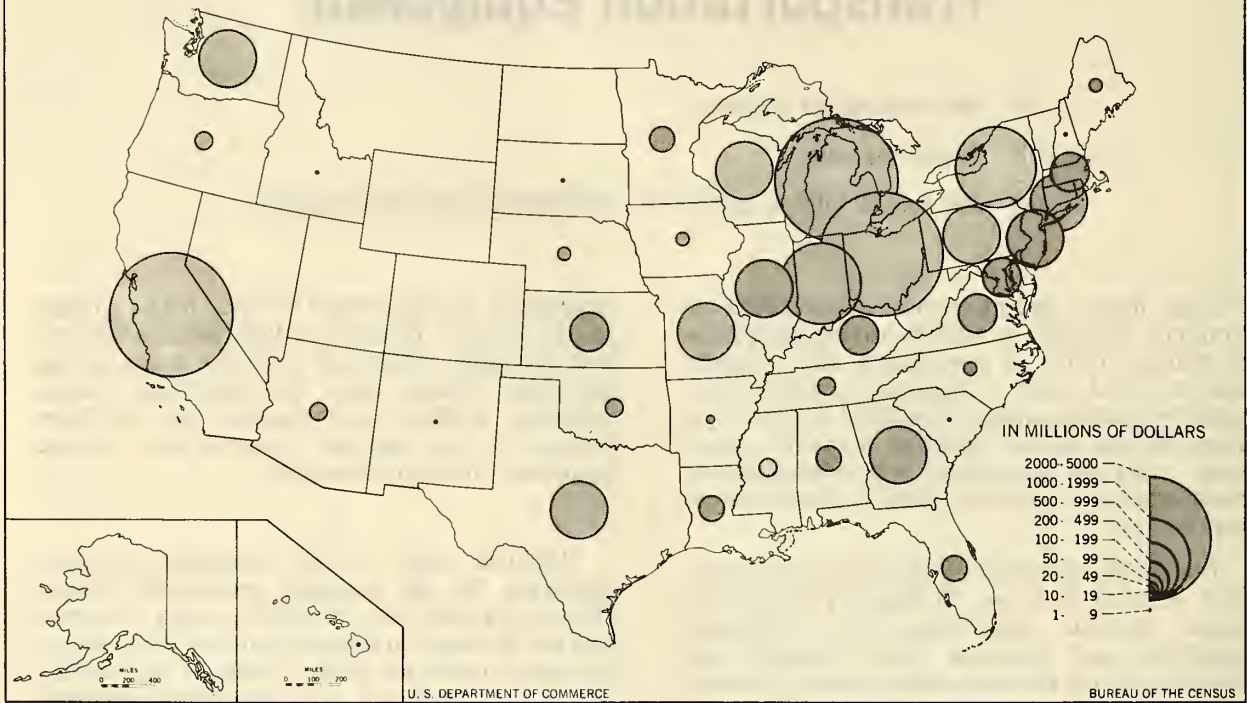




TABLE 1. General Statistics: 1963 and Earlier Years

| Year and item                                   | Establishments |                                    | All employees <sup>1</sup> |                   | Production workers |                   |                 | Value added by manufacture, adjusted <sup>2</sup> | Cost of materials <sup>3</sup> | Value of shipments <sup>3</sup> | Capital expenditures, new <sup>4</sup> |
|---|----------------|------------------------------------|----------------------------|-------------------|--------------------|-------------------|-----------------|---|--------------------------------|---------------------------------|--|
|   | Total (number) | With 20 employees or more (number) | Total (number)             | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |   |                                |                                 |  |
| <b>ALL MANUFACTURING ESTABLISHMENTS, TOTAL:</b> |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963  | 7 410          | 3 022                              | 1 689 737                  | 12 735 609        | 1 150 092          | 2 450 150         | 7 731 192       | 22 765 674  | 32 725 442                     | 55 428 194                      | 1 022 004                              |
| 1958  | 6 810          | 2 788                              | 1 641 960                  | 9 793 175         | 1 138 559          | 2 274 891         | 6 037 341       | 15 315 289  | (NA)                           | 3 829 901                       | 629 621                                |
| 1954  | (NA)           | (NA)                               | 1 765 891                  | 8 697 898         | 1 327 772          | 2 710 939         | 6 006 009       | 13 428 014  | (NA)                           | (NA)                            | 924 898                                |
| <b>ADMINISTRATIVE AND AUXILIARY UNITS:</b>      |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963  | 214            | 154                                | 88 579                     | 877 369           | (X)                | (X)               | (X)             | (X)   | (X)                            | (X)                             | (X)                                    |
| 1958  | 176            | 114                                | 79 431                     | 607 479           | (X)                | (X)               | (X)             | (X)   | (X)                            | (X)                             | (X)                                    |
| 1954  | (NA)           | (NA)                               | 60 390                     | 397 795           | (X)                | (X)               | (X)             | (X)   | (X)                            | (X)                             | (X)                                    |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963  | 7 196          | 2 868                              | 1 601 158                  | 11 858 240        | 1 150 092          | 2 450 150         | 7 731 192       | 22 765 674  | 32 725 442                     | 55 428 194                      | 1 022 004                              |
| 1958  | 6 634          | 2 674                              | 1 562 429                  | 9 185 696         | 1 138 559          | 2 274 891         | 6 037 341       | 15 315 289  | (NA)                           | 3 829 901                       | 629 621                                |
| 1954  | 5 349          | 2 318                              | 1 705 501                  | 8 300 103         | 1 327 772          | 2 710 939         | 6 006 009       | 13 428 014  | (NA)                           | (NA)                            | 924 898                                |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1962  | (NA)           | (NA)                               | 1 600 670                  | 11 333 596        | 1 128 764          | 2 367 196         | 7 169 035       | 20 871 844  | 30 621 992                     | 51 341 608                      | 956 300                                |
| 1961  | (NA)           | (NA)                               | 1 505 454                  | 10 112 640        | 1 055 777          | 2 156 737         | 6 313 391       | 17 432 501  | 26 042 266                     | 43 549 317                      | 720 132                                |
| 1960  | (NA)           | (NA)                               | 1 592 591                  | 10 360 424        | 1 160 697          | 2 392 942         | 6 841 476       | 18 368 472  | (NA)                           | (NA)                            | 730 913                                |
| 1959  | (NA)           | (NA)                               | 1 615 442                  | 10 254 416        | 1 172 093          | 2 453 835         | 6 696 070       | 18 084 188  | (NA)                           | (NA)                            | 723 111                                |
| 1957  | (NA)           | (NA)                               | 1 901 248                  | 10 490 748        | 1 402 026          | 2 845 103         | 7 177 630       | 18 491 708  | (NA)                           | (NA)                            | 1 142 383                              |
| 1956  | (NA)           | (NA)                               | 1 792 676                  | 9 706 567         | 1 357 987          | 2 793 344         | 6 743 150       | 16 633 346  | (NA)                           | (NA)                            | 1 437 361                              |
| 1955  | (NA)           | (NA)                               | 1 812 629                  | 9 407 064         | 1 417 730          | 2 958 874         | 6 842 467       | 17 070 861  | (NA)                           | (NA)                            | 848 832                                |
| 1953  | (NA)           | (NA)                               | 1 911 706                  | 8 986 838         | 1 529 924          | 3 154 956         | 6 731 078       | 14 534 323  | (NA)                           | (NA)                            | 709 592                                |
| 1952  | (NA)           | (NA)                               | 1 650 203                  | 7 423 348         | 1 317 374          | 2 749 640         | 5 585 444       | 12 042 185  | (NA)                           | (NA)                            | (NA)                                   |
| 1951  | 3 393          | (NA)                               | 1 468 509                  | 6 066 748         | 1 199 628          | 2 448 100         | 4 672 343       | 9 788 928   | (NA)                           | (NA)                            | 599 519                                |
| 1950  | 2 780          | (NA)                               | 1 218 417                  | 4 679 459         | 1 005 883          | 2 060 313         | 3 656 460       | 4 546 828   | (NA)                           | (NA)                            | 343 428                                |
| 1949  | (NA)           | (NA)                               | 1 139 983                  | 4 098 421         | 935 611            | 1 873 124         | 3 163 348       | 7 054 449   | (NA)                           | (NA)                            | 263 712                                |
| 1947  | 3 703          | (NA)                               | 1 174 498                  | 3 694 932         | 981 103            | 1 961 398         | 2 920 813       | 5 841 722   | (NA)                           | (NA)                            | 354 974                                |
| 1939  | 2 012          | (NA)                               | (NA)                       | (NA)              | 544 553            | (NA)              | 867 024         | 1 772 573   | (NA)                           | (NA)                            | (NA)                                   |
| 1937  | 1 958          | (NA)                               | (NA)                       | (NA)              | 662 218            | (NA)              | 1 028 650       | 1 986 497   | (NA)                           | (NA)                            | (NA)                                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The figures for 1939 through 1963 include data for employees of manufacturing establishments who are engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>2</sup>For the period 1954 to 1963, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture."

<sup>3</sup>The total value of shipments and cost of materials for industry groups (2- and 3-digit) includes extensive duplication arising from shipments between establishments in the same industry classification. For a more complete explanation, see Introduction.

<sup>4</sup>The figures for 1958 to 1963 include expenditures for plants under construction and not yet in operation.

<sup>5</sup>In addition to data for operating establishments, figures for employment and payroll for manufacturing central administrative offices and auxiliary units are shown for the

years 1949 to 1953 in the annual survey of manufactures volumes. Data for these units are not available for the years 1955 to 1957, 1959 to 1962, or prior to 1949.

<sup>6</sup>Figures for 1958 to 1963 for operating manufacturing establishments are not strictly comparable with prior years due to revisions of the Standard Industrial Classification System. Prior to 1958, establishments primarily engaged in the manufacture of truck and bus bearings, convertible tops for automobiles, rebuilt automotive parts, and aircraft and related engine and power take-off gears, were excluded from these data. Establishments primarily engaged in the manufacture of parachutes are included in data prior to 1958.

<sup>7</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>8</sup>The figures for 1939, but not for 1937, have been revised for comparability with the figures for later years. The principal revision is the exclusion of data for railroad repair shops reclassified as nonmanufacturing establishments. Value added by manufacture for 1939 on a basis strictly comparable with 1937 was \$1,794 million.

<sup>9</sup>The figures for 1935 and earlier years are not sufficiently comparable with those for later years to be shown in this table because the earlier figures exclude data for establishments primarily engaged in the manufacture of aircraft engines and for a number of large establishments classified prior to 1937 in other industry groups.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Code | Industry group and geographic area            | 1963              |                                       |                   |                      |                    |                      |                    |   |  | 1958                      |   |
|------|---|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|---|--|---------------------------|---|
|      |   | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted<br>(\$1,000) | Capital expenditures, new<br>(\$1,000) | All employees<br>(number) | Value added by manufacture, adjusted<br>(\$1,000) |
|      |   | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |  |                           |   |
| 37   | TRANSPORTATION EQUIPMENT, TOTAL . . .         | 7 196             | 2 868                                 | 1 601 158         | 11 858 24D           | 1 15D D82          | 2 45D 150            | 7 731 192          | 22 765 674  | 1 022 004                              | 1 562 429                 | 15 315 289  |
|      | NORTHEAST . . . . .                           | 1 46D             | 580                                   | 321 164           | 2 342 975            | 219 593            | 464 712              | 1 434 184          | 3 980 493   | 171 630                                | 31D 113                   | 2 937 16D   |
|      | NEW ENGLAND . . . . .                         | 476               | 161                                   | 113 162           | 810 809              | 73 901             | 16D 120              | 463 32D            | 1 237 523   | 48 766                                 | 99 793                    | 886 531   |
|      | MAINE . . . . .                               | 76                | 17                                    | 4 355             | 24 315               | 3 645              | 7 257                | 19 446             | 40 088  | 1 013                                  | 5 324                     | 42 9D1  |
|      | NEW HAMPSHIRE . . . . .                       | 11                | 1                                     | 99                | 438                  | 88                 | 171                  | 373                | 683   | 35                                     | (D)                       | 670   |
|      | VERMONT . . . . .                             | 8                 | (D)                                   | (D)               | (D)                  | (D)                | (D)                  | (D)                | (D)   | (D)                                    | (D)                       | (D)   |
|      | MASSACHUSETTS . . . . .                       | 188               | 58                                    | 19 227            | 141 374              | 12 189             | 25 748               | 80 958             | 247 919   | 6 792                                  | 30 933                    | 307 585   |
|      | RHODE ISLAND . . . . .                        | 37                | (D)                                   | (D)               | (D)                  | (D)                | (D)                  | (D)                | (D)   | (D)                                    | (D)                       | (D)   |
|      | CONNECTICUT . . . . .                         | 156               | 67                                    | 85 3D1            | 62D D89              | 55 347             | 121 124              | 349 176            | 9D6 774   | 39 183                                 | 70 612                    | 586 552   |
|      | MIDDLE ATLANTIC . . . . .                     | 984               | 419                                   | 208 002           | 1 532 166            | 145 692            | 304 592              | 970 864            | 2 742 970   | 122 864                                | 210 320                   | 2 050 629   |
|      | NEW YORK . . . . .                            | 441               | 188                                   | 102 192           | 788 102              | 72 641             | 154 733              | 507 320            | 1 389 645   | 66 212                                 | 104 735                   | 959 939   |
|      | NEW JERSEY . . . . .                          | 259               | 83                                    | 39 471            | 278 873              | 28 258             | 59 387               | 189 185            | 620 314   | 25 567                                 | 50 959                    | 575 378   |
|      | PENNSYLVANIA . . . . .                        | 284               | 148                                   | 66 339            | 465 191              | 44 793             | 9D 472               | 274 359            | 733 011   | 31 085                                 | 54 626                    | 515 312   |
|      | NORTH CENTRAL . . . . .                       | 2 184             | 1 D93                                 | 73D 617           | 5 449 872            | 574 994            | 1 244 62D            | 4 DD6 699          | 11 675 934  | 558 1D2                                | 677 139                   | 7 103 023   |
|      | EAST NORTH CENTRAL . . . . .                  | 1 707             | 9D3                                   | 623 597           | 4 68D 552            | 495 904            | 1 074 669            | 3 504 774          | 10 D37 666  | 489 764                                | 565 327                   | 5 997 224   |
|      | OHIO . . . . .                                | 4D1               | 230                                   | 166 485           | 1 243 587            | 124 904            | 266 059              | 866 226            | 2 489 887   | 94 700                                 | 151 552                   | 1 566 867   |
|      | INDIANA . . . . .                             | 298               | 180                                   | 91 203            | 631 077              | 7D 937             | 144 215              | 451 D29            | 1 119 585   | 51 321                                 | 79 749                    | 790 457   |
|      | ILLINOIS . . . . .                            | 280               | 126                                   | 40 819            | 284 558              | 31 653             | 67 073               | 2D2 451            | 601 088   | 24 899                                 | 44 673                    | 535 606   |
|      | MICHIGAN . . . . .                            | 594               | 3D1                                   | 282 115           | 2 229 495            | 231 118            | 520 096              | 1 741 722          | 5 D91 546   | 294 544                                | 250 754                   | 2 729 855   |
|      | WISCONSIN . . . . .                           | 134               | 66                                    | 42 975            | 291 835              | 37 292             | 77 226               | 243 346            | 734 560   | 24 514                                 | 32 681                    | 357 798   |
|      | WEST NORTH CENTRAL . . . . .                  | 477               | 190                                   | 107 02D           | 769 32D              | 79 09D             | 169 951              | 501 925            | 1 638 268   | 68 338                                 | 111 812                   | 1 105 799   |
|      | MINNESOTA . . . . .                           | 111               | 37                                    | 7 976             | 54 851               | 6 548              | 13 930               | 42 507             | 130 358   | 3 148                                  | 8 739                     | 97 821  |
|      | IOWA . . . . .                                | 67                | 29                                    | 2 644             | 14 068               | 2 108              | 4 218                | 9 349              | 26 781  | 1 180                                  | 3 883                     | 30 983  |
|      | MISSOURI . . . . .                            | 149               | 68                                    | 58 2D6            | 436 006              | 41 084             | 89 498               | 270 314            | 998 328   | 54 749                                 | 52 D12                    | 563 922   |
|      | NORTH DAKOTA . . . . .                        | 4                 | -                                     | 11                | 41                   | 8                  | 16                   | 30                 | 134   | 8                                      | 40                        | 252   |
|      | SOUTH DAKOTA . . . . .                        | 12                | 2                                     | 172               | 611                  | 150                | 301                  | 499                | 1 899   | 145                                    | 184                       | 1 168   |
|      | NEBRASKA . . . . .                            | 30                | 15                                    | 3 4D1             | 17 636               | 2 691              | 5 688                | 11 843             | 34 095  | 711                                    | 2 064                     | 16 724  |
|      | KANSAS . . . . .                              | 104               | 39                                    | 34 610            | 246 107              | 26 501             | 56 300               | 167 383            | 446 673   | 8 397                                  | 44 890                    | 394 929   |
|      | SOUTH . . . . .                               | 1 694             | 583                                   | 231 194           | 1 554 81D            | 168 823            | 353 674              | 1 015 144          | 2 862 849   | 96 038                                 | 226 811                   | 1 968 720   |
|      | SOUTH ATLANTIC . . . . .                      | 841               | 261                                   | 118 813           | 822 16D              | 87 779             | 184 660              | 557 471            | 1 544 177   | 45 557                                 | 104 959                   | 943 692   |
|      | DELAWARE . . . . .                            | 12                | (D)                                   | (D)               | (D)                  | (D)                | (D)                  | (D)                | (D)   | (D)                                    | (D)                       | (D)   |
|      | MARYLAND . . . . .                            | 129               | 41                                    | 31 671            | 234 291              | 20 898             | 43 065               | 136 696            | 4D3 388   | 10 537                                 | 43 723                    | 394 831   |
|      | DISTRICT OF COLUMBIA . . . . .                | 2                 | (D)                                   | (D)               | (D)                  | (D)                | (D)                  | (D)                | (D)   | (D)                                    | (D)                       | (D)   |
|      | VIRGINIA . . . . .                            | 93                | 31                                    | 25 432            | 173 062              | 22 732             | 46 208               | 149 402            | 263 314   | 6 766                                  | 16 995                    | 133 599   |
|      | WEST VIRGINIA . . . . .                       | 10                | (D)                                   | (D)               | (D)                  | (D)                | (D)                  | (D)                | (D)   | (D)                                    | (D)                       | (D)   |
|      | NORTH CAROLINA . . . . .                      | 93                | 29                                    | 4 742             | 22 383               | 3 659              | 7 727                | 16 040             | 39 026  | 2 793                                  | 2 344                     | 15 791  |
|      | SOUTH CAROLINA . . . . .                      | 31                | 10                                    | 932               | 4 090                | 798                | 1 682                | 3 216              | 7 439   | 424                                    | 621                       | 3 265   |
|      | GEORGIA . . . . .                             | 114               | 5D                                    | 30 357            | 224 514              | 21 227             | 46 793               | 143 451            | 514 266   | 11 610                                 | 24 630                    | 256 141   |
|      | FLORIDA . . . . .                             | 358               | 88                                    | 16 737            | 100 805              | 11 319             | 23 562               | 59 140             | 134 286   | 7 515                                  | 9 647                     | 56 442  |
|      | EAST SOUTH CENTRAL . . . . .                  | 218               | 11D                                   | 41 0D8            | 234 557              | 32 141             | 64 921               | 161 120            | 5D7 424   | 19 297                                 | 38 780                    | 289 685   |
|      | KENTUCKY . . . . .                            | 40                | 24                                    | 5 674             | 39 712               | 4 583              | 10 572               | 29 861             | 209 745   | 4 749                                  | 4 594                     | 71 593  |
|      | TENNESSEE . . . . .                           | 76                | 40                                    | 11 053            | 53 D76               | 8 976              | 17 544               | 35 134             | 84 890  | 8 158                                  | 5 617                     | 43 658  |
|      | ALABAMA . . . . .                             | 62                | 28                                    | 15 977            | 93 877               | 11 927             | 23 989               | 62 836             | 142 419   | 3 248                                  | 17 229                    | 104 147   |
|      | MISSISSIPPI . . . . .                         | 40                | 18                                    | 8 3D4             | 47 892               | 6 655              | 12 816               | 33 289             | 60 370  | 3 142                                  | 11 340                    | 70 287  |
|      | WEST SOUTH CENTRAL . . . . .                  | 635               | 212                                   | 71 373            | 498 D93              | 48 9D3             | 1D4 D93              | 296 553            | 811 248   | 31 184                                 | 83 072                    | 735 343   |
|      | ARKANSAS . . . . .                            | 50                | 19                                    | 2 146             | 8 729                | 1 852              | 3 625                | 6 646              | 16 006  | 848                                    | 1 076                     | 6 D92   |
|      | LOUISIANA . . . . .                           | 114               | 36                                    | 11 327            | 77 957               | 9 332              | 21 963               | 67 888             | 112 D83   | 2 968                                  | 6 987                     | 49 437  |
|      | OKLAHOMA . . . . .                            | 88                | 26                                    | 7 801             | 49 710               | 5 903              | 11 961               | 31 052             | 67 542  | 7 852                                  | 10 162                    | 71 496  |
|      | TEXAS . . . . .                               | 383               | 131                                   | 50 099            | 361 697              | 31 816             | 66 544               | 190 967            | 615 617   | 19 516                                 | 64 847                    | 608 318   |
|      | WEST . . . . .                                | 1 858             | 612                                   | 317 822           | 2 5D8 239            | 185 265            | 385 096              | 1 269 037          | 4 241 797   | 195 885                                | 348 141                   | 3 302 825   |
|      | MOUNTAIN . . . . .                            | 223               | 63                                    | 36 40D            | 281 349              | 20 867             | 42 925               | 155 2D6            | 516 038   | 13 488                                 | 9 855                     | 96 411  |
|      | MONTANA . . . . .                             | 9                 | (D)                                   | (D)               | (D)                  | (D)                | (D)                  | (D)                | (D)   | (D)                                    | (D)                       | (D)   |
|      | IDAHO . . . . .                               | 26                | 9                                     | 812               | 4 204                | 684                | 1 366                | 3 035              | 5 394   | 885                                    | 235                       | 1 D46   |
|      | WYOMING . . . . .                             | 3                 | (D)                                   | (D)               | (D)                  | (D)                | (D)                  | (D)                | (D)   | (D)                                    | (D)                       | (D)   |
|      | COLORADO . . . . .                            | 66                | (D)                                   | (D)               | (D)                  | (D)                | (D)                  | (D)                | (D)   | (D)                                    | (D)                       | (D)   |
|      | NEW MEXICO . . . . .                          | 12                | 2                                     | 128               | 727                  | 103                | 205                  | 569                | 1 316   | 89                                     | 62                        | 320   |
|      | ARIZONA . . . . .                             | 61                | 17                                    | 5 784             | 46 590               | 4 577              | 9 64D                | 35 516             | 78 398  | 2 237                                  | 5 464                     | 61 984  |
|      | UTAH . . . . .                                | 41                | (D)                                   | (D)               | (D)                  | (D)                | (D)                  | (D)                | (D)   | (D)                                    | (D)                       | (D)   |
|      | NEVADA . . . . .                              | 5                 | (D)                                   | (D)               | (D)                  | (D)                | (D)                  | (D)                | (D)   | (D)                                    | (D)                       | (D)   |
|      | PACIFIC . . . . .                             | 1 636             | 55D                                   | 281 483           | 2 227 059            | 164 455            | 342 277              | 1 113 978          | 3 726 272   | 182 397                                | 338 286                   | 3 186 371   |
|      | WASHINGTON . . . . .                          | 2D4               | 48                                    | 33 565            | 259 0D9              | 2D 915             | 41 948               | 135 162            | 539 866   | 22 272                                 | 69 744                    | 626 D45   |
|      | OREGON . . . . .                              | 96                | 26                                    | 5 055             | 30 074               | 4 037              | 7 644                | 22 764             | 50 745  | 3 257                                  | 3 849                     | 33 851  |
|      | CALIFORNIA . . . . .                          | 1 317             | 472                                   | 2D3 860           | 1 645 1D9            | 125 6D5            | 262 84D              | 867 84D            | 2 683 68D   | 156 737                                | 264 55D                   | 2 525 462   |
|      | ALASKA . . . . .                              | 11                | 1                                     | 65                | 377                  | 55                 | 109                  | 326                | 482   | 43                                     | 33                        | 278   |
|      | HAWAII . . . . .                              | 7                 | 2                                     | 101               | 585                  | 81                 | 146                  | 444                | 990   | 42                                     | 11D                       | 734   |
| 371  | MOTOR VEHICLES AND EQUIPMENT, TOTAL . . . . . | 2 765             | 1 222                                 | 693 821           | 5 193 447            | 571 D26            | 1 264 399            | 4 D69 698          | 12 780 577  | 655 374                                | 581 715                   | 6 781 258   |
|      | NORTHEAST . . . . .                           | 475               | 191                                   | 79 150            | 581 963              | 63 158             | 139 693              | 441 961            | 1 347 484   | 70 014                                 | 74 731                    | 851 790   |
|      | NEW ENGLAND . . . . .                         | 104               | 32                                    | 7 232             | 44 431               | 5 852              | 12 975               | 33 369             | 114 110   | 4 646                                  | 5 866                     | 52 849  |
|      | MASSACHUSETTS . . . . .                       | 59                | 21                                    | 3 331             | 23 075               | 2 679              | 6 414                | 17 327             | 80 485  | 2 782                                  | 2 928                     | 26 047  |
|      | RHODE ISLAND . . . . .                        | 10                | 4                                     | 613               | 2 770                | 525                | 1 191                | 2 313              | 5 221   | (D)                                    | 432                       | 3 520   |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area  | 1963           |                                    |                |                   |                    |                   |                 |  | 1958                                |                        |  |
|------|-------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |                                     | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |                                     | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 371  | MOTOR VEHICLES AND EQUIPMENT—CONT.  |                |                                    |                |                   |                    |                   |                 |  |                                     |                        |  |
|      | MIDDLE ATLANTIC . . . . .           | 370            | 158                                | 71 401         | 533 648           | 57 306             | 126 718           | 408 592         | 1 233 374                                      | 65 368                              | 68 865                 | 798 941  |
|      | NEW YORK . . . . .                  | 146            | 62                                 | 39 648         | 303 065           | 32 086             | 72 424            | 236 605         | 635 612  | 38 671                              | 35 163                 | 371 202  |
|      | NORTH CENTRAL . . . . .             | 1 168          | 647                                | 529 614        | 4 022 760         | 439 064            | 967 616           | 3 180 452       | 9 533 328                                      | 480 124                             | 439 593                | 5 073 752                                      |
|      | EAST NORTH CENTRAL . . . . .        | 955            | 553                                | 495 798        | 3 769 229         | 411 419            | 903 748           | 2 984 663       | 8 638 239                                      | 440 069                             | 413 213                | 4 638 679                                      |
|      | OHIO . . . . .                      | 224            | 145                                | 112 368        | 834 396           | 93 132             | 201 685           | 662 825         | 1 895 276                                      | 79 589                              | 89 156                 | 985 589  |
|      | INDIANA . . . . .                   | 135            | 83                                 | 60 226         | 412 835           | 49 528             | 100 428           | 318 791         | 775 522  | 35 150                              | 46 078                 | 522 329  |
|      | ILLINOIS . . . . .                  | 180            | 86                                 | 22 409         | 158 056           | 18 467             | 40 660            | 120 912         | 373 887  | 14 726                              | 22 011                 | 248 217  |
|      | MICHIGAN . . . . .                  | 363            | 210                                | 263 074        | 2 099 724         | 217 276            | 492 374           | 1 659 236       | 4 900 959                                      | 287 747                             | 229 643                | 2 575 820                                      |
|      | WISCONSIN . . . . .                 | 53             | 29                                 | 37 721         | 264 218           | 33 016             | 68 601            | 222 899         | 692 595  | 22 857                              | 26 325                 | 306 724  |
|      | WEST NORTH CENTRAL . . . . .        | 213            | 94                                 | 33 816         | 253 531           | 27 645             | 63 868            | 195 789         | 895 089  | 40 055                              | 26 380                 | 435 073  |
|      | IOWA . . . . .                      | 36             | 15                                 | 1 292          | 6 599             | 1 041              | 2 172             | 4 671           | 14 340   | 854                                 | 1 200                  | 9 160  |
|      | MISSOURI . . . . .                  | 86             | 46                                 | 23 467         | 177 190           | 19 477             | 44 183            | 139 193         | 632 520  | (D)                                 | 17 857                 | 316 361  |
|      | SOUTH . . . . .                     | 549            | 203                                | 52 750         | 356 762           | 42 982             | 99 782            | 271 810         | 1 250 048                                      | 44 419                              | 39 663                 | 525 744  |
|      | SOUTH ATLANTIC . . . . .            | 223            | 74                                 | 29 353         | 217 555           | 23 884             | 56 606            | 167 616         | 750 955  | 22 595                              | 22 601                 | 319 085  |
|      | NORTH CAROLINA . . . . .            | 35             | 11                                 | 1 987          | 9 248             | 1 621              | 3 505             | 6 704           | 18 893   | 1 402                               | 1 418                  | 10 378   |
|      | SOUTH CAROLINA . . . . .            | 6              | 3                                  | 234            | 1 123             | 200                | 428               | 922             | 2 589  | 59                                  | 201                    | 1 675  |
|      | FLORIDA . . . . .                   | 61             | 9                                  | 843            | 3 699             | 691                | 1 506             | 2 785           | 5 291  | 1 737                               | 494                    | 3 292  |
|      | EAST SOUTH CENTRAL . . . . .        | 108            | 60                                 | 12 717         | 71 046            | 10 349             | 22 683            | 52 433          | 280 120  | 10 485                              | 9 547                  | 110 257  |
|      | TENNESSEE . . . . .                 | 41             | 23                                 | 4 107          | 17 945            | 3 392              | 7 123             | 12 947          | 40 392   | 4 447                               | 2 804                  | 23 585   |
|      | WEST SOUTH CENTRAL . . . . .        | 218            | 69                                 | 10 680         | 68 161            | 8 749              | 20 493            | 51 761          | 218 973  | 11 339                              | 7 515                  | 96 402   |
|      | ARKANSAS . . . . .                  | 23             | 6                                  | 682            | 2 692             | 605                | 1 229             | 2 086           | 6 221  | 449                                 | 337                    | 1 487  |
|      | TEXAS . . . . .                     | 144            | 47                                 | 7 917          | 54 786            | 6 435              | 15 576            | 41 836          | 189 947  | 5 781                               | 6 004                  | 84 935   |
|      | WEST . . . . .                      | 574            | 182                                | 32 030         | 230 804           | 25 268             | 55 907            | 172 394         | 637 623  | 60 419                              | 27 503                 | 326 543  |
|      | MOUNTAIN . . . . .                  | 85             | 20                                 | 1 641          | 8 903             | 1 273              | 2 508             | 6 116           | 14 734   | 1 797                               | 994                    | 8 373  |
|      | COLORADO . . . . .                  | 29             | 13                                 | 1 043          | 5 821             | 803                | 1 581             | 3 932           | 9 717  | 869                                 | 635                    | 6 436  |
|      | NEW MEXICO . . . . .                | 7              | 2                                  | 115            | 669               | 91                 | 181               | 517             | 1 233  | 81                                  | (O)                    | (O)  |
|      | UTAH . . . . .                      | 12             | 2                                  | 192            | 1 067             | 134                | 267               | 686             | 1 526  | 228                                 | 166                    | 883  |
|      | PACIFIC . . . . .                   | 489            | 162                                | 30 389         | 221 901           | 23 995             | 53 399            | 166 278         | 622 889  | 58 622                              | 26 509                 | 318 170  |
|      | WASHINGTON . . . . .                | 31             | 11                                 | 1 891          | 12 457            | 1 457              | 2 880             | 8 977           | 20 797   | 760                                 | 1 394                  | 12 569   |
|      | CALIFORNIA . . . . .                | 418            | 137                                | 27 000         | 200 197           | 21 383             | 48 403            | 150 617         | 583 424  | 56 443                              | 24 338                 | 297 569  |
| 372  | AIRCRAFT AND PARTS: TOTAL . . . . . | 1 346          | 715                                | 679 385        | 5 253 685         | 390 295            | 810 454           | 2 585 997       | 7 867 349                                      | 294 163                             | 765 482                | 6 924 338                                      |
|      | NORTHEAST . . . . .                 | 326            | 197                                | 175 194        | 1 305 481         | 103 794            | 218 906           | 672 842         | 1 976 301                                      | 80 923                              | 165 197                | 1 496 672                                      |
|      | NEW ENGLAND . . . . .               | 121            | 75                                 | 78 985         | 563 930           | 48 453             | 104 454           | 307 322         | 860 493  | 35 880                              | 69 015                 | 584 916  |
|      | MASSACHUSETTS . . . . .             | 26             | 14                                 | 9 610          | 75 113            | 5 388              | 11 233            | 37 258          | 111 070  | 3 152                               | (D)                    | (D)  |
|      | CONNECTICUT . . . . .               | 81             | 49                                 | 65 193         | 462 726           | 40 579             | 87 706            | 256 207         | 706 556  | 31 467                              | (O)                    | (O)  |
|      | MIDDLE ATLANTIC . . . . .           | 205            | 122                                | 96 209         | 741 551           | 55 341             | 114 452           | 365 520         | 1 115 808                                      | 45 043                              | 96 182                 | 911 756  |
|      | NEW YORK . . . . .                  | 115            | 68                                 | 52 694         | 427 567           | 32 612             | 66 960            | 226 722         | 665 347  | 24 781                              | 57 116                 | 499 758  |
|      | NORTH CENTRAL . . . . .             | 302            | 175                                | 149 115        | 1 117 213         | 94 179             | 193 434           | 598 213         | 1 601 129                                      | 58 245                              | 189 567                | 1 680 749                                      |
|      | EAST NORTH CENTRAL . . . . .        | 228            | 139                                | 85 036         | 648 128           | 50 244             | 102 455           | 327 618         | 938 698  | 32 382                              | 111 121                | 1 066 553                                      |
|      | OHIO . . . . .                      | 83             | 49                                 | 47 782         | 370 099           | 26 505             | 53 750            | 172 573         | 528 979  | 13 539                              | 60 674                 | 570 621  |
|      | INDIANA . . . . .                   | 28             | 21                                 | 20 519         | 154 610           | 12 895             | 26 570            | 85 038          | 235 042  | 11 138                              | 25 804                 | 219 294  |
|      | ILLINOIS . . . . .                  | 24             | 17                                 | 6 282          | 43 924            | 4 058              | 8 254             | 25 032          | 63 531   | 3 395                               | 11 041                 | 171 816  |
|      | MICHIGAN . . . . .                  | 89             | 48                                 | 10 099         | 77 260            | 6 500              | 13 286            | 43 329          | 107 699  | 4 046                               | 12 403                 | 90 358   |
|      | WISCONSIN . . . . .                 | 4              | 4                                  | 354            | 2 235             | 286                | 595               | 1 646           | 3 447  | 264                                 | 1 199                  | 14 464   |
|      | WEST NORTH CENTRAL . . . . .        | 74             | 36                                 | 64 079         | 469 085           | 43 935             | 90 979            | 270 595         | 662 431  | 25 863                              | 78 446                 | 614 196  |
|      | MINNESOTA . . . . .                 | 10             | 8                                  | 3 517          | 23 841            | 3 088              | 5 916             | 19 844          | 30 591   | 437                                 | 4 187                  | 28 443   |
|      | SOUTH . . . . .                     | 156            | 98                                 | 99 282         | 733 304           | 56 580             | 116 748           | 358 443         | 964 810  | 27 967                              | 114 682                | 955 198  |
|      | SOUTH ATLANTIC . . . . .            | 73             | 45                                 | 43 789         | 326 920           | 23 469             | 48 500            | 153 581         | 414 218  | 12 541                              | (O)                    | (O)  |
|      | MARYLAND . . . . .                  | 12             | 11                                 | 14 315         | 111 418           | 6 679              | 13 229            | 41 205          | 141 237  | 3 443                               | (O)                    | (O)  |
|      | VIRGINIA . . . . .                  | 4              | 3                                  | 1 488          | 9 606             | 747                | 1 526             | 3 924           | 14 622   | 1 013                               | (O)                    | (O)  |
|      | NORTH CAROLINA . . . . .            | 5              | 4                                  | 1 489          | 8 518             | 926                | 1 968             | 5 662           | 12 627   | 902                                 | 226                    | 1 439  |
|      | EAST SOUTH CENTRAL . . . . .        | 12             | 12                                 | 12 800         | 76 531            | 8 346              | 16 489            | 41 150          | 107 982  | 1 519                               | (O)                    | (O)  |
|      | WEST SOUTH CENTRAL . . . . .        | 71             | 41                                 | 42 693         | 329 853           | 24 765             | 51 759            | 163 712         | 442 610  | 13 907                              | (O)                    | (O)  |
|      | TEXAS . . . . .                     | 53             | 31                                 | 34 341         | 264 869           | 18 852             | 38 353            | 116 747         | 362 289  | 10 908                              | 50 544                 | 469 290  |
|      | WEST . . . . .                      | 562            | 245                                | 255 744        | 2 096 609         | 134 626            | 280 389           | 952 049         | 3 322 699                                      | 126 857                             | 296 036                | 2 771 675                                      |
|      | MOUNTAIN . . . . .                  | 37             | 21                                 | 33 110         | 264 915           | 18 217             | 37 714            | 143 457         | 487 459  | 10 799                              | 8 145                  | 104 064  |
|      | ARIZONA . . . . .                   | 21             | 11                                 | 5 315          | 44 468            | 4 180              | 8 858             | 33 937          | 75 159   | 1 792                               | (O)                    | (O)  |
|      | PACIFIC . . . . .                   | 525            | 224                                | 222 634        | 1 832 694         | 116 409            | 242 675           | 808 592         | 2 835 240                                      | 116 058                             | 287 891                | 2 687 654                                      |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area                 | 1963           |                                    |                |                   |                    |                   |                 |  | 1958                                |                        |  |
|------|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 373  | SHIP AND BOAT BUILDING, TOTAL . . . . .            | 1 960          | 468                                | 139 510        | 898 439           | 117 394            | 235 523           | 701 693         | 1 192 749                                      | 37 949                              | 144 561                | 1 071 822                                      |
|      | NORTHEAST . . . . .                                | 530            | 136                                | 46 013         | 327 261           | 36 260             | 75 509            | 227 154         | 422 610  | 12 363                              | 49 589                 | 427 340  |
|      | NEW ENGLAND . . . . .                              | 229            | 48                                 | 25 768         | 195 286           | 18 772             | 41 303            | 118 763         | 249 035  | 7 967                               | 23 178                 | 237 965  |
|      | MASSACHUSETTS . . . . .                            | 93             | 21                                 | 5 794          | 40 653            | 3 735              | 7 380             | 24 530          | 52 327   | 802                                 | (D)                    | (D)  |
|      | MIDDLE ATLANTIC . . . . .                          | 301            | 88                                 | 20 245         | 131 975           | 17 488             | 34 206            | 108 391         | 173 575  | 4 396                               | 26 411                 | 189 375  |
|      | NEW YORK . . . . .                                 | 154            | 46                                 | 5 477          | 33 353            | 4 578              | 8 853             | 26 818          | 48 912   | 1 241                               | 8 203                  | 55 626   |
|      | NEW JERSEY . . . . .                               | 120            | 31                                 | 9 191          | 62 854            | 8 293              | 16 015            | 54 199          | 82 775   | 2 192                               | 13 168                 | 98 248   |
|      | PENNSYLVANIA . . . . .                             | 27             | 11                                 | 5 577          | 35 768            | 4 617              | 9 338             | 27 374          | 41 888   | 963                                 | 5 040                  | 35 501   |
|      | NORTH CENTRAL . . . . .                            | 266            | 70                                 | 9 616          | 50 344            | 8 076              | 16 221            | 39 629          | 75 856   | 3 146                               | 13 732                 | 92 338   |
|      | EAST NORTH CENTRAL . . . . .                       | 196            | 55                                 | 8 442          | 45 446            | 7 122              | 14 260            | 35 927          | 66 958   | 2 712                               | (D)                    | (D)  |
|      | INDIANA . . . . .                                  | 29             | 12                                 | 1 585          | 8 989             | 1 285              | 2 659             | 6 604           | 13 408   | 543                                 | (D)                    | (D)  |
|      | ILLINOIS . . . . .                                 | 28             | 4                                  | 606            | 3 696             | 4 34               | 975               | 2 578           | 4 771  | 938                                 | (D)                    | (D)  |
|      | WISCONSIN . . . . .                                | 48             | 15                                 | 2 409          | 12 317            | 2 057              | 4 145             | 9 701           | 19 451   | 513                                 | 2 934                  | 21 699   |
|      | WEST NORTH CENTRAL . . . . .                       | 70             | 15                                 | 1 174          | 4 898             | 954                | 1 961             | 3 702           | 8 898  | 434                                 | (D)                    | (D)  |
|      | MISSOURI . . . . .                                 | 19             | 5                                  | 309            | 1 214             | 255                | 513               | 965             | 3 210  | 122                                 | 1 118                  | 9 377  |
|      | SOUTH . . . . .                                    | 744            | 186                                | 65 153         | 398 824           | 57 059             | 113 079           | 333 925         | 515 129  | 17 900                              | 63 699                 | 440 823  |
|      | SOUTH ATLANTIC . . . . .                           | 448            | 100                                | 40 756         | 255 246           | 36 230             | 71 275            | 219 311         | 333 010  | 8 163                               | 36 371                 | 255 018  |
|      | NORTH CAROLINA . . . . .                           | 40             | 8                                  | 765            | 3 185             | 696                | 1 520             | 2 658           | 5 124  | 372                                 | (D)                    | (D)  |
|      | GEORGIA . . . . .                                  | 21             | 4                                  | 1 062          | 4 762             | 955                | 1 672             | 3 909           | 6 675  | 235                                 | 1 135                  | 8 598  |
|      | FLORIDA . . . . .                                  | 211            | 44                                 | 6 013          | 30 632            | 5 122              | 10 423            | 24 646          | 43 007   | 1 988                               | 6 349                  | 33 985   |
|      | EAST SOUTH CENTRAL . . . . .                       | 72             | 23                                 | 9 811          | 57 283            | 8 373              | 15 703            | 44 095          | 60 800   | 5 177                               | 14 219                 | 94 029   |
|      | KENTUCKY . . . . .                                 | 7              | 3                                  | 325            | 1 502             | 299                | 667               | 1 334           | 2 153  | 65                                  | (D)                    | (D)  |
|      | ALABAMA . . . . .                                  | 24             | 6                                  | 2 950          | 16 550            | 2 741              | 5 088             | 14 790          | 19 874   | 869                                 | 3 575                  | 28 976   |
|      | WEST SOUTH CENTRAL . . . . .                       | 224            | 63                                 | 14 586         | 86 295            | 12 456             | 26 101            | 70 519          | 121 319  | 4 560                               | 13 109                 | 91 776   |
|      | ARKANSAS . . . . .                                 | 13             | 6                                  | 472            | 2 196             | 376                | 765               | 1 483           | 2 242  | 138                                 | (D)                    | (D)  |
|      | LOUISIANA . . . . .                                | 91             | 27                                 | 8 038          | 49 479            | 7 049              | 15 719            | 42 327          | 71 165   | 2 481                               | 6 465                  | 44 831   |
|      | TEXAS . . . . .                                    | 108            | 29                                 | 6 022          | 34 445            | 4 982              | 9 512             | 26 552          | 47 600   | 1 921                               | 6 210                  | 44 307   |
|      | WEST . . . . .                                     | 419            | 75                                 | 18 694         | 121 913           | 15 965             | 30 640            | 100 888         | 179 333  | 4 583                               | 17 422                 | 140 363  |
|      | MOUNTAIN . . . . .                                 | 22             | 1                                  | 111            | 491               | 93                 | 196               | 384             | 832  | 61                                  | 103                    | 777  |
|      | PACIFIC . . . . .                                  | 397            | 74                                 | 18 583         | 121 422           | 15 872             | 30 444            | 100 504         | 178 501  | 4 522                               | 17 319                 | 139 586  |
|      | OREGON . . . . .                                   | 39             | 4                                  | 2 115          | 12 563            | 1 690              | 3 075             | 9 617           | 20 888   | 392                                 | (D)                    | (D)  |
|      | CALIFORNIA . . . . .                               | 224            | 47                                 | 11 128         | 74 034            | 9 471              | 18 141            | 60 422          | 109 358  | 1 709                               | 10 990                 | 88 628   |
| 374  | RAILROAD EQUIPMENT, TOTAL . . . . .                | 102            | 70                                 | 45 079         | 301 695           | 34 902             | 68 049            | 217 540         | 541 471  | 18 072                              | 39 591                 | 319 662  |
|      | NORTHEAST . . . . .                                | 31             | 20                                 | 16 849         | 109 925           | 12 753             | 23 884            | 77 085          | 189 323  | 6 509                               | 18 162                 | 142 773  |
|      | MIDDLE ATLANTIC . . . . .                          | 31             | 20                                 | 16 849         | 109 925           | 12 753             | 23 884            | 77 085          | 189 323  | 6 509                               | 17 129                 | 138 655  |
|      | NEW YORK . . . . .                                 | 6              | 5                                  | 3 246          | 19 321            | 2 412              | 4 688             | 13 654          | 30 305   | 1 332                               | (D)                    | (D)  |
|      | NORTH CENTRAL . . . . .                            | 59             | 40                                 | 22 952         | 157 213           | 17 892             | 35 635            | 114 239         | 282 702  | 9 333                               | 18 335                 | 163 835  |
|      | INDIANA . . . . .                                  | 6              | 4                                  | 3 605          | 25 392            | 2 902              | 6 042             | 19 816          | 41 364   | 1 867                               | 3 165                  | 12 380   |
|      | ILLINOIS . . . . .                                 | 25             | 14                                 | 10 418         | 72 372            | 7 762              | 15 364            | 49 156          | 147 133  | (D)                                 | 9 672                  | 101 072  |
|      | SOUTH AND WEST . . . . .                           | 12             | 10                                 | 5 278          | 34 557            | 4 257              | 3 530             | 26 216          | 69 446   | 2 230                               | 3 094                  | 13 054   |
| 375  | MOTORCYCLES, BICYCLES, & PARTS, TOTAL <sup>1</sup> | 88             | 33                                 | 9 662          | 48 425            | 7 912              | 15 152            | 34 398          | 82 245   | 3 152                               | 7 578                  | 52 125   |
| 379  | TRANSPORTATION EQUIPMENT, NEC, TOTAL               | 935            | 360                                | 33 701         | 162 549           | 28 553             | 56 573            | 121 866         | 301 283  | 13 294                              | 23 478                 | 165 898  |
|      | NORTHEAST . . . . .                                | 80             | 28                                 | 2 540          | 12 089            | 2 142              | 4 111             | 8 934           | 24 323   | 1 504                               | 973                    | 9 488  |
|      | NEW JERSEY . . . . .                               | 5              | 3                                  | 111            | 614               | 96                 | 173               | 444             | 887  | 109                                 | (D)                    | (D)  |
|      | NORTH CENTRAL . . . . .                            | 364            | 149                                | 15 290         | 79 713            | 12 724             | 25 722            | 58 425          | 147 343  | 5 876                               | 12 262                 | 95 144   |
|      | EAST NORTH CENTRAL . . . . .                       | 253            | 112                                | 11 430         | 62 399            | 9 453              | 19 140            | 45 034          | 111 015  | 4 752                               | 10 086                 | 76 715   |
|      | OHIO . . . . .                                     | 40             | 15                                 | 1 422          | 7 293             | 1 167              | 2 395             | 5 178           | 12 901   | 342                                 | 721                    | (D)  |
|      | INDIANA . . . . .                                  | 97             | 57                                 | 4 879          | 27 642            | 4 013              | 7 931             | 19 669          | 51 626   | 2 393                               | 3 934                  | 31 063   |
|      | MICHIGAN . . . . .                                 | 75             | 24                                 | 3 820          | 22 189            | 3 143              | 6 505             | 16 186          | 38 745   | 1 718                               | (D)                    | (D)  |
|      | WEST NORTH CENTRAL . . . . .                       | 111            | 37                                 | 3 860          | 17 314            | 3 271              | 6 582             | 13 391          | 36 328   | 1 124                               | 2 176                  | 18 429   |
|      | MINNESOTA . . . . .                                | 16             | 2                                  | 216            | 912               | 173                | 374               | 666             | 1 705  | 138                                 | 157                    | 766  |
|      | MISSOURI . . . . .                                 | 21             | 4                                  | 391            | 1 571             | 334                | 660               | 1 246           | 3 603  | 120                                 | 280                    | 1 571  |
|      | NEBRASKA . . . . .                                 | 12             | 5                                  | 723            | 2 975             | 645                | 1 263             | 2 490           | 6 258  | 110                                 | (D)                    | (D)  |
|      | KANSAS . . . . .                                   | 30             | 13                                 | 1 447          | 7 081             | 1 195              | 2 448             | 5 447           | 16 256   | 482                                 | 579                    | 5 088  |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area  | 1963           |                                    |                |                   |                    |                   |                 |  | 1958                                |                        |  |
|------|-------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |                                     | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |                                     | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 379  | TRANSPORTATION EQUIPMENT, NEC-CONT. | 222            | 82                                 | 7 399          | 30 068            | 6 393              | 12 716            | 22 878          | 61 198   | 2 605                               | 5 045                  | 26 592   |
|      | SOUTH . . . . .                     |                |                                    |                |                   |                    |                   |                 |  |                                     |                        |  |
|      | SOUTH ATLANTIC . . . . .            | 90             | 38                                 | 3 861          | 16 469            | 3 341              | 6 669             | 12 473          | 35 632   | 1 428                               | 1 127                  | 7 618  |
|      | NORTH CAROLINA . . . . .            | 13             | 6                                  | 501            | 1 432             | 416                | 734               | 1 016           | 2 882  | 117                                 | (0)                    | (0)  |
|      | GEORGIA . . . . .                   | 21             | 12                                 | 1 572          | 6 882             | 1 396              | 2 892             | 5 276           | 17 069   | 671                                 | 383                    | 2 682  |
|      | FLORIDA . . . . .                   | 45             | 15                                 | 1 167          | 5 532             | 980                | 1 936             | 4 161           | 10 617   | 463                                 | (0)                    | (0)  |
|      | EAST SOUTH CENTRAL . . . . .        | 19             | 10                                 | 1 023          | 3 757             | 882                | 1 746             | 2 881           | 5 832  | 358                                 | 513                    | 2 578  |
|      | TENNESSEE . . . . .                 | 9              | 4                                  | 269            | 796               | 224                | 407               | 590             | 1 092  | 42                                  | (0)                    | (0)  |
|      | ALABAMA . . . . .                   | 4              | 3                                  | 346            | 1 272             | 315                | 599               | 1 048           | 1 815  | 124                                 | (0)                    | -  |
|      | WEST SOUTH CENTRAL . . . . .        | 113            | 34                                 | 2 515          | 9 842             | 2 170              | 4 301             | 7 524           | 19 734   | 819                                 | 3 405                  | 16 396   |
|      | OKLAHOMA . . . . .                  | 23             | 7                                  | 577            | 2 214             | 501                | 1 011             | 1 584           | 4 588  | 157                                 | 923                    | 4 225  |
|      | WEST . . . . .                      | 269            | 101                                | 8 472          | 40 679            | 7 294              | 14 024            | 31 629          | 68 120   | 3 309                               | 5 198                  | 34 674   |
|      | IDAHOO . . . . .                    | 12             | 6                                  | 523            | 2 256             | 444                | 902               | 1 647           | 4 589  | 341                                 | 166                    | 608  |
|      | COLORADO . . . . .                  | 26             | 4                                  | 271            | 1 358             | 225                | 424               | 1 113           | 2 407  | 241                                 | (0)                    | (0)  |
|      | ARIZONA . . . . .                   | 16             | 4                                  | 247            | 1 106             | 212                | 415               | 861             | 1 566  | 103                                 | (0)                    | (0)  |
|      | UTAH . . . . .                      | 13             | 4                                  | 327            | 1 653             | 262                | 513               | 1 137           | 2 653  | 93                                  | (0)                    | (0)  |
|      | WASHINGTON . . . . .                | 22             | 4                                  | 230            | 975               | 197                | 345               | 766             | 1 412  | 75                                  | (0)                    | (0)  |
|      | CALIFORNIA . . . . .                | 158            | 71                                 | 6 311          | 31 072            | 5 468              | 10 513            | 24 313          | 51 787   | 2 297                               | 4 185                  | 29 128   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.  
 1This industry group consists of a single 4-digit industry. Detailed data by State are included in the 4-digit industry tables.

TABLE 3. Detailed Statistics: 1963

| Item   | Transportation equipment (SIC 37) | Motor vehicles and equipment (SIC 371) | Aircraft and parts (SIC 372) | Ship and boat building (SIC 373) | Railroad equipment (SIC 374) | Motorcycles, bicycles, and parts (SIC 375) | Transportation equipment, n.e.c. (SIC 379) |
|--|-----------------------------------|--|------------------------------|----------------------------------|------------------------------|--|--|
| ESTABLISHMENTS, TOTAL . . . . . NUMBER . . . . .                                 | 7 196                             | 2 765                                  | 1 346                        | 1 960                            | 102                          | 88   | 935  |
| WITH 1 TO 19 EMPLOYEES . . . . . DO . . . . .                                    | 4 328                             | 1 543                                  | 631                          | 1 492                            | 32                           | 55   | 575  |
| WITH 20 TO 99 EMPLOYEES . . . . . DO . . . . .                                   | 1 672                             | 691                                    | 363                          | 318                              | 27                           | 17   | 256  |
| WITH 100 EMPLOYEES OR MORE . . . . . DO . . . . .                                | 1 196                             | 531                                    | 352                          | 150                              | 43                           | 16   | 104  |
| PROPRIETORS AND WORKING PARTNERS . . . . . DO . . . . .                          | 3 169                             | 1 067                                  | 419                          | 1 240                            | 14                           | 13   | 416  |
| ALL EMPLOYEES (AVERAGE FOR THE YEAR) . . . . . DO . . . . .                      | 1 601 158                         | 693 821                                | 679 385                      | 139 510                          | 45 079                       | 9 662                                      | 33 701                                     |
| PAYROLL (ALL EMPLOYEES), TOTAL FOR YEAR . . . . . \$1,000 . . . . .              | 11 858 240                        | 5 193 447                              | 5 253 685                    | 898 439                          | 301 695                      | 48 425                                     | 162 549                                    |
| PRODUCTION WORKERS:  |                                   |  |                              |                                  |                              |  |  |
| AVERAGE FOR THE YEAR . . . . . NUMBER . . . . .                                  | 1 150 082                         | 571 026                                | 390 295                      | 117 394                          | 34 902                       | 7 912                                      | 28 553                                     |
| MARCH . . . . . DO . . . . .   | 1 168 966                         | 592 177                                | 386 858                      | 121 213                          | 35 012                       | 7 549                                      | 26 157                                     |
| MAY . . . . . DO . . . . .   | 1 159 037                         | 583 065                                | 383 462                      | 122 300                          | 33 082                       | 8 149                                      | 28 979                                     |
| AUGUST . . . . . DO . . . . .  | 1 062 841                         | 475 125                                | 399 824                      | 114 346                          | 35 591                       | 8 431                                      | 29 524                                     |
| NOVEMBER . . . . . DO . . . . .  | 1 209 657                         | 633 739                                | 390 986                      | 111 920                          | 35 902                       | 7 525                                      | 29 585                                     |
| MAN-HOURS . . . . . 1,000 . . . . .  | 2 450 150                         | 1 264 399                              | 810 454                      | 235 523                          | 68 049                       | 15 152                                     | 56 573                                     |
| JANUARY-MARCH . . . . . DO . . . . .   | 609 426                           | 309 085                                | 208 215                      | 60 299                           | 16 058                       | 3 429                                      | 12 340                                     |
| APRIL-JUNE . . . . . DO . . . . .  | 624 859                           | 323 628                                | 203 696                      | 62 082                           | 16 672                       | 4 073                                      | 14 708                                     |
| JULY-SEPTEMBER . . . . . DO . . . . .  | 575 838                           | 286 788                                | 194 557                      | 58 664                           | 18 874                       | 4 013                                      | 14 942                                     |
| OCTOBER-DECEMBER . . . . . DO . . . . .  | 642 299                           | 344 898                                | 203 999                      | 56 437                           | 18 457                       | 3 660                                      | 14 848                                     |
| WAGES . . . . . \$1,000 . . . . .  | 7 731 192                         | 4 069 698                              | 2 585 997                    | 701 693                          | 217 540                      | 34 398                                     | 121 866                                    |
| COST OF MATERIALS, ETC., TOTAL <sup>1</sup> . . . . . DO . . . . .               | 32 725 442                        | 24 449 111                             | 5 887 954                    | 853 282                          | 840 808                      | 112 157                                    | 582 130                                    |
| MATERIALS, PARTS, CONTAINERS, AND SUPPLIES CONSUMED . . . . . DO . . . . .       | 31 205 370                        | 24 041 040                             | 4 906 174                    | 779 986                          | 808 800                      | 102 722                                    | 566 648                                    |
| COST OF REALES . . . . . DO . . . . .  | 529 636                           | 170 576                                | 307 309                      | 17 497                           | 19 640                       | 6 323                                      | 8 291                                      |
| FUELS CONSUMED . . . . . DO . . . . .  | 113 567                           | 77 778                                 | 21 551                       | 6 915                            | 5 241                        | 724  | 1 358                                      |
| ELECTRIC ENERGY:   |                                   |  |                              |                                  |                              |  |  |
| PURCHASED:   |                                   |  |                              |                                  |                              |  |  |
| QUANTITY . . . . . MILLION KW.-HRS. . . . .                                      | 18 924                            | 11 114                                 | 6 175                        | 1 078                            | 396                          | 75   | 86   |
| CDST . . . . . \$1,000 . . . . .   | 204 102                           | 118 781                                | 64 818                       | 12 984                           | 4 793                        | 877  | 1 849                                      |
| GENERATED LESS SOLD . . . . . MILLION KW.-HRS. . . . .                           | 13 840                            | 575                                    | 9 141                        | 1 959                            | 1 310                        | -  | 855  |
| CONTRACT WORK . . . . . \$1,000 . . . . .  | 672 004                           | 41 086                                 | 588 102                      | 35 897                           | 2 334                        | 1 511                                      | 3 074                                      |
| VALUE OF SHIPMENTS (INCLUDING REALES), TOTAL <sup>1</sup> . . . . . DO . . . . . | 55 428 194                        | 37 173 401                             | 13 776 419                   | 2 039 973                        | 1 365 056                    | 192 851                                    | 880 494                                    |
| VALUE OF REALES . . . . . DO . . . . .   | 672 042                           | 205 800                                | 414 740                      | 22 552                           | 8 480                        | 7 572                                      | 12 898                                     |
| VALUE ADDED BY MANUFACTURE, ADJUSTED . . . . . DO . . . . .                      | 22 765 674                        | 12 780 577                             | 7 867 349                    | 1 192 749                        | 541 471                      | 82 245                                     | 301 283                                    |
| MANUFACTURERS' INVENTORIES:  |                                   |  |                              |                                  |                              |  |  |
| BEGINNING OF YEAR, TOTAL . . . . . DO . . . . .                                  | 6 553 226                         | 2 480 091                              | 3 253 414                    | 459 793                          | 241 409                      | 34 852                                     | 83 667                                     |
| FINISHED PRODUCTS . . . . . DO . . . . .   | 812 470                           | 456 380                                | 260 032                      | 31 877                           | 31 411                       | 9 500                                      | 23 270                                     |
| WORK-IN-PROCESS . . . . . DO . . . . .   | 3 936 877                         | 1 025 979                              | 2 370 646                    | 350 985                          | 160 597                      | 15 926                                     | 12 744                                     |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO . . . . .                             | 1 803 859                         | 997 722                                | 622 736                      | 76 931                           | 49 401                       | 9 426                                      | 47 643                                     |
| END OF YEAR, TOTAL . . . . . DO . . . . .  | 7 048 765                         | 2 627 239                              | 3 603 427                    | 422 697                          | 270 066                      | 36 006                                     | 89 390                                     |
| FINISHED PRODUCTS . . . . . DO . . . . .   | 791 245                           | 434 702                                | 255 822                      | 33 645                           | 30 319                       | 11 398                                     | 25 359                                     |
| WORK-IN-PROCESS . . . . . DO . . . . .   | 4 300 913                         | 1 104 914                              | 2 676 420                    | 311 696                          | 178 912                      | 15 579                                     | 13 392                                     |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO . . . . .                             | 1 956 607                         | 1 087 623                              | 671 185                      | 77 356                           | 60 775                       | 9 029                                      | 50 639                                     |
| EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . . . DO . . . . .               | 1 115 081                         | 702 010                                | 318 896                      | 57 064                           | 19 349                       | 3 437                                      | 14 325                                     |
| NEW, TOTAL . . . . . DO . . . . .  | 1 022 004                         | 655 374                                | 294 163                      | 37 949                           | 18 072                       | 3 152                                      | 13 294                                     |
| NEW STRUCTURES AND ADDITIONS TO PLANT . . . . . DO . . . . .                     | 273 140                           | 144 982                                | 102 372                      | 15 814                           | 3 423                        | 540  | 6 009                                      |
| NEW MACHINERY AND EQUIPMENT . . . . . DO . . . . .                               | 748 864                           | 510 392                                | 191 791                      | 22 135                           | 14 649                       | 2 612                                      | 7 285                                      |
| USED PLANT AND EQUIPMENT . . . . . DO . . . . .                                  | 93 077                            | 46 636                                 | 24 733                       | 19 115                           | 1 277                        | 285  | 1 031                                      |
| SELECTED OPERATING RATIOS:   |                                   |  |                              |                                  |                              |  |  |
| PAYROLL/TOTAL EMPLOYMENT . . . . .   | 7 406                             | 7 485                                  | 7 733                        | 6 437                            | 6 693                        | 5 012                                      | 4 823                                      |
| PRODUCTION WORKERS/TOTAL EMPLOYMENT . . . . .                                    | .72                               | .82                                    | .57                          | .84                              | .77                          | .82  | .85  |
| MAN-HOURS/PRODUCTION WORKERS . . . . .   | 2 130                             | 2 214                                  | 2 077                        | 2 006                            | 1 950                        | 1 915                                      | 1 981                                      |
| PRODUCTION WORKER WAGES/MAN-HOURS . . . . .                                      | 3.16                              | 3.22                                   | 3.19                         | 2.98                             | 3.20                         | 2.27                                       | 2.15                                       |
| COST OF MATERIALS AND PAYROLLS/TOTAL VALUE OF SHIPMENTS . . . . .                | .80                               | .80                                    | .81                          | .86                              | .84                          | .83  | .85  |
| COST OF MATERIALS/TOTAL VALUE OF SHIPMENTS . . . . .                             | .59                               | .66                                    | .43                          | .42                              | .62                          | .58  | .66  |
| ADJUSTED VALUE ADDED/TOTAL EMPLOYMENT . . . . .                                  | 14 218                            | 18 421                                 | 11 580                       | 8 550                            | 12 012                       | 8 512                                      | 8 940                                      |
| SALARIES AND WAGES/ADJUSTED VALUE ADDED . . . . .                                | .52                               | .41                                    | .67                          | .75                              | .56                          | .59  | .54  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.



## MOTOR VEHICLES AND EQUIPMENT

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3713—Truck and Bus Bodies
- 3715—Truck Trailers
- 3717—Motor Vehicles and Parts

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3713—TRUCK AND BUS BODIES

This industry comprises establishments primarily engaged in the manufacture of truck and bus bodies for sale separately, or for assembly on purchased chassis. Establishments primarily engaged in manufacturing complete trucks and busses are classified in Census Industry 3717, and stamped body parts for truck and busses in industry 3461.

The code number as well as the definition of this industry was unchanged between 1958 and 1963. For a detailed list of products of industry 3713, refer to table 6A, product codes 3713012 to 3713099.

Value of shipments and other receipts of the Truck and Bus Bodies Industry in 1963 totaled \$477 million. This amount included shipments of truck and bus bodies (primary products) valued at \$362 million, shipments of other products (secondary products) valued at \$56 million, and miscellaneous receipts (mainly resales) at \$58 million.

This industry's shipments of truck and bus bodies in 1963 represented 88 percent of its total product shipments. The industry specialization ratio in 1958 was 87 percent. Secondary products shipped by this industry in 1963 included motor vehicle manufacturers (\$11 million), parts and accessories for passenger cars, trucks, and busses shipped to; other than motor vehicle manufacturers (\$17 million).

Shipments of truck and bus bodies by this industry in 1963 represented 86 percent of all shipments of these products (\$420 million) by all industries. In 1958 the coverage ratio

was 87 percent. Other industries shipping truck and bus bodies consisted mainly of industry 3717, Motor Vehicles and Parts, \$18 million; and industry 3715, Truck Trailers, \$13 million.

#### 3715—TRUCK TRAILERS

This industry comprises establishments primarily engaged in the manufacture of truck trailers and truck trailer chassis for sale separately, but not engaged in manufacturing complete trucks and busses.

The code number as well as the definition of this industry were unchanged between 1958 and 1963. For a detailed list of products of industry 3715, refer to table 6A, product codes 3715011 to 3715055.

Value of shipments and other receipts of the Truck Trailers Industry in 1963 totaled \$516 million. This amount included shipments of truck trailers (primary products) valued at \$450 million, shipments of other products (secondary products) valued at \$39 million, and miscellaneous receipts (mainly resales), at \$27 million.

This industry's shipments of truck trailers in 1963 represented 92 percent of its total product shipments. The industry specialization ratio in 1958 was 84 percent. Secondary products shipped by this industry in 1963 consisted mainly of truck and bus bodies (\$13 million), and automotive parts and accessories shipped to motor vehicle manufacturers (\$10 million).

Shipments of truck trailers by this industry in 1963 represented 93 percent of all shipments of these products (\$485 million) by all industries. In 1958 the coverage ratio was also 93 percent. Other industries shipping truck trailers consisted mainly of industry 3443, Boiler Shop Products, \$2 million; and industry 3717, Motor Vehicles, and Parts, \$6 million.

#### 3717—MOTOR VEHICLES AND PARTS

The Motor Vehicles and Parts Industry includes establishments engaged primarily in the manufacture or assembly of complete passenger automobiles, car bodies, trucks, commercial cars and busses (except trackless trolleys-Industry 3742), special purpose motor vehicles and motor vehicle parts and accessories. Establishments primarily engaged in manufacturing truck and bus bodies and assembling them on purchased chassis are classified in industry 3713; motorcycles in industry 3751; wheel type tractors, except contractors' off-highway types in industry 3522; track laying tractors in industry 3531; and combat tanks in industry 1931.

In this report, based on the 1963 Census of Manufactures, as in 1958, the three Standard Industrial Classification industries (3711, 3712, and 3714) have been combined because of a major problem of defining the reporting unit in terms of these industries. This difficulty arises from the fact that many large establishments have integrated operations which include the production of parts or bodies and the assembly of complete vehicles at the same location.

Included in industry 3717 are such parts as passenger-car bodies, motor vehicle engines (except Diesel), brakes, clutches, axles, radiators, differentials, transmissions, wheels and frames, windshield wipers, automotive bumpers, camshafts, connecting rods, crankshaft assemblies, cylinder heads, drive shafts, exhaust systems, fuel systems, heaters, hoods, horns, instrument board assemblies, lubrication systems, mufflers, power-transmission equipment, rear-axle housings, shock absorbers, steering mechanisms, tops (except stamped metal), universal joints, wheel rims, windshield frames, and automobile accessories, not elsewhere classified.



A considerable number of components, parts and accessories for motor vehicles are not classified in industry 3717 but are classified in other Standard Industrial Classification industries based on the characteristic of the product itself rather than the Specific Application. Among the more important of these are automotive hardware, industry 3429, Hardware, N.E.C.; automotive stampings, industry 3461, Metal Stampings; Diesel and semi-Diesel engines, industry 3519, Internal Combustion Engines; sealed beam and other electric lamps, industry 3641, Electric Lamps; motor vehicle lighting fixtures, industry 3642, Lighting Fixtures; bearings, industry 3566, Power-Transmission Equipment; tires and inner tubes, industry 3011, Tires and Inner Tubes; automobile glass, industry 3211, Flat Glass; ignition equipment such as spark plugs, distributors, switches, ignition coils, generators, cranking motors, etc., industry 3694, Engine Electrical Equipment; storage batteries, industry 3691, Storage Batteries; automobile radios, industry 3651, radio and Television Receiving Sets; and carburetors and pistons, industry 3599, Miscellaneous Machinery.

The code number for this industry in the Standard Industrial Classification Manual is unchanged, but the content of the industry has been slightly changed from the classification system used in 1958. The change in the composition of the industry as now constituted, compared with that under the classification system followed in the 1958 census, is due principally to revision in the definition of this industry made in the 1963 Supplement to the 1957 edition of the Standard Industrial Classification, reclassifying establishments primarily manufacturing automotive wiring harness sets other than ignition, from industry 3694, "Engine Electrical Equipment" to industry 3714 (Census Industry 3717). For a detailed list of products of industry 3717, refer to table 6A, product codes 3717111 to 3717711.

Motor vehicle and equipment companies frequently operate separate establishments manufacturing such components, parts and accessories for automotive use. These establishments are not classified in industry 3717. Therefore, to obtain an overall picture of automotive components, parts and accessories associated with the manufacture or assembly of complete motor vehicles and equipment, reference must also be made to many of the industries outside of industry 3717. This situation occurs, of course, not only in connection with the Motor Vehicles and Parts Industry but for many other industries (aircraft, locomotives, etc.).

Another factor to be considered in dealing with the statistics for this group of industries relates to the varied degree of establishment integration in respect to such metalworking operations as stamping, foundry, and tool and die production associated with the output of motor vehicles and equipment. In some establishments many of these activities are conducted as an integral part of the same establishment which produces or assembles motor vehicles and equipment. In these cases, their employment, wages, materials, etc., are included in the statistics for the establishment. The extent of such integrated captive operations is shown in Table 9 for the motor vehicle industry.

On the other hand, the foundry, and tool and die activities may be set up as separate establishments of motor vehicle and equipment companies or such activities may be performed by establishments which are not part of motor vehicle or parts companies. In either of these cases, data for such separate establishments would not be included in industry 3717, but rather in their respective industries, e.g., Industry Group 332, Iron and Steel Foundries; Industry Group 336, Nonferrous Foundries; and Industry 3544, Special Dies and Tools.

#### Value of Shipments

Data on cost of materials and value of shipments of the Motor Vehicle and Parts Industry include extensive duplication resulting from the transfer of motor vehicle parts to establishments producing complete motor vehicles. The value of such shipments are

duplicated in the total value of shipments. A corresponding duplication enters into the total cost of materials. The data shown for value added by manufacture (value of shipments less cost of materials, etc.) avoid this duplication.

### Replacement Parts

Manufacturers' shipments of replacement parts for passenger cars, trucks, busses, and trailers during 1963 amounted to \$2,318 million. The comparable 1958 figure was \$1,639 million. These figures include parts made by establishments classified in the Motor Vehicles and Parts Industry as well as parts classified as primary products of other industries. They include the value of motor vehicle replacement parts such as spark plugs, ignition coils, storage batteries, carburetors, pistons and piston rings, headlights, fan belts, springs, hardware, mufflers, radiators and cores, water and fuel pumps, wheels, universal joints, cylinder heads, hub and drum assemblies, transmissions, shock absorbers, rear axle shafts, and clutch disc and facing assemblies.

These figures represent the shipments of these parts by parts manufacturers to other than motor vehicle manufacturers and shipments of replacement parts by motor vehicle manufacturers including parts which they purchased and resold in the same condition. No duplication is involved since parts manufacturers reported separately parts shipped to motor vehicle manufacturers and the latter figure is not included in this total. Value of shipments of tires and tubes and motor vehicle accessories such as radios, heaters, etc., are not included in this figure.

In order to arrive at an aggregate value for replacement parts without duplication, establishments producing replacement parts but not engaged in manufacturing complete vehicles were requested to exclude from their shipments data on replacement parts all shipments to motor vehicle producers. Motor vehicle producers that reshipped such replacement parts were requested to report the value of these shipments, even though the parts were not made by such companies. The value of replacement parts in 1963 totaled the \$2,318 million referred to above.

Table 6E shows data for 1963 and 1958 on the total production of selected motor vehicle parts and the use of such parts in the assembly of new vehicles as well as the use of these parts for replacement, export, and other uses. These data are not a precise measure of the sale of replacement parts in the United States since they include shipments of parts for export and are affected by inventory changes of parts during the year by both producers of parts and assemblers of vehicles. Also, see general Note of table 6E for discussion of other limitations of these data.

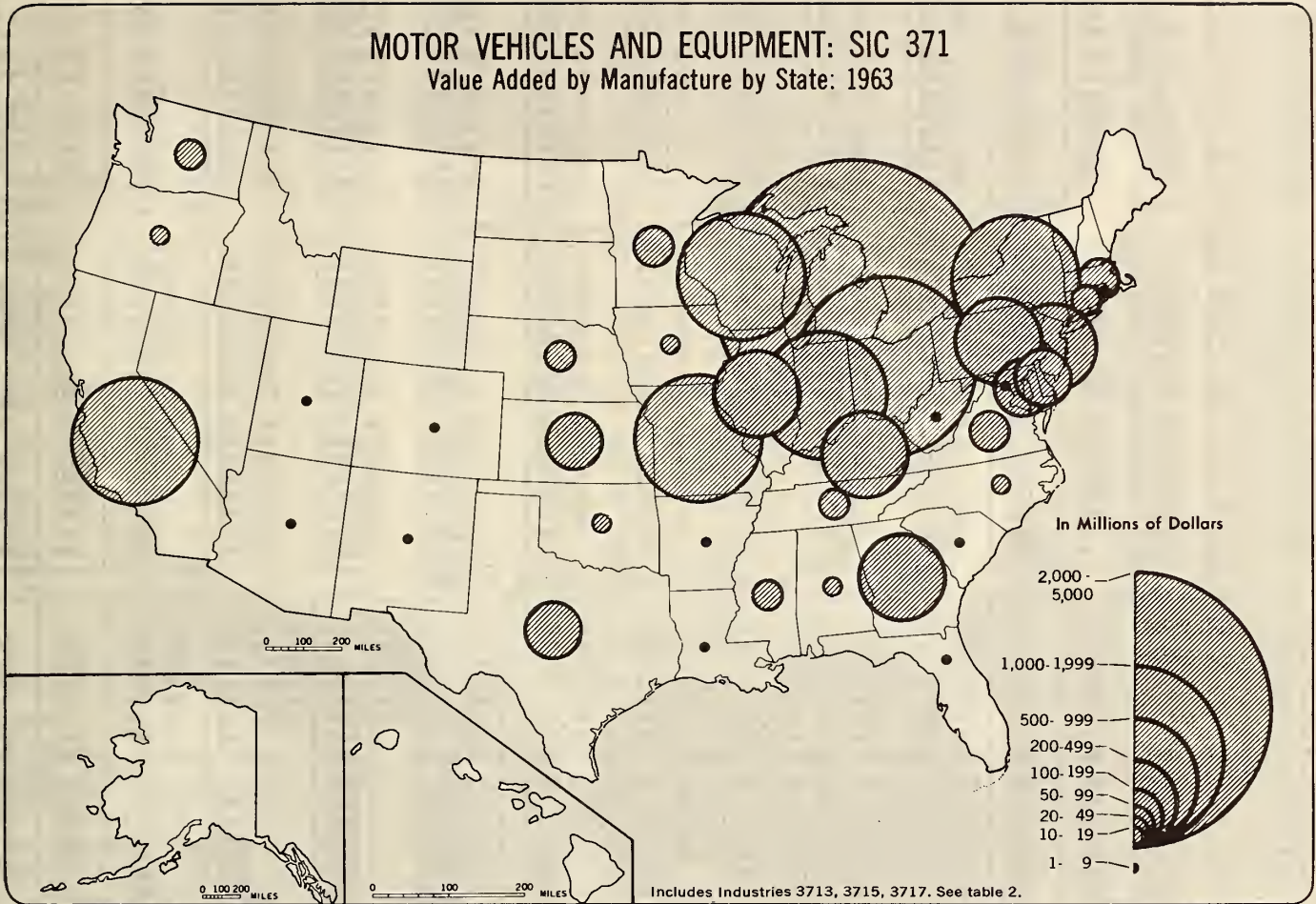
Value of shipments and other receipts of the Motor Vehicles and Parts Industry in 1963 totaled \$36,181 million. This amount included shipments of motor vehicles and parts (primary products) valued at \$34,837 million, shipments of other products (secondary products) valued at \$985 million, and miscellaneous receipts (mainly resales), at \$359 million.

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent to this specialization is indicated in table 8. Approximately 47 percent of the total industry shipments are represented by plants specializing in product class; 37171, Passenger cars, knocked down or assembled and; chassis for sale separately and 36 percent in 37175, Parts and accessories shipped to motor vehicle manufactures.

As shown in table 5B, except for motor vehicle parts and accessories, only a very small amount of primary products of this industry was shipped by establishments classified in other industries.



**MOTOR VEHICLES AND EQUIPMENT: SIC 371**  
**Value Added by Manufacture by State: 1963**



U.S. DEPARTMENT OF COMMERCE

Includes Industries 3713, 3715, 3717. See table 2.

BUREAU OF THE CENSUS



TABLE 1. General Statistics: 1963 and Earlier Years

| Year                                    | Companies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|-----------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|---|-----------------------------------|------------------------------------|---|---|--|
|   |                       | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                   |                                    |   |   |  |
| INDUSTRY 3713.—TRUCK AND BUS BODIES     |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1963.....                               | 594                   | 610               | 208  | 24,466            | 133,300              | 19,729             | 40,897               | 98,359             | 229,472   | 250,217                           | 476,733                            | 6,554   | 88  | 86                                       |
| 1962 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 25,066            | 131,713              | 19,707             | 41,182               | 94,448             | 200,302   | 317,907                           | 503,970                            | (6,936)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 23,237            | 115,554              | 18,278             | 36,606               | 80,890             | 160,341   | 216,949                           | 374,121                            | 33,843  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 24,247            | 120,144              | 21,171             | 37,686               | 87,518             | 172,707   | 223,735                           | 394,813                            | (S)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 22,815            | 108,904              | 18,007             | 35,681               | 78,045             | 157,582   | 207,523                           | 362,803                            | (S)   | (NA)  | (NA)                                     |
| 1958.....                               | 550                   | 562               | 187  | 20,009            | 91,374               | 15,938             | 30,741               | 65,405             | 145,608   | 163,674                           | 307,769                            | 3,627   | 87  | 87                                       |
| 1957 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 21,316            | 93,629               | 17,026             | 34,136               | 67,776             | 148,373   | 154,180                           | 302,473                            | (S)   | 90  | 87                                       |
| 1956 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 23,286            | 99,424               | 19,147             | 38,724               | 75,533             | 156,424   | 163,272                           | 312,847                            | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 21,360            | 89,158               | 17,535             | 35,354               | 66,357             | 141,469   | 144,424                           | 280,368                            | 5,005   | (NA)  | (NA)                                     |
| 1954.....                               | 555                   | 565               | 172  | 19,618            | 80,380               | 15,869             | 31,988               | 58,192             | 120,499   | 136,792                           | 256,883                            | 3,697   | 86  | 87                                       |
| 1953 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 20,836            | 83,510               | 17,329             | (NA)                 | 65,764             | 126,013   | 132,433                           | 258,446                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 21,894            | 85,050               | 18,166             | (NA)                 | 65,381             | 136,051   | 135,606                           | 271,657                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 24,285            | 88,552               | 20,787             | (NA)                 | 69,793             | 137,620   | 154,098                           | 291,718                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 18,068            | 58,225               | 14,692             | (NA)                 | 43,947             | 82,881  | 80,923                            | 163,804                            | (NA)  | (NA)  | (NA)                                     |
| 1947 <sup>2</sup> .....                 | 599                   | 603               | 206  | 26,646            | 78,386               | 22,876             | 47,209               | 62,664             | 127,429   | 114,868                           | 242,297                            | (NA)  | 79  | 90                                       |
| INDUSTRY 3715.—TRUCK TRAILERS           |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1963.....                               | 175                   | 197               | 105  | 19,429            | 112,876              | 15,455             | 30,896               | 81,703             | 205,475   | 309,463                           | 515,661                            | 5,265   | 92  | 93                                       |
| 1962 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 20,205            | 117,329              | 15,833             | 31,789               | 83,029             | 218,489   | 325,649                           | 543,804                            | 6,150   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 17,205            | 94,260               | 13,255             | 26,274               | 65,792             | 158,058   | 247,165                           | 405,403                            | 10,182  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 18,854            | 101,564              | 14,729             | 29,583               | 72,725             | 170,094   | 267,810                           | 438,548                            | 7,899   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 20,622            | 107,127              | 16,701             | 35,413               | 77,990             | 203,195   | 304,962                           | 505,418                            | (10,300)  | (NA)  | (NA)                                     |
| 1958.....                               | 154                   | 170               | 93   | 15,669            | 78,142               | 12,090             | 24,564               | 55,390             | 131,140   | 206,258                           | 334,724                            | 5,072   | 84  | 93                                       |
| 1957 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 16,427            | 82,470               | 12,329             | 24,737               | 55,510             | 137,424   | 215,352                           | 354,079                            | (S)   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 19,163            | 92,336               | 14,830             | 30,072               | 65,516             | 158,773   | 261,910                           | 415,659                            | 7,108   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 18,957            | 91,766               | 15,138             | 32,376               | 67,498             | 147,181   | 264,348                           | 408,208                            | 6,181   | (NA)  | (NA)                                     |
| 1954.....                               | 115                   | 130               | 78   | 16,381            | 72,904               | 13,023             | 26,197               | 52,352             | 115,718   | 200,943                           | 316,832                            | 2,788   | 82  | 93                                       |
| 1953 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 19,411            | 80,611               | 15,738             | 32,730               | 61,319             | 147,458   | 243,520                           | 390,978                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 17,497            | 69,312               | 14,063             | 29,046               | 52,349             | 104,298   | 188,728                           | 293,026                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 18,080            | 68,454               | 14,920             | (NA)                 | 52,933             | 112,340   | 215,657                           | 327,997                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                 | (NA)                  | (NA)              | (NA)   | 11,826            | 43,583               | 9,905              | 20,752               | 33,742             | 92,022  | 147,242                           | 239,264                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                               | 107                   | 120               | (NA)   | 12,488            | 36,287               | 9,741              | 19,239               | 25,964             | 67,570  | 88,116                            | 155,686                            | (NA)  | 81  | 87                                       |
| 1939 <sup>2</sup> .....                 | (NA)                  | 99                | (NA)   | (NA)              | (NA)                 | 3,960              | (NA)                 | 5,291              | 13,626  | 22,356                            | 35,982                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3717.—MOTOR VEHICLES AND PARTS |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1963.....                               | 1,655                 | 1,958             | 909  | 649,926           | 4,947,271            | 535,842            | 1,192,606            | 3,889,636          | 12,345,630  | <sup>3</sup> 23,889,431           | <sup>3</sup> 36,181,007            | 643,555   | 97  | 98                                       |
| 1962 <sup>1 4</sup> .....               | (NA)                  | (NA)              | (NA)   | 628,386           | 4,465,378            | 517,189            | 1,110,236            | 3,483,972          | 11,110,932  | <sup>3</sup> 21,573,772           | <sup>3</sup> 32,673,777            | 492,177   | (NA)  | (NA)                                     |
| 1961 <sup>1 4</sup> .....               | (NA)                  | (NA)              | (NA)   | 569,619           | 3,779,955            | 460,339            | 945,118              | 2,881,527          | 8,541,738   | <sup>3</sup> 17,198,955           | <sup>3</sup> 25,847,658            | 381,601   | (NA)  | (NA)                                     |
| 1960 <sup>1 4</sup> .....               | (NA)                  | (NA)              | (NA)   | 658,148           | 4,319,876            | 540,751            | 1,131,519            | 3,378,515          | 9,717,429   | <sup>3</sup> 20,312,551           | <sup>3</sup> 30,110,144            | 462,402   | (NA)  | (NA)                                     |
| 1959 <sup>1 4</sup> .....               | (NA)                  | (NA)              | (NA)   | 599,912           | 3,914,529            | 489,423            | 1,057,969            | 3,019,106          | 8,915,412   | <sup>3</sup> 17,913,691           | <sup>3</sup> 26,712,803            | 386,609   | (NA)  | (NA)                                     |
| 1958 <sup>1 4</sup> .....               | 1,257                 | 1,560             | 753  | 546,037           | 3,169,173            | 433,982            | 858,440              | 2,374,447          | 6,504,510   | <sup>3</sup> 14,188,996           | <sup>3</sup> 20,830,059            | 334,068   | 96  | 99                                       |
| 1958 <sup>4</sup> (old).....            | (NA)                  | 1,264             | 652  | 530,658           | 3,094,135            | 421,623            | 832,838              | 2,318,958          | 6,332,327   | (NA)                              | (NA)                               | 311,437   | (NA)  | (NA)                                     |
| 1957 <sup>1 4</sup> .....               | (NA)                  | (NA)              | (NA)   | 688,355           | 3,755,274            | 554,555            | 1,129,105            | 2,946,041          | 8,291,255   | (NA)                              | (NA)                               | 665,801   | (NA)  | (NA)                                     |
| 1956 <sup>1 4</sup> .....               | (NA)                  | (NA)              | (NA)   | 679,097           | 3,597,338            | 558,609            | 1,145,681            | 2,837,522          | 7,628,002   | (NA)                              | (NA)                               | 1,017,454   | (NA)  | (NA)                                     |
| 1955 <sup>1 4</sup> .....               | (NA)                  | (NA)              | (NA)   | 777,450           | 4,154,649            | 667,816            | 1,436,193            | 3,407,836          | 9,432,120   | (NA)                              | (NA)                               | 592,253   | (NA)  | (NA)                                     |
| 1954 <sup>4</sup> .....                 | 991                   | 1,226             | 649  | 649,274           | 3,214,827            | 545,359            | 1,125,912            | 2,569,419          | 5,901,436   | (NA)                              | (NA)                               | 722,199   | (NA)  | (NA)                                     |
| 1953 <sup>1 4</sup> .....               | (NA)                  | (NA)              | (NA)   | 807,597           | 3,812,230            | 684,336            | 1,385,869            | 3,085,219          | 6,940,945   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1 4</sup> .....               | (NA)                  | (NA)              | (NA)   | 664,727           | 3,043,274            | 557,993            | 1,147,912            | 2,445,109          | 5,819,252   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1 4</sup> .....               | (NA)                  | (NA)              | (NA)   | 723,503           | 2,971,973            | 621,090            | (NA)                 | 2,428,338          | 5,635,879   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1 4</sup> .....               | (NA)                  | (NA)              | (NA)   | 720,788           | 2,839,371            | 625,462            | 1,281,758            | 2,355,462          | 5,919,893   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1 4</sup> .....               | (NA)                  | (NA)              | (NA)   | 648,326           | 2,370,355            | 552,448            | 1,103,235            | 1,932,590          | 4,583,364   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1947 <sup>2 4</sup> .....               | (NA)                  | 951               | (NA)   | 645,067           | 2,039,872            | 552,055            | 1,102,482            | 1,666,913          | 3,544,924   | (NA)                              | (NA)                               | 269,720   | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1954 excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1954 excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. For 1959-1962 the figures shown in parenthesis either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>No comparable figures are available for earlier years.

<sup>3</sup>Includes extensive duplication arising from shipments between establishments in the same industry classification.

<sup>4</sup>A revision in the definition of this industry was made in the 1963 Supplement to the 1957 edition of the Standard Industrial Classification, reclassifying establishments primarily manufacturing automotive wiring harness sets other than ignition, from Industry 3694, "Engine Electrical Equipment" to Industry 3714 (Census Industry 3717). The statistics for 1958-1962 have been revised to take this reclassification into account. The data for 1947-1957 could not be revised to conform with this reclassification. Further, the 1947-1957 data are not strictly comparable with 1958-1963 because of changes introduced in the 1957 Standard Industrial Classification.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>        | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|-------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|                                     | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|                                     | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3713.—TRUCK AND BUS BODIES |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                          | 610            | 208                                | 24,466         | 133,300           | 19,729             | 40,897            | 98,359          | 229,472                              | 250,217           | 476,733            | 6,554                     | 20,009           | 145,608                              |
| New England.....                    | 33             | 7                                  | 424            | 2,192             | 341                | 713               | 1,628           | 3,528                                | 3,932             | 7,461              | 128                       | 340              | 1,787                                |
| Middle Atlantic....                 | 119            | 43                                 | 3,362          | 17,379            | 2,777              | 5,722             | 13,062          | 25,875                               | 33,168            | 58,453             | 733                       | 3,836            | 29,723                               |
| New York.....                       | 44             | 16                                 | 1,075          | 5,351             | 884                | 1,836             | 4,039           | 8,358                                | 10,714            | 18,968             | 260                       | 1,848            | 14,667                               |
| New Jersey.....                     | 24             | 7                                  | 566            | 3,371             | 478                | 1,054             | 2,622           | 4,757                                | 5,936             | 10,610             | 183                       | 637              | 6,002                                |
| Pennsylvania.....                   | 51             | 20                                 | 1,721          | 8,657             | 1,415              | 2,832             | 6,401           | 12,760                               | 16,518            | 28,875             | 290                       | 1,351            | 9,054                                |
| East North Central.                 | 119            | 53                                 | 10,864         | 63,161            | 8,684              | 18,129            | 47,351          | 106,745                              | 111,057           | 217,608            | 2,095                     | 8,529            | 63,594                               |
| Illinois.....                       | 27             | 10                                 | 980            | 5,278             | 811                | 1,702             | 3,700           | 8,546                                | 11,435            | 20,007             | 270                       | 980              | 6,358                                |
| Michigan.....                       | 23             | 9                                  | 2,027          | 12,814            | 1,616              | 3,826             | 9,641           | 20,782                               | 17,796            | 38,624             | 332                       | 261              | 1,827                                |
| West North Central.                 | 77             | 26                                 | 1,993          | 10,330            | 1,579              | 3,145             | 7,187           | 18,834                               | 21,043            | 39,353             | 1,775                     | 1,662            | 12,168                               |
| Minnesota.....                      | 18             | 6                                  | 331            | 1,986             | 249                | 496               | 1,287           | 3,134                                | 5,208             | 8,257              | 26                        | 240              | 2,092                                |
| Iowa.....                           | 13             | 3                                  | 281            | 1,156             | 233                | 485               | 881             | 1,822                                | 2,725             | 4,526              | (D)                       | 296              | 1,951                                |
| Missouri.....                       | 31             | 13                                 | 1,128          | 6,060             | 881                | 1,720             | 4,216           | 11,872                               | 11,096            | 22,602             | 1,481                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Nebraska.....                       | 5              | 2                                  | 152            | 659               | 132                | 268               | 528             | 1,009                                | 1,026             | 2,009              | 72                        | 169              | 1,013                                |
| South Atlantic....                  | 70             | 22                                 | 2,828          | 13,550            | 2,318              | 5,078             | 9,452           | 22,334                               | 28,492            | 49,184             | 681                       | 2,062            | 11,500                               |
| Maryland.....                       | 11             | 2                                  | 162            | 727               | 133                | 269               | 515             | 997                                  | 1,590             | 2,574              | 30                        | 172              | 710                                  |
| Virginia.....                       | 11             | 3                                  | 423            | 2,048             | 327                | 761               | 1,446           | 3,146                                | 4,930             | 7,583              | 176                       | 232              | 1,478                                |
| Georgia.....                        | 13             | 5                                  | 901            | 3,903             | 762                | 1,593             | 2,684           | 5,831                                | 10,241            | 15,692             | 165                       | 700              | 3,117                                |
| East South Central.                 | 35             | 11                                 | 1,192          | 5,387             | 999                | 1,997             | 4,280           | 12,544                               | 14,320            | 26,941             | 479                       | 781              | 5,148                                |
| Alabama.....                        | 9              | 2                                  | 334            | 1,422             | 259                | 532               | 1,012           | 2,610                                | 2,960             | 5,412              | 140                       | 149              | 1,174                                |
| West South Central.                 | 39             | 11                                 | 1,006          | 4,404             | 859                | 1,793             | 3,353           | 8,995                                | 9,655             | 18,386             | 122                       | 801              | 6,067                                |
| Texas.....                          | 19             | 6                                  | 475            | 2,243             | 383                | 823               | 1,642           | 5,349                                | 4,740             | 9,925              | 87                        | 436              | 3,872                                |
| Mountain.....                       | 13             | 2                                  | 170            | 955               | 114                | 212               | 562             | 1,347                                | 1,512             | 2,884              | 30                        | 180              | 1,124                                |
| Pacific.....                        | 105            | 33                                 | 2,627          | 15,942            | 2,058              | 4,108             | 11,484          | 29,270                               | 27,038            | 56,463             | 511                       | 1,818            | 14,497                               |
| Washington.....                     | 9              | 4                                  | 182            | 1,214             | 152                | 290               | 954             | 2,157                                | 1,764             | 3,914              | 27                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Oregon.....                         | 13             | 5                                  | 280            | 1,579             | 228                | 453               | 1,244           | 3,385                                | 2,847             | 6,223              | 37                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                     | 83             | 24                                 | 2,165          | 13,149            | 1,678              | 3,365             | 9,286           | 23,728                               | 22,427            | 46,326             | 447                       | 1,642            | 13,196                               |
| INDUSTRY 3715.—TRUCK TRAILERS       |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                          | 197            | 105                                | 19,429         | 112,876           | 15,455             | 30,896            | 81,703          | 205,475                              | 309,463           | 515,661            | 5,265                     | 15,669           | 131,140                              |
| New England.....                    | 5              | 2                                  | 101            | 421               | 86                 | 162               | 333             | 703                                  | 516               | 1,225              | 12                        | 65               | 435                                  |
| Middle Atlantic....                 | 36             | 18                                 | 3,891          | 23,064            | 3,183              | 6,021             | 16,875          | 39,620                               | 66,913            | 106,872            | 1,029                     | 1,717            | 21,420                               |
| New York.....                       | 7              | 2                                  | 184            | 897               | 137                | 238               | 551             | 1,972                                | 3,017             | 5,269              | 48                        | 233              | 2,419                                |
| New Jersey.....                     | 6              | 1                                  | 152            | 834               | 123                | 231               | 597             | 840                                  | 1,980             | 2,774              | 16                        | 151              | 1,382                                |
| Pennsylvania.....                   | 23             | 15                                 | 3,555          | 21,333            | 2,923              | 5,552             | 15,727          | 36,808                               | 61,916            | 98,829             | 965                       | 1,333            | 17,619                               |
| East North Central.                 | 37             | 24                                 | 5,961          | 35,759            | 4,829              | 9,494             | 26,783          | 75,189                               | 101,442           | 176,555            | 1,889                     | 4,524            | 34,322                               |
| Michigan.....                       | 8              | 2                                  | 168            | 1,027             | 132                | 266               | 749             | 2,169                                | 1,325             | 3,389              | 14                        | 182              | 1,654                                |
| West North Central.                 | 20             | 14                                 | 2,196          | 12,777            | 1,593              | 3,182             | 8,350           | 21,694                               | 28,688            | 49,889             | 543                       | 2,203            | 18,523                               |
| Iowa.....                           | 5              | 3                                  | 380            | 2,125             | 279                | 590               | 1,335           | 4,125                                | 4,937             | 9,048              | (D)                       | 291              | 2,794                                |
| South Atlantic....                  | 13             | 4                                  | 975            | 4,762             | 791                | 1,660             | 3,400           | 4,441                                | 14,210            | 20,013             | 135                       | 1,212            | 7,507                                |
| East South Central.                 | 11             | 7                                  | 1,595          | 7,677             | 1,265              | 2,825             | 5,908           | 14,880                               | 26,847            | 41,609             | 270                       | 1,570            | 9,779                                |
| West South Central.                 | 26             | 12                                 | 2,041          | 10,970            | 1,645              | 3,492             | 8,076           | 20,444                               | 29,036            | 49,084             | 621                       | 1,636            | 13,836                               |
| Mountain.....                       | 9              | 5                                  | 478            | 2,809             | 367                | 726               | 1,966           | 3,757                                | 6,567             | 10,228             | 102                       | 344              | 4,128                                |
| Pacific.....                        | 40             | 19                                 | 2,191          | 14,637            | 1,696              | 3,334             | 10,012          | 24,747                               | 35,244            | 60,186             | 664                       | 2,398            | 21,190                               |
| Oregon.....                         | 5              | 3                                  | 227            | 1,639             | 173                | 349               | 1,143           | 2,708                                | 4,948             | 7,538              | 282                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                     | 28             | 11                                 | 1,641          | 11,060            | 1,243              | 2,462             | 7,414           | 18,479                               | 24,970            | 44,064             | 277                       | 1,918            | 15,999                               |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>            | 1963           |                                    |                |                   |                    |                   |                 |  |                             |                              | 1958                                |                        |  |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|------------------------|--|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |                        |  |
| INDUSTRY 3717.—MOTOR VEHICLES AND PARTS |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| Total.....                              | 1,958          | 909                                | 649,926        | 4,947,271         | 535,842            | 1,192,606         | 3,889,636       | 12,345,630                                     | 23,889,431                  | 36,181,007                   | 643,555                             | 546,037                | 6,504,510                                      |
| New England.....                        | 67             | 24                                 | 7,224          | 45,691            | 5,722              | 12,504            | 32,908          | 118,606  | 240,002                     | 353,766                      | 4,683                               | 5,461                  | 50,627   |
| Connecticut.....                        | 17             | 8                                  | 3,694          | 21,924            | 2,855              | 5,588             | 14,788          | 36,093   | 41,971                      | 72,906                       | 1,413                               | 2,419                  | 22,772   |
| Middle Atlantic....                     | 215            | 97                                 | 64,148         | 493,205           | 51,346             | 114,975           | 378,655         | 1,167,879                                      | 2,362,631                   | 3,521,332                    | 63,606                              | 63,312                 | 747,798  |
| New York.....                           | 95             | 44                                 | 38,389         | 296,817           | 31,065             | 70,350            | 232,015         | 625,282  | 1,118,142                   | 1,740,295                    | 38,363                              | 33,082                 | 354,116  |
| East North Central.                     | 799            | 476                                | 479,355        | 3,672,140         | 398,233            | 877,265           | 2,912,465       | 8,460,889                                      | 14,769,393                  | 23,193,359                   | 436,306                             | 400,160                | 4,543,441                                      |
| Ohio.....                               | 180            | 121                                | 105,218        | 792,195           | 87,436             | 190,715           | 631,238         | 1,820,652                                      | 2,813,069                   | 4,632,877                    | 78,448                              | 82,294                 | 933,006  |
| Indiana.....                            | 108            | 67                                 | 56,962         | 394,700           | 46,799             | 95,127            | 304,829         | 734,887  | 982,703                     | 1,730,305                    | 34,554                              | 43,577                 | 507,461  |
| Michigan.....                           | 333            | 200                                | 261,154        | 2,087,364         | 215,741            | 488,760           | 1,649,948       | 4,881,329                                      | 9,041,168                   | 13,879,415                   | 287,447                             | 229,200                | 2,572,339                                      |
| West North Central.                     | 115            | 53                                 | 29,522         | 229,762           | 24,403             | 57,398            | 179,897         | 853,344  | 2,242,270                   | 3,095,765                    | 37,737                              | 22,740                 | 405,032  |
| Iowa.....                               | 17             | 8                                  | 526            | 2,656             | 459                | 954               | 2,100           | 7,268  | 7,039                       | 14,074                       | 548                                 | 613                    | 4,415  |
| South Atlantic....                      | 140            | 48                                 | 25,550         | 199,243           | 20,775             | 49,868            | 154,764         | 724,180  | 1,871,695                   | 2,588,252                    | 21,779                              | 19,327                 | 300,078  |
| North Carolina....                      | 20             | 4                                  | 1,102          | 4,659             | 879                | 1,840             | 3,505           | 11,179   | 8,062                       | 18,883                       | 1,157                               | 746                    | 5,759  |
| Florida.....                            | 42             | 5                                  | 374            | 1,617             | 301                | 638               | 1,240           | 2,709  | 2,839                       | 5,537                        | 1,662                               | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| East South Central.                     | 62             | 42                                 | 9,930          | 57,982            | 8,085              | 17,861            | 42,245          | 252,696  | 347,761                     | 597,547                      | 9,736                               | 7,196                  | 95,330   |
| Alabama.....                            | 12             | 6                                  | 846            | 4,083             | 752                | 1,563             | 3,202           | 8,505  | 8,849                       | 17,072                       | 359                                 | 540                    | 5,049  |
| Mississippi.....                        | 8              | 7                                  | 1,523          | 7,025             | 1,246              | 2,614             | 4,726           | 16,419   | 12,936                      | 27,596                       | 979                                 | 962                    | 5,693  |
| West South Central.                     | 153            | 46                                 | 7,633          | 52,787            | 6,245              | 15,208            | 40,332          | 189,534  | 404,942                     | 592,258                      | 10,596                              | 5,078                  | 76,499   |
| Oklahoma.....                           | 27             | 7                                  | 1,201          | 6,237             | 994                | 2,201             | 4,673           | 17,250   | 9,177                       | 25,586                       | 4,656                               | 403                    | 4,286  |
| Mountain.....                           | 63             | 13                                 | 993            | 5,139             | 792                | 1,570             | 3,588           | 9,630  | 9,158                       | 17,443                       | 1,665                               | 470                    | 3,121  |
| Colorado.....                           | 25             | 10                                 | 677            | 3,690             | 526                | 1,037             | 2,507           | 7,331  | 6,471                       | 12,480                       | (D)                                 | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| Pacific.....                            | 344            | 110                                | 25,571         | 191,322           | 20,241             | 45,957            | 144,782         | 568,872  | 1,641,579                   | 2,221,285                    | 57,447                              | 22,293                 | 282,584  |
| California.....                         | 307            | 102                                | 23,194         | 175,988           | 18,462             | 42,576            | 133,917         | 541,217  | 1,586,060                   | 2,138,586                    | 55,719                              | 20,778                 | 268,475  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State. SIC 3713, Truck and bus bodies: New England—Maine, 3 (20-99); Massachusetts, 17 (250-499); Rhode Island, 2 (20-99); Connecticut, 11 (20-99); East North Central—Ohio, 35 (4,132); Indiana, 20 (2,028); Wisconsin, 14 (1,697); West North Central—South Dakota, 3 (1-19); Kansas, 7 (20-99); South Atlantic—District of Columbia, 1 (100-249); West Virginia, 1 (1-19); North Carolina, 14 (500-999); South Carolina, 4 (20-99); Florida, 15 (229); East South Central—Kentucky, 7 (20-99); Tennessee, 13 (235); Mississippi, 6 (500-999); West South Central—Arkansas, 9 (250-499); Louisiana, 5 (100-249); Oklahoma, 6 (20-99); Mountain—Idaho, 3 (20-99); Colorado, 2 (20-99); Arizona, 2 (1-19); Utah, 4 (20-99); Nevada, 2 (1-19). SIC 3715, Truck Trailers: New England—Massachusetts, 4 (20-99); Connecticut, 1 (1-19); East North Central—Ohio, 8 (3,125); Indiana, 7 (1,236); Illinois, 10 (456); Wisconsin, 4 (976); West North Central—Minnesota, 1 (250-499); Missouri, 8 (718); South Dakota, 1 (1-19); Nebraska, 3 (502); Kansas, 2 (100-249); South Atlantic—Maryland, 3 (1-19); Virginia, 2 (20-99); West Virginia, 1 (20-99); North Carolina, 1 (1-19); South Carolina, 1 (20-99); Georgia, 1 (500-999); Florida, 4 (240); East South Central—Kentucky, 2 (250-499); Tennessee, 3 (475); Alabama, 5 (742); Mississippi, (1-19); West South Central—Arkansas, 2 (1-19); Louisiana, 2 (250-499); Oklahoma, 2 (250-499); Texas, 20 (1,452); Mountain—Montana, 2 (20-99); Idaho, 1 (1-19); Colorado, 2 (250-499); New Mexico, 3 (20-99); Utah, 1 (20-99); Pacific—Washington, 6 (250-499); Hawaii, 1 (20-99). SIC 3717, Motor Vehicles and Parts: New England—Maine, 2 (1-19); New Hampshire, 2 (1-19); Massachusetts, 38 (2,939); Rhode Island, 8 (500-999); Middle Atlantic—New Jersey, 53 (12,156); Pennsylvania, 67 (13,603); East North Central—Illinois, 143 (20,973); Wisconsin, 35 (35,048); West North Central—Minnesota, 29 (2,500-4,999); Missouri, 47 (21,621); South Dakota, 3 (1-19); Nebraska, 6 (1,008); Kansas, 13 (3,650); South Atlantic—Delaware, 3 (5,816); Maryland, 15 (6,851); Virginia, 11 (1,860); West Virginia, 4 (500-999); South Carolina, 1 (100-249); Georgia, 44 (8,806); East South Central—Kentucky, 17 (4,164); Tennessee, 25 (3,397); West South Central—Arkansas, 12 (335); Louisiana, 9 (107); Texas, 105 (5,990); Mountain—Montana, 1 (1-19); Idaho, 6 (20-99); New Mexico, 4 (20-99); Arizona, 19 (100-249); Utah, 7 (20-99); Nevada, (1-19); Pacific—Washington, 16 (1,000-2,499); Oregon, 20 (500-999); Hawaii, 1 (1-19).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.



TABLE 3. Detailed Statistics: 1963

| Item  | Truck and bus bodies<br>(SIC 3713) | Truck trailers<br>(SIC 3715) | Motor vehicles and parts<br>(SIC 3717) |
|---|------------------------------------|------------------------------|--|
| Primary product specialization ratio <sup>1</sup> .....       | 88                                 | 92                           | 97                                     |
| Coverage ratio <sup>2</sup> .....                             | 86                                 | 93                           | 98                                     |
| Establishments, total.....number..                            | 610                                | 197                          | 1,958                                  |
| With 1 to 19 employees.....do...                              | 402                                | 92                           | 1,049                                  |
| With 20 to 99 employees.....do...                             | 163                                | 60                           | 468                                    |
| With 100 employees or more.....do...                          | 45                                 | 45                           | 441                                    |
| Proprietors and working partners.....do...                    | 335                                | 68                           | 664                                    |
| All employees (average for the year).....do...                | 24,466                             | 19,429                       | 649,926                                |
| Payroll (all employees), total for year.....\$1,000..         | 133,300                            | 112,876                      | 4,947,271                              |
| Production workers:   |                                    |                              |  |
| Average for the year.....number..                             | <sup>3</sup> 19,835                | <sup>3</sup> 15,497          | <sup>3</sup> 546,200                   |
| January.....do...   | 19,880                             | 15,266                       | 562,740                                |
| February.....do...  | 19,444                             | 15,358                       | 555,547                                |
| March.....do...   | 19,152                             | 15,415                       | 557,610                                |
| April.....do...   | 20,035                             | 14,863                       | 565,948                                |
| May.....do...   | 20,423                             | 14,880                       | 547,762                                |
| June.....do...  | 20,862                             | 15,470                       | 569,069                                |
| July.....do...  | 20,404                             | 15,611                       | 476,371                                |
| August.....do...  | 20,141                             | 15,608                       | 439,376                                |
| September.....do...   | 19,921                             | 15,713                       | 485,862                                |
| October.....do...   | 19,814                             | 15,985                       | 592,178                                |
| November.....do...  | 19,203                             | 15,916                       | 598,620                                |
| December.....do...  | 18,743                             | 15,899                       | 603,314                                |
| Man-hours.....1,000..   | 40,897                             | 30,896                       | 1,192,606                              |
| January-March.....do...                                       | 9,605                              | 7,564                        | 291,916                                |
| April-June.....do...  | 10,862                             | 7,620                        | 305,146                                |
| July-September.....do...                                      | 10,565                             | 7,740                        | 268,483                                |
| October-December.....do...                                    | 9,865                              | 7,972                        | 327,061                                |
| Wages.....\$1,000..   | 98,359                             | 81,703                       | 3,889,636                              |
| Cost of materials, etc., total.....do...                      | 250,217                            | 309,463                      | 23,889,431                             |
| Materials, parts, containers, and supplies consumed.....do... | 224,561                            | 298,517                      | 23,517,962                             |
| Cost of resales.....do...                                     | 18,774                             | 6,711                        | 145,091                                |
| Fuels consumed.....do...                                      | 1,456                              | 1,101                        | 75,221                                 |
| Electric energy:  |                                    |                              |  |
| Purchased:  |                                    |                              |  |
| Quantity.....million kw.-hrs..                                | 161                                | 117                          | 10,836                                 |
| Cost.....\$1,000..  | 2,427                              | 1,678                        | 114,676                                |
| Generated less sold.....million kw.-hrs..                     | (D)                                | -                            | 140                                    |
| Contract work.....\$1,000..                                   | 3,147                              | 1,458                        | 36,481                                 |
| Value of shipments (including resales), total.....do...       | 476,733                            | 515,661                      | 36,181,007                             |
| Value of resales.....do...                                    | 21,254                             | 9,992                        | 174,554                                |
| Value added by manufacture, adjusted.....do...                | 229,472                            | 205,475                      | 12,345,630                             |
| Manufacturers' inventories:                                   |                                    |                              |  |
| Beginning of year, total.....do...                            | 67,754                             | 82,140                       | 2,330,197                              |
| Finished products.....do...                                   | 12,168                             | 12,186                       | 432,026                                |
| Work-in-process.....do...                                     | 27,363                             | 13,676                       | 984,940                                |
| Materials, supplies, fuel, etc.....do...                      | 28,223                             | 56,278                       | 913,221                                |
| End of year, total.....do...                                  | 74,333                             | 82,091                       | 2,470,815                              |
| Finished products.....do...                                   | 13,772                             | 13,153                       | 407,777                                |
| Work-in-process.....do...                                     | 28,715                             | 11,986                       | 1,064,213                              |
| Materials, supplies, fuel, etc.....do...                      | 31,846                             | 56,952                       | 998,825                                |
| Expenditures for plant and equipment, total.....do...         | 6,943                              | 5,885                        | 682,490                                |
| New, total.....do...  | 6,554                              | 5,265                        | 643,555                                |
| New structures and additions to plant.....do...               | 3,064                              | 1,189                        | 140,729                                |
| New machinery and equipment.....do...                         | 3,490                              | 4,076                        | 502,826                                |
| Used plant and equipment.....do...                            | 389                                | 620                          | 45,627                                 |
| Selected operating ratios:                                    |                                    |                              |  |
| Payroll/Total employment.....                                 | 5,448                              | 5,810                        | 7,612                                  |
| Production workers/Total employment.....                      | .81                                | .80                          | .82                                    |
| Man-hours/Production workers.....                             | 2,074                              | 1,999                        | 2,226                                  |
| Production worker wages/Man-hours.....                        | 2.41                               | 2.64                         | 3.26                                   |
| Cost of materials and payrolls/Total value of shipments.....  | .80                                | .82                          | .80                                    |
| Cost of materials/Total value of shipments.....               | .52                                | .60                          | .66                                    |
| Adjusted value added/Total employment.....                    | 9,379                              | 10,576                       | 18,995                                 |
| Salaries and wages/Adjusted value added.....                  | .58                                | .55                          | .40                                    |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

<sup>3</sup>Differs from the production worker figure appearing in tables 1, 2, and 8 because the figures in those tables are based on employment for the payroll periods ended nearest the 15th of March, May, August and November. In this table they represent the average of 12 monthly figures.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item                                    | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3713.—TRUCK AND BUS BODIES     |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..             | 610                   | 156                                | 99               | 147                | 119                | 44                 | 23                   | 14                   | 5                    | 3                        | -                        |
| All employees:                          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                        | 24,466                | 309                                | 714              | 2,070              | 3,679              | 3,137              | 3,537                | 4,869                | 2,818                | 3,333                    | -                        |
| Payroll.....\$1,000..                   | 133,300               | 1,394                              | 3,324            | 9,957              | 19,855             | 16,898             | 17,844               | 27,067               | 14,699               | 22,262                   | -                        |
| Value added, adjusted.....do....        | 229,472               | 2,806                              | 5,980            | 17,523             | 35,540             | 28,538             | 32,627               | 42,724               | 26,902               | 36,832                   | -                        |
| Value of shipments.....do....           | 476,733               | 6,120                              | 12,656           | 35,701             | 70,292             | 62,239             | 61,301               | 95,566               | 59,013               | 73,845                   | -                        |
| Capital expenditures, new...do....      | 6,554                 | 109                                | 162              | 502                | 942                | 936                | 706                  | 1,136                | 1,652                | 409                      | -                        |
| INDUSTRY 3715.—TRUCK TRAILERS           |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..             | 197                   | 45                                 | 14               | 33                 | 31                 | 29                 | 21                   | 17                   | 4                    | 3                        | -                        |
| All employees:                          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                        | 19,429                | 87                                 | 94               | 421                | 992                | 2,164              | 3,318                | 5,540                | 6,813                | (D)                      | -                        |
| Payroll.....\$1,000..                   | 112,876               | 439                                | 426              | 2,148              | 5,529              | 12,524             | 18,684               | 32,017               | 41,109               | (D)                      | -                        |
| Value added, adjusted.....do....        | 205,475               | 772                                | 931              | 4,502              | 9,432              | 20,407             | 28,101               | 59,384               | 81,946               | (D)                      | -                        |
| Value of shipments.....do....           | 515,661               | 1,773                              | 2,510            | 8,940              | 21,718             | 45,711             | 76,635               | 152,341              | 206,033              | (D)                      | -                        |
| Capital expenditures, new...do....      | 5,265                 | 36                                 | 52               | 88                 | 475                | 994                | 617                  | 1,110                | 1,893                | (D)                      | -                        |
| INDUSTRY 3717.—MOTOR VEHICLES AND PARTS |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..             | 1,958                 | 536                                | 267              | 246                | 296                | 172                | 135                  | 82                   | 60                   | 82                       | 82                       |
| All employees:                          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                        | 649,926               | 963                                | 1,815            | 3,422              | 9,384              | 12,091             | 21,141               | 29,352               | 41,739               | 138,097                  | 391,922                  |
| Payroll.....\$1,000..                   | 4,947,271             | 4,682                              | 9,180            | 17,391             | 49,178             | 64,939             | 116,885              | 172,328              | 272,698              | 1,116,895                | 3,123,095                |
| Value added, adjusted.....do....        | 12,345,630            | 10,272                             | 19,013           | 33,791             | 96,583             | 140,619            | 235,305              | 371,417              | 573,212              | 3,318,970                | 7,546,448                |
| Value of shipments.....do....           | 36,181,007            | 20,651                             | 37,939           | 65,097             | 196,358            | 291,566            | 465,200              | 739,584              | 1,329,061            | 11,072,255               | 21,963,296               |
| Capital expenditures, new...do....      | 643,555               | 27,684                             | 8,209            | 8,325              | 13,332             | 19,608             | 18,236               | 20,785               | 16,294               | 160,074                  | 371,008                  |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

<sup>1</sup>Value of shipments for Industry 3717 include extension duplication. See text for more complete discussion.<sup>2</sup>Includes capital expenditures for plants under construction but not in operation which constitute a small proportion of the total for the size class.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year            | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|-------------------------------------|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |                                     | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |                                     | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B-C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |                                     | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3713      | Truck and bus bodies.....1963..     | 476,733            | 362,470          | 56,197             | 58,066                 | 88                                   | 419,747                            | 362,470               | 57,277                   | 86                            |
|           | 1958..                              | 307,769            | 242,010          | 36,131             | 29,628                 | 87                                   | 274,893                            | 239,345               | 35,548                   | 87                            |
| 3715      | Truck trailers.....1963..           | 515,661            | 449,610          | 39,377             | 26,674                 | 92                                   | 484,678                            | 449,610               | 35,068                   | 93                            |
|           | 1958..                              | 334,724            | 264,550          | 48,483             | 21,691                 | 84                                   | 283,998                            | 264,550               | 19,448                   | 93                            |
| 3717      | Motor vehicles and parts.....1963.. | 36,181,007         | 34,837,455       | 984,717            | 358,835                | <sup>1</sup> 97                      | 35,413,168                         | 34,837,455            | 575,713                  | <sup>3</sup> 98               |
|           | 1959..                              | 20,830,059         | 19,710,460       | 780,958            | 338,641                | <sup>1</sup> 96                      | 19,863,333                         | 19,710,460            | 152,873                  | <sup>3</sup> 99               |

Note: See Introduction for an explanation of terms used.

<sup>1</sup>The percentages shown, although correct to the extent that they are mathematical calculations, are not meaningful because of duplication in the value of shipments. See introductory text for this industry.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars except for ranges (shown in parentheses) which are expressed in millions of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous

receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code | Class of products and miscellaneous receipts   | All industries | Truck and bus bodies (SIC 3713) | Other industries | Prod. class code | Class of products and miscellaneous receipts   | All industries | Motor vehicles and parts (SIC 3717) | Other industries |
|------------------|--|----------------|---------------------------------|------------------|------------------|--|----------------|-------------------------------------|------------------|
|                  | <b>TRUCK AND BUS BODIES INDUSTRY</b>   |                |                                 |                  |                  | <b>MOTOR VEHICLES AND PARTS INDUSTRY</b>   |                |                                     |                  |
|                  | Total shipments and receipts of the industry.....  | (X)            | 476,733                         | (X)              |                  | Total shipments and receipts of the industry.....  | (X)            | 36,181,007                          | (X)              |
| 37130            | Truck and bus bodies for sale separately (including those made on purchased chassis).....                          | 419,747        | 362,470                         | 57,277           | 3717-            | Motor vehicles and parts:.....   | 35,413,168     | 34,837,455                          | 575,713          |
|                  | Secondary products.....  | (X)            | 56,197                          | (X)              | 37171            | Passenger cars, knocked down or assembled and chassis for sale separately.....                                     | 16,768,338     | 16,768,338                          | -                |
|                  | Parts and accessories for passenger cars, trucks, and busses shipped to:   |                |                                 |                  | 37172            | Truck tractors, truck chassis and trucks (chassis of own manufacture).....   | 3,376,245      | 3,371,112                           | 5,133            |
| 37175            | Motor vehicle manufacturers.....   | (X)            | 11,461                          | (X)              | 37173            | Motor coaches (except trolley busses) and fire department vehicles (chassis of own manufacture).....               | 182,453        | 179,192                             | 3,261            |
| 37176            | Other than motor vehicle manufacturers.....  | (X)            | 16,630                          | (X)              | 37175            | Parts and accessories for passenger cars, trucks, and busses shipped to motor vehicle manufacturers.....           | 12,922,164     | 12,492,769                          | 429,395          |
| 35351            | All other secondary products.....  | (X)            | 28,106                          | (X)              | 37176            | Parts and accessories for passenger cars, trucks and busses shipped to other than motor vehicle manufacturers..... | 1,753,675      | 1,643,629                           | 110,046          |
|                  | Conveyors and conveying equipment (except hoists and farm elevators).....  | (X)            | (2-5)                           | (X)              | 37177            | Rebuilt automotive parts, excluding carburetors.....   | 188,295        | 167,531                             | 20,764           |
|                  | Miscellaneous receipts.....  | (X)            | 58,066                          | (X)              | 37174            | Combat vehicles.....   | 221,998        | 214,884                             | 7,114            |
|                  | Contract work.....   | (X)            | 2,038                           | (X)              | 37170            | Motor vehicles and parts, n.s.k....  |                |                                     |                  |
|                  | Resales.....   | (X)            | 21,254                          | (X)              |                  | Secondary products.....  | (X)            | 984,717                             | (X)              |
|                  | Other.....   | (X)            | 34,774                          | (X)              | 33214            | All other gray iron castings.....  | (X)            | 17,791                              | (X)              |
|                  | Listing of other industries with over \$2 million shipments of truck and bus bodies:                               |                |                                 |                  | 34291            | Transportation equipment hardware..  | (X)            | 3,242                               | (X)              |
| 7130             | 3461 Metal stampings.....  | (X)            | (X)                             | (2-5)            | 34443            | Other sheet metal work.....  | (X)            | 2,055                               | (X)              |
|                  | 3531 Construction machinery.....   | (X)            | (X)                             | 9,258            | 34510            | Screw machine products.....  | (X)            | 5,624                               | (X)              |
|                  | 3537 Industrial trucks and tractors.....   | (X)            | (X)                             | (2-5)            | 34612            | Job stampings, except automotive...  | (X)            | 3,575                               | (X)              |
|                  | 3715 Truck trailers.....   | (X)            | (X)                             | 12,948           | 34613            | Job stampings, automotive.....   | (X)            | 82,540                              | (X)              |
|                  | 3717 Motor vehicles and parts....  | (X)            | (X)                             | 18,325           | 34990            | Fabricated metal products, n.e.c....   | (X)            | 3,227                               | (X)              |
|                  |  | All industries | Truck trailers (SIC 3715)       | Other industries | 35191            | Gasoline engines, except outboard, aircraft and automotive engines...  | (X)            | 8,763                               | (X)              |
|                  |  |                |                                 |                  | 35197            | Parts and accessories for internal combustion engines.....   | (X)            | 10,289                              | (X)              |
|                  | <b>TRUCK TRAILERS INDUSTRY</b>   |                |                                 |                  | 35222            | Wheel tractors and parts and attachments (except garden and contractors' off-highway).....                         | (X)            | 11,703                              | (X)              |
|                  | Total shipments and receipts of the industry.....  | (X)            | 515,661                         | (X)              | 35228            | All other farm machinery and equipment.....  | (X)            | 7,227                               | (X)              |
| 37150            | Truck trailers.....  | 484,678        | 449,610                         | 35,068           | 35313            | Parts and attachments for track laying and contractors' off-highway wheel tractors.....                            | (X)            | 26,857                              | (X)              |
|                  | Secondary products.....  | (X)            | 39,377                          | (X)              | 35318            | Scrapers, graders, rollers, and off-highway trucks, trailers, and wagons, excluding parts.....                     | (X)            | 31,524                              | (X)              |
| 37130            | Truck and bus bodies.....  | (X)            | 12,948                          | (X)              | 35319            | Other construction machinery and equipment, including construction machinery parts, n.e.c.....                     | (X)            | 5,270                               | (X)              |
| 37176            | Parts and accessories for passenger cars, trucks and busses shipped to other than motor vehicle manufacturers..... | (X)            | 10,486                          | (X)              | 35370            | Industrial trucks and tractors.....  | (X)            | 24,708                              | (X)              |
|                  | All other secondary products.....  | (X)            | 15,943                          | (X)              | 35661            | Plain bearings.....  | (X)            | 14,420                              | (X)              |
| 37175            | Parts and accessories for passenger cars, trucks and busses shipped to motor vehicle manufacturers.....            | (X)            | (2-5)                           | (X)              | 35990            | Carburetors, pistons, and other machine shop parts.....  | (X)            | 8,973                               | (X)              |
|                  | Miscellaneous receipts.....  | (X)            | 26,674                          | (X)              | 36942            | Battery charging generators.....   | (X)            | 2,180                               | (X)              |
|                  | Contract work.....   | (X)            | 3,643                           | (X)              | 36945            | Other complete electrical equipment for internal combustion engines...   | (X)            | 3,734                               | (X)              |
|                  | Resales.....   | (X)            | 9,992                           | (X)              | 37130            | Truck and bus bodies, for sale separately, including those made on purchased chassis.....                          | (X)            | 18,325                              | (X)              |
|                  | Other miscellaneous receipts.....  | (X)            | 13,039                          | (X)              | 37150            | Truck trailers.....  | (X)            | 6,382                               | (X)              |
|                  | Listing of other industries with over \$2 million shipments of truck trailers:                                     |                |                                 |                  | 37224            | Aircraft engine parts and accessories.....   | (X)            | 7,742                               | (X)              |
| 37150            | 3443 Boiler shop products.....   | (X)            | (X)                             | 2,432            | 37291            | Other aircraft parts and auxiliary equipment.....  | (X)            | 4,638                               | (X)              |
|                  | 3717 Motor vehicles and parts....  | (X)            | (X)                             | 6,382            | 37423            | Street cars and parts and accessories for railroad and street cars; rebuilt passenger and freight train cars.....  | (X)            | 7,470                               | (X)              |
|                  | 3522 Farm machinery and equipment  | (X)            | (X)                             | (2-5)            |                  |  |                |                                     |                  |
|                  | 3531 Construction machinery.....   | (X)            | (X)                             | (2-5)            |                  |  |                |                                     |                  |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code | Class of products and miscellaneous receipts  | All industries | Motor vehicles and parts (SIC 3717) | Other industries | Prod. class code | Class of products and miscellaneous receipts  | All industries | Motor vehicles and parts (SIC 3717) | Other industries |
|------------------|---|----------------|-------------------------------------|------------------|------------------|---|----------------|-------------------------------------|------------------|
|                  | MOTOR VEHICLES AND PARTS INDUSTRY—<br>Continued   |                |                                     |                  |                  | MOTOR VEHICLES AND PARTS INDUSTRY—<br>Continued   |                |                                     |                  |
|                  | Secondary products—Continued  |                |                                     |                  |                  | Listing of other industries with<br>over \$2 million shipments of the<br>primary product classes: |                |                                     |                  |
|                  | All other secondary products.....   | (X)            | 666,458                             | (X)              |                  | Ind. Title  |                |                                     |                  |
| 19310            | Tanks and tank components.....  | (X)            | (5-10)                              | (X)              |                  |   |                |                                     |                  |
| 25151            | Innerspring mattresses and<br>spring cushions.....  | (X)            | (2-5)                               | (X)              |                  |   |                |                                     |                  |
| 33176            | Steel pipe and tubes (not made<br>in steel mills).....  | (X)            | (over 2)                            | (X)              | 37173            | 3713 Truck and bus bodies.....  | (X)            | (X)                                 | (over 2)         |
| 33576            | Appliance wire and cord and<br>flexible cord sets.....  | (X)            | (over 2)                            | (X)              | 37175            | 1929 Ammunition, n.e.c.....   | (X)            | (X)                                 | (5-10)           |
| 33577            | Magnet wire.....  | (X)            | (over 2)                            | (X)              |                  | 1951 Small arms 30mm and under...   | (X)            | (X)                                 | (over 2)         |
| 33579            | Other insulated wire and cable,<br>n.e.c.....   | (X)            | (over 2)                            | (X)              |                  | 2531 Public building furniture...   | (X)            | (X)                                 | (over 2)         |
| 33610            | Aluminum and aluminum-base<br>alloy castings.....   | (X)            | (2-5)                               | (X)              |                  | 3011 Tires and inner tubes.....   | (X)            | (X)                                 | (over 2)         |
| 33620            | Copper and copper-base alloy<br>castings.....   | (X)            | (over 2)                            | (X)              |                  | 3069 Rubber products, n.e.c.....  | (X)            | (X)                                 | 20,542           |
| 34431            | Heat exchangers and steam<br>condensers.....  | (X)            | (5-10)                              | (X)              |                  | 3369 Nonferrous castings, n.e.c...  | (X)            | (X)                                 | (over 2)         |
| 34521            | Bolts, nuts, and other standard<br>industrial fasteners.....  | (X)            | (20-50)                             | (X)              |                  | 3399 Primary metal industries,<br>n.e.c.....  | (X)            | (X)                                 | (over 2)         |
| 34930            | Steel springs.....  | (X)            | (20-50)                             | (X)              |                  | 3452 Bolts, nuts, rivets and<br>washers.....  | (X)            | (X)                                 | (5-10)           |
| 34941            | Metal valves for piping systems<br>except plumbing and heating<br>valves.....                               | (X)            | (over 2)                            | (X)              |                  | 3461 Metal stampings.....   | (X)            | (X)                                 | 12,287           |
| 35314            | Power cranes, (including locomotive<br>full circle revolving with floor)<br>draglines, shovels and parts... | (X)            | (10-20)                             | (X)              |                  | 3494 Valves and pipe fittings...  | (X)            | (X)                                 | (5-10)           |
| 35441            | Special dies and tools, die<br>sets, jigs and fixtures.....   | (X)            | (over 2)                            | (X)              |                  | 3519 Internal combustion engines.   | (X)            | (X)                                 | 39,885           |
| 35522            | Parts and attachments for<br>textile machinery.....   | (X)            | (2-5)                               | (X)              |                  | 3522 Farm machinery and equipment   | (X)            | (X)                                 | (10-20)          |
| 35662            | Speed changers, industrial high<br>speed drives and gears.....  | (X)            | (over 2)                            | (X)              |                  | 3537 Industrial trucks and<br>tractors.....   | (X)            | (X)                                 | (over 2)         |
| 35663            | Other mechanical power-<br>transmission equipment.....  | (X)            | (20-50)                             | (X)              |                  | 3562 Ball and roller bearings...  | (X)            | (X)                                 | (over 2)         |
| 35673            | High frequency induction and di-<br>electric heating equipment and<br>parts, attachments and components     | (X)            | (over 2)                            | (X)              |                  | 3566 Power transmission equipment   | (X)            | (X)                                 | 32,231           |
| 35851            | Heat transfer equipment.....  | (X)            | (50-100)                            | (X)              |                  | 3569 General industry machines,<br>n.e.c.....   | (X)            | (X)                                 | 6,461            |
| 36214            | Prime mover generator sets,<br>except steam or hydraulic<br>turbine.....                                    | (X)            | (over 2)                            | (X)              |                  | 3585 Refrigeration machinery....  | (X)            | (X)                                 | (10-20)          |
| 36233            | Resistance welders, components,<br>accessories and electrodes....   | (X)            | (over 2)                            | (X)              |                  | 3599 Miscellaneous machinery....  | (X)            | (X)                                 | 21,140           |
| 36343            | Other small household electric<br>appliances.....   | (X)            | (over 2)                            | (X)              |                  | 3621 Motors and generators.....   | (X)            | (X)                                 | (50-100)         |
| 36350            | Household vacuum cleaners,<br>including parts and attachments   | (X)            | (over 2)                            | (X)              |                  | 3632 Household refrigerators.....   | (X)            | (X)                                 | (over 2)         |
| 36424            | Vehicular lighting equipment,<br>electric.....  | (X)            | (over 2)                            | (X)              |                  | 3634 Electric housewares and<br>fans.....   | (X)            | (X)                                 | (over 2)         |
| 36941            | Ignition harness and cable sets..   | (X)            | (over 2)                            | (X)              |                  | 3642 Lighting fixtures.....   | (X)            | (X)                                 | (2-5)            |
| 36944            | Spark plugs.....  | (X)            | (50-100)                            | (X)              |                  | 3651 Radio and TV receiving sets..  | (X)            | (X)                                 | (5-10)           |
| 37228            | Missile and space vehicle engine<br>and/or propulsion unit parts<br>or accessories.....                     | (X)            | (2-5)                               | (X)              |                  | 3694 Engine electrical equipment.   | (X)            | (X)                                 | 81,481           |
| 37323            | All other boats (sailboats,<br>rowboats, canoes, etc.).....   | (X)            | (2-5)                               | (X)              |                  | 3713 Truck and bus bodies.....  | (X)            | (X)                                 | 11,461           |
| 38214            | Motor vehicle instruments,<br>except electric.....  | (X)            | (20-50)                             | (X)              |                  | 3715 Truck trailers.....  | (X)            | (X)                                 | (2-5)            |
| 39991            | Chemical fire extinguishing<br>equipment and parts.....   | (X)            | (2-5)                               | (X)              |                  | 3722 Aircraft engines and parts..   | (X)            | (X)                                 | (5-10)           |
|                  | Miscellaneous receipts.....   | (X)            | 358,835                             | (X)              |                  | 3729 Aircraft equipment, n.e.c...   | (X)            | (X)                                 | 5,577            |
|                  | Contract work.....  | (X)            | 11,787                              | (X)              |                  | 3821 Mechanical measuring<br>devices.....   | (X)            | (X)                                 | (over 2)         |
|                  | Resales.....  | (X)            | 174,554                             | (X)              |                  | 3822 Wood products, n.e.c.....  | (X)            | (X)                                 | (over 2)         |
|                  | Other.....  | (X)            | 172,494                             | (X)              |                  | 3011 Tires and inner tubes.....   | (X)            | (X)                                 | (over 2)         |
|                  |   |                |                                     |                  |                  | 3433 Heating equipment, except<br>electric.....   | (X)            | (X)                                 | (2-5)            |
|                  |   |                |                                     |                  |                  | 3519 Internal combustion engines.   | (X)            | (X)                                 | (5-10)           |
|                  |   |                |                                     |                  |                  | 3522 Farm machinery and equipment   | (X)            | (X)                                 | (2-5)            |
|                  |   |                |                                     |                  |                  | 3531 Construction machinery.....  | (X)            | (X)                                 | 7,378            |
|                  |   |                |                                     |                  |                  | 3553 Woodworking machinery.....   | (X)            | (X)                                 | (over 2)         |
|                  |   |                |                                     |                  |                  | 3561 Pumps and compressors.....   | (X)            | (X)                                 | 2,514            |
|                  |   |                |                                     |                  |                  | 3566 Power transmission equipment   | (X)            | (X)                                 | (5-10)           |
|                  |   |                |                                     |                  |                  | 3585 Refrigeration machinery....  | (X)            | (X)                                 | (over 2)         |
|                  |   |                |                                     |                  |                  | 3599 Miscellaneous machinery....  | (X)            | (X)                                 | 3,347            |
|                  |   |                |                                     |                  |                  | 3694 Engine electrical equipment.   | (X)            | (X)                                 | 4,633            |
|                  |   |                |                                     |                  |                  | 3713 Truck and bus bodies.....  | (X)            | (X)                                 | 16,630           |
|                  |   |                |                                     |                  |                  | 3715 Truck trailers.....  | (X)            | (X)                                 | 10,486           |
|                  |   |                |                                     |                  |                  | 3729 Aircraft equipment, n.e.c...   | (X)            | (X)                                 | (2-5)            |
|                  |   |                |                                     |                  |                  | 3799 Transportation equipment,<br>n.e.c.....  | (X)            | (X)                                 | 3,083            |
|                  |   |                |                                     |                  |                  | 3821 Mechanical measuring devices   | (X)            | (X)                                 | 6,170            |
|                  |   |                |                                     |                  |                  | 3822 Automatic temperature<br>controls.....   | (X)            | (X)                                 | (over 2)         |
|                  |   |                |                                     |                  |                  | 2531 Public building furniture...   | (X)            | (X)                                 | (over 2)         |
|                  |   |                |                                     |                  |                  | 3519 Internal combustion engines.   | (X)            | (X)                                 | (over 2)         |
|                  |   |                |                                     |                  |                  | 3531 Construction machinery.....  | (X)            | (X)                                 | (over 2)         |

Note: Data shown parenthetically above are expressed in millions of dollars.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures of individual companies. (NA) Not available. (X) Not applicable.  
n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product  | Total shipments including interplant transfers |                 |                   |                 |
|--------------|--|--|-----------------|-------------------|-----------------|
|              |  | 1963   |                 | 1958              |                 |
|              |  | Quantity (number)                              | Value (\$1,000) | Quantity (number) | Value (\$1,000) |
| 3713- --     | TRUCK, BUS, AND OTHER VEHICLE (EXCEPT PASSENGER CAR) BODIES FOR SALE SEPARATELY (INCLUDING THOSE MADE ON PURCHASED CHASSIS), AND COMPLETE VEHICLES (EXCEPT PASSENGER CARS) PRODUCED ON PURCHASED CHASSIS, TOTAL..... | (X)  | 419,747         | (X)               | 274,893         |
|              | Truck, bus and other vehicle (except passenger car) bodies sold separately: <sup>1</sup>   |  |                 |                   |                 |
| 37130 12     | To motor vehicle manufacturers.....  | 71,293   | 45,765          | (NA)              | 14,543          |
|              | To other than motor vehicle manufacturers:   |  |                 |                   |                 |
|              | Truck bodies:  |  |                 |                   |                 |
| 37130 31     | Van.....   | 30,612   | 43,997          | 15,585            | 22,866          |
| 37130 32     | Panel delivery and pick up.....  | 15,678   | 18,941          | 6,310             | 7,646           |
| 37130 33     | Dump.....  | 31,730   | 30,345          | 21,388            | 18,079          |
| 37130 34     | Stake and platform.....  | 24,069   | 9,273           | 19,483            | 6,768           |
| 37130 36     | Utility, including service and line construction, and repair types..   | 28,297   | 34,170          | (NA)              | 48,628          |
| 37130 37     | Tank, including street flushing, petroleum, and other tank types....   | 1,403  | 4,255           |                   |                 |
| 37130 38     | Refuse and garbage (packer type).....  | 4,863  | 22,106          |                   |                 |
| 37130 39     | Other.....   | 23,003   | 32,524          |                   |                 |
| 37130 51     | Bus bodies.....  | 18,270   | 41,345          | 20,842            | 45,652          |
| 37130 55     | Other vehicle (except passenger car) bodies (ambulance, hearse, fire department, etc.).....  | 9,526  | 17,644          | (NA)              | 33,209          |
|              | Complete vehicles (except passenger cars) produced on purchased chassis:   |  |                 |                   |                 |
| 37130 71     | Ambulances.....  | 2,309  | 15,918          | 1,134             | 7,675           |
| 37130 75     | Hearse and undertakers' vehicles (except limousines).....  | 1,308  | 9,788           | 1,170             | 9,438           |
| 37130 77     | Fire department vehicles.....  | 1,277  | 13,556          | 1,038             | 11,380          |
| 37130 79     | Busses (body mounted on purchased chassis), including military, but excluding trolley busses.....  |  |                 | 553               | 4,805           |
| 37130 98     | All other highway vehicles, including trucks (platform, stake, van, tank, dump, etc.), street cleaning apparatus, rotary and blow-type snowplows, pick-up sweepers, noncombat amphibious vehicles, etc.....          | (X)  | 42,341          | (X)               | 18,427          |
| 37130 99     | Vehicles, except passenger cars, produced on purchased chassis (including value of chassis), n.s.k.....  | (X)  | 10,136          |                   |                 |
| 37130 00     | Truck and bus bodies, n.s.k.....   | (X)  | 27,643          | (X)               | 18,450          |
| 3715- --     | TRUCK TRAILERS, TOTAL.....   | (X)  | 484,678         | (X)               | 283,998         |
| 37150 11     | Truck trailers (5 ton capacity and over) as reported in census of manufactures <sup>2</sup> .....  | (X)  | 451,276         | (X)               | 270,521         |
|              | Truck trailers (5 ton capacity and over) as reported on Census form M37L <sup>2</sup> .  |  |                 |                   |                 |
|              | Vans, total.....   | 78,764   | 428,486         | 50,484            | 271,733         |
|              | Insulated, semi-insulated, and refrigerated, total.....  | 46,620   | 261,503         | 26,198            | 151,550         |
|              | Steel.....   | 8,856  | 70,418          | 4,029             | 30,896          |
|              | Aluminum.....  | 1,092  | 6,033           | 500               | 3,732           |
|              | Furniture, total.....  | 7,764  | 64,385          | 3,529             | 27,164          |
|              | Steel.....   | 2,551  | 14,227          | 1,485             | 6,531           |
|              | Aluminum.....  | 2,056  | 11,350          | 1,325             | 5,793           |
|              | All other closed-top vans, total.....  | 495  | 2,877           | 160               | 738             |
|              | Steel.....   | 31,900   | 159,913         | 18,311            | 101,976         |
|              | Aluminum.....  | 7,866  | 35,723          | 6,189             | 28,864          |
|              | Open-top, total.....   | 24,034   | 124,190         | 12,122            | 73,112          |
|              | Steel.....   | 3,313  | 16,945          | 2,373             | 12,147          |
|              | Aluminum.....  | 1,128  | 5,487           | 1,016             | 4,690           |
|              | Tank, total.....   | 2,185  | 11,458          | 1,357             | 7,457           |
|              | Non- and low-pressure:   |  |                 |                   |                 |
|              | Petroleum and aircraft refuelers, total.....   | 5,767  | 58,259          | 5,635             | 47,640          |
|              | Carbon and alloy steel (except stainless).....   | 3,428  | 33,087          | 4,010             | 31,047          |
|              | Stainless steel.....   | 1,002  | 7,314           | 2,329             | 15,158          |
|              | Aluminum.....  | 382  | 5,156           | 227               | 2,550           |
|              | High pressure (LPG, anhydrous ammonia, chemicals, etc.).....   | 2,044  | 20,617          | 1,454             | 13,339          |
|              | Chemical, food, and sanitary.....  | 713  | 8,030           | 545               | 6,009           |
|              | Dry materials (cement, flour, feed, fertilizer, etc.).....   | 1,188  | 11,318          | 704               | 6,155           |
|              | Pole and logging, total.....   | 438  | 5,824           | 376               | 4,429           |
|              | Single axle.....   | 1,069  | 3,927           | 927               | 2,577           |
|              | Tandem axle.....   | 129  | 220             | 318               | 424             |
|              |  | 940  | 3,707           | 609               | 2,153           |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Total shipments including interplant transfers |                  |                   |                  |
|--------------|--|--|------------------|-------------------|------------------|
|              |  | 1963   |                  | 1958              |                  |
|              |  | Quantity (number)                              | Value (\$1,000)  | Quantity (number) | Value (\$1,000)  |
|              | Truck trailers (5 ton capacity and over) as reported on Census form M37L <sup>2</sup> —Continued   |  |                  |                   |                  |
|              | Platform, total.....   | 12,516   | 47,816           | 8,868             | 32,078           |
|              | Racks, livestock and stake.....  | 591  | 3,074            | 1,442             | 6,556            |
|              | Grain bodies, all types.....   | 578  | 2,503            | 1,073             | 3,718            |
|              | Platforms (flats), all types.....  | 11,347   | 42,239           | 6,353             | 21,804           |
|              | Low-bed heavy haulers.....   | 3,195  | 14,566           | 2,301             | 9,779            |
|              | Dump trailers.....   | 2,733  | 16,290           | 2,548             | 11,401           |
|              | All other trailers <sup>3</sup> .....  | 1,524  | 7,729            | 2,030             | 9,502            |
|              | Detachable trailer van bodies, sold separately.....  | 5,340  | 18,396           | 1,977             | 7,206            |
| 37150 51     | Truck trailer chassis only, for sale separately, as reported in census of manufactures <sup>2</sup> .....  | (X)  | 10,168           | (X)               | (X)              |
|              | Truck trailer chassis only, for sale separately, as reported on Census form M37L <sup>2</sup> .....  | 4,161  | 9,956            | 3,244             | 8,362            |
|              | Dump trailer chassis, sold separately.....   | 361  | 1,241            | (NA)              | (NA)             |
|              | Trailer chassis only, sold separately.....   | 3,800  | 8,715            | 3,244             | 8,362            |
| 37150 55     | Truck trailers and truck trailer chassis with axles rated less than 10,000 pounds.....   | 6,952  | 10,468           | 6,230             | 13,477           |
| 37150 00     | Truck trailers, n.s.k.....   | (X)  | 12,766           | (X)               | -                |
| 3717- --     | MOTOR VEHICLES AND PARTS.....  | (X)  | 435,413,168      | (X)               | 419,863,333      |
| 37171 --     | Passenger cars, knocked down or assembled and chassis for sale separately.....   | (X)  | 16,768,338       | (X)               | 9,217,694        |
| 37171 11     | Complete vehicles, knocked-down or assembled <sup>5</sup> .....  | 7,567,368                                      | 16,768,338       | 4,204,203         | 9,212,591        |
| 37171 51     | Chassis for sale separately.....   |  |                  | (NA)              | 5,103            |
| 37172 --     | Truck tractors, truck chassis and trucks (chassis of own manufacture).....   | (X)  | 3,376,245        | (X)               | 1,933,722        |
|              | Trucks, truck tractors, and truck chassis, knocked down or assembled: <sup>6</sup>   |  |                  |                   |                  |
|              | Basic chassis, gross vehicle weight: <sup>7</sup>  |  |                  |                   |                  |
| 37172 01     | 6,000 pounds and less.....   | 876,119  | 1,196,338        |                   |                  |
| 37172 03     | 6,001-10,000 pounds.....   | 178,654  | 302,152          | 584,619           | 757,596          |
| 37172 13     | 10,001-14,000 pounds.....  |  |                  |                   |                  |
| 37172 14     | 14,001-16,000 pounds.....  | 25,100   | 48,735           | 64,560            | 117,417          |
| 37172 15     | 16,001-19,500 pounds.....  | 116,565  | 263,500          | 79,696            | 154,040          |
| 37172 16     | 19,501-26,000 pounds.....  | 109,912  | 353,166          | 44,738            | 142,189          |
| 37172 17     | 26,001-33,000 pounds.....  | 27,775   | 219,024          |                   |                  |
| 37172 18     | Over 33,000 pounds.....  | 47,285   | 467,135          | 58,515            | 429,376          |
|              | Truck bodies and other bodies (except bus and fire apparatus) and equipment billed with basic chassis:   |  |                  |                   |                  |
|              | Truck bodies:  |  |                  |                   |                  |
| 37172 33     | Panel delivery and pick-up <sup>7</sup> .....  | 725,740  | 186,983          | (X)               | 318,276          |
| 37172 36     | Other <sup>7</sup> .....   | 294,538  | 296,028          |                   |                  |
| 37172 39     | Other bodies and equipment (except bus and fire apparatus) <sup>7</sup> .....  | (X)  | 41,977           |                   |                  |
| 37172 51     | Other highway vehicles (except bus and fire apparatus) on chassis of own manufacture including non-combat amphibious vehicles.....   | 102  | 665              | (NA)              | 14,828           |
| 37172 00     | Truck trailers and other bodies (except bus and fire apparatus) and equipment billed with basic chassis, n.s.k.....  | (X)  | 543              | (X)               | -                |
| 37173 --     | Busses (except trolley busses) and fire department vehicles (chassis of own manufacture).....  | (X)  | 182,453          | (X)               | 99,216           |
| 37173 13     | Busses (body mounted on chassis of own manufacture) including military, but excluding trolley busses.....  | (NA)   | 155,544          | 3,311             | 81,018           |
| 37173 15     | Busses (consisting of integrally constructed body-chassis frame usually rear-engine mounted).....  |  |                  |                   |                  |
| 37173 21     | Fire department vehicles <sup>8</sup> .....  | 1,517  | 26,909           | 1,262             | 18,198           |
| 37174 11     | Combat vehicles, wheeled tactical vehicles or carriers.....  | ( <sup>9</sup> )                               | ( <sup>9</sup> ) | ( <sup>9</sup> )  | ( <sup>9</sup> ) |
| 37175 --     | Parts and accessories shipped to motor vehicle manufacturers for passenger cars, trucks, busses, and trailers (excluding rough steel forgings, rough castings and accessories such as leaf and coil springs, meters for motor vehicles, radios, distributors, generators and alternators, cranking motors, and selected motor vehicle indicating instruments)..... | (X)  | 12,922,164       | (X)               | 7,326,660        |
| 37175 15     | Shipped to other plants of the same company <sup>10</sup> .....  | (X)  | 10,072,963       | (X)               | 7,305,567        |
| 37175 17     | Shipped to other motor vehicle manufacturers <sup>10</sup> .....   | (X)  | 180,078          |                   |                  |
| 37175 71     | Shipped to motor vehicle and parts manufacturers (including shipments to producers of motor vehicles (passenger cars, trucks, busses, truck trailers, and trailer coaches) and of bodies, parts, and accessories, including other plants of the same company) <sup>11</sup> .....  | (X)  | 2,632,208        |                   |                  |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Total shipments including interplant transfers |                         |                   |                         |
|--------------|--|--|-------------------------|-------------------|-------------------------|
|              |  | 1963   |                         | 1958              |                         |
|              |  | Quantity (number)                              | Value (\$1,000)         | Quantity (number) | Value (\$1,000)         |
| 37175 --     | Parts and accessories shipped to motor vehicle manufacturers for passenger cars, trucks, busses, and trailers (excluding rough steel forgings, rough castings and accessories such as leaf and coil springs, meters for motor vehicles, radios, distributors, generators and alternators, cranking motors, and selected motor vehicle indicating instruments)—Continued  |  |                         |                   |                         |
| 37175 00     | Automotive gasoline engines, new <sup>11</sup> .....   | (X)  | 30,935                  | (X)               | 17,512                  |
|              | Parts and accessories shipped to motor vehicle manufacturers for passenger cars, trucks, busses and tractors, n.s.k.....   | (X)  | 5,980                   | (X)               | 3,581                   |
| 37176 --     | Parts and accessories for passenger cars, trucks and busses shipped to other than motor vehicle manufacturers.....   | (X)  | <sup>12</sup> 1,753,675 | (X)               | <sup>12</sup> 1,140,806 |
| 37176 11     | Replacement parts and accessories for cars, trucks, busses, and trailers for domestic use, including purchased parts. (Includes shipments to distributors, dealers, jobbers, wholesalers, service stations, direct to fleet operators, governments and other consumers of motor vehicles, and subassembly rebuilders other than motor vehicle and motor vehicle parts manufacturers who also rebuild subassemblies. Does not include interplant transfers within a company; shipments to motor vehicle, body, parts, and accessory manufacturers; or export shipments of any kind, including bodies for mounting on old chassis) <sup>10</sup> | (X)  | 861,378                 | (X)               | 542,786                 |
| 37176 15     | Convertible tops for automobiles <sup>11</sup> .....   | (X)  | 22,892                  | (X)               | ( <sup>13</sup> )       |
| 37176 21     | Export shipments of parts and accessories for passenger cars, trucks, busses, and trailers, including purchased parts <sup>10</sup> .....  | (X)  | 79,085                  | (X)               | 85,672                  |
| 37176 31     | Other parts and accessories for passenger cars, trucks, busses, and trailers <sup>11</sup> .....   | (X)  | 758,436                 | (X)               | 439,623                 |
| 37176 00     | Replacement parts and accessories for cars, trucks, busses, and trailers for domestic use, including purchased parts, n.s.k.....   | (X)  | 31,884                  | (X)               | <sup>13</sup> 72,725    |
| 37177 11     | Rebuilt motor vehicle engines and parts (except carburetors) <sup>11</sup> .....   | (X)  | 188,295                 | (X)               | 79,891                  |
| 37170 00     | Motor vehicle parts, n.s.k.....  | (X)  | <sup>9</sup> 221,998    | (X)               | <sup>9</sup> 65,344     |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.s.k. Not specified by kind.

<sup>1</sup>Truck and bus bodies built by garages, service stations and other establishments primarily engaged in nonmanufacturing activities are excluded.

<sup>2</sup>For these products, figures were also collected in the Bureau of the Census commodity survey program. In lieu of asking for detailed statistics on these products in the census of manufactures, respondents were asked to report only value of shipments for specified groups of products for which separate figures had previously been collected in the commodity survey. In most cases, the value figures reported in the census of manufactures for each group of products agreed closely with the corresponding figures reported in the commodity survey. However, there were differences between the census figures and the commodity survey figures. These variations were due primarily to the following reasons:

- a. Better coverage in the census of manufactures program. This includes many small establishments excluded from the monthly survey.
- b. Use of different reporting periods (calendar year vs. fiscal year).
- c. Use of estimates in reporting figures on the commodity survey, whereas census of manufactures figures generally represent more exact shipment figures.

<sup>3</sup>Includes small capacity trailers of special construction for the Defense Department, as well as auto transport, public utility trailers, converter dollies, and hoppers.

<sup>4</sup>The total value of shipments of products classified in industry 3717 includes extensive duplication arising from shipments between establishments in the same industry classification.

<sup>5</sup>Includes station wagons, ambulances, hearses, and taxicabs if produced on passenger car chassis. Value includes extra equipment billed with vehicles.

<sup>6</sup>Includes trucks such as pick-up, sedan delivery, panel, or other commercial cars made on passenger car chassis if these chassis were of own manufacture. Includes station wagons, hearses, and taxicabs if produced on truck chassis. Includes all truck chassis whether or not to be used for transportation of property, such as fire apparatus, street sprinklers, school busses, ambulances, etc. Excludes specialized road construction machinery and off-the-highway trucks.

<sup>7</sup>The sum of values reported for basic chassis and bodies (codes 3717201 through 3717218) and bodies and other equipment billed with basic chassis (codes 3717233, 3717236, and 3717239) represents the total value received from the sale of trucks, truck tractors, and truck chassis. Amounts reported for basic chassis values are based on average wholesale prices realized during 1963 and 1958. The amount reported for bodies and other equipment billed with basic chassis represents (1) the value received for bodies and other equipment shipped with the basic chassis; and (2) any plus or minus differences not included in the amounts reported for basic chassis due to the use of average wholesale prices for computing the values of the basic chassis.

<sup>8</sup>Separate figures are shown for fire department vehicles produced on purchased chassis (code 3713077) and for fire department vehicles produced on chassis of own manufacture (code 3717321). A small number of fire department vehicles, however, are produced on chassis furnished by customers.

<sup>9</sup>Product code 3717411 combined with 3717000 for security reasons, on advice from the Bureau of the Budget.

<sup>10</sup>Data are limited to establishments of companies producing motor vehicles or bodies.

<sup>11</sup>Data are limited to establishments of companies which do not produce motor vehicles or bodies.

<sup>12</sup>This figure is limited to shipments of products classified in industry 3717. There were additional shipments of motor vehicle parts by parts producers to other than motor vehicle manufacturers. This includes spark plugs, ignition coils, storage batteries, carburetors, pistons and piston rings, headlights, springs, and hardware which are classified outside the 3717 grouping and which approximated \$564 million in 1963 and \$498 million in 1958. Therefore, the total for 1963 was \$2,318 million. The comparable 1958 total was \$1,639 million.

<sup>13</sup>For 1958, product code 3717615 is combined with product code 3717600.

TABLE 6B. **Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958**

(Indexes of production and unit value are not shown for this area pending further review of the quantity data and associated values pertaining to these products.)

TABLE 6C. **Product Classes—Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963**

(In thousands of dollars)

| Code  | Product class  | 1963                 | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958                | 1954      | 1947      |
|-------|--|----------------------|-------------------|-------------------|-------------------|-------------------|---------------------|-----------|-----------|
| 37130 | Truck and bus bodies.....  | 419,747              | 419,695           | 312,784           | 341,084           | 327,953           | 274,893             | 215,184   | 197,464   |
| 37150 | Truck trailers.....  | 484,678              | (S)               | (S)               | (S)               | (S)               | 283,998             | 262,012   | 139,413   |
| 3717  | Motor vehicles and parts.....  | 35,413,168           | 31,856,689        | 25,136,202        | 29,110,103        | 25,685,228        | 19,863,333          | (NA)      | (NA)      |
| 37171 | Passenger cars, knocked down or assembled and chassis for sale separately.....                                       | 16,768,338           | 15,052,678        | 11,787,593        | 14,009,262        | 11,998,836        | 9,217,694           | 9,471,779 | 4,085,547 |
| 37172 | Truck tractors, truck chassis and trucks (chassis of own manufacture).....   | 3,376,245            | 3,009,641         | 2,375,828         | 2,572,695         | 2,490,117         | 1,933,722           | 1,732,114 | 1,619,773 |
| 37173 | Motor coaches, except trolley busses and fire department vehicles (chassis of own manufacture).....                  | 182,453              | 161,310           | 154,574           | 157,418           | 107,339           | 99,216              | 103,496   | 239,624   |
| 37174 | Combat vehicles.....   | ( <sup>2</sup> )     | (S)               | (S)               | (S)               | (S)               | ( <sup>2</sup> )    | (S)       | (NA)      |
| 37175 | Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufacturers.....            | 12,922,164           | 11,650,233        | 9,138,661         | 10,687,796        | 9,481,696         | 7,326,660           | (NA)      | (NA)      |
| 37176 | Parts and accessories for passenger cars, trucks, and busses, shipped to other than motor vehicle manufacturers..... | 1,753,675            | 1,727,868         | 1,442,596         | 1,486,029         | 1,439,398         | 1,140,806           | (NA)      | (NA)      |
| 37177 | Rebuilt automotive parts, excluding carburetors.....   | 188,295              | 110,413           | 101,505           | 99,091            | 96,443            | 79,891              | 56,683    | (NA)      |
| 37170 | Motor vehicles and parts, n.s.k.....   | <sup>2</sup> 221,998 | (S)               | (S)               | (S)               | (S)               | <sup>2</sup> 65,344 | (NA)      | (NA)      |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>2</sup>Product class 37174 combined with 37170 for security reasons, on advice from the Bureau of the Budget.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area   | Value of shipments |           | Product class and geographic area   | Value of shipments |            | Product class and geographic area  | Value of shipments |           |
|---|--------------------|-----------|---|--------------------|------------|--|--------------------|-----------|
|   | 1963 <sup>1</sup>  | 1958      |   | 1963 <sup>1</sup>  | 1958       |  | 1963 <sup>1</sup>  | 1958      |
| TRUCK AND BUS BODIES FOR SALE SEPARATELY (INCLUDING THOSE MADE IN PURCHASED (CHASSIS) (37130) |                    |           | TRUCK TRACTOR, TRUCK CHASSIS, TRUCKS (CHASSIS OF OWN MANUFACTURE) (37172)—Continued   |                    |            | PARTS AND ACCESSORIES FOR PASSENGER CARS, TRUCKS AND BUSES SHIPPED TO OTHER THAN MOTOR VEHICLE MANUFACTURERS <sup>3</sup> (37176)—Con. |                    |           |
| United States, total.....   | 419,747            | 274,893   | East North Central.....   | 1,809,731          | 1,010,684  | East North Central.....  | 1,232,696          | 6,811,073 |
| New England.....  | 5,974              | 3,902     | Ohio.....   | 724,390            | 351,401    | Ohio.....  | 254,562            | 1,659,389 |
| Massachusetts.....  | 3,638              | 2,356     | All other divisions.....  | 1,183,524          | (2)        | Indiana.....   | 118,199            | 638,926   |
| Connecticut.....  | 1,335              | (Z)       | MOTOR COACHES, EXCEPT TROLLEY BUSES, AND FIRE DEPARTMENT VEHICLES (CHASSIS OF OWN MANUFACTURE) (37173)                            |                    |            | Illinois.....  | 123,155            | 333,803   |
| Middle Atlantic.....  | 52,941             | 48,048    | United States, total.....   | 182,453            | (NA)       | Michigan.....  | 703,763            | 3,838,716 |
| New York.....   | 20,603             | 23,655    | Northeast.....  | 12,458             | (NA)       | Wisconsin.....   | 33,017             | 340,239   |
| New Jersey.....   | 6,065              | 8,335     | East North Central.....   | 155,954            | (NA)       | West North Central.....  | 104,870            | 273,991   |
| Pennsylvania.....   | 26,273             | 16,058    | South.....  | 3,063              | (NA)       | Iowa.....  | 1,544              | 10,603    |
| East North Central.....   | 192,787            | 121,468   | Pacific.....  | 10,978             | (NA)       | Missouri.....  | 52,916             | 239,233   |
| Ohio.....   | 76,786             | 58,558    | California.....   | 10,978             | (NA)       | South Atlantic.....  | 80,752             | 171,948   |
| Indiana.....  | 37,352             | 24,674    | PARTS AND ACCESSORIES FOR PASSENGER CARS, TRUCKING AND BUSES, SHIPPED TO MOTOR VEHICLE MANUFACTURERS (37175)                      |                    |            | Georgia.....   | 36,337             | (2)       |
| Illinois.....   | 17,508             | 16,679    | United States, total.....   | 12,922,164         | (3)        | Florida.....   | 1,836              | 1,011     |
| Michigan.....   | 37,294             | 7,742     | Northeast.....  | 90,272             | (3)        | East South Central.....  | 39,222             | 77,425    |
| Wisconsin.....  | 23,847             | 13,814    | Middle Atlantic.....  | 1,211,546          | (3)        | Tennessee.....   | 11,548             | 24,435    |
| West North Central.....   | 30,796             | 25,880    | New York.....   | 959,418            | (3)        | Mississippi.....   | 17,370             | 6,854     |
| Minnesota.....  | 5,922              | 4,173     | New Jersey.....   | 12,738             | (3)        | West South Central.....  | 18,203             | 14,340    |
| Iowa.....   | 3,969              | 2,636     | Pennsylvania.....   | 239,390            | (3)        | Arkansas.....  | 3,379              | (2)       |
| Missouri.....   | 17,889             | 16,858    | East North Central.....   | 10,664,657         | (3)        | Oklahoma.....  | 4,335              | 2,369     |
| Nebraska.....   | 1,854              | 1,337     | Ohio.....   | 2,590,069          | (3)        | Texas.....   | 9,619              | 8,658     |
| South Atlantic.....   | 36,977             | 23,776    | Indiana.....  | 1,121,582          | (3)        | Mountain.....  | 6,595              | 7,218     |
| Maryland.....   | 2,046              | 1,194     | Illinois.....   | 416,608            | (3)        | Colorado.....  | 4,572              | 5,553     |
| Virginia.....   | 3,824              | 1,868     | Michigan.....   | 5,971,885          | (3)        | Pacific.....   | 62,340             | 175,555   |
| North Carolina.....   | 13,881             | 7,975     | Wisconsin.....  | 564,513            | (3)        | Oregon.....  | 4,039              | 3,361     |
| South Carolina.....   | 1,008              | (Z)       | West North Central.....   | 350,661            | (3)        | California.....  | 55,708             | 168,775   |
| Georgia.....  | 11,547             | 8,091     | Kansas.....   | 1,093              | (3)        | REBUILT AUTOMOTIVE PARTS, EXCLUDING CARBURETORS (37177)  |                    |           |
| Florida.....  | 3,366              | 2,986     | South.....  | 398,496            | (3)        | United States, total....   | 188,295            | (NA)      |
| East South Central.....   | 32,049             | 11,861    | Kentucky.....   | 33,365             | (3)        | Northeast.....   | 24,929             | (NA)      |
| Tennessee.....  | 10,496             | -         | Tennessee.....  | 39,272             | (3)        | New Jersey.....  | 6,728              | (NA)      |
| Alabama.....  | 6,414              | 2,137     | Alabama.....  | 11,174             | (3)        | Pennsylvania.....  | 5,504              | (NA)      |
| West South Central.....   | 18,066             | 12,174    | Oklahoma.....   | 1,913              | (3)        | East North Central.....  | 59,001             | (NA)      |
| Louisiana.....  | 3,105              | -         | Texas.....  | 4,057              | (3)        | Ohio.....  | 16,126             | (NA)      |
| Texas.....  | 7,775              | 6,491     | Mountain.....   | 6,340              | (3)        | Indiana.....   | 12,433             | (NA)      |
| Mountain.....   | 3,123              | 2,939     | Pacific.....  | 200,192            | (3)        | Illinois.....  | 6,450              | (NA)      |
| Colorado.....   | 1,759              | (2)       | PARTS AND ACCESSORIES FOR PASSENGER CARS, TRUCKS AND BUSES SHIPPED TO OTHER THAN MOTOR VEHICLE MANUFACTURERS <sup>3</sup> (37176) |                    |            | Michigan.....  | 23,220             | (NA)      |
| Pacific.....  | 47,034             | 24,845    | United States, total....  | 1,753,675          | 38,467,466 | West North Central.....  | 13,779             | (NA)      |
| Washington.....   | 2,423              | (Z)       | Northeast.....  | 57,255             | 52,725     | Minnesota.....   | 4,327              | (NA)      |
| Oregon.....   | 5,534              | 1,643     | Massachusetts.....  | 28,912             | 23,398     | Missouri.....  | 5,600              | (NA)      |
| California.....   | 39,077             | 22,227    | Connecticut.....  | 19,029             | 20,004     | South Atlantic.....  | 15,147             | (NA)      |
| PASSENGER CARS, KNOCKED DOWN OR ASSEMBLED AND CHASSIS FOR SALE SEPARATELY (37171)             |                    |           | Middle Atlantic.....  | 151,742            | 883,191    | Maryland.....  | 2,101              | (NA)      |
| United States, total.....   | 16,768,338         | 9,217,694 | New York.....   | 98,807             | 604,026    | North Carolina.....  | 2,827              | (NA)      |
| East North Central.....   | 8,485,788          | 4,425,031 | New Jersey.....   | 16,189             | 64,231     | Georgia.....   | 4,195              | (NA)      |
| Michigan.....   | 5,960,304          | 3,061,365 | Pennsylvania.....   | 36,746             | 214,934    | East South Central.....  | 12,445             | (NA)      |
| Pacific.....  | 1,507,927          | (2)       | TRUCK TRACTOR, TRUCK CHASSIS, TRUCKS (CHASSIS OF OWN MANUFACTURE) (37172)   |                    |            | Kentucky.....  | 5,934              | (NA)      |
| California.....   | 1,507,927          | (2)       | United States, total....  | 3,376,245          | 1,933,722  | West South Central.....  | 35,443             | (NA)      |
| All other divisions.....  | 6,774,623          | (2)       | Northeast.....  | 382,990            | 312,255    | Oklahoma.....  | 14,238             | (NA)      |
| TRUCK TRACTOR, TRUCK CHASSIS, TRUCKS (CHASSIS OF OWN MANUFACTURE) (37172)                     |                    |           | Middle Atlantic.....  | 382,990            | 312,255    | Texas.....   | 21,205             | (NA)      |
| United States, total.....   | 3,376,245          | 1,933,722 | New York.....   | 382,990            | 312,255    | Mountain.....  | 1,879              | (NA)      |
| Middle Atlantic.....  | 382,990            | 312,255   | New Jersey.....   | 382,990            | 312,255    | Pacific.....   | 25,672             | (NA)      |
|   |                    |           | Pennsylvania.....   | 382,990            | 312,255    | California.....  | 21,897             | (NA)      |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported.

Footnotes continued on next page



Footnotes for Table 6D—37A—Continued

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 37130, Kentucky, Mississippi, Arkansas, Oklahoma; 37171, Massachusetts, New York, New Jersey, Ohio, Indiana, Illinois, Wisconsin, Minnesota, Missouri, Kansas, Delaware, Maryland, Virginia, Georgia, Kentucky, Texas; 37172, Connecticut, New York, New Jersey, Pennsylvania, Indiana, Illinois, Michigan, Wisconsin, Minnesota, Missouri, Maryland, Virginia, Georgia, Kentucky, Texas, Washington, Oregon, California; 37173, Massachusetts, New York, Pennsylvania, Ohio, Indiana, Michigan, Wisconsin, Georgia; 37174, Connecticut, Pennsylvania, Ohio, Indiana; 37175, Maine, Massachusetts, Rhode Island, Connecticut, Minnesota, Iowa, Missouri, Nebraska, Delaware, Maryland, West Virginia, Georgia, Mississippi, Arkansas, Colorado, California; 37176, Rhode Island, Minnesota, Nebraska, Maryland, Virginia, North Carolina, Kentucky, Alabama, Washington; 37177, Massachusetts, New York, Kansas, South Carolina, Florida, Tennessee, Washington, Oregon.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>For 1958, figures for product class 37175 are combined with those for product class 37176.

TABLE 6E. Production and Use of Selected Parts of the Type Used for Passenger Cars, Trucks, and Buses: 1963 and 1958

| Product   | Total number of units (1,000) |                                      |  |                       |                                      |  |
|---|-------------------------------|--------------------------------------|--|-----------------------|--------------------------------------|--|
|   | 1963                          |                                      |  | 1958                  |                                      |  |
|   | Produced <sup>1</sup>         | Used in the assembly of new vehicles | For replacement, export, and other purposes <sup>2</sup> | Produced <sup>1</sup> | Used in the assembly of new vehicles | For replacement, export, and other purposes <sup>2</sup> |
| Engines, new (with or without cylinder heads, fuel pumps, water pumps, and other standard accessories): |                               |                                      |  |                       |                                      |  |
| Gasoline.....   | 9,584                         | 8,922                                | 662  | 5,370                 | 5,032                                | 338  |
| Diesel and semi-Diesel <sup>3</sup> .....   | 63                            | 59                                   | 4  | 31                    | 25                                   | 6  |
| Cylinder heads.....   | 13,611                        | 13,298                               | 313  | (NA)                  | (NA)                                 | (NA)   |
| Pistons:  |                               |                                      |  |                       |                                      |  |
| Aluminum*.....  | 75,866                        | 64,745                               | 11,121   | (NA)                  | (NA)                                 | (NA)   |
| All other*.....   | 1,908                         | 617                                  | 1,291  | (NA)                  | (NA)                                 | (NA)   |
| Piston rings:   |                               |                                      |  |                       |                                      |  |
| Oil type*.....  | 176,758                       | 72,916                               | 103,842  | 135,312               | 37,295                               | 98,017   |
| Compression*.....   | 544,616                       | 144,449                              | 400,167  | 307,897               | 73,035                               | 234,862  |
| Valves (intake and exhaust)*.....   | 177,530                       | 130,724                              | 46,806   | (NA)                  | (NA)                                 | (NA)   |
| Carburetors*.....   | 14,908                        | 9,041                                | 5,867  | 9,750                 | 5,032                                | 4,718  |
| Fuel pump assemblies (excluding kits and rebuilds).....   | 17,942                        | 8,981                                | 8,961  | 10,989                | 5,057                                | 5,932  |
| Water pump assemblies (excluding kits and rebuilds).....  | 10,593                        | 8,683                                | 1,910  | 6,875                 | 5,057                                | 1,818  |
| Radiators, complete.....  | 9,008                         | 8,683                                | 325  | 5,351                 | 5,057                                | 294  |
| V-belts.....  | 45,399                        | 23,315                               | 22,084   | (NA)                  | (NA)                                 | (NA)   |
| Oil filter elements.....  | 157,180                       | 8,922                                | 148,258  | 99,377                | 5,032                                | 94,345   |
| Exhaust systems:  |                               |                                      |  |                       |                                      |  |
| Mufflers, including regular or standard, sports or glass pack and resonators.....                       | 33,343                        | 11,521                               | 21,822   | 430,686               | 46,946                               | 423,740  |
| Pipes, including exhaust, tail, intermediate, connecting and crossover.....                             | 61,884                        | 19,597                               | 42,287   | 429,059               | 46,946                               | 422,113  |
| Transmissions (except auxiliary):   |                               |                                      |  |                       |                                      |  |
| Passenger car type:   |                               |                                      |  |                       |                                      |  |
| Conventional transmissions.....   | 2,261                         | 1,952                                | 309  | 1,174                 | 1,038                                | 136  |
| Automatic transmissions (including semiautomatic).....  | 6,049                         | 5,671                                | 378  | 3,383                 | 3,224                                | 159  |
| Truck and bus type:   |                               |                                      |  |                       |                                      |  |
| Conventional transmissions.....   | 1,354                         | 1,277                                | 77   | 983                   | 916                                  | 67   |
| Automatic transmissions (including semiautomatic).....  | 107                           | 81                                   | 26   | 49                    | 22                                   | 27   |
| Clutch disc and facing assemblies.....  | 14,305                        | 3,229                                | 11,076   | 8,932                 | 1,954                                | 6,978  |
| Universal joints.....   | 25,271                        | 20,418                               | 4,853  | 13,904                | 11,569                               | 2,335  |
| Rear axle shafts.....   | 17,715                        | 17,030                               | 685  | 9,940                 | 9,304                                | 636  |
| Wheels for passenger cars.....  | 40,439                        | 38,832                               | 1,607  | 28,707                | 22,101                               | 6,606  |
| Wheels for trucks and busses.....   | 8,197                         | 7,102                                | 1,095  | (NA)                  | (NA)                                 | (NA)   |
| Shock absorbers.....  | 48,706                        | 34,016                               | 14,690   | (NA)                  | (NA)                                 | (NA)   |
| Ignition coils* <sup>3</sup> .....  | 18,354                        | 8,922                                | 9,432  | 9,637                 | 5,032                                | 4,605  |
| Spark plugs* <sup>3</sup> .....   | 528,607                       | 65,362                               | 463,245  | 396,064               | 38,040                               | 358,024  |
| Regulators for battery charging generators:   |                               |                                      |  |                       |                                      |  |
| Passenger car and light truck type.....   | 14,686                        | 8,474                                | 6,212  | 10,237                | 4,740                                | 5,497  |
| Heavy duty truck and bus types.....   | 1,448                         | 507                                  | 941  | 1,121                 | 409                                  | 712  |
| Condensers*.....  | 54,725                        | 15,425                               | 39,300   | 39,934                | 6,830                                | 33,104   |
| Breaker point sets:   |                               |                                      |  |                       |                                      |  |
| Contact arms*.....  | 102,268                       | 8,852                                | 93,416   | 49,726                | 3,690                                | 46,036   |
| Contact supports and screws*.....   | (NA)                          | 8,852                                | (NA)   | 34,926                | 3,690                                | 31,236   |
| Headlights, sealed beam units.....  | 78,569                        | 38,519                               | 40,050   | 53,050                | 19,724                               | 33,326   |

Note: For products identified in this table with an asterisk, it was not considered feasible to request manufacturers to identify automotive type parts separately from similar parts used for tractors, construction machinery, boats, etc. For all other products, the manufacturers were instructed to report separately automotive type versus non-automotive type parts.

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>For those products classified in industry 3717, with the exception of fuel pumps, production figures exclude units produced by establishments in other industries. Although it is not possible to precisely measure the effect of this undercoverage, it is believed to be minor for most products.

<sup>2</sup>The number of motor vehicle parts for replacement, export and other purposes were derived by subtracting from the total number of units produced, the quantities used in the assembly of new vehicles as reported by motor vehicle assembly plants.

<sup>3</sup>For these products, total number of units shipped were used instead of total number of units produced. <sup>4</sup>In 1958, these products were described respectively as "mufflers (exhaust)," and "muffler tail pipes."



TABLE 7A. Materials by Kind: 1963 and 1958

| Code                                | Material   | Unit of measure            | 1963     |                          | 1958     |                          |
|-------------------------------------|--|----------------------------|----------|--------------------------|----------|--------------------------|
|                                     |  |                            | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3713.—TRUCK AND BUS BODIES |  |                            |          |                          |          |                          |
|                                     | Materials, parts, containers and supplies, total.....  |                            | (X)      | 224,413                  | (X)      | 145,977                  |
|                                     | Mill shapes and forms (except castings):   |                            |          |                          |          |                          |
|                                     | Carbon steel:  |                            |          |                          |          |                          |
| 331011                              | Bars and bar shapes.....   | Short tons.....            | 23,102   | 3,855                    | 11,062   | 2,046                    |
| 331012                              | Sheet and strip.....   | .....do.....               | 176,232  | 28,749                   | 119,667  | 18,624                   |
| 331013                              | Plates.....  | .....do.....               | 37,777   | 5,449                    | 20,767   | 3,101                    |
| 331015                              | Structural shapes.....   | .....do.....               | 21,437   | 3,335                    | 12,163   | 1,987                    |
| 331017                              | Wire and wire products.....  | .....do.....               | 529      | 232                      | 1,015    | 348                      |
| 331019                              | All other carbon steel mill shapes and forms.....  | .....do.....               | 18,922   | 3,813                    | 5,533    | 1,042                    |
|                                     | Alloy steel (except stainless):  |                            |          |                          |          |                          |
| 331021                              | Bars and bar shapes.....   | .....do.....               | 338      | 82                       | 838      | 480                      |
| 331029                              | All other alloy mill shapes and forms.....   | .....do.....               | 2,411    | 505                      | 1,016    | 246                      |
| 331031                              | Stainless steel.....   | .....do.....               | 580      | 650                      | 694      | 846                      |
|                                     | Copper and copper-base alloy:  |                            |          |                          |          |                          |
| 335728                              | Bare wire for electrical conduction.....   | 1,000 lbs.....             | -        | -                        | 165      | 85                       |
| 335790                              | Insulated wire and cable.....  | 1,000 lbs. copper content. | 149      | 96                       |          |                          |
| 335102                              | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                         | 1,000 lbs.....             | 198      | 113                      | 407      | 461                      |
| 335123                              | Plate, sheet, and strip, including military cups and discs.....                                    | .....do.....               |          |                          |          |                          |
| 335127                              | Pipe and tube.....   | .....do.....               |          |                          |          |                          |
|                                     | Aluminum and aluminum-base alloy:  |                            |          |                          |          |                          |
| 335202                              | Sheet, plate, and foil.....  | .....do.....               | 13,507   | 6,292                    | 5,912    | 3,363                    |
| 335205                              | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                                    | .....do.....               | 6,534    | 2,766                    |          |                          |
| 335209                              | All other aluminum mill shapes and forms (wire, rolled rod, bar, powder, welded tubing, etc.)..... | .....do.....               | 503      | 278                      |          |                          |
|                                     | Primary metals and scrap:  |                            |          |                          |          |                          |
| 331051                              | Pig iron (excluding silvery iron).....   | Short tons.....            | (D)      | (D)                      | (NA)     | (NA)                     |
| 333401                              | Aluminum and aluminum-base alloy refinery shapes.....  | .....do.....               | (D)      | (D)                      | (NA)     | (NA)                     |
| 999811                              | Iron and steel scrap (purchased only).....   | .....do.....               | (D)      | (D)                      | (NA)     | (NA)                     |
|                                     | Castings (rough and semifinished):   |                            |          |                          |          |                          |
| 332011                              | Iron (gray and malleable).....   | .....do.....               | 2,650    | 905                      | 1,378    | 516                      |
| 332300                              | Steel.....   | .....do.....               | 1,316    | 847                      | 1,280    | 446                      |
| 336100                              | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....             | 190      | 163                      | 151      | 155                      |
| 336200                              | Copper and copper-base alloy.....  | .....do.....               | 82       | 72                       | 109      | 148                      |
|                                     | Forgings:  |                            |          |                          |          |                          |
| 339100                              | Iron and steel.....  | Short tons.....            | 369      | 175                      | (NA)     | (NA)                     |
| 339200                              | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....             | (D)      | (D)                      | (NA)     | (NA)                     |
| 362115                              | Fractional horsepower electric motors (under 1 hp.).....   | Number.....                | (D)      | (D)                      | (NA)     | (NA)                     |
|                                     | Bearings:  |                            |          |                          |          |                          |
| 356218                              | Ball.....  | .....do.....               | (X)      | 123                      | (X)      | 140                      |
| 356228                              | Roller.....  | .....do.....               |          |                          |          |                          |
| 229501                              | Coated, impregnated or laminated fabrics.....  | 1,000 lin. yds.            | (D)      | (D)                      | 440      | 522                      |
| 220119                              | Uncoated broad-woven fabrics (piece goods) (excluding cotton).....                                 | .....do.....               | 53       | 109                      | (NA)     | (NA)                     |
| 282130                              | Thermoplastic resins including modified resins.....  | 1,000 lbs. dry basis.....  | 121      | 60                       | (NA)     | (NA)                     |
| 282140                              | Thermosetting resins.....  | .....do.....               | 884      | 231                      | (NA)     | (NA)                     |
| 970099                              | All other materials and components, parts, containers, and supplies consumed.....                  | .....do.....               | (X)      | 115,053                  | (X)      | 85,629                   |
| 976000                              | Materials, parts, containers and supplies, n.s.k. <sup>1</sup> .....                               | .....do.....               | (X)      | 50,322                   | (X)      | 24,992                   |
| INDUSTRY 3715.—TRUCK TRAILERS       |  |                            |          |                          |          |                          |
|                                     | Materials, parts, containers, and supplies, total.....   |                            | (X)      | 298,517                  | (X)      | 192,664                  |
|                                     | Mill shapes and forms (except castings):   |                            |          |                          |          |                          |
|                                     | Carbon steel:  |                            |          |                          |          |                          |
| 331011                              | Bars and bar shapes.....   | Short tons.....            | 17,865   | 3,175                    | 10,236   | 1,726                    |
| 331012                              | Sheet and strip.....   | .....do.....               | 106,922  | 17,136                   | 55,461   | 8,748                    |
| 331013                              | Plates.....  | .....do.....               | 42,340   | 6,172                    | 25,331   | 3,889                    |
| 331015                              | Structural shapes.....   | .....do.....               | 42,414   | 11,072                   | 18,984   | 3,258                    |
| 331017                              | Wire and wire products.....  | .....do.....               |          |                          | 194      | 83                       |
| 331019                              | All other carbon steel mills shapes and forms.....   | .....do.....               |          |                          | 6,110    | 1,587                    |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material   | Unit of measure            | 1963       |                          | 1958      |                          |
|--|--|----------------------------|------------|--------------------------|-----------|--------------------------|
|  |  |                            | Quantity   | Delivered cost (\$1,000) | Quantity  | Delivered cost (\$1,000) |
| INDUSTRY 3715.—TRUCK TRAILERS--Continued               |  |                            |            |                          |           |                          |
| Mill shapes and forms (except castings)—Continued      |  |                            |            |                          |           |                          |
| Alloy steel (except stainless):                        |  |                            |            |                          |           |                          |
| 331021   | Bars and bar shapes.....   | Short tons.....            | 25,900     | 9,022                    | 3,046     | 488                      |
| 331029   | All other alloy steel mill shapes and forms.....   | ..do.....                  |            |                          |           |                          |
| 331031   | Stainless steel.....   | ..do.....                  |            |                          | 1,056     | 1,234                    |
| Copper and copper-base alloy:                          |  |                            |            |                          |           |                          |
| 335790   | Insulated wire and cable.....  | 1,000 lbs. copper content. | 773        | 433                      | 148       | 122                      |
| 335102   | Rod, bar, and mechanical wire including extruded and/or drawn shapes.....                          | 1,000 lbs.....             | 605        | 256                      | 259       | 159                      |
| 335123   | Plate, sheet, and strip, including military cups and discs.....                                    | ..do.....                  |            |                          |           |                          |
| 335127   | Pipe and tube.....   | ..do.....                  |            |                          |           |                          |
| Aluminum and aluminum-base alloy:                      |  |                            |            |                          |           |                          |
| 335202   | Sheet, plate and foil.....   | ..do.....                  | 52,472     | 22,298                   | 27,849    | 13,860                   |
| 335205   | Extruded shapes, including extruded rod, bar, pipe, tube, etc.                                     | ..do.....                  | 54,857     | 20,010                   |           |                          |
| 335209   | All other aluminum mill shapes and forms (wire, rolled rod, bar, powder, welded tubing, etc.)..... | ..do.....                  | 292        | 238                      | 19,958    | 9,469                    |
| 331051   | Pig iron (excluding silvery iron).....   | Short tons.....            | (D)        | (D)                      | (NA)      | (NA)                     |
| Scrap (excluding home scrap):                          |  |                            |            |                          |           |                          |
| 999811   | Iron and steel.....  | ..do.....                  | (D)        | (D)                      | (NA)      | (NA)                     |
| 999808   | Aluminum and aluminum-base alloy.....  | ..do.....                  | (D)        | (D)                      | (NA)      | (NA)                     |
| Castings (rough and semifinished):                     |  |                            |            |                          |           |                          |
| 332011   | Iron (gray and malleable).....   | ..do.....                  | 713        | 673                      | 668       | 310                      |
| 332300   | Steel.....   | ..do.....                  | 13,280     | 6,836                    | 5,197     | 3,039                    |
| 336100   | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....             | 566        | 367                      | 281       | 315                      |
| Forgings:  |  |                            |            |                          |           |                          |
| 339100   | Iron and steel.....  | Short tons.....            | (D)        | (D)                      | 68        | 144                      |
| 339200   | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....             | 168        | 110                      | (NA)      | (NA)                     |
| Bearings:  |  |                            |            |                          |           |                          |
| 356218   | Ball.....  | .....                      | (X)        | 284                      | (X)       | 651                      |
| 356228   | Roller.....  | .....                      | (X)        | 1,047                    |           |                          |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....                  | .....                      | (X)        | 169,484                  | (X)       | 124,946                  |
| 976000   | Materials, parts, containers and supplies, n.s.k. <sup>1</sup> .....                               | .....                      | (X)        | 29,904                   | (X)       | 17,654                   |
| INDUSTRY 3717.—MOTOR VEHICLES AND PARTS                |  |                            |            |                          |           |                          |
| Materials, parts, containers, and supplies, total..... |  |                            | (X)        | 23,517,962               | (X)       | 14,188,996               |
| Mill shapes and forms (except castings):               |  |                            |            |                          |           |                          |
| Carbon steel:  |  |                            |            |                          |           |                          |
| 331011   | Bars and bar shapes.....   | Short tons.....            | 1,006,392  | 164,965                  | 770,277   | 126,930                  |
| 331012   | Sheet and strip.....   | ..do.....                  | 11,215,348 | 1,635,877                | 6,615,120 | 934,845                  |
| 331013   | Plates.....  | ..do.....                  | 333,775    | 48,140                   | 220,096   | 33,043                   |
| 331015   | Structural shapes.....   | ..do.....                  | 26,782     | 4,189                    | 44,815    | 9,460                    |
| 331017   | Wire and wire products.....  | ..do.....                  | 149,399    | 35,017                   | 95,792    | 22,080                   |
| 331019   | All other carbon steel mill shapes and forms.....  | ..do.....                  | 280,386    | 58,331                   | 122,071   | 32,031                   |
| Alloy steel (except stainless):                        |  |                            |            |                          |           |                          |
| 331021   | Bars and bar shapes.....   | ..do.....                  | 534,059    | 111,701                  | 334,202   | 70,211                   |
| 331029   | All other alloy mill shapes and forms.....   | ..do.....                  | 81,156     | 37,838                   | 162,490   | 35,252                   |
| 331031   | Stainless steel.....   | ..do.....                  | 37,698     | 31,657                   | 24,231    | 26,781                   |
| Copper and copper-base alloy:                          |  |                            |            |                          |           |                          |
| 335728   | Bare wire for electrical conduction.....   | 1,000 lbs.....             | 1,731      | 1,130                    | 1,560     | 770                      |
| 335790   | Insulated wire and cable.....  | 1,000 lbs. copper content. | 31,304     | 15,484                   | 6,034     | 4,951                    |
| 335102   | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                         | 1,000 lbs.....             | 50,432     | 18,329                   | 167,955   | 78,078                   |
| 335123   | Plate, sheet, and strip.....   | ..do.....                  | 163,608    | 74,415                   |           |                          |
| 335127   | Pipe and tube.....   | ..do.....                  | 13,112     | 7,523                    |           |                          |
| Aluminum and aluminum-base alloy:                      |  |                            |            |                          |           |                          |
| 335202   | Sheet, plate, and foil.....  | ..do.....                  | 77,452     | 33,393                   | 19,162    | 10,761                   |
| 335205   | Extruded shapes, including extruded rod, bar, pipe, tube, etc.                                     | ..do.....                  | 22,785     | 11,196                   |           |                          |
| 335209   | All other aluminum mill shapes and forms (wire, rolled rod, bar, powder, welded tubing, etc.)..... | ..do.....                  | 17,342     | 5,274                    | 31,123    | 11,391                   |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure  | 1963      |                          | 1958      |                          |
|---|---|------------------|-----------|--------------------------|-----------|--------------------------|
|   |   |                  | Quantity  | Delivered cost (\$1,000) | Quantity  | Delivered cost (\$1,000) |
| INDUSTRY 3717.—MOTOR VEHICLES AND PARTS—Continued |   |                  |           |                          |           |                          |
| 331051  | Primary metals:   |                  |           |                          |           |                          |
| 333401  | Pig iron (excluding silvery iron).....  | Short tons.....  | 239,048   | 13,869                   | 222,568   | 15,447                   |
|   | Aluminum and aluminum-base alloy.....   | ...do.....       | 33,331    | 13,418                   | 2,425     | 1,622                    |
| 999811  | Scrap (purchased scrap only):   |                  |           |                          |           |                          |
| 999808  | Iron and steel.....   | ...do.....       | 330,649   | 13,346                   | 409,387   | 9,541                    |
|   | Aluminum and aluminum-base alloy.....   | ...do.....       | 128       | 54                       | 3,920     | 1,773                    |
| 332011  | Castings (rough and semifinished):  |                  |           |                          |           |                          |
| 332300  | Iron (gray and malleable) <sup>2</sup> .....                                      | ...do.....       | 2,979,003 | 751,493                  | 1,907,070 | 466,939                  |
| 336100  | Steel.....  | ...do.....       | 59,296    | 27,723                   | 62,827    | 23,349                   |
| 336200  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....   | 430,205   | 225,288                  | 146,993   | 71,612                   |
|   | Copper and copper-base alloy.....   | ...do.....       | 8,131     | 5,590                    | 4,037     | 2,487                    |
| 339100  | Forgings:   |                  |           |                          |           |                          |
| 339200  | Iron and steel <sup>3</sup> .....   | Short tons.....  | 999,528   | 390,967                  | 654,194   | 221,968                  |
|   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....   | 1,403     | 974                      | (NA)      | (NA)                     |
| 362115  | Fractional horsepower electric motors.....  | Thousands.....   | 7,233     | 20,968                   | 6,726     | 22,126                   |
| 356218  | Bearings:   |                  |           |                          |           |                          |
| 356228  | Ball.....   | .....            | (X)       | 47,724                   | } (X)     | 90,264                   |
|   | Roller.....   | .....            | (X)       | 108,978                  |           |                          |
| 229501  | Coated, impregnated or laminated fabrics.....                                     | 1,000 lin. yds.. | 18,590    | 18,333                   | 11,026    | 18,051                   |
| 221103  | Uncoated broad-woven fabrics:   |                  |           |                          |           |                          |
| 220119  | Cotton.....   | ...do.....       | 4,948     | 1,395                    | 2,912     | 2,469                    |
|   | Other broad-woven fabrics.....  | ...do.....       | 5,201     | 11,247                   | 3,327     | 9,294                    |
| 282130  | Thermoplastic resins.....   | 1,000 lbs.....   | 22,096    | 9,573                    | (NA)      | (NA)                     |
| 282140  | Thermosetting resins.....   | ...do.....       | 22,133    | 9,722                    | (NA)      | (NA)                     |
| 970099  | All other materials and components, parts, containers, and supplies consumed..... | .....            | (X)       | } 18,824,923             | } (X)     | 11,835,470               |
| 976000  | Materials, parts, containers, and supplies, n.s.k. <sup>1</sup> .....             | .....            | (X)       |                          |           |                          |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.s.k. Not specified by kind.

<sup>1</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

<sup>2</sup>Establishments in industry 3717 produced 663,642 tons of iron castings in 1963 for incorporation into other items produced at the same establishment. In 1958 this figure was 479,177 tons.

<sup>3</sup>Establishments in industry 3717 produced 300,184 tons of iron and steel forgings in 1963 for incorporation into other items produced at the same establishment.

TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item   | Truck and bus bodies<br>(SIC 3713) | Truck trailers<br>(SIC 3715) | Motor vehicles and parts<br>(SIC 3717) |
|--|------------------------------------|------------------------------|--|
| Total cost of purchased fuels and electric energy.....\$1,000..  | 3,913                              | 3,324                        | 180,326                                |
| Total cost of purchased fuels.....do....   | 1,515                              | 1,309                        | 72,902                                 |
| Bituminous coal, lignite, and anthracite:  |                                    |                              |  |
| Quantity.....1,000 short tons..  | 19                                 | 10                           | 3,069                                  |
| Cost.....\$1,000..   | 177                                | 90                           | 24,142                                 |
| Coke and breeze:   |                                    |                              |  |
| Quantity.....1,000 short tons..  | -                                  | (S)                          | (S)                                    |
| Cost.....\$1,000..   | -                                  | (S)                          | (S)                                    |
| Fuel oil (distillate and residual):  |                                    |                              |  |
| Quantity.....1,000 barrels of 42 gallons..   | 72                                 | (S)                          | (S)                                    |
| Cost.....\$1,000..   | 324                                | (S)                          | (S)                                    |
| Gas (natural, manufactures, still, blast furnace,<br>and coke oven):   |                                    |                              |  |
| Quantity.....million cu.ft..   | 1,115                              | 681                          | 45,464                                 |
| Cost.....\$1,000..   | 741                                | 392                          | 24,522                                 |
| Other fuels.....do....   | 273                                | 207                          | 11,739                                 |
| Electric energy:   |                                    |                              |  |
| Purchased:   |                                    |                              |  |
| Quantity.....million kw.-hrs..   | 119                                | 179                          | 9,898                                  |
| Cost.....\$1,000..   | 2,398                              | 2,015                        | 107,424                                |
| Generated less sold.....million kw.-hrs..  | -                                  | -                            | 195                                    |
| Aggregate horsepower of prime movers and electric motors<br>driven by purchased energy (December 31, 1962), total.....1,000 hp.. | 81                                 | 120                          | 5,851                                  |
| Prime movers, total.....do....   | 6                                  | 26                           | 690                                    |
| Driving generators.....do....  | 2                                  | 11                           | 111                                    |
| Not driving generators.....do....  | 4                                  | 15                           | 579                                    |
| Electric motors, total.....do....  | 75                                 | 95                           | 5,251                                  |
| Driven by purchased energy.....do....  | 75                                 | 95                           | 5,161                                  |
| Driven by energy generated at establishment.....do....   | -                                  | -                            | 90                                     |
| Aggregate horsepower per 100 production workers.....   | -                                  | -                            | 1,144                                  |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.



**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3713-                          | TRUCK AND BUS BODIES  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 610                     | 24,466         | 133,300           | 19,729             | 40,897            | 98,359          | 229,472  | 250,217                     | 476,733                      | 6,554                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...   | 494                     | 16,292         | 86,752            | 13,322             | 27,646            | 64,978          | 145,849  | 160,995                     | 305,015                      | 4,904                               |
|                                | 75-89% specialization.....  | 42                      | 3,325          | 18,254            | 2,732              | 5,566             | 13,299          | 32,034   | 37,020                      | 68,287                       | 748                                 |
| 3717-                          | MOTOR VEHICLES AND PARTS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 1,958                   | 649,926        | 4,947,271         | 535,842            | 1,192,606         | 3,889,636       | 12,345,630                                     | 23,889,431                  | 36,181,007                   | 643,555                             |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...   | 1,697                   | 550,104        | 4,224,062         | 454,964            | 1,018,328         | 3,337,608       | 10,974,898                                     | 22,587,260                  | 33,520,494                   | 558,132                             |
|                                | 75-89% specialization.....  | 88                      | 47,106         | 363,733           | 38,819             | 86,584            | 286,812         | 640,880  | 772,378                     | 1,441,922                    | 44,074                              |
| 37171                          | Passenger cars, knocked down or assembled and chassis for sale separately (primary product class of estab.).....  | 54                      | 172,665        | 1,433,781         | 141,288            | 332,818           | 1,130,232       | 5,195,695                                      | 14,175,101                  | 19,352,160                   | 197,319                             |
| 37172                          | Truck tractors, truck chassis, trucks (chassis of own manufacture) (primary product class of estab.).....   | 59                      | 48,215         | 334,579           | 37,510             | 75,087            | 244,351         | 563,381  | 1,757,432                   | 2,329,262                    | 53,341                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...   | 29                      | 13,731         | 99,541            | 10,717             | 21,569            | 73,395          | 166,497  | 589,290                     | 752,271                      | 6,290                               |
| 37173                          | Motor coaches, except trolley busses and fire department vehicles (chassis of own manufacture) (primary product class of estab.).....                   | 15                      | 2,894          | 17,636            | 2,190              | 4,488             | 11,992          | 26,854   | 39,900                      | 67,055                       | 376                                 |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...   | 9                       | 1,140          | 7,834             | 761                | 1,667             | 4,856           | 10,225   | 16,902                      | 28,305                       | 174                                 |
| 37175                          | Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufacturers (primary product class of estab.).....             | 461                     | 375,216        | 2,880,232         | 314,592            | 697,148           | 2,308,910       | 5,962,734                                      | 7,390,028                   | 13,317,002                   | 319,031                             |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...   | 306                     | 221,737        | 1,712,680         | 188,718            | 421,758           | 1,397,942       | 3,717,262                                      | 5,068,812                   | 8,759,568                    | 191,044                             |
|                                | 75-89% specialization.....  | 63                      | 81,845         | 656,431           | 67,049             | 150,885           | 515,917         | 1,199,308                                      | 1,469,748                   | 2,656,797                    | 62,662                              |
| 37176                          | Parts and accessories for passenger cars, trucks, and busses, shipped to other than motor vehicles manufacturers (primary product class of estab.)..... | 695                     | 36,237         | 207,386           | 28,321             | 58,319            | 140,757         | 439,122  | 399,296                     | 833,603                      | 35,446                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...   | 557                     | 17,794         | 91,949            | 14,504             | 30,622            | 64,866          | 224,496  | 218,768                     | 440,100                      | 26,151                              |
|                                | 75-89% specialization.....  | 54                      | 5,640          | 32,414            | 4,496              | 9,067             | 22,617          | 77,423   | 62,191                      | 138,452                      | 2,380                               |
| 37177                          | Rebuilt automotive parts, excluding carburetors (primary products class of estab.).....   | 203                     | 10,295         | 51,105            | 8,486              | 17,712            | 37,636          | 112,518  | 81,096                      | 190,968                      | 20,767                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...   | 178                     | 8,832          | 43,737            | 7,335              | 15,258            | 32,205          | 98,342   | 70,894                      | 166,721                      | 17,787                              |
|                                | 75-89% specialization.....  | 9                       | 504            | 2,724             | 408                | 884               | 2,151           | 7,110  | 3,505                       | 10,897                       | 2,080                               |

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations  | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3713.—TRUCK AND BUS BODIES  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Nonferrous foundry (except die casting).....   | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Nonferrous die casting.....  | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 8                        | 6   | 2       | -          | 24                                    | (D)                                       | (D)     | -          |
| Electroplating and other plating.....  | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Automatic screw machine department.....  | 2                        | 1   | 1       | -          | (D)                                   | (D)                                       | (D)     | -          |
| Machine shop.....  | 50                       | 32  | 12      | 6          | 551                                   | 60  | 132     | 359        |
| Tool and die shop.....   | 22                       | 9   | 12      | 1          | 121                                   | 13  | (D)     | (D)        |
| Foundry pattern shop.....  | 7                        | 5   | 2       | -          | 25                                    | (D)                                       | (D)     | -          |
| Plate or structural fabrication.....   | 75                       | 46  | 22      | 7          | 514                                   | 85  | 207     | 222        |
| Stamping, blanking and forming of metals.....  | 101                      | 59  | 20      | 22         | 1,528                                 | 116                                       | 196     | 1,216      |
| Painting, lacquering and enameling on metals.....  | 174                      | 127                                       | 34      | 13         | 1,086                                 | 237                                       | 265     | 584        |
| Plastics molding.....  | 9                        | 6   | 3       | -          | 45                                    | 16  | 29      | -          |
| Assembly of product.....   | 164                      | 30  | 77      | 57         | 6,229                                 | 40  | 788     | 5,401      |
| Shipping department, including packing and crating...                                    | 106                      | 81  | 22      | 3          | 433                                   | 134                                       | 173     | 126        |
| INDUSTRY 3715.—TRUCK TRAILERS  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 1                        | -   | -       | 1          | (D)                                   | -   | -       | (D)        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 1                        | -   | 1       | -          | (D)                                   | -   | (D)     | -          |
| Electroplating and other plating.....  | 2                        | 1   | 1       | -          | (D)                                   | (D)                                       | (D)     | -          |
| Galvanizing and other hot dip coating.....   | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Heat treating of metals.....   | 3                        | 2   | -       | 1          | (D)                                   | (D)                                       | -       | (D)        |
| Machine shop.....  | 44                       | 23  | 13      | 8          | 491                                   | 47  | 153     | 291        |
| Tool and die shop.....   | 12                       | 7   | 3       | 2          | 92                                    | (D)                                       | 27      | (D)        |
| Foundry pattern shop.....  | 4                        | 2   | 2       | -          | 18                                    | (D)                                       | (D)     | -          |
| Plate or structural fabrication.....   | 52                       | 16  | 21      | 15         | 924                                   | 34  | 213     | 677        |
| Stamping, blanking and forming of metals.....  | 53                       | 18  | 23      | 12         | 875                                   | 40  | 246     | 589        |
| Painting, lacquering and enameling on metals.....  | 73                       | 52  | 14      | 7          | 471                                   | 106                                       | 111     | 254        |
| Plastics molding.....  | 5                        | 4   | -       | 1          | (D)                                   | (D)                                       | -       | (D)        |
| Assembly of product.....   | 78                       | 9   | 22      | 47         | 7,623                                 | 11  | 235     | 7,377      |
| Shipping department, including packing and crating...                                    | 57                       | 43  | 12      | 2          | 214                                   | (D)                                       | 93      | (D)        |
| INDUSTRY 3717.—MOTOR VEHICLES AND PARTS  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 19                       | 4   | 1       | 14         | 6,943                                 | (D)                                       | (D)     | 6,930      |
| Nonferrous foundry.....  | 13                       | 3   | 5       | 5          | 339                                   | 5   | 56      | 278        |
| Nonferrous die casting.....  | 26                       | 8   | 6       | 12         | 900                                   | 16  | 61      | 823        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 47                       | 8   | 14      | 25         | 3,433                                 | 12  | 159     | 3,262      |
| Electroplating and other plating.....  | 95                       | 42  | 23      | 30         | 3,291                                 | 93  | 213     | 2,985      |
| Galvanizing and other hot dip coating.....   | 35                       | 23  | 9       | 3          | 203                                   | 51  | 79      | 73         |
| Heat treating of metals.....   | 171                      | 66  | 52      | 53         | 3,915                                 | 140                                       | 486     | 3,289      |
| Automatic screw machine department.....  | 140                      | 51  | 46      | 43         | 3,180                                 | 104                                       | 459     | 2,617      |
| Machine shop.....  | 468                      | 107                                       | 119     | 242        | 65,026                                | 196                                       | 1,228   | 63,602     |
| Tool and die shop.....   | 319                      | 84  | 91      | 144        | 23,459                                | 165                                       | 951     | 22,343     |
| Foundry pattern shop.....  | 32                       | 10  | 10      | 12         | 736                                   | 17  | 83      | 636        |
| Plate or structural fabrication.....   | 70                       | 22  | 26      | 22         | 3,241                                 | 46  | 252     | 2,943      |
| Stamping, blanking and forming of metals.....  | 417                      | 94  | 124     | 199        | 58,303                                | 187                                       | 1,201   | 56,915     |
| Painting, lacquering and enameling on metals.....  | 402                      | 216                                       | 86      | 100        | 21,567                                | 364                                       | 602     | 20,601     |
| Plastics molding.....  | 26                       | 9   | 12      | 5          | 502                                   | 21  | 90      | 391        |
| Assembly of product.....   | 590                      | 111                                       | 114     | 365        | 244,269                               | 203                                       | 1,189   | 242,877    |
| Shipping department, including packing and crating...                                    | 612                      | 291                                       | 165     | 156        | 16,236                                | 586                                       | 1,643   | 14,007     |

Note: Very small establishments were not requested to report their metalworking operations and, in some instances, a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production-worker employment on the last line of the table below:

| Item   | Truck and bus bodies (SIC 3713) | Truck trailers (SIC 3715) | Motor vehicles and parts (SIC 3717) |
|--|---------------------------------|---------------------------|-------------------------------------|
| Total number of establishments in the industry.....  | 610                             | 197                       | 1,958                               |
| Number of establishments which reported one or more of the specified operations.....                               | 216                             | 95                        | 830                                 |
| Percent of industry production workers in these establishments.....  | 70-75                           | 80-85                     | 85-90                               |
| Number of establishments which reported "none" of the operations apply.....  | 57                              | 30                        | 136                                 |
| Percent of industry production workers in these establishments.....  | 5-10                            | 0-5                       | 0-5                                 |
| Percent of industry production workers in establishments which completed the metal working operations inquiry..... | 75-80                           | 85-90                     | 90-95                               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishment.



## AIRCRAFT AND PARTS

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3721—Aircraft
- 3722—Aircraft Engines and Engine Parts
- 3723—Aircraft Propellers and Propeller Parts
- 3729—Aircraft Parts and Auxiliary Equipment, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3721—AIRCRAFT

This industry comprises establishments primarily engaged in manufacturing or assembling complete aircraft. This industry includes establishments primarily engaged in factory type aircraft modification on a contract or fee basis. Establishments primarily engaged in manufacturing engines, propellers, and other aircraft parts and auxiliary equipment are classified in industries 3722, 3723, and 3729. For a detailed list of products of industry 3721, refer to table 6A, product codes 3721111 to 3721655.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

In industry 3721 there is usually a significant difference between value of actual physical shipments and value of work done during a specified period. This is primarily due to lead time between the input of materials and labor and the shipments of completed aircraft. In evaluating the internal relationships of the Aircraft Industry, such as the ratio of cost of materials or payrolls to output, the value of aircraft shipments for the year is generally not meaningful and value of work done is therefore substituted. For the 1963 Census of Manufactures, establishments producing military, personal, utility, and commercial aircraft were requested to report both the value of shipments of aircraft and value of work done during the year. This latter statistic included total costs (materials, labor, overhead, etc.) and reflected the value of work done during 1963, including work done on aircraft not accepted during the year, but excluding the value of work done in prior years.

Value of work done and other receipts of the Aircraft Industry totaled \$6,317 million. This amount included work done on aircraft (primary products) valued at \$4,164 million, shipments of other products (secondary products) valued at \$1,898 million, and miscellaneous receipts (mainly resales) at \$254 million.

This industry's work done on aircraft represented 69 percent of its total product shipments. The industry specialization ratio in 1958 was 81 percent. Secondary products shipped by this industry in 1963 consisted mainly of aircraft parts and auxiliary equipment (\$714 million), and guided missiles and space vehicles, complete (\$372 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 54 percent of the total industry shipments are represented by plants specializing in product class 37211, Complete military aircraft.

Work done on aircraft by this industry in 1963 represented 96 percent of all work done on these products (\$4,331 million) by all industries. In 1958 the coverage ratio was 99 percent.

#### 3722—AIRCRAFT ENGINES AND ENGINE PARTS

This industry comprises establishments primarily engaged in the manufacture of aircraft engines, complete missile or space vehicle engines and/or propulsion units, and their parts. For a detailed list of products of industry 3722, refer to table 6A, product codes 3722110 to 3722813.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Aircraft Engines and Parts Industry totaled \$4,101 million. This amount included shipments of aircraft engines and engine parts (primary products) valued at \$3,367 million, shipments of other products (secondary products) valued at \$495 million, and miscellaneous receipts (mainly resales) at \$238 million.

This industry's shipments of aircraft engines and engine parts represented 87 percent of its total product shipments. The industry specialization ratio in 1958 was 94 percent. Secondary products shipped by this industry in 1963 included guided missile components and subassemblies, n.e.c. (\$128 million), and aircraft parts and auxiliary equipment, n.e.c. (\$35 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 40 percent of the total industry shipments are represented by plants specializing in product class 37221, Aircraft engines for military customers; 25 percent in product class 37226, Receipts for research and development on complete missile or space vehicle engines and/or propulsion units; and 18 percent in product class 37224, Aircraft engine parts and accessories.

Shipments of aircraft engines and engine parts by this industry represented 93 percent of all shipments of these products (\$3,610 million) by all industries. In 1958 the coverage ratio was also 93 percent. Other industries shipping aircraft engines and engine parts included industry 3729, Aircraft Equipment, N.E.C., \$18 million; and industry 3494, Valves and Pipe Fittings, \$13 million.



### 3723—AIRCRAFT PROPELLERS AND PROPELLER PARTS

This industry comprises establishments primarily engaged in manufacturing aircraft propellers and propeller parts. For a detailed list of products of industry 3723, refer to table 6A, product codes 3723010 to 3723051.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Aircraft Propellers and Parts Industry totaled \$191 million. This amount included shipments of aircraft propellers and propeller parts (primary products) valued at \$88 million, shipments of other products (secondary products) valued at \$95 million, and miscellaneous receipts at \$8 million.

This industry's shipments of aircraft propellers and parts represented 48 percent of its total product shipments. The industry specialization ratio in 1958 was 75 percent.

Shipments of aircraft propellers and parts by this industry represented 81 percent of all shipments of these products (\$109 million) by all industries. In 1958 the coverage ratio was 95 percent.

### 3729—AIRCRAFT PARTS AND AUXILIARY EQUIPMENT, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing aircraft parts and auxiliary equipment, n.e.c., including nose cones for guided missiles. Establishments primarily engaged in manufacturing or assembling complete aircraft are classified in industry 3721, aircraft engines and parts in industry 3722, propellers and propeller parts in industry 3723, aeronautical instruments in industry 3811, and aeronautical electrical equipment in industry 3694. For a detailed list of products of industry 3729, refer to table 6A, product codes 3729113 to 3729439.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Aircraft Equipment, N.E.C., Industry totaled \$3,169 million. This amount included shipments of aircraft equipment, n.e.c. (primary products) valued at \$2,254 million, shipments of other products (secondary products) valued at \$761 million, and miscellaneous receipts at \$153 million.

This industry's shipments of aircraft equipment, n.e.c., represented 75 percent of its total product shipments. The industry specialization ratio in 1958 was 84 percent. Secondary products shipped by this industry in 1963 included research and development on guided missiles (complete) (\$108 million), and aircraft engine parts (\$18 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 59 percent of the total industry shipments are represented by plants specializing in product class 37291, Aircraft parts and auxiliary equipment, n.e.c.; and 25 percent in product class 37292, Guided missile components and subassemblies, n.e.c.

Shipments of aircraft equipment, n.e.c., by this industry represented 59 percent of all shipments of these products (\$3,792 million) by all industries. In 1958 the coverage ratio was 63 percent.

# AIRCRAFT AND PARTS: SIC 372

## Value Added by Manufacture by State: 1963

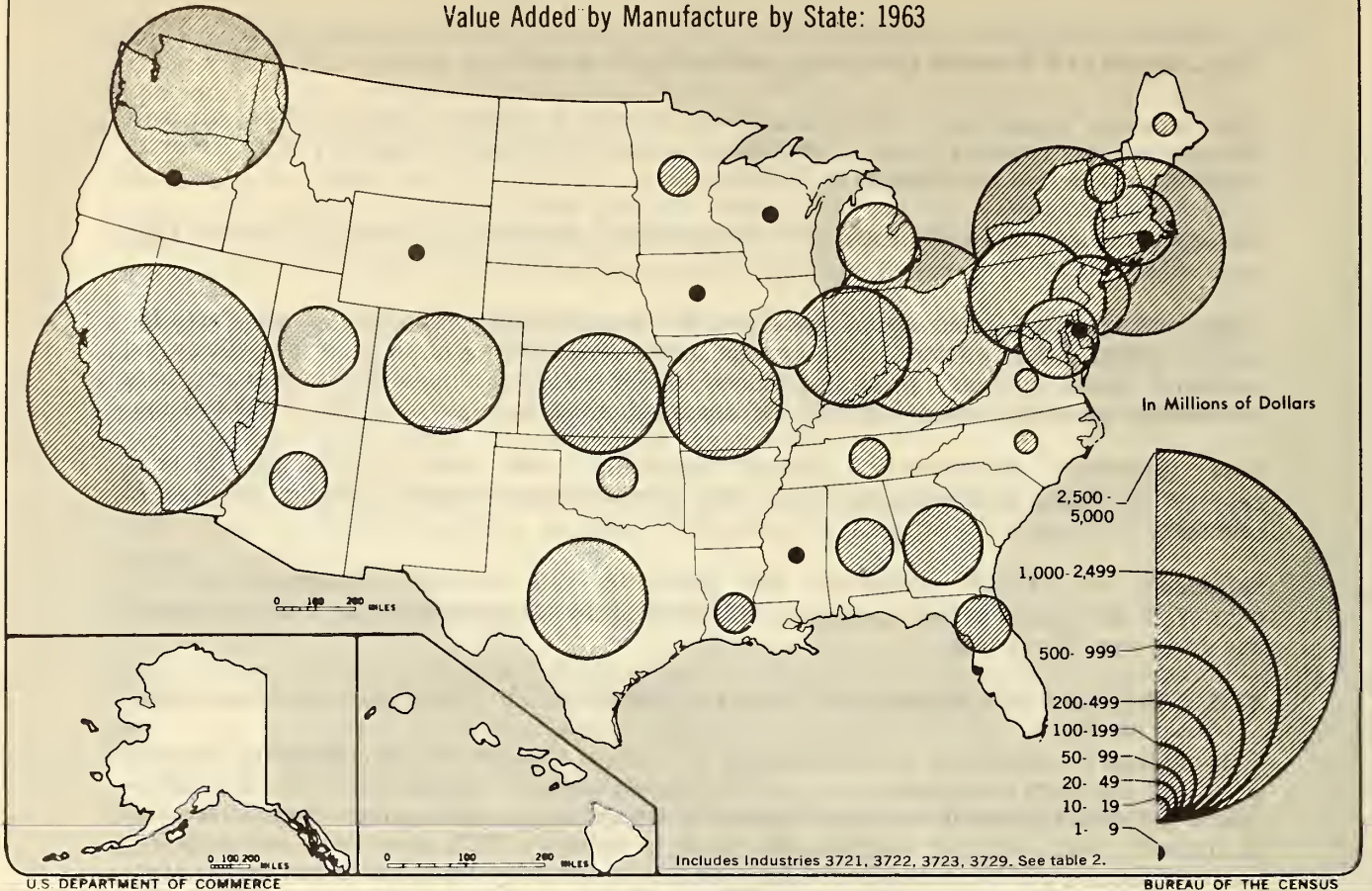




TABLE 1. General Statistics: 1963 and Earlier Years

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added<br>by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expendi-<br>tures,<br>new<br>(\$1,000) | Speci-<br>alization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|---|-----------------------------------|------------------------------------|---|--|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                   |                                    |   |  |  |
| INDUSTRY 3721.—AIRCRAFT                      |                            |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                                    | 82                         | 100               | 65   | 302,201           | 2,369,416            | 166,744            | 342,120              | 1,097,103          | 13,542,695  | 2,773,836                         | 26,316,531                         | 114,658   | 69   | 96                                       |
| 1962 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 326,140           | 2,468,712            | 180,369            | 378,192              | 1,131,358          | 13,363,486  | 2,842,279                         | 26,205,647                         | 119,655   | (NA)   | (NA)                                     |
| 1961 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 305,435           | 2,205,508            | 172,942            | 351,726              | 1,023,524          | 13,046,923  | 2,953,275                         | 26,000,080                         | 71,816  | (NA)   | (NA)                                     |
| 1960 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 302,428           | 2,084,943            | 177,567            | 366,374              | 1,043,943          | 13,044,749  | 2,874,174                         | 25,920,180                         | 62,755  | (NA)   | (NA)                                     |
| 1959 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 369,253           | 2,419,610            | 225,581            | 461,834              | 1,248,162          | 13,305,013  | 3,503,653                         | 26,808,666                         | 89,695  | (NA)   | (NA)                                     |
| 1958.....                                    | 113                        | 127               | 82   | 377,833           | 2,340,306            | 251,249            | 508,195              | 1,334,705          | 13,399,163  | 3,038,904                         | 26,438,067                         | 94,167  | 81   | 93                                       |
| 1957 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 555,735           | 3,191,272            | 358,910            | 727,899              | 1,814,568          | 14,544,653  | 3,902,226                         | 28,419,451                         | 191,479   | 86   | 98                                       |
| 1956 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 501,664           | 2,880,902            | 336,538            | 699,604              | 1,683,329          | 13,880,671  | 3,026,237                         | 26,846,165                         | 150,615   | (NA)   | (NA)                                     |
| 1955 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 466,888           | 2,467,116            | 319,963            | 650,576              | 1,510,377          | 13,285,543  | 2,920,612                         | 25,677,097                         | 74,577  | (NA)   | (NA)                                     |
| 1954.....                                    | 46                         | 72                | 69   | 457,618           | 2,277,320            | 320,445            | 654,781              | 1,441,632          | 13,368,747  | 3,193,829                         | 26,562,576                         | 59,446  | 89   | 99                                       |
| 1953 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 439,390           | 2,126,719            | 315,401            | 663,082              | 1,371,973          | 2,811,927   | (NA)                              | (NA)                               | (NA)  | (NA)   | (NA)                                     |
| 1952 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 416,645           | 1,868,552            | 303,842            | 642,431              | 1,239,059          | 2,508,640   | (NA)                              | (NA)                               | (NA)  | (NA)   | (NA)                                     |
| 1951 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 311,505           | 1,309,261            | 231,659            | (NA)                 | 905,684            | 1,614,700   | (NA)                              | (NA)                               | (NA)  | (NA)   | (NA)                                     |
| 1950 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 186,020           | 712,427              | 136,890            | 289,833              | 480,268            | 907,880   | (NA)                              | (NA)                               | (NA)  | (NA)   | (NA)                                     |
| 1949 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 168,206           | 602,545              | 125,395            | 258,941              | 406,690            | 779,552   | (NA)                              | (NA)                               | (NA)  | (NA)   | (NA)                                     |
| 1947 <sup>5</sup> .....                      | 47                         | 58                | 50   | 146,625           | 462,906              | 110,332            | 221,796              | 316,795            | 605,983   | (4)                               | (4)                                | (NA)  | (NA)   | (NA)                                     |
| 1939 <sup>5</sup> .....                      | (NA)                       | 44                | (NA)   | (NA)              | (NA)                 | 34,159             | (NA)                 | 52,813             | 112,343   | (4)                               | (4)                                | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3722.—AIRCRAFT ENGINES AND PARTS    |                            |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                                    | 194                        | 232               | 172  | 190,834           | 1,486,081            | 105,890            | 222,000              | 705,727            | 2,244,317   | 1,876,762                         | 4,100,520                          | 111,529   | 87   | 93                                       |
| 1962 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 178,635           | 1,331,068            | 103,049            | 216,042              | 645,986            | 1,984,030   | 1,686,604                         | 3,660,522                          | 78,487  | (NA)   | (NA)                                     |
| 1961 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 162,877           | 1,162,559            | 94,068             | 197,606              | 571,305            | 1,759,264   | 1,507,035                         | 3,242,436                          | 54,379  | (NA)   | (NA)                                     |
| 1960 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 165,766           | 1,144,770            | 94,600             | 197,341              | 556,571            | 1,633,040   | 1,473,211                         | 3,094,887                          | 46,685  | (NA)   | (NA)                                     |
| 1959 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 171,756           | 1,158,468            | 101,197            | 212,904              | 581,880            | 1,813,745   | 1,676,619                         | 3,507,128                          | 64,093  | (NA)   | (NA)                                     |
| 1958.....                                    | 186                        | 223               | 175  | 159,094           | 999,237              | 94,531             | 194,858              | 509,724            | 1,615,671   | 1,719,082                         | 3,512,073                          | 55,883  | 94   | 93                                       |
| 1957 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 181,177           | 1,033,320            | 113,074            | 236,575              | 587,835            | 1,752,206   | 1,999,672                         | 3,707,014                          | 108,501   | 93   | 94                                       |
| 1956 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 165,146           | 938,491              | 108,932            | 232,954              | 557,321            | 1,557,844   | 1,597,771                         | 2,957,952                          | 94,962  | (NA)   | (NA)                                     |
| 1955 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 148,785           | 769,692              | 97,955             | 205,217              | 455,195            | 1,288,257   | 1,474,204                         | 2,792,603                          | 57,327  | (NA)   | (NA)                                     |
| 1954.....                                    | 202                        | 234               | 183  | 167,383           | 819,181              | 117,277            | 243,536              | 522,850            | 1,435,443   | 1,753,507                         | 3,268,863                          | 46,689  | 93   | 91                                       |
| 1953 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 187,426           | 919,950              | 135,443            | 292,680              | 619,590            | 1,614,748   | (NA)                              | (NA)                               | (NA)  | (NA)   | (NA)                                     |
| 1952 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 153,199           | 743,372              | 111,165            | 247,064              | 511,875            | 1,148,345   | (NA)                              | (NA)                               | (NA)  | (NA)   | (NA)                                     |
| 1951 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 107,242           | 499,479              | 77,297             | 176,553              | 343,740            | 665,214   | (NA)                              | (NA)                               | (NA)  | (NA)   | (NA)                                     |
| 1950 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 67,603            | 278,759              | 48,464             | 104,945              | 186,219            | 447,211   | (NA)                              | (NA)                               | (NA)  | (NA)   | (NA)                                     |
| 1949 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 59,863            | 228,368              | 45,556             | 90,987               | 152,952            | 381,212   | 377,914                           | 759,126                            | (NA)  | (NA)   | (NA)                                     |
| 1947 <sup>5</sup> .....                      | (NA)                       | 59                | (NA)   | 50,423            | 166,308              | 36,019             | (NA)                 | 110,716            | 252,254   | 212,369                           | 464,623                            | (NA)  | 90   | 95                                       |
| 1939 <sup>5</sup> .....                      | (NA)                       | 20                | (NA)   | (NA)              | (NA)                 | 9,445              | (NA)                 | 17,041             | 50,928  | 31,276                            | 82,204                             | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3723.—AIRCRAFT PROPELLERS AND PARTS |                            |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                                    | 13                         | 14                | 8  | 11,183            | 78,712               | 6,231              | 13,515               | 37,666             | 113,433   | 69,829                            | 190,761                            | 6,045   | 48   | 81                                       |
| 1962 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 9,764             | 72,260               | 5,687              | 13,053               | 36,150             | 99,055  | 63,806                            | 157,320                            | 3,964   | (NA)   | (NA)                                     |
| 1961 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 10,526            | 70,436               | 5,535              | 12,221               | 34,290             | 87,543  | 60,618                            | 157,395                            | 3,871   | (NA)   | (NA)                                     |
| 1960 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 10,742            | 71,521               | 5,913              | 12,240               | 34,958             | 101,434   | 65,449                            | 163,692                            | 2,107   | (NA)   | (NA)                                     |
| 1959 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 11,384            | 72,767               | 6,852              | 14,098               | 38,732             | 95,369  | 74,726                            | 173,790                            | (2,442)   | (NA)   | (NA)                                     |
| 1958.....                                    | 17                         | 18                | 10   | 15,505            | 85,635               | 9,617              | 19,363               | 49,478             | 112,301   | 106,642                           | 235,270                            | 5,507   | 75   | 95                                       |
| 1957 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 17,567            | 98,415               | 11,981             | 23,493               | 60,838             | 156,119   | 115,131                           | 265,871                            | 14,452  | (NA)   | (NA)                                     |
| 1956 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 13,655            | 80,165               | 9,417              | 19,332               | 48,542             | 126,597   | 85,462                            | 195,348                            | 7,580   | (NA)   | (NA)                                     |
| 1955 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 12,247            | 65,263               | 8,213              | 17,225               | 39,669             | 96,939  | 72,042                            | 167,906                            | 2,947   | (NA)   | (NA)                                     |
| 1954.....                                    | 16                         | 16                | 13   | 16,523            | 78,058               | 11,647             | 22,179               | 49,455             | 99,455  | 106,566                           | 215,213                            | 4,320   | 84   | 87                                       |
| 1953 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 18,041            | 85,506               | 13,354             | 27,334               | 59,013             | 129,601   | (NA)                              | (NA)                               | (NA)  | (NA)   | (NA)                                     |
| 1952 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 13,880            | 67,440               | 9,944              | 21,771               | 46,233             | 70,831  | (NA)                              | (NA)                               | (NA)  | (NA)   | (NA)                                     |
| 1951 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 10,883            | 52,030               | 7,512              | 16,850               | 34,396             | 66,725  | (NA)                              | (NA)                               | (NA)  | (NA)   | (NA)                                     |
| 1950 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 8,675             | 35,602               | 5,739              | 11,672               | 21,937             | 50,468  | (NA)                              | (NA)                               | (NA)  | (NA)   | (NA)                                     |
| 1949 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 8,065             | 30,984               | 5,343              | 10,869               | 18,636             | 41,628  | (NA)                              | (NA)                               | (NA)  | (NA)   | (NA)                                     |
| 1947 <sup>5</sup> .....                      | 12                         | 13                | 9  | 7,423             | 25,666               | 4,822              | 9,916                | 15,230             | 26,685  | (4)                               | (4)                                | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3729.—AIRCRAFT EQUIPMENT, N.E.C.    |                            |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                                    | 935                        | 1,000             | 470  | 175,167           | 1,319,476            | 111,430            | 232,819              | 745,501            | 1,966,904   | 1,167,527                         | 3,168,607                          | 61,931  | 75   | 59                                       |
| 1962 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 200,672           | 1,461,984            | 112,479            | 233,954              | 716,683            | 2,019,961   | 1,722,703                         | 3,699,870                          | 89,316  | (NA)   | (NA)                                     |
| 1961 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 210,304           | 1,475,782            | 123,350            | 260,290              | 754,319            | 2,062,888   | 1,962,980                         | 3,973,754                          | 96,294  | (NA)   | (NA)                                     |
| 1960 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 199,800           | 1,315,011            | 131,098            | 277,467              | 763,714            | 1,799,694   | 1,427,782                         | 3,181,527                          | 67,553  | (NA)   | (NA)                                     |
| 1959 <sup>3</sup> .....                      | (NA)                       | (NA)              | (NA)   | 200,336           | 1,284,912            | 135,008            | 287,423              | 761,795            | 1,746,413   | 1,326,708                         | 3,030,598                          | (S)   | (NA)   | (NA)                                     |
| 1958 <sup>6</sup> .....                      | 1,148                      | 1,201             | 508  | 213,500           | 1,294,872            | 144,102            | 296,671              | 781,914            | 1,797,203   | 1,155,011                         | 3,031,089                          | 50,991  | 84   | 63                                       |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: **All employees:** For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** For 1947 and prior years figures represent an average of 12 monthly figures. **Value added:** Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. **Cost of materials:** Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. **Value of shipments:** Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Footnotes continued on next page.

TABLE 1. General Statistics: 1963 and Earlier Years—Continued

Footnotes for Table 1-37B-Continued

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>For the period 1954-1963, the adjusted value added figure for the Aircraft Industry has not been adjusted for the change in inventory between the beginning and end of the year, since the figures reported by establishments in this industry are value of work done rather than value of shipments. It does include the value added by resales. For prior years this figure is unadjusted value added.

<sup>2</sup>For industry 3721, represents value of work done rather than value of shipments.

<sup>3</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>4</sup>Total cost of materials and total value of shipments are not shown since these figures are not comparable to those of later years.

<sup>5</sup>No comparable figures are available for previous years.

<sup>6</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification. Accordingly, the data for 1958-1963 are not comparable with those for earlier years.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>              | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                                 | 1958                      |                  |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|---------------------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments <sup>2</sup> | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                                 |                           |                  |                                      |
| INDUSTRY 3721.—AIRCRAFT                   |                |                                    |                |                   |                    |                   |                 |                                      |                   |                                 |                           |                  |                                      |
| Total.....                                | 100            | 65                                 | 302,201        | 2,369,416         | 166,744            | 342,120           | 1,097,103       | 3,542,695                            | 2,773,836         | 6,316,531                       | 114,658                   | 377,383          | 3,399,163                            |
| Northeast.....                            | 18             | 13                                 | 59,582         | 480,599           | 35,852             | 73,673            | 248,878         | 709,055                              | 548,119           | 1,257,174                       | 32,414                    | 42,713           | 380,979                              |
| North Central.....                        | 12             | 9                                  | 50,504         | 380,975           | 31,290             | 65,883            | 195,284         | 519,905                              | 597,395           | 1,117,300                       | 25,830                    | 70,125           | 548,785                              |
| South.....                                | 35             | 25                                 | 59,578         | 439,281           | 34,858             | 71,447            | 218,391         | 572,522                              | 496,361           | 1,068,883                       | 14,157                    | 90,986           | 807,008                              |
| Maryland.....                             | 3              | 2                                  | 207            | 1,113             | 157                | 320               | 667             | 792                                  | 1,508             | 2,300                           | 20                        | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| Texas.....                                | 13             | 11                                 | 28,808         | 227,816           | 15,762             | 32,290            | 100,343         | 304,472                              | 259,910           | 564,382                         | 8,472                     | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| West.....                                 | 35             | 18                                 | 132,537        | 1,068,561         | 64,744             | 131,117           | 434,550         | 1,741,213                            | 1,131,961         | 2,873,174                       | 42,257                    | 173,559          | 1,662,391                            |
| INDUSTRY 3722.—AIRCRAFT ENGINES AND PARTS |                |                                    |                |                   |                    |                   |                 |                                      |                   |                                 |                           |                  |                                      |
| Total.....                                | 232            | 172                                | 190,834        | 1,486,081         | 105,890            | 222,000           | 705,727         | 2,244,317                            | 1,876,762         | 4,100,520                       | 111,529                   | 159,094          | 1,615,671                            |
| New England.....                          | 51             | 40                                 | 50,013         | 356,287           | 32,296             | 69,968            | 206,504         | 559,915                              | 559,691           | 1,129,654                       | 21,891                    | 42,196           | 379,755                              |
| Middle Atlantic....                       | 40             | 26                                 | 20,552         | 140,959           | 12,520             | 25,617            | 77,050          | 245,078                              | 128,414           | 385,329                         | 8,643                     | 26,517           | 285,146                              |
| Pennsylvania.....                         | 13             | 10                                 | 4,840          | 29,672            | 3,617              | 7,499             | 20,799          | 65,773                               | 33,546            | 98,996                          | 898                       | 6,019            | 62,523                               |
| East North Central.                       | 67             | 56                                 | 42,004         | 321,853           | 24,714             | 50,131            | 161,892         | 504,985                              | 452,744           | 955,831                         | 19,667                    | 53,453           | 607,955                              |
| Ohio.....                                 | 22             | 19                                 | 21,734         | 168,215           | 11,597             | 23,136            | 75,330          | 261,780                              | 255,839           | 513,893                         | 6,452                     | 26,208           | 294,870                              |
| Illinois.....                             | 6              | 5                                  | 1,902          | 14,187            | 1,227              | 2,662             | 8,276           | 26,117                               | 12,220            | 38,400                          | 2,484                     | ( <sup>3</sup> ) | ( <sup>3</sup> )                     |
| West North Central.                       | 6              | 6                                  | 2,010          | 14,711            | 1,310              | 2,512             | 7,879           | 23,595                               | 13,531            | 37,435                          | 549                       | 5,790            | 53,472                               |
| South.....                                | 17             | 12                                 | 15,009         | 115,735           | 8,255              | 17,214            | 58,379          | 151,752                              | 144,563           | 293,119                         | 5,969                     | 3,866            | 27,107                               |
| West.....                                 | 51             | 32                                 | 61,246         | 536,536           | 26,795             | 56,558            | 194,023         | 758,992                              | 577,819           | 1,299,152                       | 54,810                    | 27,272           | 262,236                              |
| California.....                           | 43             | 26                                 | 45,800         | 419,818           | 19,745             | 41,685            | 141,211         | 567,097                              | 400,896           | 933,227                         | 47,527                    | 25,833           | 250,001                              |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                 | 1963              |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  | 1958                      |   |
|--|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|---|--------------------------------|---------------------------------|--|---------------------------|---|
|  | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted<br>(\$1,000) | Cost of materials<br>(\$1,000) | Value of shipments<br>(\$1,000) | Capital expenditures, new<br>(\$1,000) | All employees<br>(number) | Value added by manufacture, adjusted<br>(\$1,000) |
|  | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                |                                 |  |                           |   |
| INDUSTRY 3723.—AIRCRAFT PROPELLERS AND PARTS |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                   | 14                | 8                                     | 11,183            | 78,712               | 6,231              | 13,515               | 37,666             | 113,433   | 69,829                         | 190,761                         | 6,045                                  | 15,505                    | 112,301   |
| INDUSTRY 3729.—AIRCRAFT EQUIPMENT, N.E.C.    |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                   | 1,000             | 470                                   | 175,167           | 1,319,476            | 111,430            | 232,819              | 745,501            | 1,966,904   | 1,167,527                      | 3,168,607                       | 61,931                                 | 213,500                   | 1,797,203   |
| Middle Atlantic....                          | 149               | 85                                    | 24,890            | 182,774              | 12,613             | 26,942               | 77,350             | 264,354   | 149,367                        | 410,306                         | 8,804                                  | 36,025                    | 302,620   |
| New York.....                                | 90                | 50                                    | 9,362             | 61,052               | 6,585              | 13,768               | 40,221             | 93,848  | 55,618                         | 143,625                         | 2,530                                  | 23,625                    | 179,701   |
| New Jersey.....                              | 32                | 18                                    | 4,209             | 29,797               | 2,384              | 5,025                | 14,822             | 45,792  | 27,567                         | 73,955                          | 1,454                                  | ( <sup>3</sup> )          | ( <sup>3</sup> )                                  |
| Pennsylvania.....                            | 27                | 17                                    | 11,319            | 91,925               | 3,644              | 8,149                | 22,307             | 124,714   | 66,182                         | 192,726                         | 4,820                                  | ( <sup>3</sup> )          | ( <sup>3</sup> )                                  |
| East North Central.                          | 152               | 76                                    | 30,189            | 224,676              | 18,864             | 39,086               | 123,414            | 297,087   | 237,527                        | 535,110                         | 9,583                                  | 42,692                    | 337,229   |
| Illinois.....                                | 18                | 12                                    | 4,380             | 29,737               | 2,831              | 5,592                | 16,756             | 37,414  | 41,559                         | 78,681                          | 911                                    | ( <sup>3</sup> )          | ( <sup>3</sup> )                                  |
| Michigan.....                                | 61                | 26                                    | 5,371             | 42,117               | 3,317              | 6,794                | 23,306             | 58,701  | 31,812                         | 93,688                          | 2,133                                  | 5,905                     | 43,352  |
| South Atlantic.....                          | 48                | 31                                    | 15,777            | 120,342              | 8,049              | 16,118               | 50,263             | 156,393   | 86,183                         | 251,847                         | 4,417                                  | 10,159                    | 43,214  |
| Florida.....                                 | 26                | 14                                    | 1,128             | 7,087                | 848                | 1,786                | 5,233              | 10,711  | 5,507                          | 19,636                          | 546                                    | 1,450                     | 9,707   |
| West South Central.                          | 47                | 24                                    | 5,055             | 36,217               | 3,387              | 6,866                | 19,489             | 53,664  | 30,259                         | 84,060                          | 2,626                                  | 9,034                     | 70,893  |
| Oklahoma.....                                | 10                | 5                                     | 1,694             | 13,805               | 1,266              | 2,478                | 7,835              | 14,984  | 4,767                          | 20,542                          | 1,701                                  | ( <sup>3</sup> )          | ( <sup>3</sup> )                                  |
| Pacific.....                                 | 445               | 181                                   | 44,442            | 344,234              | 31,996             | 70,057               | 233,355            | 527,793   | 291,397                        | 823,031                         | 26,265                                 | 88,514                    | 797,748   |
| California.....                              | 421               | 169                                   | 41,559            | 323,680              | 30,103             | 66,034               | 221,234            | 501,115   | 268,983                        | 777,740                         | 23,638                                 | 87,130                    | 786,094   |
| All other divisions.                         | 159               | 75                                    | 54,814            | 411,233              | 36,521             | 73,750               | 241,630            | 667,613   | 372,794                        | 1,064,253                       | 10,236                                 | 27,076                    | 245,499   |
| Rhode Island.....                            | 3                 | 3                                     | 222               | 1,460                | 150                | 337                  | 867                | 3,193   | 1,139                          | 4,474                           | 47                                     | ( <sup>3</sup> )          | ( <sup>3</sup> )                                  |
| Connecticut.....                             | 39                | 18                                    | 4,991             | 36,833               | 2,945              | 6,293                | 18,067             | 45,321  | 27,183                         | 71,470                          | 2,588                                  | 1,708                     | 16,413  |
| Missouri.....                                | 17                | 7                                     | 1,154             | 7,104                | 833                | 1,782                | 4,454              | 9,321   | 6,481                          | 15,889                          | 484                                    | ( <sup>3</sup> )          | ( <sup>3</sup> )                                  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State. SIC 3721, Aircraft: New England—Massachusetts, 1 (20-99); Connecticut, 4 (10,000 and over); Middle Atlantic—New York, 7 (37,790); Pennsylvania, 6 (10,000 and over); East North Central—Ohio, 3 (12,071); Michigan, 2 (20-99); Wisconsin, 1 (20-99); West North Central—Missouri, 1 (10,000 and over); Kansas, 5 (9,348); South Atlantic—Delaware, 1 (100-249); North Carolina, 1 (500-999); Georgia, 2 (10,000 and over); Florida, 7 (1,000-2,499); East South Central—Alabama, 3 (5,000-9,999); West South Central—Oklahoma, 5 (2,500-4,999); Mountain—Wyoming, 2 (100-249); Colorado, 1 (1-19); Pacific—Washington, 7 (61,044); Oregon, 1 (1-19); California, 23 (71,250); Alaska, 1 (1-19).

SIC 3722, Aircraft Engines and Parts: New England—Maine, 3 (1,000-2,499); Vermont, 2 (500-999); Massachusetts, 8 (6,745); Rhode Island, 2 (250-499); Connecticut, 36 (41,119); Middle Atlantic—New York, 17 (5,000-9,999); New Jersey, 10 (10,000 and over); East North Central—Indiana, 12 (13,882); Michigan, 7 (2,500-4,999); Wisconsin, 2 (200-249); West North Central—Minnesota, 2 (250-499); Iowa, 1 (250-499); Missouri, 3 (1,000-2,499); South Atlantic—Maryland, 1 (500-999); Virginia, 1 (500-999); North Carolina, 2 (250-499); Georgia, 1 (20-99); Florida, 5 (5,000-9,000); East South Central—Alabama, 1 (1,000-2,499); West South Central—Louisiana, 1 (2,500-4,999); Oklahoma, 1 (1-19); Texas, 4 (1,000-2,499); Mountain—Arizona, 3 (2,500-4,999); Utah, 3 (12,072); Pacific—Washington, 2 (20-99).

SIC 3723, Aircraft Propellers and Parts: New England—Connecticut, 2 (5,000-9,999); Middle Atlantic—New York, 1 (20-99); New Jersey, 2 (1,000-2,499); Pennsylvania, 1 (100-249); East North Central—Ohio, 2 (100-249); Michigan, 1 (250-499); South Atlantic—Florida, 1 (1-19); Mountain—Colorado, 1 (1-19); Pacific—California, 3 (20-99).

SIC 3729, Aircraft Equipment, N.E.C.: New England—Maine, 2 (20-99); Vermont, 2 (1,000-2,499); Massachusetts, 17 (2,500-4,999); East North Central—Ohio, 56 (10,000 and over); Indiana, 16 (6,637); Wisconsin, 1 (20-99); West North Central—Minnesota, 8 (2,500-4,999); Nebraska, 1 (1-19); Kansas, 35 (19,290); South Atlantic—Delaware, 1 (250-499); Maryland, 8 (10,000 and over); Virginia, 3 (500-999); West Virginia, 1 (1-19); North Carolina, 2 (250-499); Georgia, 7 (233); East South Central—Kentucky, 1 (20-99); Tennessee, 3 (2,500-4,999); Alabama, 2 (100-249); Mississippi, 2 (500-999); West South Central—Arkansas, 1 (20-99); Texas, 36 (2,500-4,999); Mountain—Idaho, 1 (100-249); Colorado, 6 (10,000 and over); New Mexico, 1 (1-19); Arizona, 18 (1,000-2,499); Nevada, 1 (1-19); Pacific—Washington, 22 (1,000-2,499); Oregon, 2 (500-999).

<sup>2</sup>For industry 3721, represents value of work done rather than the value of shipments.

<sup>3</sup>This State or region was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.

TABLE 3. Detailed Statistics: 1963

| Item   | Aircraft<br>(SIC 3721) | Aircraft<br>engines<br>and parts<br>(SIC 3722) | Aircraft<br>propellers<br>and parts<br>(SIC 3723) | Aircraft<br>equipment,<br>n.e.c.<br>(SIC 3729) |
|--|------------------------|--|---|--|
| Primary product specialization ratio <sup>1</sup> .....                | .69                    | .87  | .48   | .75  |
| Coverage ratio <sup>2</sup> .....                                      | .96                    | .93  | .81   | .59  |
| Establishments, total.....number..                                     | 100                    | 232  | 14  | 1,000  |
| With 1 to 19 employees.....do....                                      | 35                     | 60   | 6   | 530  |
| With 20 to 99 employees.....do....                                     | 19                     | 71   | 2   | 271  |
| With 100 employees or more.....do....                                  | 46                     | 101  | 6   | 199  |
| Proprietors and working partners.....do....                            | 13                     | 35   | 2   | 369  |
| All employees (average for the year).....do....                        | 302,201                | 190,834  | 11,183  | 175,167  |
| Payroll (all employees), total for year.....\$1,000..                  | 2,369,416              | 1,486,081                                      | 78,712  | 1,319,476                                      |
| Production workers:  |                        |  |   |  |
| Average for the year.....number..                                      | 166,744                | 105,890  | 6,231   | 111,430  |
| March.....do....   | 167,370                | 100,507  | 6,654   | 112,327  |
| May.....do....   | 165,736                | 100,273  | 6,625   | 110,828  |
| August.....do....  | 163,552                | 120,046  | 6,040   | 110,186  |
| November.....do....  | 170,313                | 102,732  | 5,580   | 112,361  |
| Man-hours.....1,000..  | 342,120                | 222,000  | 13,515  | 232,819  |
| January-March.....do....   | 89,166                 | 56,336   | 3,612   | 59,101   |
| April-June.....do....  | 85,732                 | 56,023   | 3,648   | 58,293   |
| July-September.....do....  | 81,660                 | 52,817   | 3,162   | 56,918   |
| October-December.....do....  | 85,574                 | 56,824   | 3,094   | 58,507   |
| Wages.....\$1,000..  | 1,097,103              | 705,727  | 37,666  | 745,501  |
| Cost of materials, etc., total.....do....                              | 2,773,836              | 1,876,762                                      | 69,829  | 1,167,527                                      |
| Materials, parts, containers, and supplies consumed.....do....         | 2,458,694              | 1,386,229                                      | 64,501  | 996,750  |
| Cost of resales.....do....   | 176,045                | 96,088   | 78  | 35,098   |
| Fuels consumed.....do....  | 6,950                  | 7,244  | 368   | 6,989  |
| Electric energy:   |                        |  |   |  |
| Purchased:   |                        |  |   |  |
| Quantity.....million kw.-hrs..   | 2,361                  | 2,174  | 107   | 1,533  |
| Cost.....\$1,000..   | 21,928                 | 23,391   | 1,301   | 18,198   |
| Generated less sold.....million kw.-hrs..                              | (D)                    | (D)  | -   | 20   |
| Contract work.....\$1,000..  | 110,219                | 363,810  | 3,581   | 110,492  |
| Value of shipments (including resales), total <sup>3</sup> .....do.... | 6,316,531              | 4,100,520                                      | 190,761   | 3,168,607                                      |
| Value of resales.....do....  | 229,852                | 140,420  | 91  | 44,377   |
| Value added by manufacture, adjusted <sup>4</sup> .....do....          | 3,542,695              | 2,244,317                                      | 113,433   | 1,966,904                                      |
| Manufacturers' inventories:  |                        |  |   |  |
| Beginning of year, total.....do....                                    | 2,026,900              | 614,502  | 41,580  | 570,432  |
| Finished products.....do....   | 91,157                 | 110,580  | 14,866  | 43,429   |
| Work-in-process.....do....   | 1,589,334              | 332,643  | 19,801  | 428,868  |
| Materials, supplies, fuel, etc.....do....                              | 346,409                | 171,279  | 6,913   | 98,135   |
| End of year, total.....do....  | 2,437,713              | 607,359  | 33,042  | 525,313  |
| Finished products.....do....   | 58,627                 | 150,408  | 13,408  | 33,379   |
| Work-in-process.....do....   | 1,944,544              | 313,374  | 13,760  | 404,742  |
| Materials, supplies, fuel, etc.....do....                              | 434,542                | 143,577  | 5,874   | 87,192   |
| Expenditures for plant and equipment, total.....do....                 | 124,043                | 116,651  | 6,242   | 71,960   |
| New, total.....do....  | 114,658                | 111,529  | 6,045   | 61,931   |
| New structures and additions to plant.....do....                       | 40,662                 | 45,506   | 401   | 15,803   |
| New machinery and equipment.....do....                                 | 73,996                 | 66,023   | 5,644   | 46,128   |
| Used plant and equipment.....do....                                    | 9,385                  | 5,122  | 197   | 10,029   |
| Selected operating ratios:   |                        |  |   |  |
| Payroll/Total employment.....  | 7,841                  | 7,787  | 7,039   | 7,532  |
| Production workers/Total employment.....                               | .55                    | .55  | .56   | .64  |
| Man-hours/Production workers.....                                      | 2,052                  | 2,097  | 2,169   | 2,089  |
| Production worker wages/Man-hours.....                                 | 3.21                   | 3.18   | 2.79  | 3.20   |
| Cost of materials and payrolls/Total value of shipments.....           | .79                    | .82  | .78   | .78  |
| Cost of materials/Total value of shipments.....                        | .44                    | .46  | .37   | .37  |
| Adjusted value added/Total employment.....                             | 11,723                 | 11,761   | 10,143  | 11,229   |
| Salaries and wages/Adjusted value added.....                           | .67                    | .66  | .69   | .67  |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

<sup>3</sup>For industry 3721, represents value of work done rather than value of shipments.

<sup>4</sup>See table 1, footnote 1.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item   | Establishments, total | Establishments with an average of- |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3721.—AIRCRAFT                      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                  | 100                   | 16                                 | 12               | 7                  | 10                 | 9                  | 7                    | 3                    | 6                    | 9                        | 21                       |
| All employees:                               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                             | 302,201               | 31                                 | <u>168</u>       | (D)                | <u>975</u>         | (D)                | 1,079                | 1,107                | 4,464                | 16,367                   | 278,010                  |
| Payroll.....\$1,000..                        | 2,369,416             | 170                                | <u>906</u>       | (D)                | <u>5,014</u>       | (D)                | 5,805                | 5,243                | 28,593               | 106,452                  | 2,217,233                |
| Value added, adjusted.....do....             | 3,542,695             | 192                                | <u>1,444</u>     | (D)                | <u>5,550</u>       | (D)                | 5,688                | 9,821                | 38,168               | 138,349                  | 3,343,483                |
| Value of shipments <sup>1</sup> .....do....  | 6,316,531             | 290                                | <u>2,302</u>     | (D)                | <u>11,307</u>      | (D)                | 10,079               | 17,545               | 59,873               | 261,174                  | 5,953,961                |
| Capital expenditures, new...do....           | 114,658               | 6                                  | <u>32</u>        | (D)                | <u>308</u>         | (D)                | 71                   | 97                   | 916                  | 4,741                    | 108,487                  |
| INDUSTRY 3722.—AIRCRAFT ENGINES AND PARTS    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                  | 232                   | 20                                 | 18               | 22                 | 35                 | 36                 | 37                   | 12                   | 20                   | 15                       | 17                       |
| All employees:                               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                             | 190,834               | 43                                 | 128              | 332                | 1,139              | 2,386              | 5,792                | 4,577                | 13,011               | 21,896                   | 141,530                  |
| Payroll.....\$1,000..                        | 1,486,081             | 260                                | 835              | 2,138              | 7,941              | 17,546             | 39,285               | 31,359               | 96,526               | 171,260                  | 1,118,931                |
| Value added, adjusted.....do....             | 2,244,317             | 399                                | 1,154            | 3,406              | 11,088             | 25,709             | 63,871               | 43,770               | 166,277              | 263,061                  | 1,663,582                |
| Value of shipments.....do....                | 4,100,520             | 618                                | 1,679            | 5,411              | 17,651             | 40,829             | 100,290              | 75,912               | 262,939              | 408,854                  | 3,186,337                |
| Capital expenditures, new...do....           | 111,529               | <u>53</u>                          | (D)              | 126                | 642                | 1,392              | 2,073                | 2,265                | 7,005                | 21,927                   | 76,046                   |
| INDUSTRY 3723.—AIRCRAFT PROPELLERS AND PARTS |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                  | 14                    | 2                                  | 2                | 2                  | 2                  | -                  | 3                    | 1                    | -                    | 1                        | 1                        |
| All employees:                               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                             | 11,183                | <u>11,183</u>                      | (D)              | (D)                | (D)                | -                  | (D)                  | (D)                  | -                    | (D)                      | (D)                      |
| Payroll.....\$1,000..                        | 78,712                | <u>78,712</u>                      | (D)              | (D)                | (D)                | -                  | (D)                  | (D)                  | -                    | (D)                      | (D)                      |
| Value added, adjusted.....do....             | 113,433               | <u>113,433</u>                     | (D)              | (D)                | (D)                | -                  | (D)                  | (D)                  | -                    | (D)                      | (D)                      |
| Value of shipments.....do....                | 190,761               | <u>190,761</u>                     | (D)              | (D)                | (D)                | -                  | (D)                  | (D)                  | -                    | (D)                      | (D)                      |
| Capital expenditures, new...do....           | 6,045                 | <u>6,045</u>                       | (D)              | (D)                | (D)                | -                  | (D)                  | (D)                  | -                    | (D)                      | (D)                      |
| INDUSTRY 3729.—AIRCRAFT EQUIPMENT, N.E.C.    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                  | 1,000                 | 245                                | 117              | 168                | 168                | 103                | 88                   | 47                   | 29                   | 25                       | 10                       |
| All employees:                               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                             | 175,167               | 433                                | 827              | 2,377              | 5,312              | 6,979              | 14,010               | 16,545               | 19,616               | 39,179                   | 69,889                   |
| Payroll.....\$1,000..                        | 1,319,476             | 4,074                              | 4,897            | 15,353             | 34,306             | 45,045             | 95,511               | 112,264              | 142,887              | 302,207                  | 562,932                  |
| Value added, adjusted.....do....             | 1,966,904             | 5,860                              | 7,949            | 25,161             | 51,877             | 65,743             | 139,025              | 165,299              | 213,578              | 429,373                  | 863,039                  |
| Value of shipments.....do....                | 3,168,607             | 9,780                              | 12,522           | 41,935             | 86,687             | 116,490            | 242,883              | 273,980              | 354,402              | 688,636                  | 1,341,292                |
| Capital expenditures, new...do....           | 61,931                | 493                                | 471              | 1,267              | <u>7,252</u>       | (D)                | 5,624                | 5,462                | 9,317                | 16,754                   | 15,291                   |

-Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left. n.e.c. Not elsewhere classified.

<sup>1</sup>For industry 3721, represents value of work done rather than value of shipments.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                 | Value of shipments <sup>1</sup> |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|---------------------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total                           | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | (\$1,000)                       | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |  | A                               | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3721      | Aircraft.....1963..                      | 6,316,531                       | 4,164,135        | 1,898,380          | 254,016                | 69                                   | 4,330,502                          | 4,164,135             | 166,367                  | 96                            |
|           | .....1958..                              | 6,438,067                       | 4,988,297        | 1,148,011          | 301,759                | 81                                   | 5,362,680                          | 4,988,297             | 374,383                  | 99                            |
| 3722      | Aircraft engines and parts.....1963..    | 4,100,520                       | 3,366,568        | 495,477            | 238,475                | 87                                   | 3,609,691                          | 3,366,568             | 243,123                  | 93                            |
|           | .....1958..                              | 3,512,073                       | 3,099,271        | 206,503            | 206,299                | 94                                   | 3,325,935                          | 3,099,271             | 226,664                  | 93                            |
| 3723      | Aircraft propellers and parts.....1963.. | 190,761                         | 88,348           | 94,880             | 7,533                  | 48                                   | 108,991                            | 88,348                | 20,643                   | 81                            |
|           | .....1958..                              | 235,270                         | 158,030          | 53,771             | 23,469                 | 75                                   | 166,952                            | 158,030               | 8,922                    | 95                            |
| 3729      | Aircraft equipment, n.e.c.....1963..     | 3,168,607                       | 2,254,298        | 760,975            | 153,334                | 75                                   | 3,791,952                          | 2,254,298             | 1,537,654                | 59                            |
|           | .....1958..                              | 3,031,089                       | 2,365,826        | 461,067            | 204,196                | 84                                   | 3,750,460                          | 2,365,826             | 1,384,634                | 63                            |

Note: See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>For industry 3721, represents value of work done rather than value of shipments.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars except for ranges (shown in parentheses) which are expressed in millions of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous

receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code  | Class of products and miscellaneous receipts   | All industries         | Aircraft (SIC 3721)    | Other industries     |
|---|--|------------------------|------------------------|----------------------|
| <b>AIRCRAFT INDUSTRY</b>  |  |                        |                        |                      |
|   | Total shipments and receipts of the industry.....  | (X)                    | <sup>1</sup> 6,316,531 | (X)                  |
|   | Primary products.....  | <sup>2</sup> 4,330,502 | 24,164,135             | <sup>2</sup> 166,367 |
| 37211   | Complete aircraft, military type.....  | 2,470,261              | 2,467,419              | 2,842                |
| 37212   | Complete aircraft, personal and utility type.....  | 157,797                | 156,767                | 1,030                |
| 37213   | Complete aircraft, commercial transport (airline passenger and cargo service).....                 | 561,124                | 559,776                | 1,348                |
| 37214   | Modifications, conversions, and overhaul of previously accepted aircraft.....                      | 465,455                | 355,472                | 109,983              |
| 37216   | Other aeronautical services for aircraft.....  | 668,386                | 617,371                | 51,015               |
| 37210   | Aircraft, n.e.c.....   | 7,479                  | 7,330                  | 149                  |
|   | Secondary products.....  | (X)                    | 1,898,380              | (X)                  |
| 19251   | Guided missiles, complete.....   | (X)                    | 372,326                | (X)                  |
| 37291   | Other aircraft parts and auxiliary equipment.....  | (X)                    | 713,850                | (X)                  |
| 37292   | Guided missile components and subassemblies, n.e.c.....  | (X)                    | 115,775                | (X)                  |
| 37294   | Research and development on missile parts and components, n.e.c.....                               | (X)                    | 45,202                 | (X)                  |
|   | All other secondary products.....  | (X)                    | 651,227                | (X)                  |
| 19253   | Research and development on guided missiles (complete).....  | (X)                    | (over 2)               | (X)                  |
| 19255   | All other services on complete missiles and space vehicles.....                                    | (X)                    | (200-500)              | (X)                  |
| 19990   | Ordnance and accessories, n.e.c.....   | (X)                    | (2-5)                  | (X)                  |
| 27313   | Technical, scientific, and professional books.....   | (X)                    | (over 2)               | (X)                  |
| 36624   | Electronic navigational aids (except missile-borne and space vehicle basin equipment)....          | (X)                    | (over 2)               | (X)                  |
| 36625   | Electronic search and detection apparatus, including radar, infrared and sonar.....                | (X)                    | (50-100)               | (X)                  |
| 36626   | Electronic military, industrial, and commercial equipment, n.e.c.....                              | (X)                    | (over 2)               | (X)                  |
| 36628   | Missile-borne and space vehicle-borne navigation and guidance systems and equipment.....           | (X)                    | (over 2)               | (X)                  |
| 37225   | Complete missile or space vehicle engines and/or propulsion units.....                             | (X)                    | (over 2)               | (X)                  |
| 37226   | Research and development on complete missile or space vehicle engines and/or propulsion units..... | (X)                    | (over 2)               | (X)                  |
| 37293   | Research and development on aircraft parts.....  | (X)                    | (10-20)                | (X)                  |
| 37312   | Self-propelled U.S. military ships, new construction.....  | (X)                    | (over 2)               | (X)                  |
| 38111   | Aircraft flight, nautical, and navigational instruments and automatic pilots.....                  | (X)                    | (5-10)                 | (X)                  |
|   | Miscellaneous receipts.....  | (X)                    | 254,016                | (X)                  |
|   | Contract work.....   | (X)                    | 2,841                  | (X)                  |
|   | Resales.....   | (X)                    | 229,852                | (X)                  |
|   | Other miscellaneous receipts.....  | (X)                    | 21,323                 | (X)                  |
| Listing of other industries with over \$2 million shipments of the primary product class: |  |                        |                        |                      |
| 37214   | 1925 Complete guided missiles.....   | (X)                    | (X)                    | (over 2)             |
|   | 3662 Radio, TV communications equipment.....   | (X)                    | (X)                    | (over 2)             |
|   | 3729 Aircraft equipment, n.e.c.....  | (X)                    | (X)                    | (over 2)             |
| 37216   | 1925 Complete guided missiles.....   | (X)                    | (X)                    | 7,880                |
|   | 3662 Radio, TV communications equipment.....   | (X)                    | (X)                    | (over 2)             |
|   | 3722 Aircraft engines and parts.....   | (X)                    | (X)                    | (over 2)             |
|   | 3729 Aircraft equipment, n.e.c.....  | (X)                    | (X)                    | (over 2)             |
| <b>AIRCRAFT ENGINES AND PARTS INDUSTRY</b>  |  |                        |                        |                      |
|   | Total shipments and receipts of the industry.....  | (X)                    | 4,100,520              | (X)                  |
|   | Primary products.....  | 3,609,691              | 3,366,568              | 243,123              |
| 37221   | Aircraft engines for U.S. military customers.....  | 644,417                | 639,515                | 4,902                |
| 37222   | Aircraft engines for other than U. S. military customers.....                                      | 150,033                | 513,595                | 21,777               |
| 37223   | Research and development on aircraft engines.....  | 385,339                |                        |                      |
| 37224   | Aircraft engine parts and accessories.....   | 932,093                | 794,257                | 137,836              |
| 37225   | Complete missile or space vehicle engines and/or propulsion units.....                             | 582,631                | 1,263,098              | 25,164               |
| 37226   | Research and development on complete missile or space vehicle engines and/or propulsion units..... | 696,780                |                        |                      |
| 37220   | Aircraft engines and parts, n.s.k.....   | 8,851                  | 61,049                 | 672                  |
| 37227   | All other services on complete missile or space vehicle engines and/or propulsion units....        | 61,721                 |                        |                      |
| 37228   | Missile and space vehicle engine and/or propulsion unit parts or accessories.....                  | 147,826                |                        |                      |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code                               | Class of products and miscellaneous receipts  | All industries | Aircraft engines and parts (SIC 3722) | Other industries |
|--|---|----------------|---------------------------------------|------------------|
| AIRCRAFT ENGINES AND PARTS INDUSTRY--Continued |   |                |                                       |                  |
|  | Secondary products.....   | (X)            | 495,477                               | (X)              |
| 19990  | Ordnance and accessories, n.e.c.....  | (X)            | 5,390                                 | (X)              |
| 35197  | Parts and accessories for internal combustion engines.....  | (X)            | 10,885                                | (X)              |
| 35441  | Special dies and tools, die sets, jigs and fixtures.....  | (X)            | 3,566                                 | (X)              |
| 37291  | Other aircraft parts and auxiliary equipment.....   | (X)            | 34,818                                | (X)              |
| 37292  | Guided missile components and subassemblies, n.e.c.....   | (X)            | 128,269                               | (X)              |
| 37294  | Research and development on missile parts and components, n.e.c.....  | (X)            | 23,924                                | (X)              |
|  | All other secondary products.....   | (X)            | 288,625                               | (X)              |
| 19251  | Guided missiles, complete.....  | (X)            | (over 2)                              | (X)              |
| 19310  | Tanks and tank components.....  | (X)            | (20-50)                               | (X)              |
| 19511  | Small arms, 30 mm and under (1.18 inches and under).....  | (X)            | (10-20)                               | (X)              |
| 19512  |   |                |                                       |                  |
| 34613  | Job stampings, automotive.....  | (X)            | (2-5)                                 | (X)              |
| 34944  | Other metal valves and fittings, except plumbers' brass goods and fittings.....   | (X)            | (20-50)                               | (X)              |
| 35111  | Steam, gas, and hydraulic turbine generator set units and parts.....  | (X)            | (over 2)                              | (X)              |
| 35112  | Steam, gas, and hydraulic turbines and parts; steam engines and parts.....  | (X)            | (20-50)                               | (X)              |
| 35196  | Other internal combustion engines (including converted engines and tank engines).....   | (X)            | (10-20)                               | (X)              |
| 35661  | Plain bearings.....   | (X)            | (5-10)                                | (X)              |
| 35663  | Other mechanical power transmission equipment.....  | (X)            | (over 2)                              | (X)              |
| 36621  | Commercial, industrial, and military electronic communication equipment.....  | (X)            | (over 2)                              | (X)              |
| 36625  | Electronic search and detection apparatus, including radar, infrared and sonar.....   | (X)            | (10-20)                               | (X)              |
| 36628  | Missile-borne and space vehicle-borne navigation and guidance systems and equipment.....  | (X)            | (2-5)                                 | (X)              |
| 37175  | Parts and accessories for passenger cars, trucks and busses, shipped to motor vehicle manufacturers.....  | (X)            | (5-10)                                | (X)              |
| 37216  | Other aeronautical services for aircraft.....   | (X)            | (over 2)                              | (X)              |
| 37230  | Aircraft propellers and parts.....  | (X)            | (over 2)                              | (X)              |
| 37293  | Research and development on aircraft parts.....   | (X)            | (2-5)                                 | (X)              |
| 37413  | Parts for locomotives, for sale separately, and rebuilt locomotives.....  | (X)            | (over 2)                              | (X)              |
| 37423  | Street cars and parts and accessories for railroad and street cars; rebuilt passenger and freight train cars.....   | (X)            | (over 2)                              | (X)              |
|  | Miscellaneous receipts.....   | (X)            | 238,475                               | (X)              |
|  | Receipts for work done for others on their own materials (contract work).....   | (X)            | 27,004                                | (X)              |
|  | Sales of scrap and refuse.....  | (X)            | 3,719                                 | (X)              |
|  | Receipts for installation.....  | (X)            | 18,131                                | (X)              |
|  | Receipts for research and development work not attributable to aircraft, aircraft engines, aircraft parts, missile systems, space vehicle systems, complete missile or space vehicle engines and/or propulsion units, and/or, missile and space vehicle components..... | (X)            | 25,456                                | (X)              |
|  | Receipts for repair work.....   | (X)            | 5,779                                 | (X)              |
|  | Resales.....  | (X)            | 140,420                               | (X)              |
|  | Other miscellaneous receipts.....   | (X)            | 17,966                                | (X)              |
|  | Listing of other industries with over \$2 million shipments of the primary product classes:   |                |                                       |                  |
| 37222 and 37223                                | 1929 Ammunition, n.e.c.....   | (X)            | (X)                                   | (over 2)         |
| 37224  | 3519 Internal combustion engines.....   | (X)            | (X)                                   | (over 2)         |
|  | 1925 Complete guided missiles.....  | (X)            | (X)                                   | (over 2)         |
|  | 3356 Rolling and drawing, n.e.c.....  | (X)            | (X)                                   | (10-20)          |
|  | 3461 Metal stampings.....   | (X)            | (X)                                   | 5-10             |
|  | 3494 Valves and pipe fittings.....  | (X)            | (X)                                   | 12,729           |
|  | 3511 Steam engines and turbines.....  | (X)            | (X)                                   | (over 2)         |
|  | 3519 Internal combustion engines.....   | (X)            | (X)                                   | (over 2)         |
|  | 3621 Motors and generators.....   | (X)            | (X)                                   | (over 2)         |
|  | 3662 Radio, TV communications equipment.....  | (X)            | (X)                                   | (over 2)         |
|  | 3679 Electronic components, n.e.c.....  | (X)            | (X)                                   | (over 2)         |
|  | 3717 Motor vehicles and parts.....  | (X)            | (X)                                   | 7,742            |
|  | 3723 Aircraft propellers and parts.....   | (X)            | (X)                                   | (20-50)          |
|  | 3729 Aircraft equipment, n.e.c.....   | (X)            | (X)                                   | 17,902           |
|  | 3821 Mechanical measuring devices.....  | (X)            | (X)                                   | (over 2)         |
| 37225, 37226 and 37220                         | 2892 Explosives.....  | (X)            | (X)                                   | (over 2)         |
| 37228  | 3721 Aircraft.....  | (X)            | (X)                                   | (over 2)         |
|  | 3717 Motor vehicles and parts.....  | (X)            | (X)                                   | 4,860            |
|  | 3729 Aircraft equipment, n.e.c.....   | (X)            | (X)                                   | (over 2)         |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code  | Class of products and miscellaneous receipts   | All industries | Aircraft propellers and parts (SIC 3723) | Other industries |
|---|--|----------------|--|------------------|
| AIRCRAFT PROPELLERS AND PARTS INDUSTRY  |  |                |  |                  |
|   | Total shipments and receipts of the industry.....  | (X)            | 190,761                                  | (X)              |
| 37230   | Aircraft propellers and parts.....   | 108,991        | 88,348                                   | 20,643           |
|   | Secondary products.....  | (X)            | 94,880                                   | (X)              |
| 37224   | Aircraft engine parts and accessories.....   | (X)            | (20-50)                                  | (X)              |
| 35857   | Other refrigeration and air-conditioning equipment, including soda fountain and beer dispensing equipment.....       | (X)            | (over 2)                                 | (X)              |
| 36231   | Arc welding machines, components and accessories, except electrodes.....   | (X)            | (over 2)                                 | (X)              |
| 37291   | Other aircraft parts and auxiliary equipment.....  | (X)            | (over 2)                                 | (X)              |
| 37293   | Research and development on aircraft parts.....  | (X)            | (over 2)                                 | (X)              |
|   | Miscellaneous receipts.....  | (X)            | 7,533                                    | (X)              |
|   | Resales.....   | (X)            | 91                                       | (X)              |
|   | Other miscellaneous receipts.....  | (X)            | 7,442                                    | (X)              |
| Listing of other industries with over \$2 million shipments of aircraft propellers and parts: |  |                |  |                  |
| 37230   | 3729 Aircraft equipment, n.e.c.....  | (X)            | (X)                                      | (5-10)           |
|   | 3722 Aircraft engines and parts.....   | (X)            | (X)                                      | (over 2)         |
| AIRCRAFT EQUIPMENT, N.E.C., INDUSTRY  |  |                |  |                  |
|   | Total shipments and receipts of the industry.....  | (X)            | 3,168,607                                | (X)              |
|   | Primary products.....  | 3,791,952      | 2,254,298                                | 1,537,654        |
| 37291   | Other aircraft parts and auxiliary equipment.....  | 2,215,290      | 1,254,471                                | 960,819          |
| 37292   | Guided missile components and subassemblies, n.e.c.....  | 1,009,265      | 583,223                                  | 426,042          |
| 37293   | Research and development on aircraft parts.....  | 74,541         | 15,464                                   | 59,077           |
| 37294   | Research and development on missile parts and components, n.e.c.....   | 420,362        | 329,001                                  | 91,361           |
| 37290   | Aircraft equipment, n.e.c., n.s.k.....   | 72,494         | 72,139                                   | 355              |
|   | Secondary products.....  | (X)            | 760,975                                  | (X)              |
| 19253   | Research and development on guided missiles (complete).....  | (X)            | 107,949                                  | (X)              |
| 19255   | All other services on complete missiles and space vehicles.....  | (X)            | 5,864                                    | (X)              |
| 19293   | Ammunition, n.e.c.....   | (X)            | 2,315                                    | (X)              |
| 19990   | Ordnance and accessories, n.e.c.....   | (X)            | 7,227                                    | (X)              |
| 34944   | Other metal valves and fittings except plumbers brass goods and fittings.....  | (X)            | 2,990                                    | (X)              |
| 34990   | Fabricated metal products, n.e.c.....  | (X)            | 6,606                                    | (X)              |
| 35441   | Special dies and tools, die sets, jigs, and fixtures.....  | (X)            | 2,688                                    | (X)              |
| 35690   | General industrial machinery, n.e.c.....   | (X)            | 2,388                                    | (X)              |
| 35712   | Computing and accounting machines, including cash registers.....   | (X)            | 3,985                                    | (X)              |
| 35990   | Carburetors, pistons, and other machine shop products.....   | (X)            | 13,488                                   | (X)              |
| 36621   | Commercial, industrial, and military electronic communication equipment.....   | (X)            | 2,802                                    | (X)              |
| 36625   | Electronic search and detection apparatus, including radar, infrared, and sonar.....                                 | (X)            | 16,834                                   | (X)              |
| 36626   | Electronic, military, industrial, and commercial equipment, n.e.c.....   | (X)            | 9,649                                    | (X)              |
| 36795   | Other electronic components and accessories, n.e.c., including parts for electron tubes (except glass blanks).....   | (X)            | 13,256                                   | (X)              |
| 37175   | Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufacturers.....            | (X)            | 5,577                                    | (X)              |
| 37224   | Aircraft engine parts and accessories.....   | (X)            | 17,902                                   | (X)              |
| 38111   | Aircraft flight, nautical, and navigational instruments and automatic pilots.....                                    | (X)            | 5,575                                    | (X)              |
|   | All other secondary products.....  | (X)            | 533,880                                  | (X)              |
| 19110   | Guns, howitzers, mortars, and related equipment over 30 mm (or over 1.18 inches).....                                | (X)            | (100-200)                                | (X)              |
| 19310   | Tanks and tank components.....   | (X)            | (5-10)                                   | (X)              |
| 19511   | Machine guns, 30 mm and under (or 1.18 inches and under).....  | (X)            | (over 2)                                 | (X)              |
| 30791   | Unsupported plastics film, sheets, sheeting, rods, tubes, and other stock shapes from purchased resin materials..... | (X)            | (5-10)                                   | (X)              |
| 30795   | Industrial plastics products.....  | (X)            | (over 2)                                 | (X)              |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code                                | Class of products and miscellaneous receipts   | All industries | Aircraft equipment, n.e.c. (SIC 3729) | Other industries |
|---|--|----------------|---------------------------------------|------------------|
| AIRCRAFT EQUIPMENT, N.E.C., INDUSTRY--Continued |  |                |                                       |                  |
| Secondary products--Continued                   |  |                |                                       |                  |
| All other secondary products--Continued         |  |                |                                       |                  |
| 30796   | Construction plastics products.....  | (X)            | (over 2)                              | (X)              |
| 34492   | Prefabricated and portable metal buildings and parts.....  | (X)            | (over 2)                              | (X)              |
| 34913   | All other metal barrels, including beer barrels and fluid milk shipping containers.....  | (X)            | (over 2)                              | (X)              |
| 34940   | Valves and pipe fittings, n.s.k.....   | (X)            | (over 2)                              | (X)              |
| 35112   | Steam, gas, and hydraulic turbine and parts, steam engines and parts.....  | (X)            | (5-10)                                | (X)              |
| 35317   | Integral tractor-shovel loaders (wheel and track laying types), including parts.....   | (X)            | (over 2)                              | (X)              |
| 35612   | Hydraulic fluid power pumps and motors.....  | (X)            | (over 2)                              | (X)              |
| 35616   | Parts and attachments for pumps, air and gas compressors, and pumping equipment.....   | (X)            | (5-10)                                | (X)              |
| 35662   | Speed changers, industrial high speed drives, and gears.....   | (X)            | (2-5)                                 | (X)              |
| 35851   | Heat transfer equipment.....   | (X)            | (over 2)                              | (X)              |
| 35857   | Other refrigeration and air-conditioning equipment, including soda fountain and beer dispensing equipment.....   | (X)            | (2-5)                                 | (X)              |
| 36311   | Electric household ranges and ovens and surface cooking unit equipment and parts (except small appliances).....  | (X)            | (2-5)                                 | (X)              |
| 36331   | Household mechanical washing machines, dryers, and washer-dryer combinations.....  | (X)            | (over 2)                              | (X)              |
| 36621   | Commercial, industrial, and military electronic communication equipment.....   | (X)            | (2-5)                                 | (X)              |
| 36623   | Intercommunication equipment (except telephone and telegraph) and electric alarm and signal systems and devices.....   | (X)            | (2-5)                                 | (X)              |
| 36624   | Electronical navigational aids (except missile-borne and space vehicle basin equipment).....   | (X)            | (2-5)                                 | (X)              |
| 36628   | Missile-borne and space vehicle-borne navigation and guidance systems and equipment.....   | (X)            | (10-20)                               | (X)              |
| 37176   | Parts and accessories for passenger cars, trucks, and busses, shipped to other than motor vehicle manufacturers.....   | (X)            | (2-5)                                 | (X)              |
| 37214   | Modifications, conversions and overhaul of previously accepted aircraft.....   | (X)            | (over 2)                              | (X)              |
| 37216   | Other aeronautical services for aircraft.....  | (X)            | (over 2)                              | (X)              |
| 37228   | Missile and space vehicle engine and/or propulsion unit parts or accessories.....  | (X)            | (over 2)                              | (X)              |
| 37230   | Aircraft propellers and parts.....   | (X)            | (5-10)                                | (X)              |
| 38112   | Laboratory and scientific instruments.....   | (X)            | (20-50)                               | (X)              |
| 38311   | Optical instruments and lenses, except sighting and fire-control equipment.....  | (X)            | (2-5)                                 | (X)              |
| 39991   | Chemical fire extinguishing equipment and parts.....   | (X)            | (over 2)                              | (X)              |
|   | Miscellaneous receipts.....  | (X)            | 153,334                               | (X)              |
|   | Contract work.....   | (X)            | 57,564                                | (X)              |
|   | Resales.....   | (X)            | 44,377                                | (X)              |
|   | Sales of scrap and refuse.....   | (X)            | 6,150                                 | (X)              |
|   | Receipts for repair work.....  | (X)            | 13,394                                | (X)              |
|   | Receipts for installation.....   | (X)            | 4,472                                 | (X)              |
|   | Receipts for research and development work not attributable to aircraft, aircraft engines, aircraft parts, missile systems, space vehicle systems, complete missile or space vehicle engines and/or propulsion units, and/or missile and space vehicle components..... | (X)            | 22,597                                | (X)              |
|   | Other miscellaneous receipts.....  | (X)            | 4,780                                 | (X)              |
|   | Listing of other industries with over \$2 million shipments of the primary product classes:  |                |                                       |                  |
| 37291   | 1925 Complete guided missiles.....   | (X)            | (X)                                   | (over 2)         |
|   | 3544 Special dies and tools.....   | (X)            | (X)                                   | 2,716            |
|   | 3561 Pumps and compressors.....  | (X)            | (X)                                   | 3,732            |
|   | 3566 Power transmission equipment.....   | (X)            | (X)                                   | 2,847            |
|   | 3599 Miscellaneous machinery.....  | (X)            | (X)                                   | 3,414            |
|   | 3662 Radio, TV communication equipment.....  | (X)            | (X)                                   | 35,012           |
|   | 3717 Motor vehicles and parts.....   | (X)            | (X)                                   | 4,638            |
|   | 3721 Aircraft.....   | (X)            | (X)                                   | 713,850          |
|   | 3722 Aircraft engines and parts.....   | (X)            | (X)                                   | 34,818           |
|   | 1929 Ammunition, n.e.c.....  | (X)            | (X)                                   | (over 2)         |
|   | 1941 Sighting and fire control equipment.....  | (X)            | (X)                                   | (over 2)         |
|   | 3069 Rubber products, n.e.c.....   | (X)            | (X)                                   | (5-10)           |
|   | 3293 Gaskets and insulations.....  | (X)            | (X)                                   | (over 2)         |
|   | 3356 Rolling and drawing, n.e.c.....   | (X)            | (X)                                   | (over 2)         |
|   | 3511 Steam engines and turbines.....   | (X)            | (X)                                   | (over 2)         |
|   | 3548 Metalworking machinery, n.e.c.....  | (X)            | (X)                                   | (5-10)           |
|   | 3621 Motors and generators.....  | (X)            | (X)                                   | (5-10)           |
|   | 3723 Aircraft propellers and parts.....  | (X)            | (X)                                   | (over 2)         |
|   | 3742 Railroad and street cars.....   | (X)            | (X)                                   | (5-10)           |
|   | 3949 Sporting and athletic goods.....  | (X)            | (X)                                   | (over 2)         |
| 37292   | 1925 Complete guided missiles.....   | (X)            | (X)                                   | 23,099           |
|   | 1929 Ammunition, n.e.c.....  | (X)            | (X)                                   | 57,318           |
|   | 3662 Radio, TV communications equipment.....   | (X)            | (X)                                   | 37,326           |
|   | 3721 Aircraft.....   | (X)            | (X)                                   | 115,775          |
|   | 3722 Aircraft engines and parts.....   | (X)            | (X)                                   | 128,269          |
|   | 1931 Tanks and tank components.....  | (X)            | (X)                                   | (over 2)         |
|   | 1941 Sighting and fire control equipment.....  | (X)            | (X)                                   | (over 2)         |
|   | 2892 Explosives.....   | (X)            | (X)                                   | (2-5)            |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code  | Class of products and miscellaneous receipts | All industries | Aircraft equipment, n.e.c. (SIC 3729) | Other industries |
|---|--|----------------|---------------------------------------|------------------|
| AIRCRAFT EQUIPMENT, N.E.C., INDUSTRY—Continued  |  |                |                                       |                  |
| Listing of other industries with over \$2 million shipments of the primary product class:—Continued |  |                |                                       |                  |
|   | 3069 Rubber products, n.e.c.....             | (X)            | (X)                                   | (over 2)         |
|   | 3356 Rolling and drawing, n.e.c.....         | (X)            | (X)                                   | (over 2)         |
|   | 3443 Boiler shop products.....               | (X)            | (X)                                   | (2-5)            |
|   | 3533 Oil field machinery.....                | (X)            | (X)                                   | (over 2)         |
|   | 3536 Hoists, cranes, and monorails.....      | (X)            | (X)                                   | (over 2)         |
|   | 3559 Special industry machines, n.e.c.....   | (X)            | (X)                                   | (2-5)            |
|   | 3571 Computing and related machines.....     | (X)            | (X)                                   | (2-5)            |
|   | 3634 Electric housewares and fans.....       | (X)            | (X)                                   | (2-5)            |
|   | 3871 Watches and clocks.....                 | (X)            | (X)                                   | (over 2)         |
| 37293   | 3621 Motors and generators.....              | (X)            | (X)                                   | (2-5)            |
|   | 3721 Aircraft.....                           | (X)            | (X)                                   | (10-20)          |
|   | 3722 Aircraft engines and parts.....         | (X)            | (X)                                   | (2-5)            |
|   | 3723 Aircraft propellers and parts.....      | (X)            | (X)                                   | (over 2)         |
| 37294   | 3662 Radio, TV communications equipment..... | (X)            | (X)                                   | 5,814            |
|   | 3721 Aircraft.....                           | (X)            | (X)                                   | 45,202           |
|   | 1925 Complete guided missiles.....           | (X)            | (X)                                   | (2-5)            |
|   | 2892 Explosives.....                         | (X)            | (X)                                   | (2-5)            |
|   | 3647 Noncurrent carrying devices.....        | (X)            | (X)                                   | (over 2)         |
|   | 3722 Aircraft engines and parts.....         | (X)            | (X)                                   | 23,924           |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.  
<sup>1</sup>Represents the value of work done for primary products of the industry and the value of shipments for secondary products.  
<sup>2</sup>Represents value of work done rather than value of shipments.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product  | Total shipments including interplant transfers |                    |                               |                       |
|--------------|--|--|--------------------|-------------------------------|-----------------------|
|              |  | 1963   |                    | 1958                          |                       |
|              |  | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000)    |
| 3721- --     | AIRCRAFT.....  | (X)  | ( <sup>1</sup> )   | (X)                           | ( <sup>1</sup> )      |
|              | Total value of work done <sup>1 2</sup> .....  | (X)  | 4,330,502          | (X)                           | 5,362,680             |
| 37211 10     | Value of work done on aircraft, military type, for United States military customers, excluding modifications, conversions, and other aeronautical services.....                                | (X)  | 2,470,261          | (X)                           | 3,501,650             |
| 37212 13     | Value of work done on aircraft, personal type, for other than United States military customers, excluding modifications, conversions, and other aeronautical services.....                     | (X)  | 157,797            | }                             | 988,237               |
| 37213 13     | Value of work done on aircraft, complete commercial transport type for other than United States military customers, excluding modifications, conversions, and other aeronautical services..... | (X)  | 561,124            |                               |                       |
| 37214 --     | Modifications, conversions, and overhaul of previously accepted aircraft.....  | (X)  | 465,455            | (X)                           | 298,800               |
| 37214 11     | For United States military customers.....  | (X)  | 430,855            | (X)                           | 286,265               |
| 37214 51     | For other than United States military customers.....   | (X)  | 34,600             | (X)                           | 12,535                |
| 37216 --     | Other aeronautical services (including research and development on aircraft).....  | (X)  | 668,386            | (X)                           | 573,993               |
| 37216 11     | For United States military customers.....  | (X)  | 620,706            | (X)                           | 519,476               |
| 37216 51     | For other than United States military customers.....   | (X)  | 47,680             | (X)                           | 54,517                |
| 37219 --     | Total value of shipments <sup>1</sup> .....  | (X)  | 2,828,003          | (X)                           | 3,755,870             |
|              | Aircraft, complete, accepted during the year:  |  |                    |                               |                       |
| 37219 10     | For United States military customers (including airplanes, balloons, helicopters, and autogiros).....  | (X)  | 2,138,951          | (X)                           | 3,255,741             |
|              | For other than United States military customers (including airplanes, balloons, helicopters, and autogiros) <sup>3</sup> .....   | 8,203  | 689,052            | 6,882                         | 500,129               |
| 37219 11     | Personal and utility type.....   | 7,927  | 175,566            | }                             | 500,129               |
| 37219 12     | Commercial transport type.....   | 276  | 513,486            |                               |                       |
| 37210 00     | Aircraft, n.s.k.....   | (X)  | 7,479              | (X)                           | -                     |
| 3722- --     | AIRCRAFT ENGINES AND ENGINE PARTS, TOTAL.....  | (X)  | 3,609,691          | (X)                           | 3,325,935             |
| 37221 10     | Aircraft engines for United States military customers.....   | 23,556   | 644,417            | }                             | 41,399,851            |
| 37222 10     | Aircraft engines for other than United States military customers <sup>5</sup> .....  | 11,906   | 150,033            |                               |                       |
| 37224 --     | Aircraft engine parts and accessories.....   | (X)  | 932,093            | (X)                           | 61,261,401            |
| 37224 13     | For United States military customers.....  | (X)  | 668,813            | }                             | 61,261,401            |
| 37224 53     | For other than United States military customers.....   | (X)  | 262,947            |                               |                       |
| 37224 00     | Aircraft engine parts and accessories, n.s.k.....  | (X)  | 333                |                               |                       |
| 37225 --     | Complete missile or space vehicle engines and/or propulsion units.....   | (X)  | 582,631            | (X)                           | ( <sup>4</sup> )      |
| 37225 11     | For United States military customers.....  | (X)  | 457,946            | (X)                           | (NA)                  |
| 37225 13     | For other than United States military customers.....   | (X)  | 124,685            | (X)                           | (NA)                  |
| 37228 --     | Missile and space vehicle engine and/or propulsion unit parts or accessories.....  | (X)  | 147,826            | (X)                           | ( <sup>6</sup> )      |
| 37228 11     | For United States military customers.....  | (X)  | 75,077             | (X)                           | (NA)                  |
| 37228 13     | For other than United States military customers.....   | (X)  | 72,749             | (X)                           | (NA)                  |
| 37223 --     | Research and development on aircraft engines.....  | (X)  | 385,339            | (X)                           | <sup>7</sup> 8664,683 |
|              | Research and development work on aircraft engines:   |  |                    |                               |                       |
| 37223 21     | For United States military customers.....  | (X)  | 326,750            | (X)                           | <sup>7</sup> 658,327  |
| 37223 23     | For other than United States military customers.....   | (X)  | ( <sup>9</sup> )   | (X)                           | <sup>8</sup> 6,356    |
|              | All other aeronautical services on aircraft engines:   |  |                    |                               |                       |
| 37223 31     | For United States military customers.....  | (X)  | 37,416             | (X)                           | ( <sup>7</sup> )      |
| 37223 33     | For other than United States military customers.....   | (X)  | 921,173            | (X)                           | ( <sup>8</sup> )      |
| 37226 --     | Receipts for research and development on complete missile or space vehicle engines and/or propulsion units.....  | (X)  | 696,780            | (X)                           | ( <sup>7 8</sup> )    |
| 37226 11     | For United States military customers.....  | (X)  | 475,540            | (X)                           | ( <sup>7</sup> )      |
| 37226 13     | For United States nonmilitary customers.....   | (X)  | 221,240            | (X)                           | ( <sup>8</sup> )      |

See footnotes at end of table.





TABLE 6A. **Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued**

| Product code | Product  | Total shipments including interplant transfers (\$1,000) |                   |         |
|--------------|--|--|-------------------|---------|
|              |  | 1963   | 1958              |         |
| 3729 --      | AIRCRAFT PARTS AND AUXILIARY EQUIPMENT, N.E.C., TOTAL—Continued                                  |  |                   |         |
| 37294 --     | Receipts from research and development on missile components, n.e.c. <sup>12</sup> .....         | 420,362  | 380,690           |         |
|              | Research and development on missile and space vehicle components, n.e.c.:                        |  |                   |         |
|              | For United States Government military customers:   |  |                   |         |
| 37294 11     | Airframes.....   | 173,499  | 380,690           |         |
| 37294 13     | Space capsules.....  |  |                   |         |
| 37294 19     | All other.....   |  |                   | 148,084 |
|              | For United States Government nonmilitary customers:  |  |                   |         |
| 37294 21     | Airframes.....   | 26,656   |                   |         |
| 37294 23     | Space capsules.....  |  |                   |         |
| 37294 29     | All other.....   |  |                   | 44,108  |
|              | For nongovernment customers:   |  |                   |         |
| 37294 31     | Airframes.....   | 13,055   |                   |         |
| 37294 33     | Space capsules.....  |  |                   |         |
| 37294 39     | All other.....   |  |                   | 11,945  |
| 37294 00     | Receipts from research and development on missile components, n.e.c., n.s.k. <sup>11</sup> ..... | 3,015  |                   |         |
| 37290 00     | Aircraft parts and auxiliary equipment, n.e.c., n.s.k. <sup>11</sup> .....                       | 72,494   | ( <sup>11</sup> ) |         |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

- <sup>1</sup>Total value of shipments figure for aircraft differs from value of work done. See text for explanation of differences.
- <sup>2</sup>Data for value of work done, including modifications, conversions, and overhaul of previously accepted aircraft, and other aeronautical services (including research and development on aircraft), represent receipts, billings, or value of work done.
- <sup>3</sup>Statistics on shipments of complete civilian aircraft were collected monthly and published in Current Industrial Reports Series M37G. The figures reported in that survey for 1963 were as follows: quantity, 8,155 units; value, \$685,936 thousand.
- <sup>4</sup>For 1958, data on complete missile or space vehicle engines and/or propulsion units were included with aircraft engines.
- <sup>5</sup>Statistics on shipments of aircraft engines for other than United States military customers were collected monthly and published in Current Industrial Reports Series M37G. The total value reported in that survey for 1963 was \$144,254 thousand.
- <sup>6</sup>For 1958, data on missile and space vehicle engine and/or propulsion unit parts or accessories were included with aircraft engine parts and accessories.
- <sup>7</sup>For 1958, data on receipts for research and development on complete missile or space vehicle engines and/or propulsion units for United States military customers and all other services on aircraft, missile or space vehicle engines and/or propulsion units for United States military customers were included with receipts for research and development on aircraft engines for United States military customers.
- <sup>8</sup>For 1958, data on receipts for research and development on complete missile or space vehicle engines and/or propulsion units for other than United States military customers and all other services on aircraft, missile or space vehicle engines and/or propulsion units for other than United States military customers were included with receipts for research and development on aircraft engines for other than United States military customers.
- <sup>9</sup>For 1963, data on research and development on aircraft engines for other than United States military customers are included with all other aeronautical services on aircraft engines for other than United States military customers to avoid disclosing figures of individual companies.
- <sup>10</sup>Statistics on complete propellers are also shown on Current Industrial Reports Series M37E, "Aircraft Propellers."
- <sup>11</sup>Since much less detail was collected for these products in 1958, "Not specified by kind" was included within the specified products.
- <sup>12</sup>Represents receipts or billings.

TABLE 6B. **Product Classes—Indexes of Production and Unit Value for Primary Products, Shipped by All Producers: 1963 and 1958**

(Indexes of production and unit value are not shown for this area pending further review of the quantity data and associated values pertaining to these products.)



TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class  | 1963      | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958      | 1954      | 1947    |
|-------|--|-----------|-------------------|-------------------|-------------------|-------------------|-----------|-----------|---------|
| 3721- | Aircraft <sup>2</sup> .....  | 4,330,502 | 4,439,052         | 4,470,499         | 4,652,957         | 5,085,226         | 5,362,680 | 5,582,476 | (NA)    |
| 37211 | Complete aircraft, military type.....  | 2,470,261 | 2,314,888         | 2,086,548         | 2,394,833         | 2,820,292         | 3,501,650 | 4,286,260 | 265,328 |
| 37212 | Complete aircraft, personal and utility type   | 157,797   | 267,556           | 291,982           | 1,269,678         | 1,229,087         | 988,237   | 291,705   | 57,020  |
| 37213 | Complete aircraft, commercial transport<br>(airline passenger and cargo service).....                    | 561,124   | 786,472           | 969,231           |                   |                   |           |           |         |
| 37214 | Modifications, conversions, and overhaul<br>of previously accepted aircraft.....                         | 465,455   | 368,814           | 327,056           | 362,059           | 259,823           | 298,800   | 167,829   | 28,203  |
| 37216 | Other aeronautical services for aircraft....   | 668,386   | 701,322           | 795,682           | 626,387           | 776,024           | 573,993   | 836,682   | (NA)    |
| 37210 | Aircraft, n.s.k.....   | 7,479     | -                 | -                 | -                 | -                 | -         | -         | -       |
| 3722- | Aircraft engines and parts.....  | 3,609,691 | 3,223,167         | 2,966,903         | 2,779,263         | 3,176,667         | 3,325,935 | 3,190,539 | 436,567 |
| 37221 | Aircraft engines for military customers....  | 644,417   | 3,366,190         | 3,233,357         | 3,101,341         | 3,126,204         | 3,139,851 | 3,151,231 | 187,758 |
| 37222 | Aircraft engines for other than military<br>customers.....   | 150,033   |                   |                   |                   |                   |           |           |         |
| 37223 | Research and development on aircraft engines   | 385,339   | 4,933,591         | 4,834,951         | 4,897,310         | 4,917,151         | 4,664,683 | 4,212,365 | 49,320  |
| 37224 | Aircraft engine parts and accessories.....   | 932,093   | 5,923,386         | 5,898,595         | 5,871,612         | 5,995,241         | 5,126,140 | 5,146,943 | 63,046  |
| 37225 | Complete missile or space vehicle engines<br>and/or propulsion units.....                                | 582,631   | (3)               | (3)               | (3)               | (3)               | (3)       | (3)       | (X)     |
| 37226 | Research and development on complete missile<br>or space vehicle engines and/or propulsion<br>units..... | 696,780   | (4)               | (4)               | (4)               | (5)               | (5)       | (5)       | (X)     |
| 37227 | All other services on complete missile or<br>space vehicle engines and/or propulsion<br>units.....       | 61,721    | (4)               | (4)               | (4)               | (4)               | (4)       | (4)       | (X)     |
| 37228 | Missile and space vehicle engine and/or<br>propulsion unit parts, or accessories.....                    | 147,826   | (5)               | (5)               | (5)               | (5)               | (5)       | (4)       | (X)     |
| 37220 | Aircraft engines and engine parts, n.s.k....   | 8,851     | -                 | -                 | -                 | -                 | -         | -         | -       |
| 37230 | Aircraft propellers and parts.....   | 108,991   | 95,776            | 96,686            | 102,069           | 102,531           | 166,952   | 191,012   | 38,984  |
| 3729- | Aircraft equipment, n.e.c.....   | 3,791,952 | 4,269,532         | 4,259,318         | 3,863,499         | 4,498,314         | 3,750,460 | 2,866,553 | 215,446 |
| 37291 | Other aircraft parts and auxiliary equipment   | 2,215,290 | 2,581,628         | 2,538,698         | 2,632,304         | 3,235,854         | 2,860,570 | (NA)      | (NA)    |
| 37292 | Guided missile components and subassemblies,<br>n.e.c.....   | 1,009,265 | 1,285,813         | 1,323,517         | 884,611           | 835,304           | 509,200   | (NA)      | (NA)    |
| 37293 | Research and development on aircraft parts..   | 74,541    | (NA)              | (NA)              | (NA)              | (NA)              | (NA)      | (NA)      | (NA)    |
| 37294 | Research and development on missile parts<br>and components, n.e.c.....                                  | 420,362   | 402,091           | 397,103           | 346,584           | 427,156           | 380,690   | (NA)      | (NA)    |
| 37290 | Aircraft equipment, n.e.c., n.s.k.....   | 72,494    | -                 | -                 | -                 | -                 | -         | -         | -       |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>2</sup>For industry 3721, represents value of work done rather than value of shipments.

<sup>3</sup>For 1954-1962, data for complete missile or space vehicle engines and/or propulsion units were included with aircraft engines.

<sup>4</sup>For 1954-1962, data on receipts for research and development on complete missile or space vehicle engines and/or propulsion units, and, all other services on complete missile or space vehicle engines and/or propulsion units, were included with receipts for research and development on aircraft engines.

<sup>5</sup>For 1954-1962, data on missile and space vehicle engine and/or propulsion unit parts or accessories were included with aircraft engine parts and accessories.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area  | Value of shipments |  | Product class and geographic area                     | Value of shipments |           | Product class and geographic area                                | Value of shipments |           |
|--|--------------------|--|---|--------------------|-----------|--|--------------------|-----------|
|  | 1963 <sup>1</sup>  |  |   | 1963 <sup>1</sup>  |           |  | 1963 <sup>1</sup>  | 1958      |
| COMPLETE AIRCRAFT, PERSONAL AND UTILITY TYPE (37212)                                 |                    |  | OTHER AERONAUTICAL SERVICES FOR AIRCRAFT (37216)—Con. |                    |           | AIRCRAFT PARTS AND AUXILIARY EQUIPMENT (37291)—Continued         |                    |           |
| United States, total....   | 157,797            |  | South.....  | 170,982            |           | Middle Atlantic.....   | 327,769            | (Z)       |
| Northeast and North Central.   | 117,529            |  | Maryland.....   | 1,685              |           | New York.....  | 231,465            | 248,264   |
| South.....   | 32,740             |  | West.....   | 397,961            |           | New Jersey.....  | 51,903             | 72,296    |
| Pacific.....   | 7,528              |  |   |                    |           | Pennsylvania.....  | 44,401             | (Z)       |
| California.....  | 7,528              |  | RESEARCH AND DEVELOPMENT ON AIRCRAFT ENGINES (37223)  |                    |           | East North Central.....  | 406,396            | (Z)       |
| COMPLETE AIRCRAFT COMMERCIAL TRANSPORT (AIRLINE PASSENGER AND CARGO SERVICE) (37213) |                    |  | United States, total....                              | 385,339            |           | Ohio.....  | 184,455            | 250,067   |
| United States, total....   | 561,124            |  | Northeast.....  | 197,117            |           | Indiana.....   | 105,514            | 152,146   |
| Pacific.....   | 504,803            |  | North Central, South and West.....                    | 188,222            |           | Illinois.....  | 56,770             | 64,827    |
| All other divisions.....   | 56,321             |  |   |                    |           | Michigan.....  | 57,221             | 82,334    |
| MODIFICATIONS, CONVERSIONS, AND OVERHAUL OF PREVIOUSLY ACCEPTED AIRCRAFT (37214)     |                    |  | AIRCRAFT ENGINE PARTS AND ACCESSORIES (37224)         |                    |           | Wisconsin.....   | 2,436              | (Z)       |
| United States, total....   | 465,455            |  | United States, total....                              | 932,093            |           | West North Central.....  | 258,305            | (Z)       |
| Northeast.....   | 37,678             |  | New England.....                                      | 353,341            |           | Missouri.....  | 58,111             | 69,800    |
| New York.....  | 35,007             |  | Connecticut.....                                      | 281,288            |           | Kansas.....  | 196,967            | 144,949   |
| South.....   | 206,497            |  | Middle Atlantic.....                                  | 245,569            |           | South Atlantic.....  | 61,497             | 112,089   |
| All other divisions.....   | 221,280            |  | New York.....   | 66,349             |           | Maryland.....  | 32,563             | 84,114    |
| California.....  | 88,300             |  | North Central.....                                    | 293,201            |           | Florida.....   | 7,619              | 17,586    |
|  |                    |  | Ohio.....   | 123,743            |           | East South Central.....  | 31,993             | 26,751    |
|  |                    |  | Indiana.....  | 87,132             |           | West South Central.....  | 100,821            | 205,493   |
|  |                    |  | Michigan.....   | 56,316             |           | Texas.....   | 92,910             | 196,508   |
|  |                    |  | South Atlantic.....                                   | 3,638              |           | Mountain.....  | 36,618             | 1,216,846 |
|  |                    |  | West.....   | 36,344             |           | Colorado.....  | 20,074             |           |
| OTHER AERONAUTICAL SERVICES FOR AIRCRAFT (37216)                                     |                    |  | AIRCRAFT PARTS AND AUXILIARY EQUIPMENT (37291)        |                    |           | Pacific.....   | 861,752            | 1,018,491 |
| United States, total....   | 668,386            |  | United States, total....                              | 2,215,290          | 2,860,570 | California.....  | 755,870            |           |
| Northeast.....   | 54,148             |  | New England.....                                      | 130,139            | (Z)       | RECEIPTS FROM RESEARCH AND DEVELOPMENT ON AIRCRAFT PARTS (37293) |                    |           |
| New York.....  | 46,168             |  | Massachusetts.....                                    | 25,073             | (Z)       | United States, total....   |                    | 74,541    |
| North Central.....   | 45,295             |  | Connecticut.....                                      | 102,254            | 105,739   | East North Central.....  |                    | 6,427     |
|  |                    |  |   |                    |           | Pacific.....   |                    | 17,990    |
|  |                    |  |   |                    |           | California.....  |                    | 17,990    |
|  |                    |  |   |                    |           | All other divisions.....   |                    | 50,124    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 37212, New York, Pennsylvania, Kansas, Georgia, Florida, Oklahoma, and Texas; 37213, Connecticut, New York, Pennsylvania, Maryland, Georgia, Texas, Washington, and California; 37214, Connecticut, Ohio, Indiana, Missouri, Kansas, North Carolina, Georgia, Florida, Alabama, Oklahoma, Texas, Wyoming, Arizona, and Washington; 37216, Connecticut, Pennsylvania, Ohio, Indiana, Missouri, Kansas, Georgia, Alabama, Texas, Arizona, Washington, and California; 37223, Massachusetts, Connecticut, New York, New Jersey, Pennsylvania, Ohio, Indiana, Michigan, Florida, and California; 37224, Maine, Vermont, Massachusetts, New Jersey, Pennsylvania, Illinois, Wisconsin, Iowa, Florida, Arizona, Utah, and California; 37291, Rhode Island, Minnesota, Delaware, Virginia, Georgia, Tennessee, Oklahoma, Idaho, Arizona, Washington, and Oregon; 37293, Massachusetts, Connecticut, New York, Ohio, and Kansas.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code                                      | Material   | Unit of measure                | 1963     |                          | 1958     |                          |
|---|--|--------------------------------|----------|--------------------------|----------|--------------------------|
|   |  |                                | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3721.—AIRCRAFT                   |  |                                |          |                          |          |                          |
|   | Materials, components, parts, containers, and supplies, total..  |                                | (X)      | 2,458,694                | (X)      | 2,547,029                |
|   | Mill shapes and forms:   |                                |          |                          |          |                          |
|   | Carbon steel:  |                                |          |                          |          |                          |
| 331011                                    | Bars and bar shapes.....   | Short tons.....                | 3,919    | 1,935                    | 7,775    | 2,513                    |
| 331012                                    | Sheet and strip.....   | .....do.....                   | 8,594    | 3,657                    | 4,761    | 1,611                    |
| 331013                                    | Plates.....  | .....do.....                   | 3,085    | 745                      | 7,927    | 1,900                    |
| 331015                                    | Structural shapes.....   | .....do.....                   | 3,436    | 1,059                    | 5,645    | 1,441                    |
| 331017                                    | Wire and wire products.....  | .....do.....                   | 1,648    | 817                      | 1,678    | 1,078                    |
| 331019                                    | All other carbon steel mill shapes and forms.....  | .....do.....                   | 2,183    | 1,804                    | 3,928    | 2,240                    |
|   | Alloy steel (except stainless):  |                                |          |                          |          |                          |
| 331021                                    | Bars and bar shapes.....   | .....do.....                   | 5,144    | 4,189                    | 6,234    | 3,903                    |
| 331029                                    | All other alloy steel mill shapes and forms.....   | .....do.....                   | 2,887    | 2,686                    | 3,045    | 3,100                    |
| 331031                                    | Stainless steel.....   | .....do.....                   | 2,237    | 5,249                    | 5,042    | 10,305                   |
|   | Copper and copper-base alloy:  |                                |          |                          |          |                          |
| 335728                                    | Bare wire (for electrical conduction only).....  | 1,000 lbs.....                 | 628      | 930                      | 374      | 389                      |
| 335790                                    | Insulated wire and cable.....  | 1,000 lbs.<br>(copper content) | 3,350    | 4,474                    | 4,008    | 7,219                    |
| 335102                                    | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                             | 1,000 lbs.....                 | 187      | 355                      | 659      | 645                      |
| 335123                                    | Plate, sheet, and strip, including military cups and discs.....  | .....do.....                   | 398      | 580                      |          |                          |
| 335127                                    | Pipe and tube.....   | .....do.....                   | 243      | 303                      |          |                          |
|   | Aluminum and aluminum-base alloy:  |                                |          |                          |          |                          |
| 335202                                    | Sheet, plate, and foil.....  | .....do.....                   | 51,623   | 38,107                   | 76,104   | 57,870                   |
| 335205                                    | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)  | .....do.....                   | 16,672   | 21,237                   | 33,990   | 34,793                   |
| 335209                                    | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welding tubing, etc.)..... | .....do.....                   | 8,111    | 4,766                    |          |                          |
| 335601                                    | Titanium and titanium-base alloy.....  | .....do.....                   | 1,077    | 15,237                   | (NA)     | (NA)                     |
|   | Castings (rough and semifinished): <sup>1</sup>  |                                |          |                          |          |                          |
| 332300                                    | Steel.....   | Short tons.....                | 3,164    | 5,620                    | 1,028    | 1,718                    |
| 336100                                    | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....                 | 5,394    | 8,515                    | 5,143    | 9,986                    |
| 336200                                    | Copper and copper-base alloy.....  | .....do.....                   | (NA)     | 479                      | 126      | 161                      |
|   | Forgings: <sup>1</sup>   |                                |          |                          |          |                          |
| 339100                                    | Iron and steel.....  | Short tons.....                | 4,160    | 6,252                    | 3,032    | 7,358                    |
| 339200                                    | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....                 | 9,754    | 14,567                   | 12,613   | 25,452                   |
| 339201                                    | Titanium and titanium-base alloy.....  | .....do.....                   | 76       | 736                      | (NA)     | (NA)                     |
|   | Electric motors and generators: <sup>1</sup>   |                                |          |                          |          |                          |
|   | Fractional horsepower electric motors (under 1 hp.)  |                                |          |                          |          |                          |
| 362110                                    | Timing motors, synchronous and subsynchronous.....   | Number.....                    | 3,295    | 418                      | 7,000    | 636                      |
| 363115                                    | Other fractional horsepower electric motors (excluding timing motors).....                             | .....do.....                   | 7,459    | 479                      |          |                          |
| 362120                                    | Integral horsepower motors and generators (1 hp. and over).....  | .....do.....                   | 726      | 445                      | (NA)     | (NA)                     |
|   | Bearings:  |                                |          |                          |          |                          |
| 356218                                    | Ball.....  | .....do.....                   | (X)      | 3,158                    | (X)      | 12,206                   |
| 356228                                    | Roller.....  | .....do.....                   | (X)      | 1,959                    |          |                          |
| 372911                                    | Hydraulic fluid power pumps, motors, and related hydraulic equipment.....                              | .....do.....                   | (X)      | 25,502                   | (X)      | 28,000                   |
| 220123                                    | Broad woven fabrics (cotton, wool, man-made fiber fabrics, etc.)...                                    | 1,000 lin. yds...              | 1,518    | 4,211                    | (NA)     | (NA)                     |
| 970099                                    | All other materials and components, parts, containers, and supplies consumed.....                      | .....do.....                   | (X)      | 2,233,785                | (X)      | 2,327,562                |
| 976000                                    | Materials, components, parts, containers, and supplies consumed, n.s.k..                               | .....do.....                   | (X)      | 44,438                   | (X)      | 4,943                    |
| INDUSTRY 3722.—AIRCRAFT ENGINES AND PARTS |  |                                |          |                          |          |                          |
|   | Materials, components, parts, containers, and supplies, total..  |                                | (X)      | 1,386,229                | (X)      | 1,442,387                |
|   | Mill shapes and forms (except castings):   |                                |          |                          |          |                          |
|   | Carbon steel:  |                                |          |                          |          |                          |
| 331011                                    | Bars and bar shapes.....   | Short tons.....                | 10,033   | 2,313                    | 65,769   | 12,389                   |
| 331012                                    | Sheet and strip.....   | .....do.....                   | 9,579    | 2,959                    | 22,573   | 4,487                    |
| 331013                                    | Plates.....  | .....do.....                   | 6,704    | 1,362                    | 8,314    | 1,337                    |
| 331015                                    | Structural shapes.....   | .....do.....                   | 302      | 84                       | 1,275    | 217                      |
| 331017                                    | Wire and wire products.....  | .....do.....                   | 205      | 141                      | 696      | 350                      |
| 331019                                    | All other carbon steel mill shapes and forms.....  | .....do.....                   | 2,883    | 1,007                    | 6,507    | 4,215                    |
|   | Alloy steel (except stainless):  |                                |          |                          |          |                          |
| 331021                                    | Bars and bar shapes.....   | .....do.....                   | 18,693   | 13,434                   | 14,217   | 9,107                    |
| 331029                                    | All other alloy steel mill shapes and forms.....   | .....do.....                   | 4,573    | 7,451                    | 10,750   | 11,040                   |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure                | 1963     |                          | 1958     |                          |
|---|---|--------------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                                | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3722.—AIRCRAFT ENGINES AND PARTS—Continued |   |                                |          |                          |          |                          |
|   | Mill shapes and forms (except castings)—Continued   |                                |          |                          |          |                          |
| 331031  | Stainless steel.....  | Short tons.....                | 17,131   | 40,994                   | 24,312   | 50,781                   |
| 335790  | Copper and copper-base alloy:<br>Insulated wire and cable.....  | 1,000 lbs.<br>(copper content) | 494      | 508                      | 429      | 356                      |
| 335728  | Bare wire (for electrical conduction only).....   | 1,000 lbs.....                 | 14       | 14                       |          |                          |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | .....do.....                   | 1,655    | 1,094                    | 836      | 524                      |
| 335123  | Plate, sheet, and strip, including military cups and discs.....                                       | .....do.....                   | 95       | 83                       |          |                          |
| 335127  | Pipe and tube.....  | .....do.....                   | 41       | 33                       |          |                          |
|   | Aluminum and aluminum-base alloy:   |                                |          |                          |          |                          |
| 335205  | Sheet, plate, and foil.....   | .....do.....                   | 3,777    | 3,089                    | 3,099    | 2,833                    |
| 335202  | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)                                       | .....do.....                   | 2,070    | 1,649                    |          |                          |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | .....do.....                   | 2,448    | 2,789                    | 5,062    | 3,471                    |
| 335601  | Titanium and titanium-base alloy.....   | .....do.....                   | 1,034    | 5,185                    | (NA)     | (NA)                     |
| 333401  | Aluminum and aluminum-base alloy refinery shapes.....   | Short tons.....                | 159      | 240                      | (NA)     | (NA)                     |
|   | Castings (rough and semifinished): <sup>1</sup>   |                                |          |                          |          |                          |
| 332300  | Steel.....  | .....do.....                   | 7,420    | 24,867                   | 21,316   | 39,507                   |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                 | 14,290   | 26,665                   | 8,243    | 10,258                   |
| 336200  | Copper and copper-base alloy.....   | .....do.....                   | 321      | 292                      | 1,067    | 846                      |
|   | Forgings: <sup>1</sup>  |                                |          |                          |          |                          |
| 339100  | Iron and steel.....   | Short tons.....                | 37,760   | 65,177                   | 59,139   | 126,240                  |
| 339200  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                 | 18,672   | 20,764                   | 12,076   | 13,476                   |
| 339201  | Titanium and titanium-base alloy.....   | .....do.....                   | 4,530    | 23,326                   | (NA)     | (NA)                     |
|   | Electric motors and generators: <sup>1</sup>  |                                |          |                          |          |                          |
|   | Fractional horsepower electric motors (under 1 hp.):  |                                |          |                          |          |                          |
| 362110  | Timing motors, synchronous and subsynchronous.....  | Number.....                    | (D)      | (D)                      |          |                          |
| 362115  | Other fractional horsepower electric motors (excluding timing motors).....                            | .....do.....                   | 32,216   | 3,214                    | 12,000   | 713                      |
| 362120  | Integral horsepower motors and generators (1 hp. and over).....                                       | .....do.....                   | 664      | 174                      | (NA)     | (NA)                     |
|   | Bearings:   |                                |          |                          |          |                          |
| 356218  | Ball.....   | .....do.....                   | (X)      | 8,837                    | (X)      | 15,813                   |
| 356228  | Roller.....   | .....do.....                   | (X)      | 8,479                    | (X)      | 15,813                   |
| 372911  | Hydraulic fluid power pumps, motors, and related hydraulic equipment.....                             | .....do.....                   | (X)      | 2,120                    | (NA)     | (NA)                     |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                     | .....do.....                   | (X)      | 1,056,676                | (X)      | 1,131,142                |
| 976000  | Materials, components, parts, containers, and supplies consumed, n.s.k.....                           | .....do.....                   | (X)      | 61,209                   | (X)      | 3,285                    |
| INDUSTRY 3723.—AIRCRAFT PROPELLERS AND PARTS        |   |                                |          |                          |          |                          |
|   | Materials, components, parts, containers, and supplies, total..                                       | .....do.....                   | (X)      | 64,501                   | (X)      | 98,042                   |
|   | Mill shapes and forms (except castings):  |                                |          |                          |          |                          |
|   | Carbon steel:   |                                |          |                          |          |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....                |          |                          |          |                          |
| 331012  | Sheet and strip.....  | .....do.....                   |          |                          |          |                          |
| 331013  | Plates.....   | .....do.....                   |          |                          | 232      | 134                      |
| 331015  | Structural shapes.....  | .....do.....                   |          |                          |          |                          |
| 331017  | Wire and wire products.....   | .....do.....                   |          |                          |          |                          |
| 331019  | All other carbon steel mill shapes and forms.....   | .....do.....                   | 4,837    | 4,534                    |          |                          |
|   | Alloy steel (except stainless):   |                                |          |                          |          |                          |
| 331021  | Bars and bar shapes.....  | .....do.....                   |          |                          |          |                          |
| 331029  | Shapes and forms.....   | .....do.....                   |          |                          | 2,494    | 2,247                    |
| 331031  | Stainless steel.....  | .....do.....                   |          |                          |          |                          |
|   | Copper and copper-base alloy:   |                                |          |                          |          |                          |
| 335728  | Insulated wire and cable.....   | 1,000 lbs.<br>(copper content) | (D)      | (D)                      |          |                          |
| 336790  | Bare wire (for electrical conduction only).....   | 1,000 lbs.....                 | (D)      | (D)                      |          |                          |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | .....do.....                   | -        | -                        | (NA)     | 99                       |
| 335123  | Plate, sheet, and strip, including military cups and discs.....                                       | .....do.....                   | (D)      | (D)                      |          |                          |
| 335127  | Pipe and tube.....  | .....do.....                   | -        | -                        |          |                          |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure             | 1963     |                          | 1958     |                          |
|---|---|-----------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                             | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3723.—AIRCRAFT PROPELLERS AND PARTS—Con.   |   |                             |          |                          |          |                          |
| Mill shapes and forms (except castings)—Continued   |   |                             |          |                          |          |                          |
| 335   | Aluminum and aluminum-base alloy:   |                             |          |                          |          |                          |
| 335202  | Sheet, plate, and foil.....   | 1,000 lbs.....              | } 150    | 390                      | 222      | 415                      |
| 335205  | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)                                       | ...do.....                  |          |                          |          |                          |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ...do.....                  |          |                          |          |                          |
| Castings (rough and semifinished): <sup>1</sup>     |   |                             |          |                          |          |                          |
| 332300  | Steel.....  | Short tons.....             | (D)      | (D)                      | (NA)     | (NA)                     |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....              | (D)      | (D)                      | (NA)     | (NA)                     |
| 336200  | Copper and copper-base alloy.....   | ...do.....                  | (D)      | (D)                      | 568      | 609                      |
| Forgings: <sup>1</sup>                              |   |                             |          |                          |          |                          |
| 339100  | Iron and steel.....   | Short tons.....             | (D)      | (D)                      | (NA)     | (NA)                     |
| 339200  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....              | (D)      | (D)                      | (NA)     | (NA)                     |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                     |                             | (X)      | 59,246                   | (X)      | 93,191                   |
| 976000  | Materials, components, parts, containers, and supplies, n.s.k.....                                    |                             | (X)      | 331                      | (X)      | 1,347                    |
| INDUSTRY 3729.—AIRCRAFT EQUIPMENT, N.E.C.           |   |                             |          |                          |          |                          |
|   | Materials, components, parts, containers, and supplies, total..                                       |                             | (X)      | 996,750                  | (X)      | 930,073                  |
| Mill shapes and forms (except castings):            |   |                             |          |                          |          |                          |
| Carbon steel:                                       |   |                             |          |                          |          |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....             | 10,479   | 3,448                    | 13,698   | 5,330                    |
| 331012  | Sheet and strip.....  | ...do.....                  | 20,875   | 3,990                    | 12,910   | 3,316                    |
| 331013  | Plates.....   | ...do.....                  | 14,418   | 2,599                    | 5,299    | 1,202                    |
| 331015  | Structural shapes.....  | ...do.....                  | 3,437    | 917                      | (NA)     | 4,210                    |
| 331017  | Wire and wire products.....   | ...do.....                  | 1,799    | 410                      | (NA)     | 1,727                    |
| 331019  | All other carbon steel mill shapes and forms.....   | ...do.....                  | 3,300    | 1,235                    | 2,368    | 1,105                    |
| Alloy steel (except stainless):                     |   |                             |          |                          |          |                          |
| 331021  | Bars and bar shapes.....  | ...do.....                  | 9,873    | 5,594                    | 13,566   | 8,073                    |
| 331029  | All other alloy steel mill shapes and forms.....  | ...do.....                  | 3,944    | 3,237                    | 19,470   | 13,228                   |
| 331031  | Stainless steel.....  | ...do.....                  | 9,286    | 15,948                   | 6,133    | 11,971                   |
| Copper and copper-base alloy:                       |   |                             |          |                          |          |                          |
| 335728  | Bare wire (for electrical conduction only).....   | ...do.....                  | 259      | 226                      | 273      | 252                      |
| 335790  | Insulated wire and cable.....   | 1,000 lbs. (copper content) | 835      | 2,038                    | 770      | 989                      |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.....              | 3,116    | 1,350                    | } 4,137  | 2,340                    |
| 335123  | Plate, sheet, and strip, including military cups and disks.....                                       | ...do.....                  | 138      | 156                      |          |                          |
| 335127  | Pipe and tube.....  | ...do.....                  | 161      | 168                      |          |                          |
| Aluminum and aluminum-base alloy:                   |   |                             |          |                          |          |                          |
| 335202  | Sheet, plate and foil.....  | ...do.....                  | 36,442   | 25,517                   | } 41,275 | 29,375                   |
| 335205  | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)                                       | ...do.....                  | 29,418   | 30,059                   |          |                          |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ...do.....                  | 16,346   | 9,048                    |          |                          |
| 335601  | Titanium and titanium-base alloy mill shapes and forgings.....  | ...do.....                  | 510      | 6,319                    | (NA)     | (NA)                     |
| 333401  | Aluminum and aluminum-base alloy refinery shapes.....   | Short tons.....             | 193      | 147                      | (NA)     | (NA)                     |
| Castings (rough and semifinished): <sup>1</sup>     |   |                             |          |                          |          |                          |
| 332300  | Steel.....  | ...do.....                  | 7,430    | 9,104                    | 17,212   | 20,214                   |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....              | 12,625   | 14,787                   | 13,008   | 13,791                   |
| 336200  | Copper and copper-base alloy.....   | ...do.....                  | 713      | 413                      | 700      | 682                      |
| Forgings: <sup>1</sup>                              |   |                             |          |                          |          |                          |
| 339100  | Iron and steel.....   | Short tons.....             | 20,055   | 23,150                   | 29,810   | 17,612                   |
| 339200  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....              | 10,784   | 11,735                   | 10,412   | 11,028                   |
| Electric motors and generators: <sup>1</sup>        |   |                             |          |                          |          |                          |
| Fractional horsepower electric motors (under 1 hp.) |   |                             |          |                          |          |                          |
| 362110  | Timing motors synchronous and subsynchronous.....   | Thousand.....               | 20       | 1,150                    | 44       | 3,223                    |
| 362115  | Other fractional horsepower electric motors (excluding timing motors).....                            | ...do.....                  | 108      | 1,862                    | 30       | 2,339                    |
| 362120  | Integral horsepower motors and generators (1 hp. and over).....                                       | ...do.....                  | 20       | 5,844                    | (NA)     | (NA)                     |
| Bearings:   |   |                             |          |                          |          |                          |
| 356218  | Ball.....   |                             | (X)      | 8,186                    | } (X)    | 5,998                    |
| 356228  | Roller.....   |                             | (X)      | 2,091                    |          |                          |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure   | 1963     |                          | 1958     |                          |
|---|---|-------------------|----------|--------------------------|----------|--------------------------|
|   |   |                   | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3729.—AIRCRAFT EQUIPMENT, N.E.C.—Continued |   |                   |          |                          |          |                          |
| 372911  | Hydraulic fluid power pumps, motors, and related hydraulic equipment.....         | .....             | (X)      | 21,819                   | (X)      | <sup>2</sup> 13,000      |
| 220123  | Broad woven fabrics (cotton, wool, man-made fiber fabrics, etc.)...               | 1,000 lin. yds... | 1,285    | 2,363                    | (NA)     | (NA)                     |
| 970099  | All other materials and components, parts, containers, and supplies consumed..... | .....             | (X)      | 732,343                  | (X)      | 721,291                  |
| 976000  | Materials, components, parts, containers, and supplies consumed, n.s.k.....       | .....             | (X)      | 49,497                   | (X)      | 14,421                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Does not include materials produced and consumed at the same establishment.

<sup>2</sup>Represents estimates published in MC58(1)-7 (Supplement), "Selected Materials Consumed," from data collected in a supplemental survey on Form MA-131, "Consumption of Materials, Parts, Containers and Supplies During 1958." This survey was limited to large establishments in selected chemical, machinery and equipment industries and resulted in estimates which are subject to greater error than are the figures on materials consumption collected as a regular part of the census of manufactures. This material was described as pumps and compressors, including hydraulic motors.



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item   | Aircraft<br>(SIC 3721) | Aircraft engines<br>and parts<br>(SIC 3722) | Aircraft propellers<br>and parts<br>(SIC 3723) | Aircraft equipment,<br>n.e.c.<br>(SIC 3729) |
|--|------------------------|---|--|---|
| Total cost of purchased fuels and electric energy.....\$1,000..  | 31,477                 | 27,157                                      | 1,650  | 24,846                                      |
| Total cost of purchased fuels.....do....   | 7,969                  | 7,437                                       | 415  | 7,418                                       |
| Bituminous coal, lignite, and anthracite:  |                        |   |  |   |
| Quantity.....1,000 short tons..  | 128                    | 162   | -  | 97  |
| Cost.....\$1,000..   | 884                    | 1,178                                       | -  | 700   |
| Coke and breeze:   |                        |   |  |   |
| Quantity.....1,000 short tons..  | -                      | -   | -  | (S)   |
| Cost.....\$1,000..   | -                      | -   | -  | (S)   |
| Fuel oil (distillate and residual):  |                        |   |  |   |
| Quantity.....1,000 barrels of 42 gallons..   | 909                    | 1,201                                       | (S)  | (S)   |
| Cost.....\$1,000..   | 2,633                  | 3,716                                       | (S)  | (S)   |
| Gas (natural, manufactured, still, blast furnace,<br>and coke oven):   |                        |   |  |   |
| Quantity.....million cu.ft..   | 10,462                 | 3,382                                       | (S)  | (S)   |
| Cost.....\$1,000..   | 3,783                  | 1,880                                       | (S)  | (S)   |
| Other fuels.....do....   | 669                    | 663   | (S)  | 1,076                                       |
| Electric energy:   |                        |   |  |   |
| Purchased:   |                        |   |  |   |
| Quantity.....million kw.-hrs..   | 2,475                  | 1,824                                       | 101  | 1,362                                       |
| Cost.....\$1,000..   | 23,508                 | 19,720                                      | 1,235  | 17,428                                      |
| Generated less sold.....million kw.-hrs..  | 19                     | (S)   | (S)  | -   |
| Aggregate horsepower of prime movers and electric motors<br>driven by purchased energy (December 31), total.....1,000 hp.. | 971                    | 1,168                                       | 59   | 778   |
| Prime movers, total.....do....   | 134                    | 129   | 1  | 70  |
| Driving generators.....do....  | 43                     | 19  | (Z)  | 7   |
| Not driving generators.....do....  | 91                     | 110   | 1  | 63  |
| Electric motors, total.....do....  | 851                    | 1,042                                       | 58   | 709   |
| Driven by purchased energy.....do....  | 837                    | 1,039                                       | 58   | 708   |
| Driven by energy generated at establishment.....do....   | 15                     | 3   | (Z)  | -   |
| Aggregate horsepower per 100 production workers.....   | 538                    | 1,133                                       | 1,037  | 692   |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3721-                          | AIRCRAFT  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 100                     | 302,201        | 2,369,416         | 166,744            | 342,120           | 1,097,103       | 3,542,695                                      | 2,773,836                   | 16,316,531                   | 114,658                             |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 61                      | 57,711         | 431,562           | 34,515             | 68,500            | 217,218         | 765,121  | 423,983                     | 1,189,104                    | 11,905                              |
|                                | 75-89% specialization.....  | 18                      | 101,359        | 643,521           | 57,328             | 116,884           | 315,711         | 1,143,607                                      | 1,038,256                   | 2,181,863                    | 38,789                              |
| 37211                          | Complete aircraft, military type (primary product class of estab.)  | 15                      | 147,763        | 1,194,692         | 84,584             | 173,087           | 585,398         | 1,840,314                                      | 1,546,809                   | 3,387,123                    | 73,876                              |
| 37214                          | Modifications, conversions and overhaul of previously accepted aircraft (primary product class of estab.).....                  | 18                      | 29,683         | 220,904           | 16,350             | 32,599            | 95,067          | 320,336  | 158,257                     | 478,593                      | 5,541                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 11                      | 5,472          | 31,793            | 3,447              | 6,884             | 17,956          | 47,817   | 23,200                      | 71,017                       | 666                                 |
| 37216                          | Other aeronautical services for aircraft (primary product class of estab.).....   | 13                      | 72,947         | 573,983           | 32,347             | 67,643            | 208,871         | 830,149  | 530,388                     | 1,360,537                    | 22,150                              |
| 3722-                          | AIRCRAFT ENGINES AND PARTS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 232                     | 190,834        | 1,486,081         | 105,890            | 222,000           | 705,727         | 2,244,317                                      | 1,876,762                   | 4,100,520                    | 111,529                             |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 159                     | 140,340        | 1,082,147         | 73,081             | 154,536           | 480,255         | 1,653,554                                      | 1,434,862                   | 3,067,669                    | 89,437                              |
|                                | 75-89% specialization.....  | 17                      | 1,729          | 12,156            | 1,249              | 2,691             | 8,188           | 20,626   | 17,487                      | 39,326                       | 509                                 |
| 37221                          | Aircraft engines for U.S. military customers (primary product class of estab.).....   | 14                      | 66,618         | 490,874           | 40,645             | 85,737            | 263,704         | 788,120  | 842,447                     | 1,641,250                    | 30,958                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 5                       | 197            | 1,466             | 160                | 362               | 1,208           | 1,834  | 1,216                       | 3,004                        | 155                                 |
| 37223                          | Research and development on aircraft engines (primary product class of estab.).....   | 7                       | 7,552          | 62,402            | 2,842              | 6,381             | 19,796          | 76,304   | 82,784                      | 157,094                      | 3,989                               |
| 37224                          | Aircraft engine parts and accessories (primary product class of estab.).....  | 116                     | 39,227         | 272,834           | 26,116             | 53,936            | 168,291         | 442,043  | 269,923                     | 724,166                      | 14,405                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 66                      | 10,962         | 73,872            | 8,333              | 17,548            | 51,963          | 130,785  | 69,925                      | 200,482                      | 3,186                               |
|                                | 75-89% specialization.....  | 22                      | 4,123          | 27,246            | 2,898              | 6,069             | 17,894          | 43,770   | 27,991                      | 73,356                       | 1,292                               |
| 37225                          | Complete missile or space vehicle engines and/or propulsion units (primary product class of estab.).....                        | 9                       | 17,716         | 131,105           | 8,519              | 17,223            | 60,898          | 213,936  | 203,789                     | 413,574                      | 6,249                               |
| 37226                          | Research and development on complete missile or space vehicle engines and/or propulsion units (primary product class of estab.) | 14                      | 51,733         | 473,473           | 22,334             | 46,865            | 158,727         | 634,924  | 421,999                     | 1,021,059                    | 51,159                              |
| 37228                          | Missile and space vehicle engines and/or propulsion units parts or accessories (primary product class of estab.).....           | 30                      | 5,377          | 38,933            | 3,425              | 7,587             | 22,406          | 56,627   | 40,970                      | 96,091                       | 3,767                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 11                      | 1,464          | 9,478             | 915                | 1,954             | 5,250           | 15,035   | 10,327                      | 25,453                       | 1,591                               |
| 3729                           | AIRCRAFT EQUIPMENT, N.E.C.  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 1,000                   | 175,167        | 1,319,476         | 111,430            | 232,819           | 745,501         | 1,966,904                                      | 1,167,527                   | 3,168,607                    | 61,931                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 734                     | 76,318         | 559,039           | 47,560             | 100,600           | 302,153         | 793,149  | 479,396                     | 1,274,266                    | 33,047                              |
|                                | 75-89% specialization.....  | 59                      | 13,639         | 95,862            | 8,656              | 18,130            | 54,379          | 125,362  | 86,542                      | 221,471                      | 3,609                               |



TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3729-                          | AIRCRAFT EQUIPMENT, N.E.C.—Con.   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
| 37291                          | Other aircraft parts and auxiliary equipment (primary product class of estab.).....                     | 547                     | 106,799        | 776,062           | 72,855             | 151,775           | 470,313         | 1,127,834                                      | 736,211                     | 1,875,982                    | 32,766                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 372                     | 38,240         | 267,813           | 26,535             | 55,586            | 167,418         | 398,269  | 266,101                     | 658,787                      | 13,479                              |
|                                | 75-89% specialization.....  | 48                      | 7,726          | 54,301            | 5,272              | 10,869            | 33,434          | 72,055   | 45,424                      | 117,263                      | 2,359                               |
| 37292                          | Guided missile components and subassemblies, n.e.c. (primary product class of estab.).....              | 98                      | 40,267         | 317,295           | 24,295             | 51,089            | 170,077         | 520,283  | 275,435                     | 806,543                      | 11,512                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 50                      | 8,383          | 59,674            | 6,192              | 14,057            | 38,422          | 76,697   | 39,071                      | 116,830                      | 4,599                               |
|                                | 75-89% specialization.....  | 10                      | 1,205          | 7,257             | 842                | 1,540             | 4,279           | 13,192   | 7,604                       | 18,977                       | 716                                 |
| 37293                          | Research and development on aircraft parts (primary product class of estab.).....                       | 8                       | 1,159          | 8,336             | 1,050              | 2,278             | 7,848           | 11,371   | 6,055                       | 17,338                       | 561                                 |
| 37294                          | Research and development on missile parts and components, n.e.c. (primary product class of estab.)..... | 29                      | 21,990         | 185,286           | 9,353              | 19,688            | 72,747          | 255,718  | 125,701                     | 390,171                      | 14,440                              |

n.e.c. Not elsewhere classified.

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations  | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3721.—AIRCRAFT  |                          |   |         |            |                                       |   |         |            |
| Nonferrous foundry (except die casting).....   | 11                       | 3   | 5       | 3          | 165                                   | 9   | 42      | 114        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 6                        | -   | 1       | 5          | 559                                   | -   | (D)     | (D)        |
| Electroplating and other plating.....  | 27                       | 10  | 10      | 7          | 494                                   | 29  | 101     | 364        |
| Galvanizing and other hot dip coating.....   | 7                        | 1   | 3       | 3          | 139                                   | (D)                                       | (D)     | 105        |
| Heat treating of metals.....   | 34                       | 13  | 8       | 13         | 517                                   | 31  | 65      | 421        |
| Automatic screw machine department.....  | 10                       | 5   | 5       | -          | 51                                    | 12  | 39      | -          |
| Machine shop.....  | 53                       | 10  | 13      | 30         | 12,980                                | 26  | 134     | 12,820     |
| Tool and die shop.....   | 38                       | 7   | 4       | 27         | 8,559                                 | 18  | 42      | 8,499      |
| Foundry pattern shop.....  | 16                       | 2   | 5       | 9          | 717                                   | (D)                                       | (D)     | 658        |
| Plate or structural fabrication.....   | 38                       | 7   | 9       | 22         | 9,129                                 | 19  | 95      | 9,015      |
| Stamping, blanking and forming of metals.....  | 48                       | 12  | 10      | 26         | 6,282                                 | 23  | 97      | 6,162      |
| Painting, lacquering and enameling on metals.....  | 50                       | 14  | 8       | 28         | 2,768                                 | 29  | 87      | 2,652      |
| Plastics molding.....  | 31                       | 7   | 5       | 19         | 1,859                                 | 16  | 59      | 1,784      |
| Assembly of product.....   | 56                       | 6   | 8       | 42         | 45,083                                | 10  | 90      | 44,983     |
| Shipping department, including packing and crating....                                   | 52                       | 23  | 5       | 24         | 2,023                                 | 44  | 62      | 1,917      |
| INDUSTRY 3722.—AIRCRAFT ENGINES AND PARTS  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 6                        | 2   | 3       | 1          | 77                                    | (D)                                       | (D)     | (D)        |
| Nonferrous foundry (except die casting).....   | 6                        | 1   | 3       | 2          | 114                                   | (D)                                       | (D)     | (D)        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 14                       | 4   | 4       | 6          | 741                                   | 13  | 37      | 691        |
| Electroplating and other plating.....  | 36                       | 14  | 13      | 9          | 640                                   | 28  | 106     | 506        |
| Galvanizing and other hot dip coating.....   | 8                        | 3   | 3       | 2          | 83                                    | 7   | (D)     | (D)        |
| Heat treating of metals.....   | 73                       | 39  | 18      | 16         | 1,012                                 | 76  | 155     | 781        |
| Automatic screw machine department.....  | 36                       | 20  | 12      | 4          | 295                                   | 42  | 104     | 149        |
| Machine shop.....  | 166                      | 29  | 34      | 103        | 27,149                                | 45  | 374     | 26,730     |
| Tool and die shop.....   | 91                       | 23  | 32      | 36         | 3,605                                 | 52  | 303     | 3,250      |
| Foundry pattern shop.....  | 11                       | 4   | 4       | 3          | 138                                   | 6   | 46      | 86         |
| Plate or structural fabrication.....   | 25                       | 6   | 6       | 13         | 1,078                                 | 10  | 61      | 1,007      |
| Stamping, blanking and forming of metals.....  | 62                       | 23  | 20      | 19         | 1,750                                 | 38  | 212     | 1,500      |
| Painting, lacquering and enameling on metals.....  | 51                       | 30  | 14      | 7          | 452                                   | 50  | 128     | 274        |
| Plastics molding.....  | 17                       | 5   | 4       | 8          | 675                                   | 10  | 35      | 630        |
| Assembly of product.....   | 97                       | 24  | 25      | 48         | 8,084                                 | 42  | 251     | 7,791      |
| Shipping department, including packing and crating....                                   | 130                      | 85  | 34      | 11         | 1,244                                 | 146                                       | 326     | 772        |

See footnotes at end of table.

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963—Continued

| Metalworking operations  | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3723.—AIRCRAFT PROPELLERS AND PARTS   |                          |   |         |            |                                       |   |         |            |
| Tool and die shop.....   | 4                        | 2   | -       | 2          | (D)                                   | (D)                                       | -       | (D)        |
| Foundry pattern shop.....  | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Plate or structural fabrication.....   | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Stamping, blanking and forming of metals.....  | 3                        | 1   | 1       | 1          | (D)                                   | (D)                                       | (D)     | (D)        |
| Painting, lacquering and enameling on metals.....  | 4                        | 2   | -       | 2          | (D)                                   | (D)                                       | -       | (D)        |
| Plastics molding.....  | 3                        | -   | 2       | 1          | (D)                                   | -   | (D)     | (D)        |
| Assembly of product.....   | 6                        | 1   | 2       | 3          | 425                                   | (D)                                       | (D)     | (D)        |
| Shipping department, including packing and crating....                                   | 6                        | 4   | 1       | 1          | (D)                                   | (D)                                       | (D)     | (D)        |
| INDUSTRY 3729.—AIRCRAFT EQUIPMENT, N.E.C.  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 8                        | 3   | 2       | 3          | 183                                   | 6   | (D)     | (D)        |
| Nonferrous foundry (except die casting).....   | 10                       | 4   | 1       | 5          | 206                                   | (D)                                       | (D)     | 182        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 10                       | 5   | 3       | 2          | 126                                   | (D)                                       | (D)     | (D)        |
| Electroplating and other plating.....  | 65                       | 34  | 23      | 8          | 506                                   | 69  | 211     | 226        |
| Galvanizing and other hot dip coating.....   | 8                        | 6   | 1       | 1          | 42                                    | (D)                                       | (D)     | (D)        |
| Heat treating of metals.....   | 98                       | 56  | 30      | 12         | 588                                   | 95  | 262     | 231        |
| Automatic screw machine department.....  | 65                       | 38  | 19      | 8          | 765                                   | 71  | 161     | 533        |
| Machine shop.....  | 466                      | 94  | 150     | 222        | 24,082                                | 141                                       | 1,577   | 22,364     |
| Tool and die shop.....   | 159                      | 71  | 52      | 36         | 4,070                                 | 149                                       | 481     | 3,440      |
| Foundry pattern shop.....  | 20                       | 9   | 8       | 3          | 261                                   | 21  | 58      | 182        |
| Plate or structural fabrication.....   | 63                       | 20  | 20      | 23         | 1,744                                 | 36  | 202     | 1,506      |
| Stamping, blanking and forming of metals.....  | 149                      | 69  | 57      | 23         | 2,881                                 | 125                                       | 528     | 2,218      |
| Painting, lacquering and enameling on metals.....  | 153                      | 110                                       | 33      | 10         | 1,035                                 | 184                                       | 305     | 546        |
| Plastics molding.....  | 37                       | 20  | 7       | 10         | 699                                   | 42  | 58      | 599        |
| Assembly of product.....   | 266                      | 84  | 64      | 118        | 17,257                                | 151                                       | 620     | 16,486     |
| Shipping department, including packing and crating....                                   | 294                      | 209                                       | 70      | 15         | 1,671                                 | 342                                       | 629     | 700        |

Note: Very small establishments were not requested to report their metalworking operations and, in some instances, a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production-worker employment on the last line of the table below:

| Item  | Industry |        |        |       |
|---|----------|--------|--------|-------|
|   | 3721     | 3722   | 3723   | 3729  |
| Total number of establishments in the industry.....   | 100      | 232    | 14     | 1,000 |
| Number of establishments which reported one or more of the specified operations                                   | 65       | 195    | 9      | 542   |
| Percent of industry production workers in these establishments.....   | 90-95    | 95-100 | 95-100 | 90-95 |
| Number of establishments which reported "none" of the operations apply.....                                       | 16       | 18     | -      | 32    |
| Percent of industry production workers in these establishments.....   | 0-5      | 0-5    | -      | 0-5   |
| Percent of industry production workers in establishments which completed the metalworking operations inquiry..... | 90-95    | 95-100 | 95-100 | 90-95 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishment.



## SHIP AND BOAT BUILDING, RAILROAD AND MISCELLANEOUS TRANSPORTATION EQUIPMENT

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3731—Ship Building and Repairing
- 3732—Boat Building and Repairing
- 3741—Locomotives and Parts
- 3742—Railroad and Street Cars
- 3751—Motorcycles, Bicycles, and Parts
- 3791—Trailer Coaches
- 3799—Transportation Equipment, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3731—SHIP BUILDING AND REPAIRING

This industry comprises establishments primarily engaged in building and repairing all types of ships, barges, canal boats, and lighters, whether propelled by sail or motor power or towed by other craft. This industry also includes the conversion and reconversion of ships. Establishments primarily engaged in fabricating structural assemblies or components for ships, or subcontractors engaged in ship painting, joinery, carpentry work, electrical wiring installation, etc., are not classified in this industry. For a detailed list of products of industry 3731, refer to table 6A, product codes 3731110 to 3731659.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

The total value of work done and other receipts of the Ship Building and Repairing Industry totaled \$1,680 million. This amount included receipts from primary activities (ship building and repairing) valued at \$1,508 million, shipments of products primary to other industries (secondary products) valued at \$118 million, and miscellaneous receipts at \$54 million.

The value of ship building and repairing represents value of work done during the year. This provides a more adequate measure of the activity in this industry than value of vessels completed and delivered, primarily because of length of the production cycle, which

may be several years for some vessels. Value of shipments (deliveries) would result in a distortion for establishments working on a vessel all year, but not completing it during the year or, conversely, for establishments completing and delivering a vessel during a year when most of the work was performed in previous years. Respondents were requested to compute the value of work done by including the cost of labor, the cost of purchased materials and parts received during 1963, overhead and profits by one of the following methods: (1) estimating the percentage of completion during 1963, (2) reporting net billings for work done during 1963, or (3) reporting payments received for work done during 1963.

This industry's receipts for ship building and repairing represented 92 percent of its total product shipments. The industry specialization ratio in 1958 was 93 percent. Secondary products shipped by this industry in 1963 include fabricated structural iron and steel (\$36 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 51 percent of the total value of work done is represented by plants specializing in self-propelled U.S. military ships, and 16 percent in self-propelled non-military ships.

Shipments of ship building and repairing by this industry represented 99 percent of all shipments of these products (\$1,518 million) by all industries. In 1958 the coverage ratio was also 99 percent.

#### 3732—BOAT BUILDING AND REPAIRING

This industry comprises establishments primarily engaged in building and repairing all types of boats, except rubber boats (industry 3069). Establishments primarily engaged in cleaning and storing boats and in the rental of dock space, and yacht clubs are classified in nonmanufacturing industries. For a detailed list of products of industry 3732, refer to table 6A, product codes 3732111 to 3732421.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Boat Building and Repairing Industry totaled \$360 million. This amount included shipments of newly constructed boats and receipts for boat repairs (primary products) valued at \$322 million, shipments of other products (secondary products) valued at \$12 million, and miscellaneous receipts (mainly products bought and resold) at \$27 million.

This industry's shipments of newly constructed boats and receipts for repair of boats represented 97 percent of its total product shipments. The industry specialization ratio in 1958 was 93 percent. Secondary products shipped by this industry in 1963 include repair of nonmilitary ships (\$3 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 33 percent of the total industry shipments are represented by plants specializing in inboard motor boats; and 28 percent in outboard motor boats.



Shipments of newly constructed boats and receipts for repair of boats by this industry represented 95 percent of all shipments of these products (\$338 million) by all industries. In 1958 the coverage ratio was also 95 percent. Another industry shipping newly constructed boats and repairing boats was industry 3731, Ship Building and Repairing, over \$2 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3732, e.g., boat repair, 83 percent, and all other boats, 90 percent.

The production index for the primary products of the industry increased to 185 in 1963 from the 1958 level of 146. The unit value index for 1963 was 114 compared to 126 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3741—LOCOMOTIVES AND PARTS

This industry comprises establishments primarily engaged in building and rebuilding locomotives (including frames and parts, n.e.c.) of any type or gauge. Railroad shops rebuilding and repairing locomotives or building new locomotives are classified in Major Group 40. For a detailed list of products of industry 3741, refer to table 6A, product codes 3741141 to 3741351.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Locomotives and Parts Industry totaled \$438 million. This amount included shipments of locomotives and parts (primary products) valued at \$342 million, shipments of other products (secondary products) valued at \$70 million, and miscellaneous receipts at \$25 million.

This industry's shipments of locomotives and parts represented 83 percent of its total product shipments. The industry specialization ratio in 1958 was 85 percent. Secondary products shipped by this industry in 1963 include land transportation motors, generators, and control equipment and parts (over \$20 million), and diesel and semidiesel engines (over \$2 million).

Shipments of locomotives and parts by this industry represented 90 percent of all shipments of these products (\$378 million) by all industries. In 1958 the coverage ratio was 90 percent. Other industries shipping locomotives and parts include industry 3742, Railroad and Street Cars, over \$5 million; and industry 3323, Steel Foundries, over \$2 million.

The production index for the primary products of the industry decreased to 86 in 1963 from the 1958 level of 89. The unit value index for 1963 was 119 compared to 109 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3742—RAILROAD AND STREET CARS

This industry comprises establishments primarily engaged in building and rebuilding railroad, street, and rapid transit cars and car equipment for operation on rails for freight and passenger service. This industry also includes establishments primarily engaged in manufacturing trackless trolley busses. Establishments primarily engaged in manufacturing mining cars are classified in industry 3532. Repair shops, owned and operated by railroads or local transit companies, rebuilding or repairing cars, or building new cars for their own account, are classified in Major Groups 40 and 41. For a detailed list of products of industry 3742, refer to table 6A, product codes 3742111 to 3742351.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Railroad and Street Cars Industry totaled \$927 million. This amount included shipments of railroad and street cars (primary products) valued at \$813 million, shipments of other products (secondary products) valued at \$83 million, and miscellaneous receipts (including products bought and resold) at \$30 million.

This industry's shipments of railroad and street cars represented 91 percent of its total product shipments. The industry specialization ratio in 1958 was 87 percent. Secondary products shipped by this industry in 1963 include fabricated metal products, n.e.c. (over \$5 million), and other construction machinery and equipment including construction machinery parts, n.e.c. (over \$5 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into subindustries represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 64 percent of the total industry shipments are represented by plants specializing in freight train cars, new; and 31 percent in street cars and parts and accessories for railroad and street cars, and rebuilt passenger and freight train cars.

Shipments of railroad and street cars by this industry represented 93 percent of all shipments of these products (\$871 million) by all industries. In 1958 the coverage ratio was 90 percent. Other industries shipping railroad and street cars and parts include industry 3323, Steel Foundries, \$17 million; and industry 3717, Motor Vehicles and Parts, \$7 million.

The production index for the primary products of the industry increased to 125 in 1963 from the 1958 level of 87. The unit value index for 1963 was 149 compared to 129 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3751—MOTORCYCLES, BICYCLES, AND PARTS

This industry comprises establishments primarily engaged in manufacturing motorcycles, bicycles, and similar equipment and parts. Establishments primarily engaged in assembling motorcycles or bicycles from purchased parts are also included in this industry. Establishments primarily engaged in manufacturing children's vehicles, except bicycles, are classified in industry 3943. For a detailed list of products of industry 3751, refer to table 6A, product codes 3751013 to 3751081.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Motorcycles, Bicycles, and Parts Industry totaled \$193 million. This amount included shipments of motorcycles, bicycles, and parts (primary products) valued at \$152 million, shipments of other products (secondary products) valued at \$32 million, and miscellaneous receipts (mainly products bought and resold) at \$9 million.

This industry's shipments of motorcycles, bicycles, and parts represented 83 percent of its total product shipments. The industry specialization ratio in 1958 was 84 percent. Secondary products shipped by this industry in 1963 include baby carriages and children's vehicles, except bicycles (over \$10 million), and lawn mowers and parts (over \$2 million).

Shipments of motorcycles, bicycles, and parts by this industry represented 93 percent of all shipments of these products (\$163 million) by all industries. In 1958 the coverage ratio was also 93 percent. Other industries shipping motorcycles, bicycles, and parts include industry 3717, Motor Vehicles and Parts, over \$2 million; and industry 3943, Children's Vehicles, over \$2 million.



The production index for the primary products of the industry increased to 226 in 1963 from the 1958 level of 130. The unit value index for 1963 was 81 compared to 92 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3791—TRAILER COACHES

This industry comprises establishments primarily engaged in manufacturing trailer coaches (mobile dwellings) for attachment to passenger cars. For a detailed list of products of industry 3791, refer to table 6A, product codes 3791021 to 3791041.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Trailer Coaches Industry totaled \$713 million. This amount included shipments of trailer coaches, housing types (primary products), valued at \$686 million, shipments of other products (secondary products) valued at \$15 million, and miscellaneous receipts (mainly products bought and resold) at \$12 million.

This industry's shipments of trailer coaches, housing types, represented 98 percent of its total product shipments. The industry specialization ratio in 1958 was 99 percent.

Shipments of trailer coaches, housing types, by this industry represented 99 percent of all shipments of these products (\$690 million) by all industries. In 1958 the coverage ratio was also 99 percent.

The production index for the primary products of the industry increased to 279 in 1963 from the 1958 level of 195. The unit value index for 1963 was 110 compared to 105 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3799—TRANSPORTATION EQUIPMENT, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing transportation equipment, n.e.c. Establishments primarily engaged in manufacturing industrial trucks, tractors, trailers, and stackers are classified in industry 3537, and children's vehicles, except bicycles, in industry 3943. For a detailed list of products of industry 3799, refer to table 6A, product codes 3799115 to 3799298.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Transportation Equipment, N.E.C., Industry totaled \$167 million. This amount included shipments of transportation equipment, n.e.c. (primary products) valued at \$142 million, shipments of other products (secondary products) valued at \$17 million, and miscellaneous receipts (mainly products bought and resold) at \$9 million.

This industry's shipments of transportation equipment, n.e.c., represented 89 percent of its total product shipments. The industry specialization ratio in 1958 was 86 percent. Secondary products shipped by this industry in 1963 include parts and accessories for passenger cars, trucks, and busses shipped to other than motor vehicle manufacturers (\$3 million).

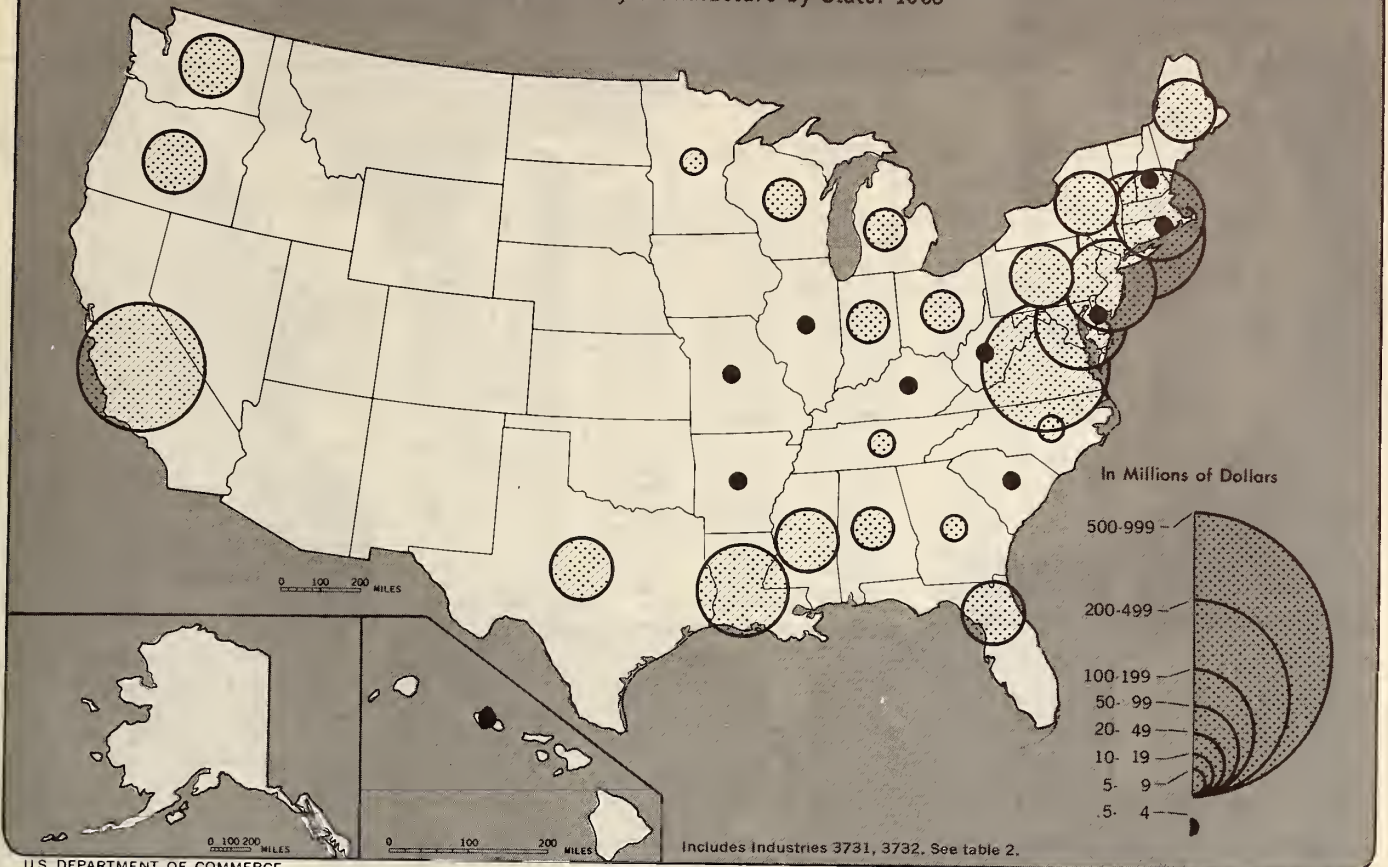
Shipments of transportation equipment, n.e.c., by this industry represented 75 percent of all shipments of these products (\$190 million) by all industries. In 1958 the coverage ratio was 73 percent. Other industries shipping transportation equipment, n.e.c., consisted

mainly of industry 3522, Farm Machinery and Equipment, \$25 million; and industry 3791, Trailer Coaches, \$4 million.

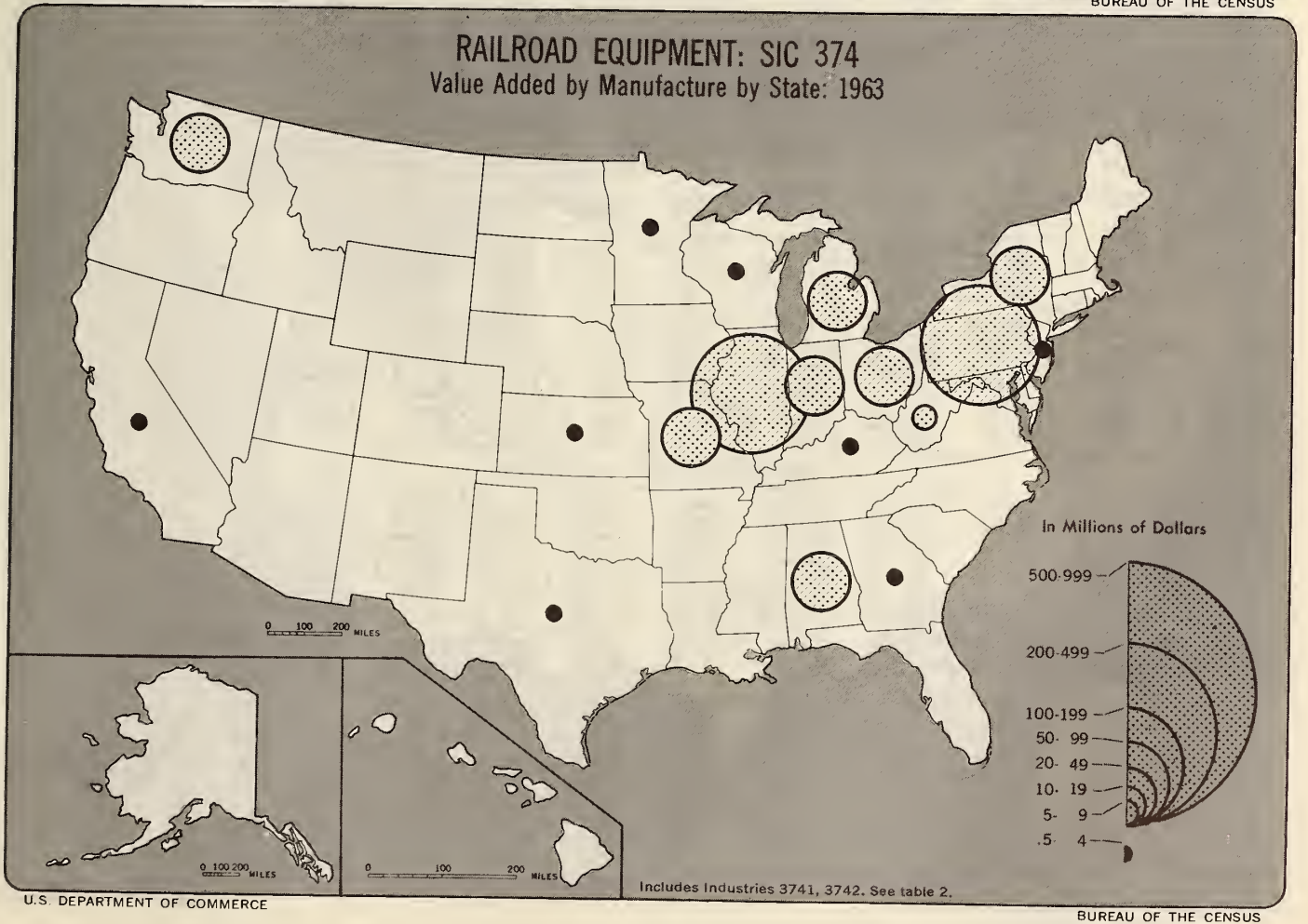
The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3799, e.g., Automobile trailers, excluding housing type coaches, 89 percent; and Other transportation equipment, 62 percent.



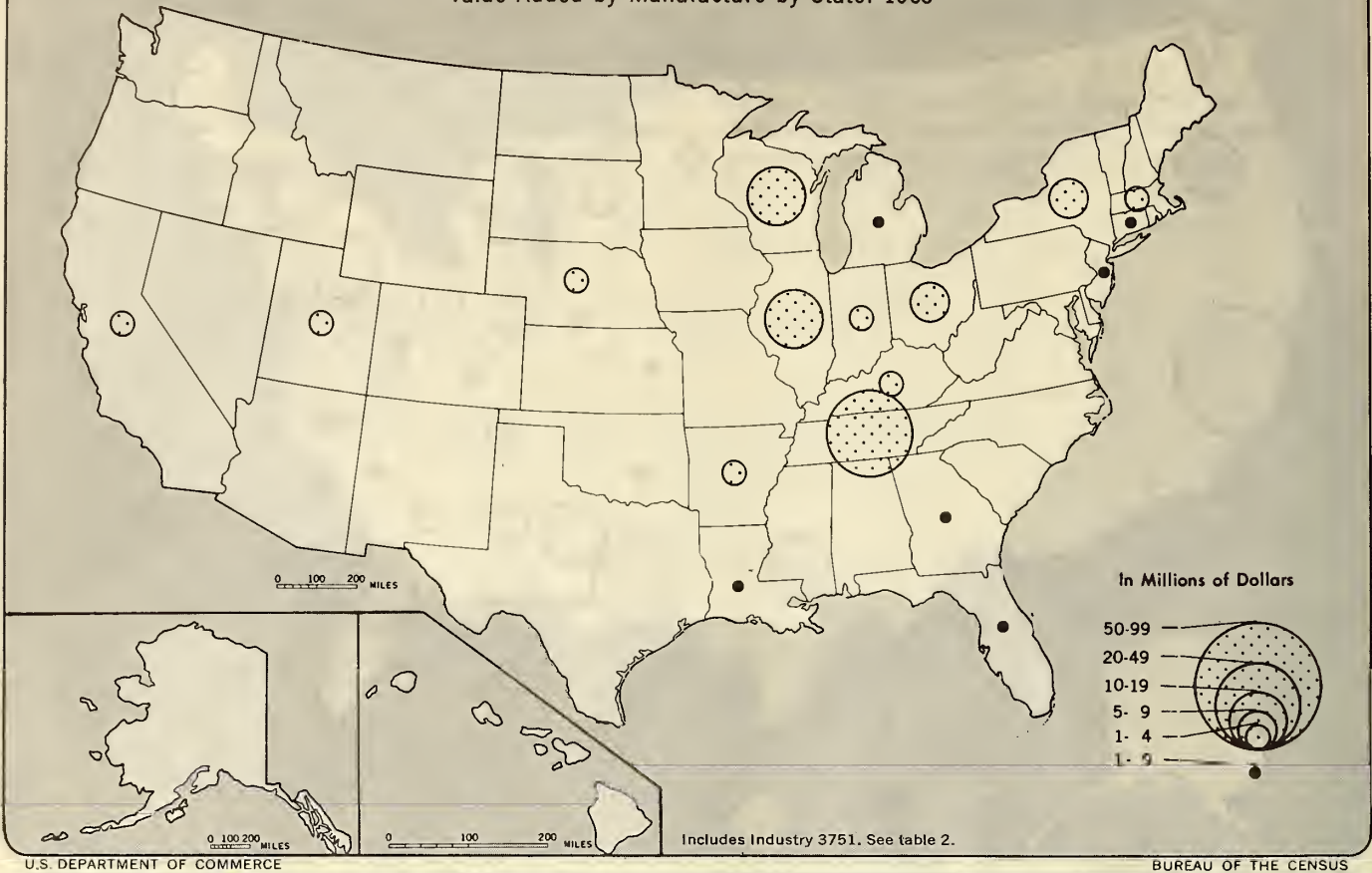
**SHIP AND BOAT BUILDING: SIC 373**  
 Value Added by Manufacture by State: 1963



**RAILROAD EQUIPMENT: SIC 374**  
 Value Added by Manufacture by State: 1963



**MOTORCYCLES, BICYCLES, AND PARTS: SIC 375**  
 Value Added by Manufacture by State: 1963



**TRANSPORTATION EQUIPMENT, N.E.C.: SIC 379**  
 Value Added by Manufacture by State: 1963

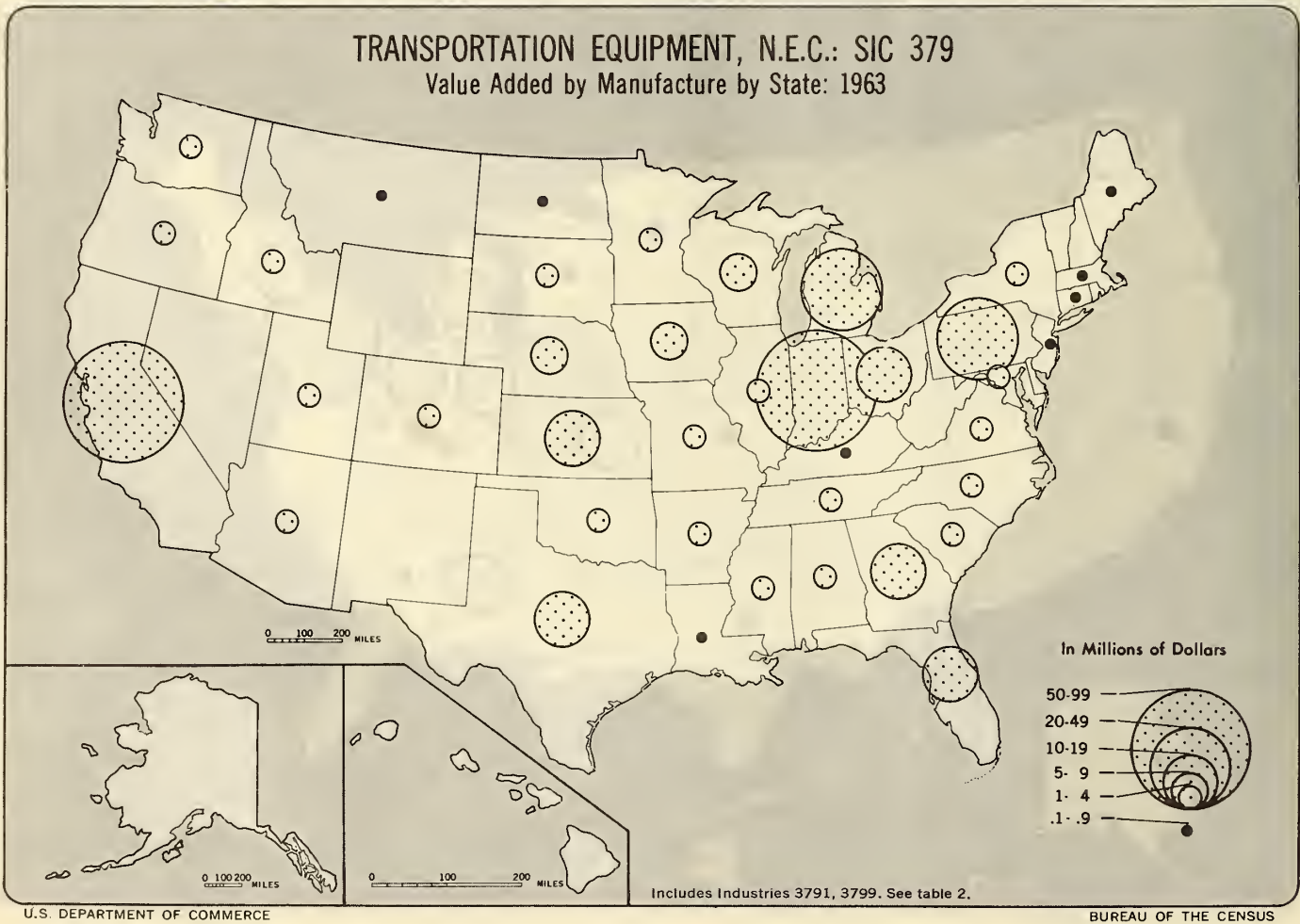




TABLE 1. General Statistics: 1963 and Earlier Years

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3731.—SHIP BUILDING AND REPAIRING   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 305                        | 334               | 200  | 114,649           | 782,299              | 96,527             | 193,512              | 610,250            | <sup>1</sup> 1,009,690                                     | 670,075                           | <sup>2</sup> 1,679,765             | 24,477  | 92  | 99                                       |
| 1962 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 111,613           | 732,722              | 94,065             | 186,243              | 577,392            | <sup>1</sup> 953,857                                       | 716,345                           | <sup>2</sup> 1,670,202             | 23,014  | (NA)  | (NA)                                     |
| 1961 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 114,215           | 728,708              | 95,730             | 187,625              | 569,244            | <sup>1</sup> 919,666                                       | 701,187                           | <sup>2</sup> 1,621,204             | 31,648  | (NA)  | (NA)                                     |
| 1960 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 107,694           | 670,470              | 90,132             | 179,721              | 521,641            | <sup>1</sup> 860,050                                       | 600,638                           | <sup>2</sup> 1,460,688             | 28,868  | (NA)  | (NA)                                     |
| 1959 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 116,272           | 673,230              | 96,291             | 186,089              | 519,390            | <sup>1</sup> 951,950                                       | 614,111                           | <sup>2</sup> 1,566,061             | 33,762  | (NA)  | (NA)                                     |
| 1958.....  | 286                        | 319               | 222  | 119,147           | 669,826              | 101,153            | 197,707              | 537,814            | <sup>1</sup> 913,687                                       | 711,937                           | <sup>2</sup> 1,625,624             | 38,737  | 93  | 99                                       |
| 1957 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 121,738           | 653,534              | 106,115            | 207,898              | 542,450            | <sup>1</sup> 842,193                                       | 672,675                           | <sup>2</sup> 1,514,367             | 57,985  | 91  | 99                                       |
| 1956 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 107,245           | 545,725              | 93,056             | 181,155              | 449,593            | <sup>1</sup> 685,898                                       | 497,906                           | <sup>2</sup> 1,183,289             | 36,465  | (NA)  | (NA)                                     |
| 1955 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 101,767           | 486,797              | 88,148             | 172,520              | 404,535            | <sup>1</sup> 651,516                                       | 401,413                           | <sup>2</sup> 1,052,463             | 19,439  | (NA)  | (NA)                                     |
| 1954.....  | 328                        | 355               | 245  | 109,451           | 504,470              | 96,196             | 187,982              | 421,791            | <sup>1</sup> 692,796                                       | 391,445                           | <sup>2</sup> 1,084,242             | 19,316  | 92  | 99                                       |
| 1953 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 136,562           | 602,169              | 120,686            | 241,576              | 512,191            | 802,794  | 511,064                           | 1,313,858                          | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 140,669           | 592,603              | 123,814            | 246,734              | 503,233            | 774,775  | 561,823                           | 1,336,598                          | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 107,694           | 416,074              | 92,217             | 180,691              | 334,671            | 501,997  | 382,839                           | 884,836                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 74,938            | 253,730              | 62,334             | 116,635              | 194,855            | 326,767  | 239,582                           | 566,349                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 90,969            | (NA)                 | 76,673             | 145,491              | (NA)               | 390,862  | 310,294                           | 701,156                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....  | 272                        | 302               | (NA)   | 130,805           | 417,829              | 115,232            | 234,103              | 352,401            | 520,363  | 282,198                           | 802,561                            | (NA)  | 94  | 98                                       |
| INDUSTRY 3732.—BOAT BUILDING AND REPAIRING   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 1,596                      | 1,626             | 268  | 24,861            | 116,140              | 20,867             | 42,011               | 91,443             | 183,059  | 183,207                           | 360,208                            | 13,472  | 97  | 95                                       |
| 1962 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 22,659            | 104,328              | 18,804             | 39,993               | 80,707             | 148,051  | 174,482                           | 314,400                            | (12,420)  | (NA)  | (NA)                                     |
| 1961 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 22,671            | 100,641              | 18,717             | 39,980               | 77,485             | 138,146  | 175,847                           | 316,608                            | (17,852)  | (NA)  | (NA)                                     |
| 1960 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 26,048            | 110,070              | 21,991             | 42,914               | 85,037             | 154,413  | 205,643                           | 360,670                            | (22,523)  | (NA)  | (NA)                                     |
| 1959 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 29,056            | 121,538              | 24,862             | 49,875               | 96,537             | 176,409  | 216,424                           | 389,381                            | (16,622)  | (NA)  | (NA)                                     |
| 1958.....  | 1,626                      | 1,651             | 277  | 25,295            | 103,603              | 21,156             | 40,346               | 81,356             | 157,309  | 178,803                           | 329,009                            | 15,298  | 93  | 95                                       |
| 1957 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 22,416            | 89,727               | 19,587             | 40,127               | 71,561             | 156,235  | 146,104                           | 298,542                            | 5,396   | 94  | 90                                       |
| 1956 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 21,243            | 80,464               | 18,764             | 38,554               | 65,722             | 144,883  | 130,497                           | 268,275                            | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 20,848            | 68,141               | 17,871             | 35,560               | 56,151             | 118,064  | 94,936                            | 207,686                            | (S)   | (NA)  | (NA)                                     |
| 1954.....  | 1,146                      | 1,154             | 189  | 16,900            | 57,599               | 14,709             | 28,630               | 47,112             | 86,305   | 77,422                            | 163,626                            | 4,804   | 93  | 85                                       |
| 1953 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 12,352            | 41,306               | 10,929             | 22,689               | 35,174             | 60,215   | 62,532                            | 122,747                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 11,195            | 37,330               | 9,608              | 18,626               | 31,248             | 54,971   | 45,988                            | 100,959                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 8,856             | 29,326               | 7,670              | 14,886               | 24,285             | 45,466   | 31,426                            | 76,892                             | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 11,706            | 35,679               | 10,188             | 20,310               | 29,645             | 52,924   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 11,486            | (NA)                 | 8,741              | 18,342               | (NA)               | 46,955   | (NA)                              | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1947.....  | 798                        | 808               | (NA)   | 18,850            | 49,756               | 16,801             | 35,013               | 41,970             | 66,195   | 48,179                            | 114,374                            | (NA)  | 83  | 88                                       |
| INDUSTRIES 3731 AND 3732.—TOTAL FOR SHIP BUILDING AND REPAIRING, AND BOAT BUILDING AND REPAIRING FOR 1939 AND EARLIER YEARS <sup>4</sup> |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1939.....  | (NA)                       | 608               | (NA)   | 78,127            | 130,047              | 69,241             | (NA)                 | 107,570            | 179,898  | 158,374                           | 338,272                            | (NA)  | (NA)  | (NA)                                     |
| 1937.....  | (NA)                       | 544               | (NA)   | 69,887            | 112,977              | 62,274             | (NA)                 | 93,746             | 149,045  | 101,412                           | 250,457                            | (NA)  | (NA)  | (NA)                                     |
| 1935.....  | (NA)                       | 556               | (NA)   | 51,321            | 70,309               | 44,830             | (NA)                 | 55,422             | 93,791   | 61,109                            | 154,900                            | (NA)  | (NA)  | (NA)                                     |
| 1933.....  | (NA)                       | 395               | (NA)   | 34,753            | 41,384               | 30,885             | (NA)                 | 33,890             | 61,524   | 31,172                            | 92,696                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....  | (NA)                       | 518               | (NA)   | (NA)              | (NA)                 | 45,262             | (NA)                 | 62,028             | 114,671  | 72,322                            | 186,993                            | (NA)  | (NA)  | (NA)                                     |
| 1929.....  | (NA)                       | 624               | (NA)   | 61,024            | 103,992              | 55,089             | (NA)                 | 88,274             | 145,451  | 85,849                            | 231,300                            | (NA)  | (NA)  | (NA)                                     |
| 1927.....  | (NA)                       | 559               | (NA)   | 60,494            | 101,688              | 55,014             | (NA)                 | 87,081             | 132,501  | 78,626                            | 271,127                            | (NA)  | (NA)  | (NA)                                     |
| 1925.....  | (NA)                       | 565               | (NA)   | 55,383            | 87,324               | 50,224             | (NA)                 | 74,275             | 110,883  | 66,299                            | 177,182                            | (NA)  | (NA)  | (NA)                                     |
| 1923.....  | (NA)                       | 567               | (NA)   | 67,999            | 105,248              | 62,287             | (NA)                 | 90,720             | 128,674  | 84,558                            | 213,232                            | (NA)  | (NA)  | (NA)                                     |
| 1921.....  | (NA)                       | 640               | (NA)   | 114,257           | 179,844              | 106,445            | (NA)                 | 155,943            | 231,466  | 169,368                           | 400,834                            | (NA)  | (NA)  | (NA)                                     |
| 1919.....  | (NA)                       | 1,075             | (NA)   | 412,420           | 662,561              | 387,446            | (NA)                 | 597,447            | 911,838  | 710,523                           | 1,622,361                          | (NA)  | (NA)  | (NA)                                     |
| 1914.....  | (NA)                       | 1,147             | (NA)   | 47,475            | 37,690               | 44,489             | (NA)                 | 32,931             | 50,085   | 38,597                            | 88,682                             | (NA)  | (NA)  | (NA)                                     |
| 1909.....  | (NA)                       | 1,353             | (NA)   | 43,486            | 29,303               | 40,506             | (NA)                 | 25,268             | 42,146   | 31,214                            | 73,360                             | (NA)  | (NA)  | (NA)                                     |
| 1904.....  | (NA)                       | 1,097             | (NA)   | 53,234            | 32,581               | 50,754             | (NA)                 | 29,241             | 45,306   | 37,463                            | 82,769                             | (NA)  | (NA)  | (NA)                                     |
| 1899.....  | (NA)                       | 1,107             | (NA)   | 48,152            | 26,832               | 46,747             | (NA)                 | 24,825             | 41,057   | 33,475                            | 74,332                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3741.—LOCOMOTIVES AND PARTS   |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 23                         | 24                | 12   | 14,337            | 99,696               | 10,648             | 20,803               | 67,405             | 186,241  | 249,785                           | 437,872                            | 7,195   | 83  | 90                                       |
| 1962 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 14,214            | 99,753               | 10,684             | 21,573               | 68,677             | 224,169  | 241,999                           | 443,246                            | 5,231   | (NA)  | (NA)                                     |
| 1961 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 11,955            | 80,080               | 8,183              | 16,051               | 49,067             | 138,804  | 189,562                           | 343,992                            | 2,755   | (NA)  | (NA)                                     |
| 1960 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 13,519            | 91,667               | 9,295              | 19,651               | 58,500             | 176,045  | 218,992                           | 395,847                            | 3,636   | (NA)  | (NA)                                     |
| 1959 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 14,888            | 94,624               | 10,577             | 21,134               | 61,774             | 204,925  | 245,458                           | 434,637                            | (2,576)   | (NA)  | (NA)                                     |
| 1958.....  | 24                         | 25                | 13   | 15,282            | 90,097               | 10,742             | 21,092               | 58,332             | 152,086  | 224,754                           | 407,540                            | 5,275   | 85  | 90                                       |
| 1957 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 20,790            | 115,897              | 16,064             | 31,801               | 83,522             | 242,227  | 345,910                           | 613,110                            | 12,191  | (NA)  | (NA)                                     |
| 1956 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 23,841            | 134,612              | 18,499             | 38,768               | 96,010             | 303,962  | 370,781                           | 645,378                            | 15,006  | (NA)  | (NA)                                     |
| 1955 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 21,372            | 115,484              | 16,717             | 34,026               | 82,124             | 233,865  | 270,404                           | 478,871                            | 6,921   | (NA)  | (NA)                                     |
| 1954.....  | 25                         | 29                | 23   | 20,891            | 104,274              | 15,968             | 31,439               | 70,575             | 164,006  | 254,656                           | 444,418                            | 6,370   | 82  | 95                                       |
| 1953 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 28,636            | 127,855              | 22,409             | 43,437               | 95,696             | 227,239  | 373,778                           | 601,017                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 30,647            | 142,313              | 24,804             | 51,794               | 107,731            | 275,573  | 456,647                           | 732,220                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 33,742            | 143,334              | 27,254             | 55,198               | 111,323            | 304,025  | 488,128                           | 792,153                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 30,089            | 114,588              | 24,194             | 47,926               | 87,316             | 223,775  | 422,427                           | 646,202                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>3</sup> .....  | (NA)                       | (NA)              | (NA)   | 29,798            | 117,533              | 23,243             | 51,126               | 89,091             | 204,440  | 403,273                           | 607,713                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....  | 33                         | 36                | (NA)   | 30,419            | 97,896               | 25,432             | 50,677               | 78,338             | 143,092  | 212,113                           | 355,205                            | (NA)  | 95  | 83                                       |
| 1939.....  | (NA)                       | 20                | (NA)   | (NA)              | 6,998                | (NA)               | 10,486               | (NA)               | 23,450   | 27,903                            | 51,353                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....  | (NA)                       | 13                | (NA)   | 10,989            | 19,336               | 9,000              | (NA)                 | 14,845             | 32,857   | 39,266                            | 72,123                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....  | (NA)                       | 14                | (NA)   | 4,734             | 5,925                | 3,790              | (NA)                 | 3,972              | 7,890  | 9,493                             | 17,383                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....  | (NA)                       | 13                | (NA)   | 3,200             | 3,292                | 2,374              | (NA)                 | 1,863              | 2,661  | 4,266                             | 6,927                              | (NA)  | (NA)  | (NA)                                     |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Companies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Speci-<br>alization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|-----------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|---|-----------------------------------|------------------------------------|---|--|--|
|   |                       | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                   |                                    |   |  |  |
| INDUSTRY 3741.—LOCOMOTIVES AND PARTS—Continued  |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1931.....                                       | (NA)                  | 16                | (NA)   | (NA)              | (NA)                 | 5,443              | (NA)                 | 5,590              | 7,248   | 14,871                            | 22,119                             | (NA)  | (NA)   | (NA)                                     |
| 1929.....                                       | (NA)                  | 16                | (NA)   | 12,846            | 23,514               | 11,045             | (NA)                 | 17,994             | 31,050  | 52,808                            | 83,858                             | (NA)  | (NA)   | (NA)                                     |
| 1927.....                                       | (NA)                  | 17                | (NA)   | 14,611            | 22,632               | 12,961             | (NA)                 | 17,648             | 31,031  | 45,688                            | 76,719                             | (NA)  | (NA)   | (NA)                                     |
| 1925.....                                       | (NA)                  | 18                | (NA)   | 14,673            | 23,456               | 12,809             | (NA)                 | 18,219             | 23,672  | 41,717                            | 65,389                             | (NA)  | (NA)   | (NA)                                     |
| 1921.....                                       | (NA)                  | 22                | (NA)   | 18,327            | 24,576               | 16,583             | (NA)                 | 20,473             | 46,611  | 55,412                            | 102,023                            | (NA)  | (NA)   | (NA)                                     |
| 1919.....                                       | (NA)                  | 17                | (NA)   | 28,741            | 43,577               | 26,715             | (NA)                 | 38,799             | 83,894  | 72,376                            | 156,270                            | (NA)  | (NA)   | (NA)                                     |
| 1914.....                                       | (NA)                  | 19                | (NA)   | 19,047            | 17,862               | 17,391             | (NA)                 | 11,085             | 19,828  | 23,546                            | 43,374                             | (NA)  | (NA)   | (NA)                                     |
| 1909.....                                       | (NA)                  | 16                | (NA)   | 16,938            | 11,211               | 14,909             | (NA)                 | 8,914              | 16,522  | 15,060                            | 31,582                             | (NA)  | (NA)   | (NA)                                     |
| 1904.....                                       | (NA)                  | 15                | (NA)   | 25,970            | 17,474               | 24,806             | (NA)                 | 15,798             | 31,849  | 27,703                            | 59,552                             | (NA)  | (NA)   | (NA)                                     |
| 1899.....                                       | (NA)                  | 28                | (NA)   | (NA)              | (NA)                 | 19,039             | (NA)                 | 10,900             | 15,035  | 20,174                            | 35,209                             | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3742.—RAILROAD AND STREET CARS         |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                                       | 68                    | 78                | 58   | 30,742            | 201,999              | 24,254             | 47,246               | 150,135            | 355,230   | 591,023                           | 927,184                            | 10,877  | 91   | 93                                       |
| 1962 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 27,418            | 179,590              | 20,892             | 40,479               | 128,137            | 276,976   | 418,357                           | 665,708                            | 11,902  | (NA)   | (NA)                                     |
| 1961 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 22,625            | 144,812              | 16,698             | 31,157               | 96,680             | 184,217   | 335,371                           | 538,920                            | 8,542   | (NA)   | (NA)                                     |
| 1960 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 28,728            | 170,659              | 23,077             | 42,375               | 124,787            | 275,241   | 461,949                           | 723,014                            | 8,513   | (NA)   | (NA)                                     |
| 1959 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 23,418            | 139,246              | 17,926             | 33,623               | 96,909             | 246,037   | 311,119                           | 513,397                            | 9,339   | (NA)   | (NA)                                     |
| 1958.....                                       | 56                    | 67                | 44   | 24,309            | 133,302              | 17,872             | 32,565               | 91,089             | 167,576   | 310,796                           | 562,190                            | 8,635   | 87   | 90                                       |
| 1957 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 35,950            | 198,577              | 29,498             | 57,767               | 151,982            | 362,233   | 593,396                           | 939,846                            | 11,968  | 88   | 91                                       |
| 1956 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 31,837            | 164,428              | 25,963             | 51,250               | 125,232            | 288,106   | 451,956                           | 725,138                            | 18,316  | (NA)   | (NA)                                     |
| 1955 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 31,420            | 149,431              | 25,171             | 49,341               | 113,497            | 247,929   | 355,936                           | 568,975                            | 16,124  | (NA)   | (NA)                                     |
| 1954.....                                       | 47                    | 57                | 40   | 30,683            | 139,261              | 23,828             | 44,969               | 102,457            | 164,044   | 282,978                           | 499,294                            | 19,074  | 83   | 86                                       |
| 1953 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 45,642            | 206,751              | 37,742             | 75,706               | 163,788            | 324,742   | 509,905                           | 834,647                            | (NA)  | (NA)   | (NA)                                     |
| 1952 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 43,354            | 181,225              | 35,637             | 69,472               | 140,570            | 265,695   | 443,499                           | 709,194                            | (NA)  | (NA)   | (NA)                                     |
| 1951 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 47,702            | 186,437              | 38,800             | 76,320               | 143,919            | 292,547   | 535,911                           | 828,458                            | (NA)  | (NA)   | (NA)                                     |
| 1950 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 39,503            | 138,520              | 31,309             | 60,123               | 101,575            | 204,078   | 357,564                           | 561,642                            | (NA)  | (NA)   | (NA)                                     |
| 1949 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 52,457            | 179,843              | 42,440             | 82,745               | 136,483            | 267,917   | 505,266                           | 773,183                            | (NA)  | (NA)   | (NA)                                     |
| 1947.....                                       | 68                    | 87                | (NA)   | 60,851            | 186,107              | 50,292             | 101,184              | 146,848            | 273,130   | 453,037                           | 726,167                            | (NA)  | 91   | 91                                       |
| 1939.....                                       | (NA)                  | 48                | (NA)   | (NA)              | (NA)                 | 17,711             | (NA)                 | 23,827             | 58,801  | 85,538                            | 144,339                            | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3751.—MOTORCYCLES, BICYCLES, AND PARTS |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                                       | 85                    | 88                | 33   | 9,662             | 48,425               | 7,912              | 15,152               | 34,398             | 82,245  | 112,157                           | 192,851                            | 3,152   | 83   | 93                                       |
| 1962 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 9,028             | 42,944               | 7,314              | 13,974               | 30,972             | 74,162  | 102,861                           | 172,600                            | 3,321   | (NA)   | (NA)                                     |
| 1961 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 8,232             | 38,249               | 6,630              | 12,774               | 26,920             | 59,166  | 93,640                            | 153,065                            | 2,580   | (NA)   | (NA)                                     |
| 1960 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 8,341             | 37,640               | 6,749              | 12,555               | 26,704             | 61,226  | 84,616                            | 143,122                            | 3,102   | (NA)   | (NA)                                     |
| 1959 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 8,664             | 38,687               | 7,108              | 13,820               | 28,551             | 66,952  | 86,514                            | 149,734                            | 3,267   | (NA)   | (NA)                                     |
| 1958.....                                       | 49                    | 51                | 29   | 7,578             | 33,020               | 6,179              | 12,213               | 24,115             | 52,125  | 69,106                            | 121,527                            | 2,549   | 84   | 93                                       |
| 1957 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 8,419             | 35,205               | 6,972              | 13,374               | 27,024             | 53,819  | 73,590                            | 127,409                            | (S)   | (NA)   | (NA)                                     |
| 1956 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 7,584             | 31,580               | 6,337              | 12,240               | 24,843             | 49,381  | 70,874                            | 120,255                            | 2,671   | (NA)   | (NA)                                     |
| 1955 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 8,088             | 32,443               | 6,589              | 12,804               | 25,646             | 47,962  | 72,005                            | 117,965                            | 1,747   | (NA)   | (NA)                                     |
| 1954.....                                       | 44                    | 46                | 29   | 7,061             | 28,060               | 5,979              | 11,121               | 21,639             | 40,177  | 57,983                            | 100,477                            | 1,476   | 86   | 92                                       |
| 1953 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 9,340             | 36,808               | 8,068              | 15,686               | 29,717             | 52,376  | 83,429                            | 135,805                            | 1,829   | (NA)   | (NA)                                     |
| 1952 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 10,178            | 43,391               | 8,720              | 17,800               | 35,188             | 65,405  | 71,311                            | 136,716                            | 2,190   | (NA)   | (NA)                                     |
| 1951 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 9,448             | 37,185               | 8,034              | 16,231               | 29,052             | 54,009  | 68,506                            | 122,515                            | 3,122   | (NA)   | (NA)                                     |
| 1950 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 10,895            | 35,547               | 8,565              | 17,218               | 28,269             | 52,098  | 64,696                            | 116,794                            | 2,066   | (NA)   | (NA)                                     |
| 1949 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 9,531             | 31,269               | 7,986              | 14,880               | 23,176             | 47,308  | 56,390                            | 103,698                            | 1,526   | (NA)   | (NA)                                     |
| 1947.....                                       | 75                    | 76                | 40   | 15,615            | 45,661               | 13,659             | 28,245               | 37,732             | 72,838  | 90,832                            | 163,670                            | 4,600   | 87   | 89                                       |
| 1939.....                                       | (NA)                  | 36                | (NA)   | 8,302             | 11,863               | 6,973              | (NA)                 | 8,974              | 19,011  | 24,041                            | 43,052                             | (NA)  | (NA)   | (NA)                                     |
| 1937.....                                       | (NA)                  | 29                | (NA)   | 7,816             | 10,076               | 6,938              | (NA)                 | 8,207              | 16,251  | 19,793                            | 36,044                             | (NA)  | (NA)   | (NA)                                     |
| 1935.....                                       | (NA)                  | 23                | (NA)   | 5,773             | 6,562                | 5,093              | (NA)                 | 5,214              | 10,273  | 12,813                            | 23,086                             | (NA)  | (NA)   | (NA)                                     |
| 1933.....                                       | (NA)                  | 19                | (NA)   | 3,433             | 3,204                | 3,038              | (NA)                 | 2,639              | 5,893   | 6,162                             | 12,055                             | (NA)  | (NA)   | (NA)                                     |
| 1931.....                                       | (NA)                  | 19                | (NA)   | (NA)              | (NA)                 | 3,294              | (NA)                 | 3,563              | 8,177   | 5,520                             | 13,697                             | (NA)  | (NA)   | (NA)                                     |
| 1929.....                                       | (NA)                  | 21                | (NA)   | 5,114             | 8,019                | 4,392              | (NA)                 | 6,264              | 12,614  | 11,281                            | 23,895                             | (NA)  | (NA)   | (NA)                                     |
| 1927.....                                       | (NA)                  | 29                | (NA)   | 4,594             | 6,984                | 3,897              | (NA)                 | 5,442              | 11,280  | 10,174                            | 21,454                             | (NA)  | (NA)   | (NA)                                     |
| 1925.....                                       | (NA)                  | 36                | (NA)   | 4,962             | 7,317                | 4,193              | (NA)                 | 5,662              | 12,081  | 12,177                            | 24,258                             | (NA)  | (NA)   | (NA)                                     |
| 1923.....                                       | (NA)                  | 39                | (NA)   | 7,531             | 10,236               | 6,576              | (NA)                 | 8,010              | 14,256  | 18,003                            | 32,259                             | (NA)  | (NA)   | (NA)                                     |
| 1921.....                                       | (NA)                  | 46                | (NA)   | 5,213             | 6,921                | 4,308              | (NA)                 | 4,981              | 12,775  | 10,323                            | 23,098                             | (NA)  | (NA)   | (NA)                                     |
| 1919.....                                       | (NA)                  | 51                | (NA)   | 12,184            | 14,964               | 10,886             | (NA)                 | 12,763             | 27,120  | 25,986                            | 53,106                             | (NA)  | (NA)   | (NA)                                     |
| 1914.....                                       | (NA)                  | 78                | (NA)   | 7,706             | 5,913                | 6,680              | (NA)                 | 4,739              | 11,306  | 10,928                            | 22,234                             | (NA)  | (NA)   | (NA)                                     |
| 1909.....                                       | (NA)                  | 95                | (NA)   | 4,939             | 3,491                | 4,437              | (NA)                 | 2,908              | 5,616   | 5,083                             | 10,699                             | (NA)  | (NA)   | (NA)                                     |
| 1904.....                                       | (NA)                  | 101               | (NA)   | 3,680             | 2,322                | 3,319              | (NA)                 | 1,971              | 2,525   | 2,628                             | 5,513                              | (NA)  | (NA)   | (NA)                                     |
| 1899.....                                       | (NA)                  | 312               | (NA)   | 19,559            | 9,943                | 17,525             | (NA)                 | 8,190              | 15,124  | 16,792                            | 31,916                             | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3791.—TRAILER COACHES                  |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                                       | 348                   | 413               | 252  | 25,669            | 125,002              | 21,901             | 43,390               | 94,078             | 232,460   | 482,751                           | 713,119                            | 9,584   | 98   | 99                                       |
| 1962 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 21,047            | 97,698               | 17,949             | 31,323               | 73,889             | 153,181   | 356,828                           | 507,583                            | (2,801)   | (NA)   | (NA)                                     |
| 1961 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 20,703            | 88,705               | 17,457             | 29,814               | 64,807             | 135,111   | 328,890                           | 464,133                            | (3,707)   | (NA)   | (NA)                                     |
| 1960 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 22,318            | 93,966               | 18,616             | 34,257               | 68,173             | 159,325   | 364,991                           | 523,765                            | (3,785)   | (NA)   | (NA)                                     |
| 1959 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 21,435            | 95,383               | 18,101             | 34,940               | 69,384             | 159,453   | 386,241                           | 538,654                            | 7,976   | (NA)   | (NA)                                     |
| 1958 (new SIC) <sup>5</sup>                     | 363                   | 386               | 209  | 18,717            | 77,129               | 16,004             | 30,613               | 58,969             | 127,683   | 332,071                           | 461,053                            | 7,726   | 99   | 99                                       |
| 1958 (old SIC) <sup>5</sup>                     | (NA)                  | 505               | 236  | 20,734            | 85,585               | 17,635             | 33,562               | 64,838             | 145,587   | 359,830                           | 506,600                            | 8,011   | (NA)   | (NA)                                     |
| 1957 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 19,362            | 81,994               | 16,531             | 31,438               | 61,938             | 148,864   | 330,190                           | 471,116                            | (S)   | 97   | 99                                       |
| 1956 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 18,087            | 71,904               | 15,625             | 27,826               | 55,662             | 124,198   | 303,205                           | 420,073                            | (S)   | (NA)   | (NA)                                     |
| 1955 <sup>3</sup> .....                         | (NA)                  | (NA)              | (NA)   | 15,036            | 59,725               | 12,983             | 25,128               | 45,872             | 97,759  | 248,658                           | 342,300                            | (S)   | (NA)   | (NA)                                     |
| 1954 <sup>3</sup> .....                         | 267                   | 275               | 125  | 11,131            | 43,874               | 9,491              | 18,592               | 33,031             | 69,175  | 162,051                           | 236,397                            | 2,404   | 99   | 98                                       |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3799.—TRANSPORTATION EQUIPMENT, N.E.C. |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                       | 507                        | 522               | 108  | 8,032             | 37,547               | 6,652              | 13,183               | 27,788             | 68,823   | 99,379                            | 167,375                            | 3,710   | 89  | 75                                       |
| 1962 <sup>3</sup> .....                         | (NA)                       | (NA)              | (NA)   | 5,796             | 28,117               | 4,743              | 9,163                | 18,535             | 45,193   | 78,300                            | 122,959                            | (926)   | (NA)  | (NA)                                     |
| 1961 <sup>3</sup> .....                         | (NA)                       | (NA)              | (NA)   | 5,850             | 27,391               | 4,595              | 9,495                | 17,541             | 40,636   | 70,792                            | 111,148                            | 1,062   | (NA)  | (NA)                                     |
| 1960 <sup>3</sup> .....                         | (NA)                       | (NA)              | (NA)   | 5,958             | 28,303               | 4,908              | 9,619                | 18,890             | 43,025   | 73,768                            | 115,852                            | 2,293   | (NA)  | (NA)                                     |
| 1959 <sup>3</sup> .....                         | (NA)                       | (NA)              | (NA)   | 5,488             | 24,859               | 4,330              | 8,869                | 17,385             | 40,721   | 73,951                            | 113,390                            | (2,316)   | (NA)  | (NA)                                     |
| 1958 (new SIC) <sup>5</sup>                     | 253                        | 256               | 69   | 4,761             | 20,448               | 3,795              | 7,360                | 14,173             | 38,215   | 55,095                            | 92,811                             | 2,430   | 86  | 73                                       |
| 1958 (old SIC) <sup>5</sup>                     | (NA)                       | 133               | 40   | 2,530             | 10,802               | 1,997              | 4,072                | 7,505              | 17,672   | 26,660                            | 44,066                             | 1,305   | (NA)  | (NA)                                     |
| 1957 <sup>3</sup> .....                         | (NA)                       | (NA)              | (NA)   | 1,655             | 7,123                | 1,215              | 2,693                | 4,439              | 14,225   | (NA)                              | (NA)                               | 5,013   | (NA)  | (NA)                                     |
| 1956 <sup>3</sup> .....                         | (NA)                       | (NA)              | (NA)   | 1,626             | 6,685                | 1,310              | 2,681                | 4,689              | 11,322   | 13,826                            | 24,951                             | (NA)  | (NA)  | (NA)                                     |
| 1955 <sup>3</sup> .....                         | (NA)                       | (NA)              | (NA)   | 1,651             | 6,269                | 1,347              | 2,935                | 4,584              | 12,703   | 15,163                            | 26,978                             | (NA)  | (NA)  | (NA)                                     |
| 1954.....                                       | 108                        | 108               | 21   | 1,636             | 5,637                | 1,359              | 2,786                | 4,135              | 10,042   | 11,724                            | 21,870                             | 561   | 92  | 44                                       |
| 1952 <sup>3</sup> .....                         | (NA)                       | (NA)              | (NA)   | 1,950             | 7,261                | 1,683              | 3,680                | 5,623              | 13,560   | 17,777                            | 31,337                             | 920   | (NA)  | (NA)                                     |
| 1951 <sup>3</sup> .....                         | (NA)                       | (NA)              | (NA)   | 2,516             | 8,709                | 2,155              | 4,702                | 6,733              | 15,366   | 20,533                            | 35,899                             | 1,061   | (NA)  | (NA)                                     |
| 1950 <sup>3</sup> .....                         | (NA)                       | (NA)              | (NA)   | 2,774             | 8,866                | 2,252              | 4,848                | 6,433              | 14,439   | 19,382                            | 33,821                             | 986   | (NA)  | (NA)                                     |
| 1949 <sup>3</sup> .....                         | (NA)                       | (NA)              | (NA)   | 3,152             | 9,035                | 2,519              | 4,986                | 6,122              | 13,397   | 17,861                            | 31,258                             | 954   | (NA)  | (NA)                                     |
| 1947.....                                       | (NA)                       | 168               | (NA)   | 4,584             | 11,658               | 3,890              | (NA)                 | 8,794              | 20,663   | 26,180                            | 46,843                             | 1,227   | 75  | 65                                       |
| 1939.....                                       | (NA)                       | 41                | (NA)   | 1,543             | 1,725                | 1,252              | (NA)                 | 1,150              | 3,145  | 3,124                             | 6,269                              | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                       | (NA)                       | 43                | (NA)   | 2,122             | 2,321                | 1,823              | (NA)                 | 1,723              | 4,505  | 4,633                             | 9,138                              | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                       | (NA)                       | 45                | (NA)   | 1,858             | 1,767                | 1,592              | (NA)                 | 1,284              | 3,162  | 3,683                             | 6,845                              | (NA)  | (NA)  | (NA)                                     |
| 1933.....                                       | (NA)                       | 53                | (NA)   | 1,610             | 1,196                | 1,409              | (NA)                 | 922                | 2,403  | 2,350                             | 4,753                              | (NA)  | (NA)  | (NA)                                     |
| 1931.....                                       | (NA)                       | 70                | (NA)   | (NA)              | (NA)                 | 1,321              | (NA)                 | 1,199              | 2,666  | 2,494                             | 5,160                              | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: **All employees:** For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** For 1947 and prior years figures represent an average of 12 monthly figures. **Value added:** Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. **Cost of materials:** Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. **Value of shipments:** Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>For the period 1954-1963 the adjusted value added figure for the ship building and repairing industry has not been adjusted for the change in inventory between the beginning and end of the year, since the figures reported by establishments in this industry are value of work rather than value of shipments. It does include the value added by resales. For prior years, this figure is unadjusted value added.

<sup>2</sup>Represents value of work done rather than value of shipments.

<sup>3</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>4</sup>For 1939 and prior years separate industry figures for "Ship building and repairing" and "Boat building and repairing" are not available. However, for the period 1899-1939 combined data for the two industries are shown.

<sup>5</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that data for prior years are not strictly comparable.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>               | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                        | 1958                      |                  |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|------------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments     | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                        |                           |                  |                                      |
| INDUSTRY 3731.—SHIP BUILDING AND REPAIRING |                |                                    |                |                   |                    |                   |                 |                                      |                   |                        |                           |                  |                                      |
| Total.....                                 | 334            | 200                                | 114,649        | 782,299           | 96,527             | 193,512           | 610,250         | <sup>2</sup> 1,009,690               | 670,075           | <sup>3</sup> 1,679,765 | 24,477                    | 119,147          | <sup>2</sup> 913,687                 |
| New England.....                           | 33             | 15                                 | 23,271         | 183,647           | 16,651             | 36,866            | 109,599         | 229,588                              | 134,632           | 364,220                | 6,554                     | 21,288           | 198,651                              |
| Middle Atlantic....                        | 77             | 44                                 | 16,455         | 113,831           | 14,345             | 27,904            | 94,053          | 144,817                              | 85,057            | 229,874                | 2,396                     | 22,921           | 171,980                              |
| New York.....                              | 45             | 23                                 | 3,718          | 25,036            | 3,123              | 5,963             | 20,246          | 35,997                               | 21,478            | 57,475                 | 241                       | 6,535            | 49,908                               |
| New Jersey.....                            | 23             | 14                                 | 7,944          | 56,735            | 7,218              | 13,874            | 49,118          | 73,212                               | 31,735            | 104,947                | 1,545                     | 12,060           | 91,396                               |
| Pennsylvania.....                          | 9              | 7                                  | 4,793          | 32,060            | 4,004              | 8,067             | 24,689          | 35,608                               | 31,844            | 67,452                 | 610                       | 4,326            | 30,676                               |
| East North Central.                        | 27             | 15                                 | 3,806          | 22,320            | 3,275              | 6,499             | 18,087          | 31,538                               | 30,339            | 61,877                 | 824                       | ( <sup>4</sup> ) | ( <sup>4</sup> )                     |
| Wisconsin.....                             | 7              | 6                                  | 1,585          | 8,836             | 1,369              | 2,747             | 7,079           | 14,001                               | 10,534            | 24,535                 | 390                       | 2,087            | 16,319                               |
| West North Central.                        | 6              | 3                                  | 145            | 753               | 124                | 229               | 585             | 1,428                                | 518               | 1,946                  | 21                        | ( <sup>4</sup> ) | ( <sup>4</sup> )                     |
| South Atlantic....                         | 64             | 44                                 | 34,660         | 227,603           | 31,035             | 60,846            | 197,323         | 289,731                              | 145,181           | 434,912                | 5,538                     | 30,876           | 221,960                              |
| North Carolina....                         | 5              | 3                                  | 236            | 1,177             | 208                | 494               | 1,007           | 1,819                                | 1,679             | 3,498                  | 34                        | ( <sup>4</sup> ) | ( <sup>4</sup> )                     |
| Florida.....                               | 28             | 15                                 | 3,496          | 18,649            | 3,129              | 6,151             | 16,031          | 25,343                               | 17,243            | 42,586                 | 616                       | 3,907            | 21,797                               |
| East South Central.                        | 16             | 12                                 | 8,764          | 53,389            | 7,456              | 14,091            | 40,832          | 53,567                               | 57,809            | 111,376                | 2,747                     | 13,587           | 89,350                               |
| West South Central.                        | 50             | 32                                 | 11,977         | 75,415            | 10,337             | 21,607            | 62,532          | 106,515                              | 90,819            | 197,334                | 3,291                     | 9,924            | 74,767                               |
| Louisiana.....                             | 26             | 17                                 | 7,189          | 45,902            | 6,317              | 13,935            | 39,401          | 64,831                               | 58,133            | 122,964                | 1,952                     | 5,835            | 41,225                               |
| Pacific.....                               | 61             | 35                                 | 15,571         | 105,341           | 13,304             | 25,470            | 87,239          | 152,506                              | 125,720           | 278,226                | 3,106                     | 13,351           | 106,272                              |
| Oregon.....                                | 5              | 3                                  | 1,977          | 11,829            | 1,565              | 2,836             | 8,951           | 19,716                               | 15,934            | 35,650                 | 337                       | ( <sup>4</sup> ) | ( <sup>4</sup> )                     |
| California.....                            | 37             | 24                                 | 9,254          | 63,787            | 7,875              | 14,998            | 52,138          | 92,636                               | 72,201            | 164,837                | 688                       | 8,254            | 63,703                               |
| INDUSTRY 3732.—BOAT BUILDING AND REPAIRING |                |                                    |                |                   |                    |                   |                 |                                      |                   |                        |                           |                  |                                      |
| Total.....                                 | 1,626          | 268                                | 24,861         | 116,140           | 20,867             | 42,011            | 91,443          | 183,059                              | 183,207           | 360,208                | 13,472                    | 25,295           | 157,309                              |
| New England.....                           | 196            | 33                                 | 2,497          | 11,639            | 2,121              | 4,437             | 9,164           | 19,447                               | 16,437            | 35,679                 | 1,424                     | 1,890            | 10,844                               |
| Maine.....                                 | 56             | 8                                  | 494            | 1,707             | 406                | 843               | 1,418           | 2,649                                | 2,396             | 5,015                  | 225                       | 557              | 2,276                                |
| Rhode Island.....                          | 20             | 4                                  | 434            | 1,877             | 362                | 731               | 1,318           | 3,695                                | 3,608             | 7,350                  | 200                       | ( <sup>4</sup> ) | ( <sup>4</sup> )                     |
| Connecticut.....                           | 30             | 5                                  | 290            | 1,541             | 242                | 505               | 1,099           | 2,844                                | 1,928             | 4,751                  | 471                       | 294              | 1,832                                |
| Middle Atlantic....                        | 224            | 44                                 | 3,790          | 18,144            | 3,143              | 6,302             | 14,338          | 28,758                               | 25,314            | 52,656                 | 1,927                     | 3,490            | 17,395                               |
| New York.....                              | 109            | 23                                 | 1,759          | 8,317             | 1,455              | 2,890             | 6,572           | 12,915                               | 9,633             | 21,843                 | 927                       | 1,668            | 5,718                                |
| New Jersey.....                            | 97             | 17                                 | 1,247          | 6,119             | 1,075              | 2,141             | 5,081           | 9,563                                | 7,705             | 17,112                 | 647                       | 1,108            | 6,852                                |
| Pennsylvania.....                          | 18             | 4                                  | 784            | 3,708             | 613                | 1,271             | 2,685           | 6,280                                | 7,976             | 13,701                 | 353                       | 714              | 4,825                                |
| East North Central.                        | 169            | 40                                 | 4,636          | 23,126            | 3,847              | 7,761             | 17,840          | 35,420                               | 40,702            | 74,756                 | 1,888                     | ( <sup>4</sup> ) | ( <sup>4</sup> )                     |
| Ohio.....                                  | 24             | 7                                  | 504            | 2,685             | 431                | 832               | 2,109           | 3,975                                | 3,648             | 7,764                  | 90                        | 825              | 5,933                                |
| Michigan.....                              | 53             | 12                                 | 1,894          | 9,079             | 1,662              | 3,220             | 7,656           | 14,452                               | 16,452            | 30,649                 | 380                       | 2,012            | 11,781                               |
| Wisconsin.....                             | 41             | 9                                  | 824            | 3,481             | 688                | 1,398             | 2,622           | 5,450                                | 5,252             | 10,778                 | 123                       | 847              | 5,380                                |
| West North Central.                        | 64             | 12                                 | 1,029          | 4,145             | 830                | 1,732             | 3,117           | 7,351                                | 8,343             | 15,159                 | 413                       | ( <sup>4</sup> ) | ( <sup>4</sup> )                     |
| Minnesota.....                             | 33             | 8                                  | 750            | 3,170             | 606                | 1,265             | 2,360           | 4,978                                | 5,904             | 10,520                 | 278                       | 1,043            | 8,126                                |
| South Atlantic....                         | 385            | 57                                 | 6,130          | 27,740            | 5,229              | 10,503            | 22,085          | 43,490                               | 44,976            | 87,135                 | 2,644                     | 5,495            | 31,660                               |
| Maryland.....                              | 76             | 12                                 | 2,097          | 10,109            | 1,887              | 3,537             | 8,927           | 16,530                               | 17,560            | 33,697                 | 558                       | ( <sup>4</sup> ) | ( <sup>4</sup> )                     |
| Virginia.....                              | 49             | 5                                  | 548            | 2,206             | 475                | 907               | 1,757           | 3,854                                | 3,384             | 7,098                  | 236                       | ( <sup>4</sup> ) | ( <sup>4</sup> )                     |
| North Carolina....                         | 36             | 6                                  | 563            | 2,105             | 522                | 1,100             | 1,748           | 3,516                                | 5,160             | 8,623                  | 357                       | ( <sup>4</sup> ) | ( <sup>4</sup> )                     |
| South Carolina....                         | 15             | 2                                  | 122            | 414               | 107                | 206               | 311             | 579                                  | 952               | 1,523                  | 68                        | ( <sup>4</sup> ) | ( <sup>4</sup> )                     |
| Florida.....                               | 183            | 29                                 | 2,517          | 11,983            | 1,993              | 4,272             | 8,615           | 17,664                               | 16,158            | 32,957                 | 1,372                     | 2,442            | 12,163                               |
| East South Central.                        | 56             | 11                                 | 1,047          | 3,894             | 917                | 1,612             | 3,263           | 7,233                                | 7,767             | 15,250                 | 2,430                     | 632              | 4,679                                |
| West South Central.                        | 174            | 31                                 | 2,609          | 10,880            | 2,119              | 4,494             | 7,987           | 14,533                               | 17,065            | 31,384                 | 1,269                     | 3,185            | 17,009                               |
| Arkansas.....                              | 13             | 6                                  | 472            | 2,196             | 376                | 765               | 1,483           | 1,971                                | 2,528             | 4,793                  | 138                       | ( <sup>4</sup> ) | ( <sup>4</sup> )                     |
| Louisiana.....                             | 65             | 10                                 | 849            | 3,577             | 732                | 1,784             | 2,926           | 6,334                                | 5,396             | 10,975                 | 529                       | 630              | 3,606                                |
| Mountain.....                              | 22             | 1                                  | 111            | 491               | 93                 | 196               | 384             | 832                                  | 914               | 1,732                  | 61                        | 103              | 777                                  |
| Pacific.....                               | 336            | 39                                 | 3,012          | 16,081            | 2,568              | 4,974             | 13,265          | 25,995                               | 21,689            | 46,457                 | 1,416                     | 3,968            | 33,314                               |
| Washington.....                            | 103            | 13                                 | 891            | 4,436             | 758                | 1,420             | 3,781           | 7,113                                | 6,247             | 13,002                 | 291                       | ( <sup>4</sup> ) | ( <sup>4</sup> )                     |
| Oregon.....                                | 34             | 1                                  | 138            | 734               | 125                | 239               | 666             | 1,172                                | 732               | 1,882                  | 55                        | ( <sup>4</sup> ) | ( <sup>4</sup> )                     |
| California.....                            | 187            | 23                                 | 1,874          | 10,247            | 1,596              | 3,143             | 8,284           | 16,722                               | 14,011            | 29,893                 | 1,021                     | 2,736            | 24,925                               |
| INDUSTRY 3741.—LOCOMOTIVES AND PARTS       |                |                                    |                |                   |                    |                   |                 |                                      |                   |                        |                           |                  |                                      |
| Total.....                                 | 24             | 12                                 | 14,337         | 99,696            | 10,648             | 20,803            | 67,405          | 186,241                              | 249,785           | 437,872                | 7,195                     | 15,282           | 152,086                              |
| Northeast and North Central.....           | 24             | 12                                 | 14,337         | 99,696            | 10,648             | 20,803            | 67,405          | 186,241                              | 249,785           | 437,872                | 7,195                     | 15,269           | 151,756                              |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                    | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958          |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|---------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |               |                                      |
| INDUSTRY 3742.—RAILROAD AND STREET CARS         |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |               |                                      |
| Total.....                                      | 78             | 58                                 | 30,742         | 201,999           | 24,254             | 47,246            | 150,135         | 355,230                              | 591,023           | 927,184            | 10,877                    | 24,309        | 167,576                              |
| Northeast and North Central.....                | 66             | 48                                 | 25,464         | 167,442           | 19,997             | 38,716            | 123,919         | 284,488                              | 455,731           | 723,705            | 8,647                     | 21,228        | 154,852                              |
| Pennsylvania.....                               | 15             | 11                                 | 8,507          | 55,453            | 6,686              | 12,062            | 41,124          | 97,631                               | 140,110           | 223,550            | 3,202                     | 8,898         | 64,904                               |
| Ohio.....                                       | 9              | 8                                  | 2,953          | 20,895            | 2,422              | 4,911             | 16,683          | 31,596                               | 46,047            | 79,963             | 739                       | 2,530         | 23,561                               |
| South and West.....                             | 12             | 10                                 | 5,278          | 34,557            | 4,257              | 8,530             | 26,216          | 70,742                               | 135,292           | 203,479            | 2,230                     | 3,081         | 12,724                               |
| INDUSTRY 3751.—MOTORCYCLES, BICYCLES, AND PARTS |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |               |                                      |
| Total.....                                      | 88             | 33                                 | 9,662          | 48,425            | 7,912              | 15,152            | 34,398          | 82,245                               | 112,157           | 192,851            | 3,152                     | 7,578         | 52,125                               |
| Northeast.....                                  | 18             | 8                                  | 1,418          | 6,267             | 1,189              | 2,205             | 4,708           | 11,725                               | 15,814            | 27,459             | 140                       | 1,462         | 9,097                                |
| North Central.....                              | 25             | 12                                 | 4,030          | 22,629            | 3,059              | 5,992             | 15,741          | 35,576                               | 47,542            | 82,428             | 1,378                     | 3,650         | 27,205                               |
| Ohio.....                                       | 9              | 3                                  | 489            | 2,407             | 435                | 841               | 2,022           | 6,968                                | 11,072            | 16,895             | 50                        | 592           | 4,906                                |
| Indiana.....                                    | 3              | 3                                  | 389            | 1,609             | 314                | 585               | 1,111           | 2,623                                | 4,045             | 6,829              | 16                        | (4)           | (4)                                  |
| Michigan.....                                   | 5              | 1                                  | 116            | 601               | 68                 | 117               | 497             | 536                                  | 1,133             | 1,683              | 40                        | (4)           | (4)                                  |
| South and West.....                             | 45             | 13                                 | 4,214          | 19,529            | 3,664              | 6,955             | 13,949          | 34,944                               | 48,801            | 82,964             | 1,634                     | 2,467         | 15,823                               |
| California.....                                 | 24             | 5                                  | 513            | 2,663             | 402                | 776               | 1,770           | 4,366                                | 7,874             | 12,472             | 99                        | (4)           | (4)                                  |
| INDUSTRY 3791.—TRAILER COACHES                  |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |               |                                      |
| Total.....                                      | 413            | 252                                | 25,669         | 125,002           | 21,901             | 43,390            | 94,078          | 232,460                              | 482,751           | 713,119            | 9,584                     | 18,717        | 127,683                              |
| New England.....                                | 5              | 1                                  | 30             | 68                | 27                 | 51                | 64              | 130                                  | 238               | 355                | 5                         | 5             | 14                                   |
| Middle Atlantic....                             | 24             | 17                                 | 1,557          | 7,105             | 1,343              | 2,555             | 5,379           | 13,789                               | 26,785            | 39,989             | 988                       | 348           | 2,322                                |
| East North Central.                             | 130            | 79                                 | 9,356          | 51,972            | 7,738              | 15,581            | 37,277          | 93,433                               | 199,456           | 292,750            | 3,805                     | 8,620         | 64,847                               |
| Ohio.....                                       | 8              | 5                                  | 661            | 3,277             | 548                | 1,081             | 2,292           | 6,674                                | 13,428            | 20,051             | 223                       | 371           | 2,762                                |
| Indiana.....                                    | 63             | 47                                 | 4,245          | 23,911            | 3,496              | 6,740             | 16,908          | 44,792                               | 101,269           | 145,855            | 1,898                     | 3,441         | 27,326                               |
| Michigan.....                                   | 46             | 20                                 | 3,593          | 21,175            | 2,940              | 6,142             | 15,309          | 37,038                               | 72,096            | 109,609            | 1,572                     | (4)           | (4)                                  |
| West North Central.                             | 33             | 21                                 | 2,327          | 10,647            | 1,991              | 4,030             | 8,518           | 23,593                               | 44,277            | 67,271             | 638                       | 1,319         | 12,065                               |
| Iowa.....                                       | 4              | 3                                  | 261            | 1,130             | 218                | 431               | 843             | 1,680                                | 4,600             | 6,169              | 15                        | (4)           | (4)                                  |
| Missouri.....                                   | 8              | 3                                  | 165            | 622               | 145                | 271               | 471             | 1,074                                | 2,428             | 3,434              | 71                        | (4)           | (4)                                  |
| Nebraska.....                                   | 5              | 4                                  | 555            | 2,267             | 505                | 963               | 1,949           | 4,927                                | 10,698            | 15,669             | (D)                       | (4)           | (4)                                  |
| Kansas.....                                     | 10             | 8                                  | 1,108          | 5,660             | 923                | 1,938             | 4,509           | 13,485                               | 22,822            | 35,805             | 358                       | (4)           | (4)                                  |
| South Atlantic.....                             | 45             | 31                                 | 3,298          | 13,952            | 2,888              | 5,789             | 10,726          | 31,562                               | 64,737            | 95,612             | 1,221                     | (4)           | (4)                                  |
| North Carolina....                              | 6              | 4                                  | 371            | 1,100             | 306                | 529               | 812             | 2,284                                | 5,171             | 7,392              | 54                        | (4)           | (4)                                  |
| Georgia.....                                    | 15             | 11                                 | 1,492          | 6,582             | 1,325              | 2,767             | 5,031           | 16,676                               | 31,736            | 47,942             | 649                       | (4)           | (4)                                  |
| Florida.....                                    | 19             | 12                                 | 924            | 4,116             | 798                | 1,578             | 3,208           | 8,386                                | 17,565            | 25,843             | 362                       | 345           | 2,242                                |
| East South Central.                             | 7              | 6                                  | 796            | 2,786             | 691                | 1,363             | 2,138           | 4,365                                | 13,861            | 18,163             | 246                       | (4)           | (4)                                  |
| West South Central.                             | 42             | 23                                 | 1,737          | 6,873             | 1,500              | 3,019             | 5,201           | 13,582                               | 27,962            | 41,799             | 337                       | (4)           | (4)                                  |
| Arkansas.....                                   | 6              | 3                                  | 174            | 736               | 156                | 300               | 610             | 2,050                                | 2,369             | 4,643              | 23                        | (4)           | (4)                                  |
| Oklahoma.....                                   | 8              | 6                                  | 454            | 1,802             | 398                | 807               | 1,254           | 3,828                                | 7,728             | 11,610             | 108                       | (4)           | (4)                                  |
| Texas.....                                      | 28             | 14                                 | 1,109          | 4,335             | 946                | 1,912             | 3,377           | 7,704                                | 17,865            | 25,546             | 206                       | 1,712         | 7,765                                |
| Mountain.....                                   | 37             | 13                                 | 976            | 4,561             | 824                | 1,657             | 3,412           | 7,301                                | 15,516            | 22,762             | 504                       | 603           | 3,177                                |
| Idaho.....                                      | 6              | 5                                  | 405            | 1,928             | 347                | 722               | 1,397           | 3,896                                | 7,510             | 11,305             | 267                       | 166           | 608                                  |
| Colorado.....                                   | 13             | 2                                  | 179            | 841               | 146                | 274               | 664             | 959                                  | 3,048             | 4,142              | 154                       | (4)           | (4)                                  |
| Arizona.....                                    | 9              | 3                                  | 200            | 893               | 171                | 341               | 703             | 1,173                                | 2,387             | 3,464              | 55                        | (4)           | (4)                                  |
| Pacific.....                                    | 90             | 61                                 | 5,592          | 27,038            | 4,899              | 9,345             | 21,363          | 44,705                               | 89,919            | 134,418            | 1,840                     | 3,667         | 24,206                               |
| Washington.....                                 | 9              | 3                                  | 155            | 642               | 137                | 230               | 510             | 956                                  | 1,496             | 2,434              | 38                        | (4)           | (4)                                  |
| Oregon.....                                     | 8              | 5                                  | 322            | 1,555             | 278                | 503               | 1,216           | 2,401                                | 4,936             | 7,300              | 76                        | (4)           | (4)                                  |
| California.....                                 | 73             | 53                                 | 5,115          | 24,841            | 4,484              | 8,612             | 19,637          | 41,348                               | 83,487            | 124,684            | 1,726                     | (4)           | (4)                                  |
| INDUSTRY 3799.—TRANSPORTATION EQUIPMENT, N.E.C. |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |               |                                      |
| Total.....                                      | 522            | 108                                | 8,032          | 37,547            | 6,652              | 13,183            | 27,788          | 68,823                               | 99,379            | 167,375            | 3,710                     | 4,761         | 38,215                               |
| Northeast.....                                  | 51             | 10                                 | 953            | 4,916             | 772                | 1,505             | 3,491           | 10,404                               | 12,195            | 22,671             | 511                       | 620           | 7,152                                |
| Pennsylvania.....                               | 22             | 5                                  | 475            | 2,481             | 393                | 769               | 1,896           | 6,576                                | 5,077             | 11,578             | 265                       | 450           | 3,435                                |
| East North Central.                             | 123            | 33                                 | 2,074          | 10,427            | 1,715              | 3,559             | 7,757           | 17,798                               | 29,033            | 46,687             | 947                       | 1,466         | 11,868                               |
| Ohio.....                                       | 32             | 10                                 | 761            | 4,016             | 619                | 1,314             | 2,886           | 6,227                                | 8,423             | 14,559             | 119                       | (4)           | (4)                                  |
| Indiana.....                                    | 34             | 10                                 | 634            | 3,731             | 517                | 1,191             | 2,761           | 7,050                                | 13,198            | 20,210             | 495                       | 490           | 3,737                                |
| Illinois.....                                   | 16             | 3                                  | 161            | 606               | 131                | 234               | 442             | 1,186                                | 1,653             | 2,871              | 79                        | 292           | 2,148                                |
| Michigan.....                                   | 29             | 4                                  | 227            | 1,014             | 203                | 363               | 877             | 1,707                                | 2,333             | 4,028              | 146                       | 241           | 1,811                                |
| Wisconsin.....                                  | 12             | 6                                  | 291            | 1,060             | 245                | 457               | 791             | 1,628                                | 3,426             | 5,019              | 108                       | (4)           | (4)                                  |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                              | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |               |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|---------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |               |                                      |
| INDUSTRY 3799.—TRANSPORTATION EQUIPMENT, N.E.C.—Continued |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |               |                                      |
| West North Central.                                       | 78             | 16                                 | 1,533          | 6,667             | 1,280              | 2,552             | 4,873           | 12,801                               | 12,410            | 24,652             | 486                       | 857           | 6,364                                |
| Iowa.....   | 21             | 8                                  | 681            | 3,170             | 580                | 1,154             | 2,290           | 5,296                                | 5,030             | 10,294             | 189                       | (4)           | (4)                                  |
| Missouri.....   | 13             | 1                                  | 226            | 949               | 189                | 389               | 775             | 2,529                                | 1,973             | 4,357              | 49                        | (4)           | (4)                                  |
| Nebraska.....   | 7              | 1                                  | 168            | 708               | 140                | 300               | 541             | 1,397                                | 1,535             | 2,756              | (D)                       | (4)           | (4)                                  |
| Kansas.....   | 20             | 5                                  | 339            | 1,421             | 272                | 510               | 938             | 2,971                                | 2,971             | 5,615              | 124                       | (4)           | (4)                                  |
| South Atlantic.....                                       | 45             | 7                                  | 563            | 2,517             | 453                | 880               | 1,747           | 4,070                                | 6,133             | 10,208             | 207                       | } 890         | 5,540                                |
| North Carolina...   | 7              | 2                                  | 130            | 332               | 110                | 205               | 204             | 598                                  | 1,239             | 1,827              | 63                        |               |                                      |
| Florida.....  | 26             | 3                                  | 243            | 1,416             | 182                | 358               | 953             | 2,231                                | 2,727             | 5,054              | 101                       |               |                                      |
| East South Central.                                       | 12             | 4                                  | 227            | 971               | 191                | 383               | 743             | 1,467                                | 2,614             | 3,970              | 112                       |               |                                      |
| West South Central.                                       | 71             | 11                                 | 778            | 2,969             | 670                | 1,282             | 2,323           | 6,152                                | 11,368            | 17,319             | 482                       |               |                                      |
| Oklahoma.....   | 15             | 1                                  | 123            | 412               | 103                | 204               | 330             | 760                                  | 1,477             | 2,206              | 49                        | (4)           | (4)                                  |
| West.....   | 142            | 27                                 | 1,904          | 9,080             | 1,571              | 3,022             | 6,854           | 16,131                               | 25,626            | 41,868             | 965                       | 928           | 7,291                                |
| Idaho.....  | 6              | 1                                  | 118            | 328               | 97                 | 180               | 250             | 693                                  | 1,674             | 1,674              | 74                        | (4)           | (4)                                  |
| California.....   | 85             | 18                                 | 1,196          | 6,231             | 984                | 1,901             | 4,676           | 10,456                               | 19,386            | 30,050             | 571                       | (4)           | (4)                                  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3731, Ship Building and Repairing: New England—Maine, 8 (2,626); Vermont, 1 (1-19); Massachusetts, 12 (4,613); Rhode Island, 2 (20-99); Connecticut, 10 (15,932); East North Central—Ohio, 9 (707); Indiana, 3 (611); Illinois, 3 (166); Michigan, 5 (737); West North Central—Minnesota, 2 (1-19); Iowa, 1 (20-99); Missouri, 3 (102); South Atlantic—Delaware, 2 (100-249); Maryland, 9 (8,027); Virginia, 13 (20,847); West Virginia, 1 (500-999); South Carolina, 5 (402); Georgia, 1 (500-999); East South Central—Kentucky, 1 (200-249); Tennessee, 1 (500-999); Alabama, 7 (2,500-4,999); Mississippi, 7 (5,084); West South Central—Oklahoma, 1 (1-19); Texas, 23 (2,500-4,999); Pacific—Washington, 17 (2,500-4,999); Alaska, 1 (1-19); Hawaii, 1 (1-19).

SIC 3732, Boat Building and Repairing: New England—New Hampshire, 8 (20-99); Vermont, 1 (1-19); Massachusetts, 81 (1,181); East North Central—Indiana, 26 (974); Illinois, 25 (440); West North Central—Iowa, 3 (1-19); Missouri, 16 (207); South Dakota, 2 (1-19); Nebraska, 1 (1-19); Kansas, 9 (20-99); South Atlantic—Delaware, 5 (1-19); District of Columbia, 1 (1-19); Georgia, 20 (250-499); East South Central—Kentucky, 6 (20-99); Tennessee, 20 (500-999); Alabama, 17 (20-99); Mississippi, 13 (100-249); West South Central—Oklahoma, 11 (20-99); Texas, 85 (1,000-2,499); Mountain—Montana, 4 (20-99); Idaho, 2 (1-19); Colorado, 2 (1-19); New Mexico, 1 (1-19); Arizona, 3 (20-99); Utah, 9 (20-99); Nevada, 1 (1-19); Pacific—Alaska, 8 (20-99); Hawaii, 4 (20-99).

SIC 3741, Locomotives and Parts: Middle Atlantic—New York, 1 (1,000-2,499); New Jersey, 1 (1-19); Pennsylvania, 6 (4,555); East North Central—Ohio, 3 (260); Indiana, 1 (1-19); Illinois, 7 (7,671); Michigan, 1 (1-19); Wisconsin, 2 (100-249); West North Central—Minnesota, 1 (20-99); Nebraska, 1 (1-19).

SIC 3742, Railroad and Street Cars: Middle Atlantic—New York, 5 (1,660); New Jersey, 3 (538); East North Central—Indiana, 5 (2,500-4,999); Illinois, 18 (2,747); Michigan, 3 (1,000-2,499); Wisconsin, 2 (20-99); West North Central—Minnesota, 1 (20-99); Iowa, 1 (20-99); Missouri, 2 (2,500-4,999); Kansas, 2 (250-499); South Atlantic—West Virginia, 1 (500-999); Georgia, 2 (20-99); East South Central—Kentucky, 1 (100-249); Alabama, 2 (1,000-2,499); West South Central—Texas, 2 (100-249); Pacific—Washington, 1 (1,000-2,499); California, 3 (248).

SIC 3751, Motorcycles, Bicycles, and Parts: New England—Massachusetts, 2 (250-499); Connecticut, 1 (20-99); Middle Atlantic—New York, 8 (873); New Jersey, 4 (20-99); Pennsylvania, 3 (1-19); East North Central—Illinois, 4 (500-999); Wisconsin, 3 (1,000-2,499); West North Central—Nebraska, 1 (500-999); South Atlantic—Georgia, 2 (20-99); Florida, 2 (1-19); East South Central—Kentucky, 2 (250-499); Tennessee, 2 (1,000-2,499); West South Central—Arkansas, 3 (500-999); Louisiana, 1 (20-99); Oklahoma, 2 (1-19); Texas, 1 (1-19); Mountain—Colorado, 1 (1-19); Utah, 4 (20-99); Pacific—Oregon, 1 (1-19).

SIC 3791, Trailer Coaches: New England—Maine, 2 (20-99); New Hampshire, 1 (1-19); Massachusetts, 1 (1-19); Connecticut, 1 (1-19); Middle Atlantic—New Jersey, 1 (20-99); Pennsylvania, 23 (1,000-2,499); East North Central—Illinois, 3 (1-19); Wisconsin, 10 (851); West North Central—Minnesota, 4 (100-249); South Dakota, 2 (100-249); South Atlantic—Maryland, 2 (100-249); Virginia, 1 (100-249); South Carolina, 2 (100-249); East South Central—Kentucky, 1 (20-99); Tennessee, 3 (177); Alabama, 2 (250-499); Mississippi, 1 (200-249); Mountain—New Mexico, 1 (1-19); Utah, 8 (100-249).

SIC 3799, Transportation Equipment, N.E.C.: New England—Vermont, 2 (20-99); Massachusetts, 7 (20-99); Connecticut, 4 (20-99); Middle Atlantic—New York, 12 (250-499); New Jersey, 4 (20-99); West North Central—Minnesota, 12 (100-249); North Dakota, 4 (1-19); South Dakota, 1 (1-19); South Atlantic—Maryland, 1 (20-99); Virginia, 2 (20-99); South Carolina, 3 (1-19); Georgia, 6 (20-99); East South Central—Kentucky, 2 (20-99); Tennessee, 6 (20-99); Alabama, 2 (20-99); Mississippi, 2 (1-19); West South Central—Arkansas, 4 (20-99); Louisiana, 5 (20-99); Texas, 47 (498); Mountain—Montana, 2 (20-99); Wyoming, 1 (1-19); Colorado, 13 (20-99); New Mexico, 2 (1-19); Arizona, 7 (20-99); Utah, 5 (100-249); Pacific—Washington, 13 (20-99); Oregon, 7 (100-249); Alaska, 1 (1-19).

<sup>2</sup>See footnote 1, table 1.

<sup>3</sup>Represents value of work done rather than value of shipments.

<sup>4</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.



TABLE 3. Detailed Statistics: 1963

| Item   | Ship building<br>and repairing<br>(SIC 3731) | Boat building<br>and repairing<br>(SIC 3732) | Locomotives<br>and parts<br>(SIC 3741) | Railroad and<br>street cars<br>(SIC 3742) | Motorcycles,<br>bicycles,<br>and parts<br>(SIC 3751) | Trailer coaches<br>(SIC 3791) | Transportation<br>equipment,<br>n.e.c.<br>(SIC 3799) |
|--|--|--|--|---|--|-------------------------------|--|
| Primary product specialization ratio <sup>1</sup> .....                | .92  | .97  | .83                                    | .91                                       | .83  | .98                           | .89  |
| Coverage ratio <sup>2</sup> .....                                      | .99  | .95  | .90                                    | .93                                       | .93  | .99                           | .75  |
| Establishments, total.....number..                                     | 334  | 1,626  | 24                                     | 78  | 88   | 413                           | 522  |
| With 1 to 19 employees.....do....                                      | 134  | 1,358  | 12                                     | 20  | 55   | 161                           | 414  |
| With 20 to 99 employees.....do....                                     | 96   | 222  | 5                                      | 22  | 17   | 164                           | 92   |
| With 100 employees or more.....do...                                   | 104  | 46   | 7                                      | 36  | 16   | 88                            | 16   |
| Proprietors and working partners.....do....                            | 92   | 1,148  | 7                                      | 7   | 13   | 139                           | 277  |
| All employees (average for the year).....do....                        | 114,649                                      | 24,861                                       | 14,337                                 | 30,742                                    | 9,662  | 25,669                        | 8,032  |
| Payroll (all employees), total for year.....\$1,000..                  | 782,299                                      | 116,140                                      | 99,696                                 | 201,999                                   | 48,425   | 125,002                       | 37,547   |
| Production workers:  |  |  |  |   |  |                               |  |
| Average for the year.....number..                                      | 96,527                                       | 20,867                                       | 10,648                                 | 24,254                                    | 7,912  | 21,901                        | 6,652  |
| March.....do....   | 99,853                                       | 21,360                                       | 10,790                                 | 24,222                                    | 7,549  | 19,917                        | 6,240  |
| May.....do....   | 99,054                                       | 23,246                                       | 10,694                                 | 22,388                                    | 8,149  | 21,812                        | 7,167  |
| August.....do....  | 95,127                                       | 19,219                                       | 10,752                                 | 24,839                                    | 8,431  | 22,914                        | 6,610  |
| November.....do....  | 92,089                                       | 19,831                                       | 10,348                                 | 25,554                                    | 7,525  | 22,965                        | 6,620  |
| Man-hours.....1,000..  | 193,512                                      | 42,011                                       | 20,803                                 | 47,246                                    | 15,152   | 43,390                        | 13,183   |
| January-March.....do....   | 49,404                                       | 10,895                                       | 5,321                                  | 10,737                                    | 3,429  | 9,358                         | 2,982  |
| April-June.....do....  | 50,230                                       | 11,852                                       | 5,317                                  | 11,355                                    | 4,073  | 11,135                        | 3,573  |
| July-September.....do....  | 48,841                                       | 9,823  | 4,751                                  | 12,123                                    | 4,013  | 11,561                        | 3,381  |
| October-December.....do....  | 46,090                                       | 10,347                                       | 5,414                                  | 13,043                                    | 3,660  | 11,398                        | 3,450  |
| Wages.....\$1,000..  | 610,250                                      | 91,443                                       | 67,405                                 | 150,135                                   | 34,398   | 94,078                        | 27,788   |
| Cost of materials, etc., total.....do....                              | 670,075                                      | 183,207                                      | 249,785                                | 591,023                                   | 112,157  | 482,751                       | 99,379   |
| Materials, parts, containers, and supplies consumed.....do....         | 612,467                                      | 167,519                                      | 233,289                                | 575,511                                   | 102,722  | 471,898                       | 94,750   |
| Cost of resales.....do....   | 6,748  | 10,749                                       | 13,374                                 | 6,266                                     | 6,323  | 6,900                         | 1,391  |
| Fuels consumed.....do....  | 5,772  | 1,143  | 1,658                                  | 3,583                                     | 724  | 861                           | 497  |
| Electric energy:   |  |  |  |   |  |                               |  |
| Purchased:   |  |  |  |   |  |                               |  |
| Quantity.....million kw.-hrs..   | 990  | 88   | 117                                    | 279                                       | 75   | 51                            | 35   |
| Cost.....\$1,000..   | 11,317                                       | 1,667  | 1,246                                  | 3,547                                     | 877  | 1,173                         | 676  |
| Generated less sold.....million kw.-hrs..                              | (D)  | (D)  | (D)                                    | (D)                                       | -  | (D)                           | (D)  |
| Contract work.....\$1,000..  | 33,771                                       | 2,126  | 218                                    | 2,116                                     | 1,511  | 1,009                         | 2,065  |
| Value of shipments (including resales), total <sup>3</sup> .....do.... | 1,679,765                                    | 360,208                                      | 437,872                                | 927,184                                   | 192,851  | 713,119                       | 167,375  |
| Value of resales.....do....  | 7,173  | 15,379                                       | (D)                                    | 8,480                                     | 7,572  | 9,313                         | 3,585  |
| Value added by manufacture, adjusted <sup>4</sup> .....do....          | 1,009,690                                    | 183,059                                      | 186,241                                | 355,230                                   | 82,245   | 232,460                       | 68,823   |
| Manufacturers' inventories:  |  |  |  |   |  |                               |  |
| Beginning of year, total.....do....                                    | 387,297                                      | 72,496                                       | 86,112                                 | 155,297                                   | 34,852   | 59,003                        | 24,664   |
| Finished products.....do....   | 8,519  | 23,358                                       | 15,761                                 | 15,650                                    | 9,500  | 15,373                        | 7,897  |
| Work-in-process.....do....   | 334,020                                      | 16,965                                       | 65,405                                 | 95,192                                    | 15,926   | 6,128                         | 6,616  |
| Materials, supplies, fuel, etc.....do....                              | 44,758                                       | 32,173                                       | 4,946                                  | 44,455                                    | 9,426  | 37,492                        | 10,151   |
| End of year, total.....do....  | 344,057                                      | 78,640                                       | 83,784                                 | 186,222                                   | 36,006   | 63,118                        | 26,272   |
| Finished products.....do....   | 7,641  | 26,004                                       | 13,744                                 | 16,575                                    | 11,398   | 16,943                        | 8,416  |
| Work-in-process.....do....   | 291,319                                      | 20,377                                       | 65,576                                 | 113,336                                   | 15,579   | 6,464                         | 6,928  |
| Materials, supplies, fuel, etc.....do....                              | 45,097                                       | 32,259                                       | 4,464                                  | 56,311                                    | 9,029  | 39,711                        | 10,928   |
| Expenditures for plant and equipment, total.....do....                 | 34,319                                       | 22,745                                       | 7,546                                  | 11,803                                    | 3,437  | 10,043                        | 4,282  |
| New, total.....do....  | 24,477                                       | 13,472                                       | 7,195                                  | 10,877                                    | 3,152  | 9,584                         | 3,710  |
| New structures and additions to plant.....do....                       | 10,141                                       | 5,673  | 694                                    | 2,729                                     | 540  | 4,820                         | 1,189  |
| New machinery and equipment.....do....                                 | 14,336                                       | 7,799  | 6,501                                  | 8,148                                     | 2,612  | 4,764                         | 2,521  |
| Used plant and equipment.....do....                                    | 9,842  | 9,273  | 351                                    | 926                                       | 285  | 459                           | 572  |
| Selected operating ratios:   |  |  |  |   |  |                               |  |
| Payroll/Total employment.....  | 6,823  | 4,672  | 6,954                                  | 6,571                                     | 5,012  | 4,870                         | 4,675  |
| Production workers/Total employment.....                               | .84  | .84  | .74                                    | .79                                       | .82  | .85                           | .83  |
| Man-hours/Production workers.....                                      | 2,005  | 2,013  | 1,954                                  | 1,948                                     | 1,915  | 1,981                         | 1,982  |
| Production worker wages/Man-hours.....                                 | 3.15   | 2.18   | 3.24                                   | 3.18                                      | 2.27   | 2.17                          | 2.11   |
| Cost of materials and payrolls/Total value of shipments.....           | .86  | .83  | .80                                    | .86                                       | .83  | .85                           | .82  |
| Cost of materials/Total value of shipments.....                        | .40  | .51  | .57                                    | .64                                       | .58  | .68                           | .59  |
| Adjusted value added/Total employment.....                             | 8,427  | 7,363  | 12,990                                 | 11,555                                    | 8,512  | 9,053                         | 8,569  |
| Salaries and wages/Adjusted value added.....                           | .81  | .63  | .54                                    | .57                                       | .59  | .54                           | .55  |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

<sup>3</sup>Represents value of work done rather than value of shipments.

<sup>4</sup>See footnote 1, table 1.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total  | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|------------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                        | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3731.—SHIP BUILDING AND REPAIRING      |                        |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 334                    | 58                                 | 32               | 44                 | 57                 | 39                 | 41                   | 21                   | 22                   | 12                       | 8                        |
| All employees:                                  |                        |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 114,649                | 90                                 | 218              | 632                | 1,919              | 2,737              | 6,725                | 7,715                | 16,106               | 20,212                   | 58,295                   |
| Payroll.....\$1,000..                           | 782,299                | 687                                | 1,149            | 3,601              | 11,093             | 16,397             | 38,585               | 47,373               | 98,866               | 132,944                  | 431,604                  |
| Value added, adjusted.....do....                | <sup>1</sup> 1,009,690 | 872                                | 2,027            | 5,780              | 16,005             | 22,015             | 53,975               | 64,263               | 143,487              | 191,105                  | 510,161                  |
| Value of shipments.....do....                   | <sup>2</sup> 1,679,765 | 1,560                              | 3,068            | 8,786              | 24,746             | 36,768             | 101,511              | 112,781              | 244,860              | 335,717                  | 809,968                  |
| Capital expenditures, new...do....              | 24,477                 | <u>502</u>                         | (D)              | 157                | 443                | 531                | 1,699                | 1,943                | 2,298                | 3,996                    | 12,908                   |
| INDUSTRY 3732.—BOAT BUILDING AND REPAIRING      |                        |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 1,626                  | 932                                | 235              | 191                | 156                | 66                 | 36                   | 7                    | 3                    | -                        | -                        |
| All employees:                                  |                        |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 24,861                 | 1,503                              | 1,549            | 2,643              | 4,698              | 4,495              | 5,469                | 4,504                | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                           | 116,140                | 6,533                              | 6,682            | 11,285             | 21,531             | 20,743             | 27,374               | 21,992               | (D)                  | -                        | -                        |
| Value added, adjusted.....do....                | 183,059                | 10,248                             | 10,219           | 18,301             | 34,020             | 33,120             | 44,308               | <u>32,843</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....                   | 360,208                | 20,877                             | 18,920           | 33,073             | 61,204             | 65,362             | 92,391               | <u>68,381</u>        | (D)                  | -                        | -                        |
| Capital expenditures, new...do....              | 13,472                 | <sup>3</sup> 1,664                 | 1,045            | 1,357              | 1,972              | 4,068              | 2,128                | <u>1,238</u>         | (D)                  | -                        | -                        |
| INDUSTRY 3741.—LOCOMOTIVES AND PARTS            |                        |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 24                     | 2                                  | 4                | 6                  | 3                  | 2                  | 3                    | -                    | 1                    | 1                        | 2                        |
| All employees:                                  |                        |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 14,337                 | 35                                 | (D)              | 86                 | 239                | (D)                | 1,490                | -                    | (D)                  | 12,487                   | (D)                      |
| Payroll.....\$1,000..                           | 99,696                 | <u>188</u>                         | (D)              | 332                | <u>1,455</u>       | (D)                | <u>9,226</u>         | -                    | (D)                  | <u>87,795</u>            | (D)                      |
| Value added, adjusted.....do....                | 186,241                | <u>723</u>                         | (D)              | 884                | <u>2,236</u>       | (D)                | <u>19,675</u>        | -                    | (D)                  | <u>162,723</u>           | (D)                      |
| Value of shipments.....do....                   | 437,872                | <u>1,390</u>                       | (D)              | 2,185              | <u>3,481</u>       | (D)                | <u>56,834</u>        | -                    | (D)                  | <u>373,982</u>           | (D)                      |
| Capital expenditures, new...do....              | 7,195                  | <u>10</u>                          | (D)              | 10                 | <u>65</u>          | (D)                | <u>424</u>           | -                    | (D)                  | <u>6,686</u>             | (D)                      |
| INDUSTRY 3742.—RAILROAD AND STREET CARS         |                        |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 78                     | 5                                  | 7                | 8                  | 10                 | 12                 | 10                   | 5                    | 9                    | 11                       | 1                        |
| All employees:                                  |                        |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 30,742                 | 13                                 | 48               | 111                | 304                | 786                | 1,428                | 1,810                | 6,672                | 19,570                   | (D)                      |
| Payroll.....\$1,000..                           | 201,999                | 74                                 | 260              | 611                | 1,693              | 4,812              | 9,015                | 11,633               | 42,731               | <u>131,170</u>           | (D)                      |
| Value added, adjusted.....do....                | 355,230                | 102                                | 360              | 1,287              | 3,835              | 11,289             | 15,590               | 26,500               | 77,891               | <u>218,376</u>           | (D)                      |
| Value of shipments.....do....                   | 927,184                | 294                                | 1,049            | 3,351              | 11,114             | 26,268             | 32,719               | 53,161               | 230,684              | <u>568,544</u>           | (D)                      |
| Capital expenditures, new...do....              | 10,877                 | 10                                 | 49               | 70                 | 128                | 484                | 721                  | 1,228                | 2,279                | <u>5,908</u>             | (D)                      |
| INDUSTRY 3751.—MOTORCYCLES, BICYCLES, AND PARTS |                        |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 88                     | 37                                 | 8                | 10                 | 8                  | 9                  | 7                    | 4                    | 3                    | 2                        | -                        |
| All employees:                                  |                        |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 9,662                  | 68                                 | 61               | 135                | 232                | 678                | 1,288                | 1,510                | 5,690                | (D)                      | -                        |
| Payroll.....\$1,000..                           | 48,425                 | 250                                | 260              | 676                | 992                | 3,378              | 5,211                | 7,179                | <u>30,479</u>        | (D)                      | -                        |
| Value added, adjusted.....do....                | 82,245                 | 362                                | 407              | 782                | 1,589              | 5,672              | 10,592               | 14,377               | <u>48,464</u>        | (D)                      | -                        |
| Value of shipments.....do....                   | 192,851                | 1,033                              | 1,066            | 2,627              | 4,258              | 11,498             | 27,869               | 33,762               | <u>110,738</u>       | (D)                      | -                        |
| Capital expenditures, new...do....              | 3,152                  | 11                                 | 10               | 32                 | 46                 | 176                | 200                  | 287                  | <u>2,390</u>         | (D)                      | -                        |
| INDUSTRY 3791.—TRAILER COACHES                  |                        |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 413                    | 85                                 | 35               | 41                 | 87                 | 77                 | 75                   | 12                   | 1                    | -                        | -                        |
| All employees:                                  |                        |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 25,669                 | 119                                | 240              | 537                | 2,981              | 5,348              | 11,997               | 4,447                | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                           | 125,002                | 548                                | 1,135            | 2,150              | 12,717             | 25,148             | 59,182               | <u>24,122</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....                | 232,460                | 905                                | 1,436            | 2,737              | 20,269             | 46,603             | 112,726              | <u>47,784</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....                   | 713,119                | 2,952                              | 5,343            | 10,311             | 64,390             | 151,709            | 339,993              | <u>138,421</u>       | (D)                  | -                        | -                        |
| Capital expenditures, new...do....              | 9,584                  | 99                                 | 145              | 419                | 1,116              | 2,137              | 3,879                | <u>1,789</u>         | (D)                  | -                        | -                        |
| INDUSTRY 3799.—TRANSPORTATION EQUIPMENT, N.E.C. |                        |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 522                    | 254                                | 96               | 64                 | 68                 | 24                 | 16                   | -                    | -                    | -                        | -                        |
| All employees:                                  |                        |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 8,032                  | 458                                | 635              | 921                | 2,187              | 1,556              | 2,275                | -                    | -                    | -                        | -                        |
| Payroll.....\$1,000..                           | 37,547                 | 2,066                              | 2,692            | 3,965              | 10,688             | 7,033              | 11,103               | -                    | -                    | -                        | -                        |
| Value added, adjusted.....do....                | 68,823                 | 4,005                              | 4,515            | 7,199              | 19,276             | 12,202             | 21,626               | -                    | -                    | -                        | -                        |
| Value of shipments.....do....                   | 167,375                | 9,411                              | 11,810           | 16,483             | 51,579             | 31,821             | 46,271               | -                    | -                    | -                        | -                        |
| Capital expenditures, new...do....              | 3,710                  | 399                                | 400              | 344                | 1,066              | 740                | 761                  | -                    | -                    | -                        | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

n.e.c. Not elsewhere classified.

<sup>1</sup>See footnote 1, table 1.<sup>2</sup>Represents value of work done rather than value of shipments.<sup>3</sup>Includes capital expenditures of approximately \$200-\$500 thousand for plants under construction but not in operation.



TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                 | Value of shipments              |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|---------------------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total                           | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | Col. B<br>Col. B+C<br>(percent) |                  |                    |                        |                                      |                                    |                       |                          | Col. B<br>Col. F<br>(percent) |
|           |  | (\$1,000)                       | (\$1,000)        | (\$1,000)          | (\$1,000)              | (percent)                            | (\$1,000)                          | (\$1,000)             | (\$1,000)                | (percent)                     |
|           |  | A                               | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3731      | Ship building and repairing.....1963..   | <sup>1</sup> 1,679,765          | 1,507,891        | 117,950            | 53,924                 | 92                                   | <sup>1</sup> 1,518,015             | 1,507,891             | 10,124                   | 99                            |
|           | 1958..                                   | <sup>1</sup> 1,625,624          | 1,452,734        | 110,688            | 62,202                 | 93                                   | <sup>1</sup> 1,467,381             | 1,452,734             | 14,647                   | 99                            |
| 3732      | Boat building and repairing.....1963..   | 360,208                         | 321,665          | 11,649             | 26,894                 | 97                                   | 338,118                            | 321,665               | 16,453                   | 95                            |
|           | 1958..                                   | 329,009                         | 284,485          | 20,332             | 24,192                 | 93                                   | 300,143                            | 284,485               | 15,658                   | 95                            |
| 3741      | Locomotives and parts.....1963..         | 437,872                         | 341,955          | 70,476             | 25,441                 | 83                                   | 378,088                            | 341,955               | 36,133                   | 90                            |
|           | 1958..                                   | 407,540                         | 321,162          | 56,016             | 30,362                 | 85                                   | 355,168                            | 321,162               | 34,006                   | 90                            |
| 3742      | Railroad and street cars.....1963..      | 927,184                         | 813,394          | 83,395             | 30,395                 | 91                                   | 870,972                            | 813,394               | 57,578                   | 93                            |
|           | 1958..                                   | 562,190                         | 474,469          | 68,928             | 18,793                 | 87                                   | 528,598                            | 474,469               | 54,129                   | 90                            |
| 3751      | Motorcycles, bicycles, and parts..1963.. | 192,851                         | 151,967          | 31,789             | 9,095                  | 83                                   | 163,355                            | 151,967               | 11,388                   | 93                            |
|           | 1958..                                   | 121,527                         | 98,813           | 18,631             | 4,083                  | 84                                   | 105,821                            | 98,813                | 7,008                    | 93                            |
| 3791      | Trailer coaches.....1963..               | 713,119                         | 686,338          | 15,183             | 11,598                 | 98                                   | 690,339                            | 686,338               | 4,001                    | 99                            |
|           | 1958..                                   | 461,053                         | 441,635          | 4,108              | 15,310                 | 99                                   | 444,782                            | 441,635               | 3,147                    | 99                            |
| 3799      | Transportation equipment, n.e.c...1963.. | 167,375                         | 141,916          | 16,720             | 8,739                  | 89                                   | 190,438                            | 141,916               | 48,522                   | 75                            |
|           | 1958..                                   | 92,811                          | 73,005           | 11,971             | 7,835                  | 86                                   | 99,954                             | 73,005                | 26,949                   | 73                            |

Note: See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>Represents the value of work done.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars except for ranges (shown in parentheses) which are expressed in millions of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous

receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                            | Class of products and miscellaneous receipts   | All industries | Ship building and repairing (SIC 3731) | Other industries |
|---|--|----------------|--|------------------|
| <b>SHIP BUILDING AND REPAIRING INDUSTRY</b> |  |                |  |                  |
|   | Total value of work done, shipments, and receipts of the industry.....   | (X)            | 1,679,765                              | (X)              |
|   | Primary products, total.....   | 1,518,015      | 1,507,891                              | 10,124           |
| 37311                                       | Nonpropelled ships (barges, etc.), new construction.....   | 82,238         | 81,571                                 | 667              |
| 37312                                       | Self-propelled U.S. military ships, new construction.....  | 681,793        | 677,208                                | 4,585            |
| 37313                                       | Self-propelled nonmilitary ships, new construction.....  | 242,770        | 241,712                                | 1,058            |
| 37314                                       | Ship repair, U.S. military.....  | 221,851        | 220,794                                | 1,057            |
| 37316                                       | Repair of nonmilitary ships.....   | 277,423        | 274,666                                | 2,757            |
| 37310                                       | Ship building and repairing, n.s.k.....  | 11,940         | 11,940                                 | -                |
|   | Secondary products, total.....   | (X)            | 117,950                                | (X)              |
| 34411                                       | Fabricated structural iron and steel for buildings.....  | (X)            | 6,826                                  | (X)              |
| 34412                                       | Fabricated structural iron and steel for bridges.....  | (X)            | 3,293                                  | (X)              |
| 34413                                       | Other fabricated structural iron and steel.....  | (X)            | 25,823                                 | (X)              |
| 35595                                       | Other special industry machinery, and equipment.....   | (X)            | 3,984                                  | (X)              |
|   | Other secondary products.....  | (X)            | 78,024                                 | (X)              |
| 34336                                       | Other heating equipment (except electric) and parts for nonelectric heating equipment.....   | (X)            | (over 2)                               | (X)              |
| 34431                                       | Heat exchangers and steam condensers.....  | (X)            | (2-5)                                  | (X)              |
| 34432                                       | Fabricated steel plate, including stacks and weldments.....  | (X)            | (2-5)                                  | (X)              |
| 35112                                       | Steam, gas, and hydraulic turbine and parts; steam engines and parts.....  | (X)            | (2-5)                                  | (X)              |
| 35314                                       | Power cranes (including locomotive, full circle, revolving with booms) draglines, shovels and parts.....                             | (X)            | (5-10)                                 | (X)              |
| 35540                                       | Paper industries, machinery and parts and attachments.....   | (X)            | (2-5)                                  | (X)              |
| 35611                                       | Industrial pumps, except hydraulic fluid power.....  | (X)            | (2-5)                                  | (X)              |
| 35690                                       | General industrial machinery, n.e.c.....   | (X)            | (over 2)                               | (X)              |
| 35990                                       | Carburetors, pistons, and other machine shop products.....   | (X)            | (5-10)                                 | (X)              |
| 37324                                       | Boat repair.....   | (X)            | (over 2)                               | (X)              |
|   | Miscellaneous receipts, total.....   | (X)            | 53,924                                 | (X)              |
|   | Contract and commission work.....  | (X)            | 8,180                                  | (X)              |
|   | Sales of products bought and resold.....   | (X)            | 7,173                                  | (X)              |
|   | Scrap and salable refuse.....  | (X)            | 4,862                                  | (X)              |
|   | Other.....   | (X)            | 33,709                                 | (X)              |
| 37316                                       | Listing of other industries with over \$2 million shipments of the primary product classes:<br>3732 Boat building and repairing..... | (X)            | (X)                                    | 2,522            |
|   |  | All industries | Boat building and repairing (SIC 3732) | Other industries |
| <b>BOAT BUILDING AND REPAIRING INDUSTRY</b> |  |                |  |                  |
|   | Total shipments and receipts of the industry.....  | (X)            | 360,208                                | (X)              |
|   | Primary products, total.....   | 338,118        | 321,665                                | 16,453           |
| 37321                                       | Inboard motor boats (all types).....   | 125,893        | 122,634                                | 3,259            |
| 37322                                       | Outboard motor boats (all types including prefabricated kits).....   | 79,600         | 77,622                                 | 1,978            |
| 37323                                       | All other boats (sailboats, rowboats, canoes, etc.).....   | 36,527         | 33,028                                 | 3,499            |
| 37324                                       | Boat repair, military and nonmilitary.....   | 42,630         | 35,229                                 | 7,401            |
| 37320                                       | Boat building and repairing, n.s.k.....  | 53,468         | 53,152                                 | 316              |
|   | Secondary products, total.....   | (X)            | 11,649                                 | (X)              |
| 37316                                       | Repair of nonmilitary ships.....   | (X)            | 2,522                                  | (X)              |
|   | Other secondary products.....  | (X)            | 9,127                                  | (X)              |
|   | Miscellaneous receipts, total.....   | (X)            | 26,894                                 | (X)              |
|   | Contract and commission work.....  | (X)            | 2,102                                  | (X)              |
|   | Sales of products bought and resold.....   | (X)            | 15,379                                 | (X)              |
|   | Other.....   | (X)            | 9,413                                  | (X)              |
| 37324                                       | Listing of other industries with over \$2 million shipments of the primary product classes:<br>3731 Ship building and repairing..... | (X)            | (X)                                    | (over 2)         |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code  | Class of products and miscellaneous receipts   | All industries | Locomotives and parts (SIC 3741)    | Other industries |
|---|--|----------------|-------------------------------------|------------------|
| LOCOMOTIVES AND PARTS INDUSTRY  |  |                |                                     |                  |
|   | Total shipments and receipts of the industry.....  | (X)            | 437,872                             | (X)              |
|   | Primary products, total.....   | 378,088        | 341,955                             | 36,133           |
| 37411   | Locomotives, new, railroad road service type, and switching type.....  | 132,699        | (D)                                 | (D)              |
| 37412   | Other new locomotives; industrial and mining type.....   | 8,715          | (D)                                 | (D)              |
| 37413   | Parts for locomotives, for sale separately, and rebuilt locomotives.....   | 236,674        | 202,949                             | 33,725           |
|   | Secondary products, total.....   | (X)            | 70,476                              | (X)              |
| 35192   | Diesel and semidiesel engines.....   | (X)            | (over 2)                            | (X)              |
| 35197   | Parts and accessories for internal combustion engines.....   | (X)            | (over 2)                            | (X)              |
| 36213   | Land transportation motors, generators, and control equipment and parts.....                                       | (X)            | (20-50)                             | (X)              |
| 36214   | Prime mover generator sets, except steam or hydraulic turbine.....   | (X)            | (over 2)                            | (X)              |
|   | Miscellaneous receipts.....  | (X)            | 25,441                              | (X)              |
| Listing of other industries with over \$2 million shipments of the primary product classes: |  |                |                                     |                  |
| 37413   | 3323 Steel foundries.....  | (X)            | (X)                                 | (2-5)            |
|   | 3519 Internal combustion engines.....  | (X)            | (X)                                 | (over 2)         |
|   | 3585 Refrigeration machinery.....  | (X)            | (X)                                 | (over 2)         |
|   | 3722 Aircraft engines and parts.....   | (X)            | (X)                                 | (over 2)         |
|   | 3742 Railroad and street cars.....   | (X)            | (X)                                 | (5-10)           |
|   |  | All industries | Railroad and street cars (SIC 3742) | Other industries |
| RAILROAD AND STREET CARS INDUSTRY   |  |                |                                     |                  |
|   | Total shipments and receipts of the industry.....  | (X)            | 927,184                             | (X)              |
|   | Primary products, total.....   | 870,972        | 813,394                             | 57,578           |
| 37421   | Passenger train cars, new.....   | 36,470         | 36,470                              | -                |
| 37422   | Freight train cars, new.....   | 522,992        | (D)                                 | (D)              |
| 37423   | Street cars, and parts and accessories for railroad and street cars; rebuilt passenger and freight train cars..... | 310,227        | (D)                                 | (D)              |
| 37420   | Railroad and street cars, n.s.k.....   | 1,283          | (D)                                 | (D)              |
|   | Secondary products, total.....   | (X)            | 83,395                              | (X)              |
| 19310   | Tanks and tank components.....   | (X)            | (over 2)                            | (X)              |
| 34411   | Fabricated structural iron and steel for buildings.....  | (X)            | (over 2)                            | (X)              |
| 34990   | Fabricated metal products, n.e.c.....  | (X)            | (5-10)                              | (X)              |
| 35319   | Other construction machinery and equipment, including construction machinery parts, n.e.c.....                     | (X)            | (5-10)                              | (X)              |
| 35591   | Chemical manufacturing industries machinery and equipment.....   | (X)            | (over 2)                            | (X)              |
| 37291   | Other aircraft parts and auxiliary equipment.....  | (X)            | (5-10)                              | (X)              |
| 37413   | Parts for locomotives, for sale separately, and rebuilt locomotives.....   | (X)            | (5-10)                              | (X)              |
| 38111   | Aircraft flight, nautical, and navigational instruments and automatic pilot.....                                   | (X)            | (over 2)                            | (X)              |
|   | Miscellaneous receipts, total.....   | (X)            | 30,395                              | (X)              |
|   | Contract and commission work.....  | (X)            | 793                                 | (X)              |
|   | Sales of products bought and resold.....   | (X)            | 8,480                               | (X)              |
|   | Repair work.....   | (X)            | 8,680                               | (X)              |
|   | Other.....   | (X)            | 12,442                              | (X)              |
| Listing of other industries with over \$2 million shipments of the primary product classes: |  |                |                                     |                  |
| 3742-   | 3323 Steel foundries.....  | (X)            | (X)                                 | 17,125           |
|   | 3429 Hardware, n.e.c.....  | (X)            | (X)                                 | (over 2)         |
|   | 3441 Fabricated structural steel.....  | (X)            | (X)                                 | (10-20)          |
|   | 3717 Motor vehicles and parts.....   | (X)            | (X)                                 | 7,470            |
|   | 3722 Aircraft engines and parts.....   | (X)            | (X)                                 | (over 2)         |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code                           | Class of products and miscellaneous receipts  | All industries | Motorcycles, bicycles, and parts (SIC 3751) | Other industries |
|--|---|----------------|---|------------------|
| MOTORCYCLES, BICYCLES, AND PARTS INDUSTRY  |   |                |   |                  |
|  | Total shipments and receipts of the industry.....   | (X)            | 192,851                                     | (X)              |
| 37510                                      | Bicycles, motorcycles, motorbikes, scooters, and parts.....   | 163,355        | 151,967                                     | 11,388           |
|  | Secondary products, total.....  | (X)            | 31,789                                      | (X)              |
| 35227                                      | Lawn mowers and parts.....  | (X)            | (2-5)                                       | (X)              |
| 36341                                      | Electric fans, except industrial type.....  | (X)            | (over 2)                                    | (X)              |
| 39430                                      | Baby carriages and childrens' vehicles, except bicycles.....  | (X)            | (10-20)                                     | (X)              |
|  | Miscellaneous receipts, total.....  | (X)            | 9,095                                       | (X)              |
|  | Contract and commission work.....   | (X)            | 55  | (X)              |
|  | Sales of products bought and resold.....  | (X)            | 7,572                                       | (X)              |
|  | Other miscellaneous receipts.....   | (X)            | 1,468                                       | (X)              |
| 37510                                      | Listing of other industries with over \$2 million shipments of the primary product classes:                         |                |   |                  |
|  | 3717 Motor vehicles and parts.....  | (X)            | (X)   | (2-5)            |
|  | 3943 Children's vehicles.....   | (X)            | (X)   | (2-5)            |
| TRAILER COACHES INDUSTRY                   |   |                |   |                  |
|  | Total shipments and receipts of the industry.....   | (X)            | 713,119                                     | (X)              |
| 37910                                      | Trailer coaches, housing type.....  | 690,339        | 686,338                                     | 4,001            |
|  | Secondary products, total.....  | (X)            | 15,183                                      | (X)              |
| 37991                                      | Automobile trailers, excluding housing type coaches.....  | (X)            | 3,891                                       | (X)              |
|  | Other secondary products.....   | (X)            | 11,292                                      | (X)              |
|  | Miscellaneous receipts.....   | (X)            | 11,598                                      | (X)              |
|  | Contract and commission work.....   | (X)            | 137   | (X)              |
|  | Sales of products bought and resold.....  | (X)            | 9,313                                       | (X)              |
|  | Other miscellaneous receipts.....   | (X)            | 2,148                                       | (X)              |
| TRANSPORTATION EQUIPMENT, N.E.C., INDUSTRY |   |                |   |                  |
|  | Total shipments and receipts of the industry.....   | (X)            | 167,375                                     | (X)              |
|  | Primary products, total.....  | 190,438        | 141,916                                     | 48,522           |
| 37991                                      | Automobile trailers, excluding housing type coaches.....  | 67,645         | 59,997                                      | 7,648            |
| 37992                                      | Other transportation equipment.....   | 107,459        | 66,768                                      | 40,691           |
| 37990                                      | Transportation equipment, n.e.c., n.s.k.....  | 15,334         | 15,151                                      | 183              |
|  | Secondary products, total.....  | (X)            | 16,720                                      | (X)              |
| 37176                                      | Parts and accessories for passenger cars, trucks, and busses shipped to other than motor vehicle manufacturers..... | (X)            | 3,083                                       | (X)              |
|  | Other secondary products.....   | (X)            | 13,637                                      | (X)              |
|  | Miscellaneous receipts, total.....  | (X)            | 8,739                                       | (X)              |
|  | Contract and commission work.....   | (X)            | 2,297                                       | (X)              |
|  | Sales of products bought and resold.....  | (X)            | 3,585                                       | (X)              |
|  | Other miscellaneous receipts.....   | (X)            | 2,857                                       | (X)              |
| 37991                                      | Listing of other industries with over \$2 million shipments of the primary product classes:                         |                |   |                  |
|  | 3791 Trailer coaches.....   | (X)            | (X)   | 3,891            |
| 37992                                      | 3522 Farm machinery and equipment.....  | (X)            | (X)   | 24,946           |
|  | 3943 Children's vehicles.....   | (X)            | (X)   | (2-5)            |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.



TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Total shipments including interplant transfers <sup>1</sup> |                    |                       |                       |
|--------------|---|---|--------------------|-----------------------|-----------------------|
|              |   | 1963  |                    | 1958                  |                       |
|              |   | Quantity  | Value<br>(\$1,000) | Quantity              | Value<br>(\$1,000)    |
|              |   | (number of ships)   |                    | (number of ships)     |                       |
| 3731- --     | SHIP BUILDING AND REPAIRING, TOTAL <sup>2</sup> .....   | (X)   | 1,518,015          | (X)                   | 1,467,381             |
| 37311 --     | Nonpropelled ships (barges, etc.) new construction.....   | (X)   | 82,238             | (X)                   | 95,266                |
| 37311 10     | Nonpropelled ships, new construction, military, including hopper barges, tank barges, covered cargo barges, deck barges, dredges, car floats, etc.....  | 202   | 1,646              | (NA)                  | ( <sup>3</sup> )      |
|              | Nonpropelled ships—nonmilitary ships, new construction:   |   |                    |                       |                       |
| 37311 21     | Hopper barges.....  | 490   | 18,765             | (NA)                  | 26,827                |
| 37311 31     | Tank barges.....  | 911   | 17,136             | (NA)                  | 12,670                |
| 37311 41     | Covered cargo barges.....   | 162   | 9,152              | (NA)                  | 12,901                |
| 37311 51     | Deck barges.....  | 229   | 7,593              | (NA)                  | 9,124                 |
| 37311 61     | Dredges.....  | 33  | 2,980              | (NA)                  | 2,108                 |
| 37311 71     | Car floats.....   | -   | -                  | (NA)                  | 334                   |
| 37311 81     | Other nonmilitary nonpropelled vessels.....   | 1,284   | 24,966             | (NA)                  | 31,302                |
| 37312 10     | Self-propelled ships, new construction, U.S. military (including combat ships, troop transport vessels, fleet auxiliaries service craft, etc.)...   | (X)   | 681,793            | (X)                   | 469,965               |
| 37313 10     | Self-propelled ships, new construction, nonmilitary (including passenger ships, passenger-cargo, dry cargo, tankers, towboats, tugboats, tender vessels, commercial sailing vessels, yachts, ferryboats, fireboats, etc.) | (X)   | 242,770            | (X)                   | 441,220               |
| 37314 --     | Ship repair, U.S. military.....   | (X)   | 221,851            | (X)                   | 123,828               |
|              | Military sea transportation service:  |   |                    |                       |                       |
| 37314 21     | Conversions and reconversions.....  | (X)   | 2,325              | (X)                   | 441,242               |
| 37314 29     | All other repairs.....  | (X)   | 25,435             | (X)                   | 582,596               |
|              | All other:  |   |                    |                       |                       |
| 37314 31     | Conversions and reconversions.....  | (X)   | 62,304             | (X)                   | ( <sup>4</sup> )      |
| 37314 39     | All other repairs.....  | (X)   | 131,787            | (X)                   | ( <sup>5</sup> )      |
| 37316 --     | Repair of nonmilitary ships.....  | (X)   | 277,423            | (X)                   | 326,778               |
|              | Maritime Administration:  |   |                    |                       |                       |
| 37316 13     | Conversions and reconversions.....  | (X)   | 19,421             | (X)                   | 40,104                |
| 37316 19     | All other repairs.....  | (X)   |                    | (X)                   |                       |
|              | All others:   |   |                    |                       |                       |
| 37316 53     | Conversions and reconversions.....  | (X)   | 19,326             | (X)                   | 61,543                |
| 37316 59     | All other repairs.....  | (X)   | 238,316            | (X)                   | 225,131               |
| 37316 00     | Repair of nonmilitary ships, n.s.k.....   | (X)   | 360                | (X)                   | -                     |
| 37310 00     | Ship building and repairing, n.s.k.....   | (X)   | 11,940             | (X)                   | <sup>3</sup> 10,314   |
|              |   | (number of boats)   |                    | (number of boats)     |                       |
| 3732- --     | BOAT BUILDING AND REPAIRING, TOTAL.....   | (X)   | 338,118            | (X)                   | 300,143               |
| 37321 --     | Inboard motor boats (all types).....  | (X)   | 125,893            | (X)                   | 76,095                |
| 37321 11     | Boats of special Army, Navy, or Coast Guard design (new construction)...  | (NA)  | 5,242              | (NA)                  | 3,582                 |
|              | Boats, nonmilitary, new construction (other than specially designed types built for the Army, Navy, or Coast Guard):  |   |                    |                       |                       |
|              | Motorboats, excluding sailboats with auxiliary power, lifeboats, and prefabricated boat construction kits:  |   |                    |                       |                       |
|              | Inboard powered boats:  |   |                    |                       |                       |
| 37321 31     | Runabouts (wood, metal, plastic reinforced).....  | 3,112   | 10,046             | ( <sup>6</sup> )      | ( <sup>6</sup> )      |
|              | Cabin cruisers:   |   |                    |                       |                       |
|              | Under 26' in length:  |   |                    |                       |                       |
| 37321 41     | Wood.....   | 1,928   | 7,574              | } <sup>6</sup> 11,446 | } <sup>6</sup> 32,051 |
| 37321 51     | Metal.....  | 29  | 129                |                       |                       |
| 37321 61     | Plastics (reinforced).....  | 982   | 3,289              |                       |                       |
|              | 26' or over and less than 40' in length:  |   |                    |                       |                       |
| 37321 43     | Wood.....   | 5,130   | 48,941             | } 2,698               | } 27,608              |
| 37321 53     | Metal.....  | 354   | 4,116              |                       |                       |
| 37321 63     | Plastics (reinforced).....  | 349   | 6,070              |                       |                       |
|              | 40' and over in length:   |   |                    |                       |                       |
| 37321 45     | Wood.....   | 349   | 15,927             | } 345                 | } 12,854              |
| 37321 55     | Metal.....  | 67  | 3,820              |                       |                       |
| 37321 65     | Plastics (reinforced).....  | 77  | 2,324              |                       |                       |
| 37321 71     | Inboard-outboard boats (inboard engine with outdrive propulsion)....  | 6,645   | 17,483             | (NA)                  | (NA)                  |
| 37321 00     | Inboard motor boats, n.s.k.....   | (X)   | 932                | (X)                   | -                     |

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code                                   | Product  | Total shipments including interplant transfers |                        |                               |                        |
|--|--|--|------------------------|-------------------------------|------------------------|
|  |  | 1963   |                        | 1958                          |                        |
|  |  | Quantity<br>(number of boats)                  | Value<br>(\$1,000)     | Quantity<br>(number of boats) | Value<br>(\$1,000)     |
| BOATS BUILDING AND REPAIRING—Continued         |  |  |                        |                               |                        |
| 37322 --                                       | Outboard motor boats (all types including prefabricated kits).....   | (X)  | 79,600                 | (X)                           | 108,360                |
|  | Outboard motor boats (all types) including prefabricated kits<br>(excluding sailboats with auxiliary power, lifeboats):    |  |                        |                               |                        |
|  | Runabouts:   |  |                        |                               |                        |
|  | 13'6" and under in length:   |  |                        |                               |                        |
| 37322 21                                       | Wood.....  | 5,761  | 1,284                  | } 764,902                     | } 714,857              |
| 37322 31                                       | Metal.....   | 37,322   | 3,734                  |                               |                        |
| 37322 41                                       | Plastic (reinforced).....  | 9,281  | 3,012                  |                               |                        |
|  | 13'7" to 15'6" in length:  |  |                        |                               |                        |
| 37322 23                                       | Wood.....  | 4,904  | 1,387                  | } 7140,384                    | } 752,772              |
| 37322 33                                       | Metal.....   | 30,292   | 6,332                  |                               |                        |
| 37322 43                                       | Plastic (reinforced).....  | 29,247   | 15,118                 |                               |                        |
|  | 15'7" to 17'6" in length:  |  |                        |                               |                        |
| 37322 25                                       | Wood.....  | 4,129  | 3,267                  | } 7 844,072                   | } 7 835,809            |
| 37322 35                                       | Metal.....   | 8,731  | 3,780                  |                               |                        |
| 37322 45                                       | Plastic (reinforced).....  | 25,909   | 22,208                 |                               |                        |
|  | 17'7" and over in length:  |  |                        |                               |                        |
| 37322 26                                       | Wood.....  | 3,071  | 3,422                  | } 7 844,072                   | } 7 835,809            |
| 37322 36                                       | Metal.....   | 1,574  | 983                    |                               |                        |
| 37322 46                                       | Plastic (reinforced).....  | 3,087  | 3,313                  |                               |                        |
|  | Utility:   |  |                        |                               |                        |
| 37322 27                                       | Wood.....  | 320  | 459                    | } (7)                         | } (7)                  |
| 37322 37                                       | Metal.....   | 17,307   | 2,937                  |                               |                        |
| 37322 47                                       | Plastic (reinforced).....  | 1,671  | 663                    |                               |                        |
|  | Cabin cruisers:  |  |                        |                               |                        |
| 37322 28                                       | Wood.....  | 691  | 1,137                  | } (8)                         | } (8)                  |
| 37322 38                                       | Metal.....   | 824  | 1,234                  |                               |                        |
| 37322 48                                       | Plastic (reinforced).....  | 2,735  | 3,706                  |                               |                        |
| 37322 51                                       | Prefabricated boat construction kits.....  | (NA)   | 193                    | 17,694                        | 4,922                  |
| 37322 00                                       | Outboard motor boats, n.s.k.....   | (X)  | 1,431                  | (X)                           | -                      |
| 37323 --                                       | All other boats (sailboats, rowboats, canoes, etc.).....   | (X)  | 36,527                 | (X)                           | 15,497                 |
| 37323 13                                       | Sailboats.....   | 13,724   | 17,924                 | } 26,071                      | } 15,497               |
| 37323 19                                       | Other boats, including rowboats, canoes, skiffs, dinghies, lifeboats,<br>etc.....  | 85,954   | 18,504                 |                               |                        |
| 37323 00                                       | All other boats, n.s.k.....  | (X)  | 99                     |                               |                        |
| 37324 --                                       | Boat repair—military and nonmilitary.....  | (X)  | 42,630                 | (X)                           | 55,086                 |
| 37324 11                                       | Repair of U.S. military boats (receipts for repair work done on Army,<br>Navy, or Coast Guard boats).....                  | (X)  | 7,066                  | (X)                           | 8,696                  |
| 37324 21                                       | Repair of nonmilitary boats (receipts for repair work done on all other<br>boats).....                                     | (X)  | 34,793                 | (X)                           | 46,390                 |
| 37324 00                                       | Boat repair, n.s.k.....  | (X)  | 771                    | (X)                           | -                      |
| 37320 00                                       | Boat building and repairing, n.s.k.....  | (X)  | 53,468                 | (X)                           | 45,105                 |
| Total shipments including interplant transfers |  |  |                        |                               |                        |
|  |  | 1963   |                        | 1958                          |                        |
|  |  | Quantity<br>(number of units)                  | Weight<br>(short tons) | Quantity<br>(number of units) | Weight<br>(short tons) |
|  |  | Value<br>(\$1,000)                             |                        | Value<br>(\$1,000)            |                        |
| 3741- --                                       | LOCOMOTIVES AND PARTS, TOTAL <sup>9</sup> .....  | (X)  | (X)                    | (X)                           | (X)                    |
| 37411 --                                       | Road service, road switching and switching type locomotives, total.....  | (X)  | (X)                    | (X)                           | (X)                    |
| 37411 41                                       | Diesel-electric.....   | } 686  | } 73,756               | } 1,140                       | } 116,660              |
| 37411 43                                       | Other.....   |  |                        |                               |                        |
| 37412 --                                       | Mining and industrial types (including diesel-electric, diesel-<br>mechanical, electric storage battery, etc.), total..... | (X)  | (X)                    | (X)                           | (X)                    |
| 37412 11                                       | Mining type as reported on Census Form MA-35F.....   | 181  | (X)                    | (X)                           | (X)                    |
| 37412 17                                       | Mining type as reported in census of manufactures.....   | (X)  | 1,942                  | } 363                         | } 9,150                |
|  | Industrial type.....   | 72   | 2,821                  |                               |                        |

See footnotes at end of table.





TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                 |          |                 |
|--------------|---|-----------------|--|-----------------|----------|-----------------|
|              |   |                 | 1963   |                 | 1958     |                 |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 3799- --     | TRANSPORTATION EQUIPMENT, N.E.C., TOTAL.....  |                 | (X)  | 190,438         | (X)      | 99,954          |
| 37991 --     | Automobile trailers, excluding housing type coaches.....  |                 | (X)  | 67,645          | (X)      | 22,653          |
| 37991 15     | Automobile trailers, excluding housing type coaches (commercial display, utility, camp, etc.) complete units..... | 1,000 units.... | 73   | 60,072          | 25       | 11,888          |
| 37991 51     | Chassis for automobile trailers, sold separately.....   | ..do.....       | (NA)   | 6,405           | 54       | 10,765          |
| 37991 00     | Automobile trailers, excluding housing type coaches, n.s.k.....   |                 | (X)  | 1,168           | (X)      | -               |
| 37992 --     | Other transportation equipment.....   |                 | (X)  | 107,459         | (X)      | 77,301          |
|              | Farm wagons, trucks, and other farm transportation equipment and parts:   |                 |  |                 |          |                 |
|              | As reported in the census of manufactures.....  |                 | (X)  | 45,818          | (X)      | 30,773          |
|              | As reported on Census Annual Form MA-35A.....   |                 | (X)  | 48,196          | (X)      | 37,501          |
|              | Wagons and trucks (chassis only) and trailer gears:   |                 |  |                 |          |                 |
| 37992 13     | 2-wheel.....  | 1,000 units.... | 2  | 436             | 2        | 604             |
| 37992 14     | 4-wheel.....  | ..do.....       | 92   | 12,225          | 105      | 13,180          |
|              | Boxes and racks for mounting on wagons, trucks, and trailer gears:  |                 |  |                 |          |                 |
| 37992 15     | Manual unloading or dump.....   | ..do.....       | 26   | 6,870           | 40       | 6,883           |
|              | Power unloading:  |                 |  |                 |          |                 |
| 37992 16     | Grain type (cannot handle forage).....  | ..do.....       | 11   | 3,108           | 14       | 6,510           |
|              | Forage type:  |                 |  |                 |          |                 |
| 37992 17     | Rear unloading only.....  | ..do.....       | 7  | 2,910           |          |                 |
| 37992 18     | Side unloading (with or without rear unloading).....  | ..do.....       | 16   | 13,434          |          |                 |
| 37992 19     | Other farm transportation equipment.....  |                 | (X)  | 4,573           | (X)      | 2,885           |
| 37992 21     | Attachments.....  |                 | (X)  | 2,865           | (X)      | 3,772           |
| 37992 22     | Parts.....  |                 | (X)  | 1,775           | (X)      | 3,667           |
| 37992 31     | Handcarts and pushcarts, including parts and attachments.....   |                 | (X)  | 6,636           | (X)      | 8,855           |
| 37992 53     | Wheelbarrows.....   | 1,000 units.... | 1,200  | 8,239           | (NA)     | 6,642           |
| 37992 91     | Boat trailers.....  | ..do.....       | 97   | 13,903          | 178      | 19,878          |
| 37992 98     | Other miscellaneous transportation equipment.....   |                 | (X)  | 22,550          | (X)      | 7,357           |
| 37992 00     | Miscellaneous transportation equipment, n.s.k.....  |                 | (X)  | 10,313          | (X)      | 3,796           |
| 37990 00     | Transportation equipment, n.e.c., n.s.k.....  |                 | (X)  | 15,334          | (X)      | (NA)            |

Standard Note: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>The total value of work done for ship building and repairing differs from "value of shipments." See text for explanation. However, the figures for codes 3731110 through 3731181 are value of shipments.

<sup>2</sup>Excludes products manufactured by facilities operated by the Department of Defense, or at Federal, District of Columbia, and State prisons.

<sup>3</sup>In 1958, data for code 3731110, "Nonpropelled ships, new construction, military, including hopper barges, etc." were withheld to avoid disclosing figures for individual companies. They are included with code 3731000 "Ship building and repairing, not specified by kind."

<sup>4</sup>In 1958 code 3731431, "All other conversions and reconversions" was included with code 3731421, "Military sea transportation service, conversions and reconversions."

<sup>5</sup>In 1958 code 3731439, "All other repairs" was included with code 3731429, "Military sea transportation service, all other repairs."

<sup>6</sup>1958 data for inboard powered runabouts, code 3732131, were included with cabin cruisers based on length of boat. Such runabouts are almost all under 26' in length.

<sup>7</sup>1958 data for outboard powered utility boats, codes 3732227, 3732237, and 3732247, are included with runabouts based on length of boat.

<sup>8</sup>1958 data for outboard powered cabin cruisers, codes 3732228, 3732238, and 3732248, were included with runabouts based on length of boat. Such cabin cruisers are almost all over 15'7" in length.

<sup>9</sup>Data excludes parts shipped by railroad repair shops. No new or rebuilt locomotives were produced in railroad repair shops in either 1963 or 1958.

<sup>10</sup>See table 6A-1 for quantity and value of shipments of new and rebuilt railroad cars shipped by shops of operating railroads in the United States.

<sup>11</sup>Product class 37422 and product code 3742298 include an undetermined value from product class 37423 and 3742331.

<sup>12</sup>In 1958 data for box cars (code 3542211) are included with figures for other freight train cars (code 3742298) in 1958.

<sup>13</sup>In 1958, an undetermined dollar amount of other automobile trailers (boat, camping, commercial display, etc.) was included in code 3791000.



TABLE 6A-2. New and Rebuilt Passenger and Freight Train Cars Shipped by Shops of Operating Railroads: 1963 and 1958

| Product code | Product <sup>1</sup>   | Total shipments including interplant transfers |                     |                 |                            |                     |                     |
|--------------|--|--|---------------------|-----------------|----------------------------|---------------------|---------------------|
|              |  | 1963   |                     |                 | 1958                       |                     |                     |
|              |  | Quantity (number of units)                     | Weight (short tons) | Value (\$1,000) | Quantity (number of units) | Weight (short tons) | Value (\$1,000)     |
| 3742--       | NEW AND REBUILT <sup>2</sup> PASSENGER AND FREIGHT TRAIN CARS, TOTAL <sup>3</sup> .....                                    | 18,255   | (X)                 | 178,489         | 17,401                     | (X)                 | 152,562             |
| 37421--      | New passenger train cars.....  | (X)  | (X)                 | (X)             | -                          | -                   | -                   |
| 37421 11     | Coach (excluding coach combination).....   | (X)  | (X)                 | (4)             | -                          | -                   | -                   |
| 37421 98     | Other passenger train cars.....  | (X)  | (X)                 | (4)             | -                          | -                   | -                   |
| 37422--      | New freight train cars.....  | (X)  | (X)                 | (X)             | (X)                        | (X)                 | (X)                 |
| 37422 11     | Box.....   | 4,752  | 150,864             | 64,949          | (X)                        | (X)                 | (5)                 |
| 37422 15     | Flat.....  | 497  | 18,943              | 8,208           | 630                        | 18,539              | 4,462               |
| 37422 25     | Gondola.....   | -  | -                   | -               | 3,257                      | 91,564              | 34,779              |
| 37422 31     | Hopper (covered).....  | -  | -                   | -               | -                          | -                   | -                   |
| 37422 33     | Hopper (uncovered).....  | 5,368  | 121,896             | 46,888          | 4,863                      | 125,865             | 39,254              |
| 37422 35     | Tank.....  | -  | -                   | -               | -                          | -                   | -                   |
| 37422 41     | Refrigerator.....  | 921  | 39,627              | 19,123          | -                          | -                   | -                   |
| 37422 45     | Caboose.....   | (X)  | (X)                 | (4)             | -                          | -                   | -                   |
| 37422 98     | Other freight train cars, including industrial rail cars not suitable for use on common carriers.....                      | (X)  | (X)                 | (4)             | -                          | -                   | -                   |
| 37423--      | Rebuilt cars and other cars.....   | (X)  | (X)                 | (X)             | 8,651                      | (NA)                | <sup>5</sup> 74,067 |
| 37423 31     | Rebuilt passenger train cars.....  | (X)  | (X)                 | (4)             | -                          | -                   | -                   |
| 37423 51     | Rebuilt freight train cars.....  | 5,845  | 62,476              | 30,483          | -                          | -                   | -                   |
| 37423 13     | Other cars, including railroad work equipment, street, subway, rapid transit, trackless trolleys, and interurban cars..... | 872  | (NA)                | 48,838          | -                          | -                   | -                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>Values of railroad cars built by railroads for own use represents the amounts at which they were written into property accounts.

<sup>2</sup>A passenger and freight train car is defined as rebuilt when the cost of their dismantling, improvement and modernization is more than 50 percent of the replacement cost of a new unit of the same class and kind at the time of rebuilding. Conversions, reclassifications or units which were reconditioned by replacing defective parts are not included.

<sup>3</sup>Excludes parts for passenger and freight cars, made in railroad car shops.

<sup>4</sup>The 1963 product codes 3742111, 3742198, 3742245, 3742298, and 3742331 are included with the figure for "Other cars" (code 3742313).

<sup>5</sup>The 1958 product code 3742211 is included in the figure of \$74,067 thousand.

TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products, Shipped by All Producers: 1963 and 1958

| Product code | Product and year  | Indexes (1954 = 100) |            | Product code | Product and year   | Indexes (1954 = 100) |            |
|--------------|---|----------------------|------------|--------------|--|----------------------|------------|
|              |   | Production           | Unit value |              |  | Production           | Unit value |
| 373--        | Ship and boat building.....   | 1963.. (1)           | (1)        | 374--        | Railroad equipment.....  | 110                  | 136        |
|              | 1958.. (1)  | (1)                  |            |              | 1958.. 88  | 121                  |            |
| 3731-        | Shipbuilding and repairing.....   | 1963.. (1)           | (1)        | 3741-        | Locomotives and parts <sup>3</sup> .....                                   | 86                   | 119        |
|              | 1958.. (1)  | (1)                  |            |              | 1958.. 89  | 109                  |            |
| 37311        | Nonpropelled ships (barges, etc.)<br>new construction, nonmilitary...1963.. | 141                  | 84         | 37411        | Road service, road switching and<br>switching type locomotives.....1963..  | 47                   | 120        |
|              | 1958..  | 138                  | 100        |              | 1958..   | 79                   | 109        |
| 37313        | Self-propelled ships—nonmilitary,<br>new construction.....1963..            | 132                  | 81         | 3742-        | Railroad and street cars <sup>4</sup> .....1963..                          | 125                  | 149        |
|              | 1958..  | 194                  | 100        |              | 1958..   | 87                   | 129        |
| 3732-        | Boat building and repairing <sup>2</sup> .....1963..                        | 185                  | 114        | 37422        | Freight train cars, new.....1963..   | 154                  | 149        |
|              | 1958..  | 146                  | 126        |              | 1958..   | 106                  | 129        |
| 37321        | Inboard motor boats (all types)...1963..                                    | 163                  | 135        | 3751-        | Bicycles, motorcycles, motorbikes,<br>motor scooters, and parts.....1963.. | 226                  | 81         |
|              | 1958..  | 99                   | 128        |              | 1958..   | 130                  | 92         |
| 37322        | Outboard motor boats (all types<br>including prefabricated kits.....1963..  | 423                  | 115        | 379--        | Transportation equipment, n.e.c.....1963..                                 | (5)                  | (5)        |
|              | 1958..  | 523                  | 130        |              | 1958..   | (5)                  | (5)        |
| 37323        | All other boats (sailboats, row-<br>boats, canoes etc.).....1963..          | 233                  | 77         | 3791-        | Trailer coaches, housing type.....1963..                                   | 279                  | 110        |
|              | 1958..  | 65                   | 117        |              | 1958..   | 195                  | 105        |
|              |   |                      |            | 3799-        | Transportation equipment, n.e.c.....1963..                                 | (5)                  | (5)        |
|              |   |                      |            |              | 1958..   | (5)                  | (5)        |

n.e.c. Not elsewhere classified.

<sup>1</sup>Not shown because comparable quantity data were not obtained for a significant portion of these products.

<sup>2</sup>Adjusted to include boat repair—military and nonmilitary (product class 37324) as well as boat building and repairing, n.s.k.

<sup>3</sup>Adjusted to include parts for locomotives, for sale separately, and rebuilt locomotives (product class 37413), as well as mining and industrial type locomotives (product class 37412).

<sup>4</sup>Indexes exclude cars shipped by shops of operating railroads. Production indexes have been adjusted to include product class 37421 (passenger train cars, new) and product class 37423 (street cars, parts and accessories for railroad cars and street cars, and rebuilt passenger and freight train cars).

<sup>5</sup>Not shown pending further review of data covering automobile trailers, excluding housing type coaches (product class 37991) and selected items in product class 37992 (other transportation equipment).

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class   | 1963      | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958                          | 1954                   | 1947                   |
|-------|---|-----------|-------------------|-------------------|-------------------|-------------------|-------------------------------|------------------------|------------------------|
| 3731- | Ship building and repairing <sup>2</sup> .....  | 1,518,015 | 1,400,008         | 1,360,038         | 1,215,744         | 1,447,149         | 1,467,381                     | 970,279                | 756,510                |
| 37311 | Nonpropelled ships (barges, etc.) new construction <sup>2</sup> .....   | 82,238    | 52,794            | 50,423            | 54,320            | 77,050            | 95,266                        | 69,138                 | 25,549                 |
| 37312 | Self-propelled U.S. military ships, new construction <sup>2</sup> .....   | 681,793   | 507,283           | 500,980           | 405,978           | 563,687           | 469,965                       | 296,263                | 52,168                 |
| 37313 | Self-propelled nonmilitary ships, new construction <sup>2</sup> .....   | 242,770   | 378,539           | 329,361           | 350,587           | 378,347           | 441,220                       | 227,424                | 132,009                |
| 37314 | Ship repair, U.S. military <sup>2</sup> .....   | 221,851   | 171,479           | 165,304           | 121,795           | 119,118           | 123,838                       | 133,315                | 48,452                 |
| 37316 | Repair of nonmilitary ships <sup>2</sup> .....  | 277,423   | 278,764           | 296,328           | 274,352           | 301,103           | 326,778                       | 239,884                | 491,104                |
| 37310 | Ship building and repairing, n.s.k. <sup>2</sup> .....  | 11,940    | (11,149)          | (17,642)          | (8,712)           | (7,844)           | 10,314                        | 4,255                  | 7,228                  |
| 3732- | Boat building and repairing.....  | 338,118   | 294,978           | 290,012           | 331,203           | 341,816           | 300,143                       | 163,605                | 105,446                |
| 37321 | Inboard motorboats (all types).....   | 125,893   | 91,539            | 87,032            | 99,914            | 87,373            | 76,095                        | 60,335                 | } 65,279               |
| 37322 | Outboard motorboats (all types including prefabricated kits).....   | 79,600    | 90,870            | 102,544           | 128,684           | 134,638           | 108,360                       | 15,942                 |                        |
| 37323 | All other boats (sailboats, rowboats, canoes, etc.).....  | 36,527    | (S)               | (S)               | (S)               | (S)               | 15,497                        | 20,370                 | } 30,787               |
| 37324 | Boat repair, military and nonmilitary.....  | 42,630    | 53,497            | 49,266            | 46,133            | 51,071            | 55,086                        | 46,722                 |                        |
| 37320 | Boat building and repairing.....  | 53,468    | (S)               | (S)               | (S)               | (S)               | 45,105                        | 20,236                 | 9,380                  |
| 3741- | Locomotives and parts.....  | 378,088   | 402,447           | 294,527           | 333,352           | 351,725           | 355,168                       | 365,169                | 396,635                |
| 37411 | Locomotives, new, railroad, road service type and switching type.....   | 132,699   | 194,374           | 146,866           | 161,424           | 193,778           | 204,912                       | 237,788                | 285,232                |
| 37412 | Other new locomotives, industrial and mining type.....  | 8,715     | (5,992)           | (7,714)           | 10,349            | 11,632            | 14,796                        | 14,882                 | 15,511                 |
| 37413 | Parts for locomotives, for sale separately, and rebuilt locomotives.....  | 236,674   | 202,081           | 139,947           | 161,579           | 146,315           | 135,460                       | 112,499                | 95,892                 |
| 3742- | Railroad and street cars.....   | 870,972   | 647,588           | 519,507           | 752,774           | 514,616           | 528,598                       | 468,233                | <sup>3</sup> 713,269   |
| 37421 | Passenger train cars, new.....  | 36,470    | 16,561            | 18,132            | 39,253            | 12,210            | 11,416                        | 96,180                 | <sup>3</sup> 77,216    |
| 37422 | Freight train cars, new.....  | 522,992   | 369,570           | 263,588           | } 710,203         | } 499,088         | } <sup>4</sup> 319,262        | } <sup>4</sup> 227,093 | } <sup>3</sup> 393,258 |
| 37423 | Street cars and parts and accessories for railroad and street cars; rebuilt passenger and freight train cars..... | 310,227   | 257,776           | 234,432           |                   |                   |                               |                        |                        |
| 37420 | Railroad and street cars, n.s.k.....  | 1,283     | (3,681)           | (3,355)           | (3,318)           | (3,318)           | <sup>4</sup> 196,539<br>1,381 | <sup>4</sup> 144,960   | <sup>3</sup> 242,795   |
| 37510 | Bicycles, motorcycles, motorbikes, scooters and parts.....  | 163,355   | 142,251           | 125,975           | 123,230           | 133,639           | 105,821                       | 88,340                 | 158,652                |
| 37910 | Trailer coaches, housing types.....   | 690,339   | 499,989           | 447,653           | 505,089           | 464,073           | <sup>5</sup> 444,782          | <sup>5</sup> 216,909   | 121,834                |
| 3799- | Transportation equipment, n.e.c.....  | 190,438   | 119,870           | 118,429           | 112,446           | 120,223           | 99,954                        | 58,497                 | 70,016                 |
| 37991 | Automobile trailers, excluding housing type coaches.....  | 67,645    | (40,344)          | (26,173)          | (37,045)          | (34,804)          | 22,653                        | 14,615                 | 14,016                 |
| 37992 | Other transportation equipment.....   | 107,459   | } 79,526          | } 92,256          | } 75,401          | } 85,419          | } 77,301                      | } 43,882               | } 56,000               |
| 37990 | Transportation equipment, n.e.c., n.s.k.....  | 15,334    |                   |                   |                   |                   |                               |                        |                        |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

(S) Withheld because the estimate did not meet publication standards on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Represents value of work done rather than value of shipments.

<sup>3</sup>Data include value of new and rebuilt railroad cars made in railroad car shops. The 1947 total and detailed statistics include \$37.9 million of new railroad cars shipped by railroad repair shops. Value of railroad cars built by railroads for own use represent amounts at which they were written into property accounts.

<sup>4</sup>Product class 37422 includes an undetermined value from product class 37423.

<sup>5</sup>Includes an undetermined dollar amount of other automobile trailers (boat, camping, commercial display, etc.).



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area  | Value of shipments |                  | Product class and geographic area                                    | Value of shipments |                  | Product class and geographic area  | Value of shipments |                  |
|--|--------------------|------------------|--|--------------------|------------------|--|--------------------|------------------|
|  | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |
| NONPROPELLED SHIPS (BARGES, ETC.), NEW CONSTRUCTION <sup>2</sup> (37311)   |                    |                  | REPAIR OF NONMILITARY SHIPS <sup>2</sup> (37316)—Continued           |                    |                  | FREIGHT TRAIN CARS, NEW (37422)  |                    |                  |
|  |                    |                  |  |                    |                  |  |                    |                  |
| United States, total....   | 82,238             | 95,266           | North Central.....   | 17,612             | 24,613           | United States, total...  |                    | 522,992          |
| Northeast and North Central.   | 30,998             | 26,503           | South Atlantic.....  | 91,000             | 110,947          | Middle Atlantic.....   |                    | 154,385          |
| South Atlantic.....  | 4,866              | 6,508            | Florida.....   | 27,358             | 18,571           | North Central.....   |                    | 204,137          |
| East South Central.....  | 7,443              | 21,840           | East South Central.....  | 15,336             | 32,722           | Ohio.....  |                    | 49,493           |
| West South Central.....  | 35,381             | 35,225           | West South Central.....  | 45,243             | 39,704           | South and West.....  |                    | 164,470          |
| Louisiana.....   | 16,472             | 14,836           | Louisiana.....   | 23,210             | 21,127           |  |                    |                  |
| Texas.....   | 18,909             | 20,389           | Texas.....   | 22,033             | 18,577           | STREET CARS AND PARTS AND ACCESSORIES FOR RAILROAD AND STREET CARS; REBUILT PASSENGER AND FREIGHT TRAIN CARS (37423) |                    |                  |
| Pacific.....   | 3,550              | 5,190            | Pacific.....   | 43,876             | 41,508           |  |                    |                  |
|  |                    |                  | Washington.....  | 6,896              | 5,093            | United States, total...  |                    | 310,227          |
| SELF-PROPELLED, U.S. MILITARY SHIPS, NEW CONSTRUCTION <sup>2</sup> (37312) |                    |                  | California.....  | 30,226             | 31,371           |  |                    |                  |
| United States, total....   | 681,793            | 469,965          |  |                    |                  |  |                    |                  |
| Northeast.....   | 310,708            | 273,488          | INBOARD MOTORBOATS (ALL TYPES) (37321)                               |                    |                  |  |                    |                  |
| North Central.....   | 19,058             | 26,950           | United States, total...  | 125,893            | 76,095           |  |                    |                  |
| South.....   | 247,805            | 126,742          | New England.....   | 3,157              | 3,112            | East North Central.....  |                    | 136,273          |
| Pacific.....   | 104,222            | 42,785           | Middle Atlantic.....   | 15,978             | 15,596           | Indiana.....   |                    | 34,650           |
| Washington.....  | 53,869             | 32,050           | New Jersey.....  | 6,879              | 6,863            | Illinois.....  |                    | 34,179           |
|  |                    |                  |  |                    |                  | Michigan.....  |                    | 39,396           |
| SELF-PROPELLED NONMILITARY SHIPS, NEW CONSTRUCTION <sup>2</sup> (37313)    |                    |                  | East North Central.....  | 36,061             |                  | West North Central.....  |                    | 77,932           |
| United States, total....   | 242,770            | 441,220          | Ohio.....  | 3,964              |                  | South.....   |                    | 13,569           |
| Northeast.....   | 73,787             | 148,457          | Indiana.....   | 3,783              |                  |  |                    |                  |
| New York.....  | 2,191              | 5,302            | Wisconsin.....   | 1,992              |                  | Pacific.....   |                    | 2,022            |
| North Central.....   | 6,167              | 27,924           | West North Central.....  | 1,639              |                  | California.....  |                    | 2,022            |
| Wisconsin.....   | 3,675              | 8,048            | South Atlantic.....  | 45,535             | 24,498           |  |                    |                  |
| South Atlantic.....  | 71,375             |                  | Maryland.....  | 27,486             | 17,269           | BICYCLES, MOTORCYCLES, MOTORBIKES, SCOOTERS AND PARTS (37510)  |                    |                  |
| East South Central.....  | 14,513             |                  | Florida.....   | 12,231             | 4,393            | United States, total...  |                    | 163,355          |
|  |                    | 232,871          | East South Central.....  | 7,417              | 2,264            |  |                    |                  |
| West South Central.....  | 57,711             |                  | West South Central.....  | 5,598              | 2,490            | New England.....   |                    | 9,550            |
| Louisiana.....   | 47,751             | ( <sup>3</sup> ) | West.....  | 10,508             | 6,432            | Middle Atlantic.....   |                    | 20,623           |
| Texas.....   | 9,960              | 3,949            | California.....  | 5,468              | 4,460            | New York.....  |                    | 20,149           |
| Pacific.....   | 19,217             | ( <sup>3</sup> ) |  |                    |                  | North Central.....   |                    | 74,465           |
|  |                    |                  | OUTBOARD MOTORBOATS (ALL TYPES INCLUDING PREFABRICATED KITS) (37322) |                    |                  | Indiana.....   |                    | 4,232            |
| SHIP REPAIR, U.S. MILITARY <sup>2</sup> (37314)                            |                    |                  | United States, total...  | 79,600             | 108,360          | Michigan.....  |                    | 1,809            |
| United States, total....   | 221,851            | 123,838          | New England.....   | 3,813              |                  | South.....   |                    | 47,344           |
| Northeast.....   | 60,875             | ( <sup>3</sup> ) | Massachusetts.....   | 3,349              |                  | West.....  |                    | 11,373           |
| New York.....  | 26,220             | 14,789           | Middle Atlantic.....   | 10,652             | 15,615           |  |                    |                  |
| South.....   | 79,474             | ( <sup>3</sup> ) | New York.....  | 5,483              | 4,478            | AUTOMOBILE TRAILERS, EXCLUDING HOUSING TYPE COACHES (37991)  |                    |                  |
| Virginia.....  | 28,111             | 8,959            | East North Central.....  | 22,674             | ( <sup>3</sup> ) | United States, total...  |                    | 67,645           |
| Louisiana.....   | 13,626             | 2,860            | Indiana.....   | 13,217             | 13,352           |  |                    |                  |
| West.....  | 81,502             | ( <sup>3</sup> ) | Michigan.....  | 2,847              | 5,150            | Northeast.....   |                    | 7,898            |
| California.....  | 61,766             | 29,563           | Wisconsin.....   | 6,096              | 7,384            | Pennsylvania.....  |                    | 2,001            |
|  |                    |                  | West North Central.....  | 7,035              | ( <sup>3</sup> ) |  |                    | ( <sup>3</sup> ) |
| REPAIR OF NONMILITARY SHIPS <sup>2</sup> (37316)                           |                    |                  | Minnesota.....   | 5,579              | 8,722            | East North Central.....  |                    | 25,906           |
| United States, total....   | 277,423            | 326,778          | South Atlantic.....  | 10,776             | ( <sup>3</sup> ) | Ohio.....  |                    | 4,604            |
| New England.....   | 3,565              | 4,619            | North Carolina.....  | 1,915              | 1,440            | Indiana.....   |                    | ( <sup>3</sup> ) |
| Massachusetts.....   | 2,454              | 3,201            | Georgia.....   | 2,623              | 1,410            | Illinois.....  |                    | 2,067            |
| Middle Atlantic.....   | 60,791             | 72,665           | Florida.....   | 3,059              | 5,262            | Wisconsin.....   |                    | ( <sup>3</sup> ) |
| New York.....  | 22,963             | 40,714           | East South Central.....  | 5,036              | ( <sup>3</sup> ) | West North Central.....  |                    | 4,353            |
| New Jersey.....  | 28,395             | 26,038           | Tennessee.....   | 4,190              | 3,646            | Iowa.....  |                    | 2,404            |
| Pennsylvania.....  | 9,433              | 5,913            | West South Central.....  | 10,841             | ( <sup>3</sup> ) | Kansas.....  |                    | 1,395            |
|  |                    |                  | Texas.....   | 6,936              | 15,860           | South.....   |                    | 5,976            |
|  |                    |                  | West.....  | 8,773              | 12,531           | Texas.....   |                    | 2,236            |
|  |                    |                  | Washington.....  | 2,338              | 5,169            | Mountain.....  |                    | 3,168            |
|  |                    |                  | California.....  | 5,520              | 6,505            | Pacific.....   |                    | 20,344           |
|  |                    |                  |  |                    |                  | California.....  |                    | 20,344           |

See footnotes at end of table.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area      | Value of shipments |        | Product class and geographic area                | Value of shipments |        | Product class and geographic area                | Value of shipments |       |
|--|--------------------|--------|--|--------------------|--------|--|--------------------|-------|
|  | 1963 <sup>1</sup>  | 1958   |  | 1963 <sup>1</sup>  | 1958   |  | 1963 <sup>1</sup>  | 1958  |
| OTHER TRANSPORTATION EQUIPMENT (37992) |                    |        | OTHER TRANSPORTATION EQUIPMENT (37992)—Continued |                    |        | OTHER TRANSPORTATION EQUIPMENT (37992)—Continued |                    |       |
| United States, total....               | 107,459            | 77,301 |  |                    |        |  |                    |       |
| New England.....                       | 2,036              | 11,722 | West North Central.....                          | 17,375             | 12,674 | East South Central.....                          | 5,199              | 1,837 |
| Middle Atlantic.....                   | 9,762              |        | Minnesota.....                                   | 1,030              | 2,341  | Mississippi.....                                 | 1,130              | (Z)   |
| New York.....                          | 7,103              | 6,962  | Iowa.....  | 8,335              | 7,772  | West South Central.....                          | 10,544             | 2,713 |
| East North Central.....                | 38,784             | 34,310 | Missouri.....                                    | 3,433              | (Z)    | Oklahoma.....                                    | 1,418              | (Z)   |
| Ohio.....                              | 10,503             | 7,949  | Nebraska.....                                    | 1,772              | 1,121  | Texas.....                                       | 7,242              | 2,016 |
| Indiana.....                           | 5,252              | 4,890  | Kansas.....                                      | 2,669              | (Z)    |  |                    |       |
| Illinois.....                          | 13,612             | 15,831 |  |                    |        | Mountain.....                                    | 3,661              | 9,102 |
| Michigan.....                          | 2,090              | 2,150  | South Atlantic.....                              | 5,171              | 4,943  | Pacific.....                                     | 14,927             |       |
| Wisconsin.....                         | 7,327              | 3,490  | Florida.....                                     | 3,683              | 3,625  | California.....                                  | 13,877             | 7,049 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Shipments of less than \$1 million reported.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 37311, Pennsylvania, Ohio, Indiana, Wisconsin, Maryland, Kentucky, Tennessee, Alabama, Oregon, California; 37312, Maine, Massachusetts, Connecticut, New York, New Jersey, Illinois, Michigan, Wisconsin, Virginia, West Virginia, Alabama, Mississippi, Louisiana, Texas, Oregon, California; 37313, Massachusetts, Pennsylvania, Ohio, Maryland, Virginia, North Carolina, Florida, Alabama, Mississippi, Washington, California; 37314, Massachusetts, Connecticut, New Jersey, Pennsylvania, Maryland, North Carolina, South Carolina, Georgia, Florida, Alabama, Texas, Washington, Oregon; 37316, Ohio, Illinois, Wisconsin, Maryland, Virginia, Georgia, Kentucky, Alabama, Oregon; 37321, New Hampshire, New York, Pennsylvania, Illinois, Michigan, North Carolina, Tennessee, Louisiana, Texas, Washington; 37322, Pennsylvania, Missouri, Virginia, Arkansas; 37422, New York, New Jersey, Pennsylvania, Indiana, Illinois, Missouri, West Virginia, Kentucky, Alabama, Texas, Washington, Oregon; 37423, New York, New Jersey, Ohio, Wisconsin, Minnesota, Missouri, Kansas, West Virginia, Alabama, Texas; 37510, Massachusetts, Connecticut, Ohio, Illinois, Wisconsin, Nebraska, Georgia, Kentucky, Tennessee, Arkansas, Utah, California; 37991, New York, Maryland, Idaho, Colorado; 37992, Massachusetts, New York, New Jersey, Kentucky, Tennessee, Alabama, Arkansas, Utah.

<sup>2</sup>Represents value of work done.

<sup>3</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code   | Material  | Unit of measure                | 1963                                       |                          | 1958     |                          | 1963                                       |                          | 1958     |                          |
|--------|---|--------------------------------|--|--------------------------|----------|--------------------------|--|--------------------------|----------|--------------------------|
|        |   |                                | Quantity                                   | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) | Quantity                                   | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
|        |   |                                | INDUSTRY 3731.—SHIP BUILDING AND REPAIRING |                          |          |                          | INDUSTRY 3732.—BOAT BUILDING AND REPAIRING |                          |          |                          |
|        | Materials, parts, containers, and supplies, total.....                            |                                | (X)  | 612,467                  | (X)      | 669,205                  | (X)  | 167,519                  | (X)      | 161,665                  |
|        | Mill shapes and forms (except castings):  |                                |  |                          |          |                          |  |                          |          |                          |
|        | Carbon steel:   |                                |  |                          |          |                          |  |                          |          |                          |
| 331011 | Bar and bar shapes.....   | Short tons..                   | 47,265                                     | 7,937                    | 32,051   | 5,442                    | 914  | 158                      | 923      | 197                      |
| 331012 | Sheet and strip.....  | ..do.....                      | 28,248                                     | 5,365                    | 28,941   | 4,860                    | 1,514                                      | 247                      | 7,815    | 1,642                    |
| 331013 | Plates.....   | ..do.....                      | 477,616                                    | 69,318                   | 571,048  | 84,493                   | 2,966                                      | 496                      | 2,019    | 422                      |
| 331015 | Structural shapes.....  | ..do.....                      | 104,334                                    | 19,196                   | 140,936  | 19,691                   | 775  | 139                      | 485      | 130                      |
| 331017 | Wire and wire products.....   | ..do.....                      | 3,411                                      | 1,465                    | 3,515    | 1,275                    | 214  | 133                      |          |                          |
| 331019 | All other carbon steel mill shapes and forms.....                                 | ..do.....                      | 23,915                                     | 5,148                    | 27,096   | 6,574                    | 1,145                                      | 244                      | 375      | 181                      |
| 331020 | Alloy steel (except stainless).....   | ..do.....                      | 17,606                                     | 9,449                    | 34,746   | 18,397                   | 83   | 43                       |          |                          |
| 331031 | Stainless steel.....  | ..do.....                      | 4,313                                      | 6,778                    | 1,632    | 2,593                    | 536  | 627                      | 206      | 163                      |
|        | Copper and copper-base alloy:   |                                |  |                          |          |                          |  |                          |          |                          |
| 335728 | Bare wire (for electrical conduction only).....                                   | 1,000 lbs...                   |  |                          | (NA)     | (NA)                     | 270  | 333                      |          |                          |
| 335790 | Insulated wire and cable.....   | 1,000 lbs. (copper content)... | 3,977                                      | 4,784                    | (NA)     | (NA)                     |  |                          |          |                          |
| 335102 | Rod, bar, and mechanical wire.....  | 1,000 lbs...                   | 688  | 818                      |          |                          | 102  | 64                       | 1,487    | 1,173                    |
| 335123 | Plate, sheet, and strip (including military cups and discs).....                  | ..do.....                      | 1,103                                      | 1,041                    | 7,268    | 6,444                    | 30   | 28                       |          |                          |
| 335127 | Pipe and tube.....  | ..do.....                      | 5,770                                      | 4,448                    |          |                          | 325  | 412                      |          |                          |
|        | Aluminum and aluminum-base alloy:   |                                |  |                          |          |                          |  |                          |          |                          |
| 335202 | Sheet, plate and foil.....  | ..do.....                      | 4,037                                      | 1,991                    | 4,692    | 3,035                    | 15,201                                     | 6,602                    | 12,200   | 6,665                    |
| 335205 | Extruded shapes, rod, bar, pipe, etc.....   | ..do.....                      |  |                          |          |                          | 3,177                                      | 1,895                    |          |                          |
| 335209 | All other aluminum mill shapes and forms, wire, rolled rod, etc.....              | ..do.....                      | 2,073                                      | 2,399                    | 1,694    | 1,040                    | 202  | 91                       | 2,219    | 1,339                    |
|        | Castings (rough and semi-finished):   |                                |  |                          |          |                          |  |                          |          |                          |
| 332300 | Steel <sup>1</sup> .....  | Short tons..                   | 5,605                                      | 4,318                    | 10,448   | 6,278                    | 179  | 94                       | 149      | 96                       |
| 336100 | Aluminum and aluminum-base alloy <sup>1</sup> .....                               | 1,000 lbs...                   | 365  | 376                      | (NA)     | (NA)                     | 983  | 548                      | (NA)     | (NA)                     |
| 336200 | Copper and copper-base alloy <sup>1</sup> .....                                   | ..do.....                      | 5,900                                      | 5,760                    | 5,980    | 4,689                    | 916  | 1,105                    | 681      | 1,096                    |
|        | Engines:  |                                |  |                          |          |                          |  |                          |          |                          |
| 351920 | Diesel and semidiesel <sup>1</sup> .....  | Number.....                    | (NA)                                       | 8,149                    | 449      | 10,336                   | 572  | 2,865                    | 451      | 2,702                    |
| 351901 | Gasoline and other carburetor <sup>1</sup> .....                                  | ..do.....                      | (NA)                                       | 645                      | 331      | 336                      | 18,616                                     | 15,089                   | 10,578   | 8,064                    |
| 362120 | Integral horsepower motors and generators <sup>1</sup> .....                      | ..do.....                      | 2,740                                      | 5,438                    | 4,000    | 6,872                    | 174  | 206                      | (NA)     | (NA)                     |
| 242120 | Dressed lumber.....   | 1,000 board feet.....          | (NA)                                       | 2,563                    | (NA)     | (NA)                     | 17,444                                     | 4,204                    | (NA)     | (NA)                     |
| 243201 | Plywood.....  | ..do.....                      | (X)  | 1,168                    | (X)      | (NA)                     | (X)  | 6,933                    | (NA)     | (NA)                     |
| 282130 | Thermoplastic resins.....   | 1,000 lbs. dry basis..         | 788  | 261                      | (NA)     | (NA)                     | 3,551                                      | 1,250                    | (NA)     | (NA)                     |
| 282140 | Thermosetting resins.....   | ..do.....                      | (NA)                                       | 801                      | (NA)     | (NA)                     | (NA)                                       | 7,209                    | (NA)     | (NA)                     |
| 322931 | Glass fiber.....  | 1,000 lbs...                   | (NA)                                       | 435                      | (NA)     | (NA)                     | (NA)                                       | 7,820                    | (NA)     | (NA)                     |
| 970099 | All other materials and components, parts, containers, and supplies consumed..... |                                | (X)  | 373,011                  | (X)      | 474,681                  | (X)  | 52,170                   | (X)      | 82,689                   |
| 976000 | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....             |                                | (X)  | 73,405                   | (X)      | 12,169                   | (X)  | 56,514                   | (X)      | 55,106                   |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material   | Unit of measure                | 1963                                 |                          | 1958     |                          | 1963                                    |                          | 1958     |                          |
|--------|--|--------------------------------|--------------------------------------|--------------------------|----------|--------------------------|---|--------------------------|----------|--------------------------|
|        |  |                                | Quantity                             | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) | Quantity                                | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
|        |  |                                | INDUSTRY 3741.—LOCOMOTIVES AND PARTS |                          |          |                          | INDUSTRY 3742.—RAILROAD AND STREET CARS |                          |          |                          |
|        | Materials, parts, containers, and supplies, total.....                                 |                                | (X)                                  | 233,289                  | (X)      | 205,480                  | (X)                                     | 575,511                  | (X)      | 301,258                  |
|        | Mill shapes and forms (except castings):   |                                |                                      |                          |          |                          |   |                          |          |                          |
|        | Carbon steel:  |                                |                                      |                          |          |                          |   |                          |          |                          |
| 331011 | Bars and bar shapes.....   | Short tons..                   | 11,054                               | 1,860                    | 10,616   | 1,746                    | 159,902                                 | 23,747                   | 48,230   | 6,764                    |
| 331012 | Sheet and strip.....   | ..do.....                      | 28,785                               | 4,818                    | 17,944   | 2,954                    | 225,927                                 | 32,435                   | 75,030   | 11,139                   |
| 331013 | Plates.....  | ..do.....                      | 58,653                               | 8,485                    | 44,242   | 5,813                    | 554,031                                 | 83,698                   | 294,296  | 38,854                   |
| 331015 | Structural shapes.....   | ..do.....                      |                                      |                          | 13,001   | 1,785                    | 236,559                                 | 34,469                   | 113,708  | 15,907                   |
| 331017 | Wire and wire products....   | ..do.....                      |                                      |                          |          |                          | 1,495                                   | 489                      | 657      | 232                      |
| 331019 | All other carbon steel mill shapes and forms.....                                      | ..do.....                      | 17,962                               | 2,459                    |          | 9,888                    | 2,475                                   | 62,858                   | 13,465   | 45,728                   |
| 331020 | Alloy steel (except stainless)   | ..do.....                      |                                      |                          | 1,362    | 420                      | 19,545                                  | 3,955                    | 5,057    | 974                      |
| 331031 | Stainless steel.....   | ..do.....                      | 1,788                                | 953                      | 406      | 591                      | 1,641                                   | 1,845                    | 408      | 579                      |
|        | Copper and copper-base alloy:  |                                |                                      |                          |          |                          |   |                          |          |                          |
| 335728 | Bare wire (for electrical conduction only).....  | 1,000 lbs...                   | (D)                                  | (D)                      | 2,087    | 916                      | (D)                                     | (D)                      |          |                          |
| 335790 | Insulated wire and cable...  | 1,000 lbs. (copper content)... | (D)                                  | (D)                      | 4,491    | 2,985                    | (D)                                     | (D)                      |          |                          |
| 335102 | Rod, bar and mechanical wire, including extruded and/or drawn shapes.....              | 1,000 lbs...                   | (D)                                  | (D)                      |          |                          | (D)                                     | (D)                      | 188      | 124                      |
| 335123 | Plate, sheet, and strip, (including military cups and discs).....                      | ..do.....                      | (D)                                  | (D)                      | 6,014    | 3,502                    | (D)                                     | (D)                      |          |                          |
| 335127 | Pipe and tube.....   | ..do.....                      | (D)                                  | (D)                      |          |                          | (D)                                     | (D)                      |          |                          |
|        | Aluminum and aluminum-base alloy:  |                                |                                      |                          |          |                          |   |                          |          |                          |
| 335202 | Sheet, plate and foil.....   | ..do.....                      |                                      |                          |          |                          | 6,337                                   | 5,938                    | 4,228    | 2,312                    |
| 335205 | Extruded shapes.....   | ..do.....                      |                                      |                          | 379      | 156                      |   |                          |          |                          |
| 335209 | All other aluminum mill shapes and forms.....  | ..do.....                      | 535                                  | 296                      |          |                          | 4,344                                   | 2,633                    | 201      | 159                      |
| 331051 | Pig iron.....  | Short tons..                   | (D)                                  | (D)                      | (NA)     | (NA)                     | (D)                                     | (D)                      | 13,956   | 849                      |
| 999811 | Iron and steel scrap.....  | ..do.....                      | -                                    | -                        | (NA)     | (NA)                     | 35,721                                  | 865                      | 25,815   | 921                      |
|        | Castings (rough and semi-finished):  |                                |                                      |                          |          |                          |   |                          |          |                          |
| 332011 | Iron (gray and malleable) <sup>1</sup> ...   | ..do.....                      | (D)                                  | (D)                      | 14,468   | 7,905                    | 71,640                                  | 30,133                   | 22,188   | 10,268                   |
| 332300 | Steel <sup>1</sup> .....   | ..do.....                      | (D)                                  | (D)                      | 17,583   | 9,802                    | 95,809                                  | 40,426                   | 76,390   | 27,064                   |
| 336100 | Aluminum and aluminum-base alloy <sup>1</sup> .....                                    | 1,000 lbs...                   | (D)                                  | (D)                      | 934      | 992                      | (D)                                     | (D)                      | 444      | 382                      |
| 339100 | Iron and steel forgings <sup>1</sup> .....   | Short tons..                   | (D)                                  | (D)                      | 13,185   | 5,355                    | 21,179                                  | 7,891                    | 53,359   | 14,632                   |
| 351920 | Diesel and semidiesel engines <sup>1</sup> .....                                       | Number.....                    | (D)                                  | (D)                      | 431      | 12,726                   | (D)                                     | (D)                      | (NA)     | (NA)                     |
| 362120 | Integral horsepower electric motors and generators (1 hp. and over) <sup>1</sup> ..... | ..do.....                      | (D)                                  | (D)                      | 4,000    | 20,196                   | (D)                                     | (D)                      | (NA)     | (NA)                     |
|        | Bearings:  |                                |                                      |                          |          |                          |   |                          |          |                          |
| 356218 | Ball.....  | ..do.....                      | (X)                                  | (D)                      | (X)      | 2,887                    | (X)                                     | 15,168                   | (X)      | 3,221                    |
| 356228 | Roller.....  | ..do.....                      |                                      |                          |          |                          |   |                          |          |                          |
| 970099 | All other materials and components, parts, containers, and supplies consumed.....      |                                | (X)                                  | 213,117                  | (X)      | 103,432                  | (X)                                     | 270,791                  | (X)      | 154,968                  |
| 976000 | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....                  |                                | (X)                                  | 1,301                    | (X)      | 18,842                   | (X)                                     | 7,563                    | (X)      | 1,789                    |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | Unit of measure                  | 1963   |                          | 1958     |                          |
|--|---|----------------------------------|--|--------------------------|----------|--------------------------|
|  |   |                                  | Quantity                                       | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
|  |   |                                  | INDUSTRY 3751.—MOTORCYCLES, BICYCLES AND PARTS |                          |          |                          |
| Materials, parts, containers, and supplies, total..... |   |                                  | (X)  | 102,722                  | (X)      | 64,426                   |
| Mill shapes and forms (except castings):               |   |                                  |  |                          |          |                          |
| Carbon steel:  |   |                                  |  |                          |          |                          |
| 331011   | Bars and bar shapes.....  | Short tons.....                  | 3,489  | 723                      | 4,055    | 795                      |
| 331012   | Sheet and strip.....  | ..do.....                        | 79,177   | 12,147                   | 45,175   | 6,785                    |
| 331017   | Wire and wire products.....   | ..do.....                        | 6,257  | 1,094                    | 3,767    | 901                      |
| 331013   | Plates.....   | ..do.....                        | 451  | 79                       |          |                          |
| 331015   | Structural shapes.....  | ..do.....                        |  |                          |          |                          |
| 331019   | All other carbon steel mill shapes and forms.....                                 | ..do.....                        | 7,270  | 1,688                    | 3,136    | 835                      |
| 331020   | Alloy steel (except stainless).....   | ..do.....                        | 1,199  | 319                      |          |                          |
| 331031   | Stainless steel.....  | ..do.....                        | 44   | 46                       | 581      | 273                      |
| Copper and copper-base alloy:                          |   |                                  |  |                          |          |                          |
| 335728   | Bare wire.....  | 1,000 lbs.....                   | -  | -                        | (NA)     | (NA)                     |
| 335790   | Insulated wire and cable.....   | ..do.....                        | -  | -                        | (NA)     | (NA)                     |
| 335102   | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....        | ..do.....                        | (D)  | (D)                      | (NA)     | (NA)                     |
| 335123   | Plate, sheet and strip (including military cups and discs).....                   | ..do.....                        | -  | -                        | (NA)     | (NA)                     |
| 335127   | Pipe and tube.....  | ..do.....                        | -  | -                        | (NA)     | (NA)                     |
| Aluminum and aluminum-base alloy:                      |   |                                  |  |                          |          |                          |
| 335202   | Sheet, plate and foil.....  | ..do.....                        |  |                          | (NA)     | (NA)                     |
| 335205   | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                   | ..do.....                        | 206  | 101                      | (NA)     | (NA)                     |
| 335209   | All other aluminum mill shapes and forms.....                                     | ..do.....                        |  |                          | (NA)     | (NA)                     |
| 332300   | Steel castings (rough and semifinished).....                                      | Short tons.....                  | (D)  | (D)                      | 237      | 180                      |
| 339100   | Iron and steel forgings.....  | ..do.....                        | 3,926  | 2,309                    | 2,381    | 1,111                    |
| Bearings:  |   |                                  |  |                          |          |                          |
| 356218   | Ball.....   | .....                            | (X)  | 904                      | (NA)     | (NA)                     |
| 356228   | Roller.....   | .....                            |  |                          | (NA)     | (NA)                     |
| 970099   | All other materials and components, parts, containers, and supplies consumed..... | .....                            | (X)  | 76,326                   | (X)      | 47,691                   |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....             | .....                            | (X)  | 6,986                    | (X)      | 5,855                    |
|  |   |                                  | INDUSTRY 3791.—TRAILER COACHES                 |                          |          |                          |
| Materials, parts, containers, and supplies, total..... |   |                                  | (X)  | 471,898                  | (X)      | 318,095                  |
| Mill shapes and forms (except castings):               |   |                                  |  |                          |          |                          |
| Carbon steel:  |   |                                  |  |                          |          |                          |
| 331011   | Bars and bar shapes.....  | Short tons.....                  | 5,263  | 1,565                    | 6,226    | 1,292                    |
| 331012   | Sheet and strip.....  | ..do.....                        | 14,643   | 3,349                    | 32,976   | 7,981                    |
| 331015   | Structural shapes.....  | ..do.....                        | 54,888   | 8,612                    | 8,498    | 1,596                    |
| 331019   | All other carbon steel mill shapes and forms.....                                 | ..do.....                        | 8,309  | 1,273                    | 5,406    | 966                      |
| Alloy steel (except stainless):                        |   |                                  |  |                          |          |                          |
| 331021   | Bars and bar shapes.....  | ..do.....                        |  |                          |          |                          |
| 331029   | All other alloy steel mill shapes and forms.....                                  | ..do.....                        | 13,077   | 5,961                    | 5,752    | 1,863                    |
| 331031   | Stainless steel.....  | ..do.....                        | -  | -                        | (NA)     | (NA)                     |
| Copper and copper-base alloy:                          |   |                                  |  |                          |          |                          |
| 335790   | Insulated wire and cable.....   | 1,000 lbs. (copper content)..... | 4,790  | 3,480                    | 1,057    | 553                      |
| 335728   | Bare wire (electrical conduction).....  | 1,000 lbs.....                   | 320  | 226                      |          |                          |
| 335102   | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....        | ..do.....                        | 78   | 47                       | 1,006    | 464                      |
| 335123   | Plate, sheet and strip (including military cups and discs).....                   | ..do.....                        | -  | -                        |          |                          |
| 335127   | Pipe and tube.....  | ..do.....                        | 3,261  | 1,458                    |          |                          |
| Aluminum and aluminum-base alloy:                      |   |                                  |  |                          |          |                          |
| 335202   | Sheet, plate and foil.....  | ..do.....                        | 63,702   | 25,377                   | 17,640   | 8,057                    |
| 335205   | Extruded shapes.....  | ..do.....                        | 8,119  | 2,407                    |          |                          |
| 335209   | All other aluminum mill shapes and forms.....                                     | ..do.....                        | 1,993  | 2,176                    | 1,126    | 490                      |
| Castings (rough and semifinished):                     |   |                                  |  |                          |          |                          |
| 332300   | Steel <sup>1</sup> .....  | Short tons.....                  | 988  | 504                      | 4,632    | 448                      |
| 336100   | Aluminum and aluminum-base alloy <sup>1</sup> .....                               | 1,000 lbs.....                   | 364  | 264                      | 289      | 154                      |
| Bearings:  |   |                                  |  |                          |          |                          |
| 356218   | Ball.....   | .....                            | (X)  | 79                       | (NA)     | (NA)                     |
| 356228   | Roller.....   | .....                            |  |                          | (NA)     | (NA)                     |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure         | 1963     |                          | 1958     |                          |
|---|---|-------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                         | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3791.—TRAILER COACHES—Continued        |   |                         |          |                          |          |                          |
| 243201  | Plywood.....  | .....                   | (X)      | 50,414                   | (X)      | (NA)                     |
| 242120  | Dressed lumber.....   | 1,000 board ft.         | 251,695  | 25,950                   | (NA)     | (NA)                     |
| 229501  | Coated, impregnated, and laminated fabrics.....                                   | 1,000 linear yards..... | 10,531   | 8,486                    | (NA)     | (NA)                     |
| 970099  | All other materials and components, parts, containers, and supplies consumed..... | .....                   | (X)      | 229,452                  | (X)      | 230,674                  |
| 976000  | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....             | .....                   | (X)      | 100,818                  | (X)      | 63,557                   |
| INDUSTRY 3799.—TRANSPORTATION EQUIPMENT, N.E.C. |   |                         |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....                            | .....                   | (X)      | 94,750                   | (X)      | 50,768                   |
| Mill shapes and forms (except castings):        |   |                         |          |                          |          |                          |
| Carbon steel:                                   |   |                         |          |                          |          |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....         | 15,767   | 2,769                    | 11,245   | 2,114                    |
| 331012  | Sheet and strip.....  | .....do.....            | 65,608   | 10,370                   | 47,114   | 7,337                    |
| 331013  | Plates.....   | .....do.....            | 5,410    | 900                      | 1,312    | 225                      |
| 331015  | Structural shapes.....  | .....do.....            | 7,681    | 1,295                    | 10,931   | 1,895                    |
| 331017  | Wire and wire products.....   | .....do.....            | 2,404    | 844                      | 1,809    | 382                      |
| 331019  | All other carbon steel mill shapes and forms.....                                 | .....do.....            | 8,085    | 1,887                    | 3,248    | 762                      |
| 331020  | Alloy steel (except stainless).....   | .....do.....            | 780      | 307                      | 1,467    | 239                      |
| 331031  | Stainless steel.....  | .....do.....            | 54       | 57                       |          |                          |
| Copper and copper-base alloy:                   |   |                         |          |                          |          |                          |
| 335728  | Bare wire (for electrical conduction only).....                                   | 1,000 lbs.....          | -        | -                        | (NA)     | (NA)                     |
| 335790  | Insulated wire and cable.....   | .....do.....            | 127      | 57                       | (NA)     | (NA)                     |
| 335102  | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....        | .....do.....            | 65       | 46                       | (NA)     | (NA)                     |
| 335123  | Plate, sheet and strip, (including military cups and discs)...                    | .....do.....            |          |                          | (NA)     | (NA)                     |
| 335127  | Pipe and tube.....  | .....do.....            | 309      | 340                      | (NA)     | (NA)                     |
| Aluminum and aluminum-base alloy:               |   |                         |          |                          |          |                          |
| 335202  | Sheet, plate and foil.....  | .....do.....            | 3,259    | 1,554                    | 329      | 145                      |
| 335205  | Extruded shapes, including extruded rod, bar, pipe, tube, etc..                   | .....do.....            | 610      | 296                      | 36       | 28                       |
| 335209  | All other aluminum mill shapes and forms.....                                     | .....do.....            | 57       | 24                       |          |                          |
| 332300  | Steel castings (rough and semifinished).....                                      | Short tons.....         | 911      | 914                      | 1,924    | 412                      |
| 339100  | Iron and steel forgings.....  | .....do.....            | 230      | 170                      | 188      | 83                       |
| Bearings:                                       |   |                         |          |                          |          |                          |
| 356218  | Ball.....   | .....                   | (X)      | 267                      | (X)      | 239                      |
| 356228  | Roller.....   | .....                   | (X)      | 393                      |          |                          |
| 970099  | All other materials and components, parts, containers, and supplies consumed..... | .....                   | (X)      | 35,390                   | (X)      | 23,882                   |
| 976000  | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....             | .....                   | (X)      | 36,870                   | (X)      | 13,025                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>In addition materials listed below were produced and incorporated into products at the same establishment:

| Code   | Item   | Unit of measure | Industry 3731 |       | Industry 3732 |       | Industry 3741 |      | Industry 3742 |      | Industry 3791 |      |
|--------|--|-----------------|---------------|-------|---------------|-------|---------------|------|---------------|------|---------------|------|
|        |  |                 | 1963          | 1958  | 1963          | 1958  | 1963          | 1958 | 1963          | 1958 | 1963          | 1958 |
| 332011 | Castings (rough and semi-finished):                                      |                 |               |       |               |       |               |      |               |      |               |      |
|        | Iron (gray and malleable).....   | Short tons...   | (NA)          | (NA)  | (X)           | (NA)  | (NA)          | (D)  | 11,813        | (D)  | (X)           | (X)  |
| 332300 | Steel.....   | .....do.....    | (D)           | 3,819 | -             | (NA)  | (NA)          | (D)  | (D)           | (D)  | -             | (D)  |
| 336100 | Aluminum and aluminum-base alloy.....                                    | 1,000 lbs.....  | (NA)          | (NA)  | -             | (NA)  | (NA)          | (D)  | (D)           | (D)  | -             | (D)  |
| 336200 | Copper and copper-base alloy...  | .....do.....    | -             | 1,131 | -             | (NA)  | (X)           | (D)  | (X)           | (D)  | (X)           | (X)  |
| 339100 | Iron and steel forgings.....   | Short tons...   | (NA)          | (NA)  | (X)           | (NA)  | (NA)          | (NA) | (D)           | (NA) | (X)           | (X)  |
| 351920 | Diesel and semidiesel engines...   | Number.....     | (NA)          | (NA)  | (NA)          | (NA)  | (NA)          | (D)  | (NA)          | (NA) | (X)           | (X)  |
| 351901 | Gasoline and other carburetor engines.....                               | .....do.....    | (NA)          | (NA)  | (D)           | 1,368 | (X)           | (X)  | (X)           | (X)  | (X)           | (X)  |
| 362120 | Integral horsepower electric motors and generators (1 hp. and over)..... | .....do.....    | (NA)          | (NA)  | (NA)          | (NA)  | (NA)          | (D)  | (NA)          | (NA) | (X)           | (X)  |

<sup>2</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Ship building and repairing (SIC 3731) | Boat building and repairing (SIC 3732) | Locomotive and parts (SIC 3741) | Railroad and street cars (SIC 3742) | Motorcycles, bicycles, and parts (SIC 3751) | Trailer coaches (SIC 3791) | Transportation equipment, n.e.c. (SIC 3799) |
|---|--|--|---------------------------------|-------------------------------------|---|----------------------------|---|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 17,067                                 | 2,998                                  | 2,562                           | 6,569                               | 1,374                                       | 1,813                      | 962   |
| Total cost of purchased fuels.....do....  | 6,021                                  | 1,163                                  | 1,284                           | 3,611                               | 617   | 894                        | 384   |
| Bituminous coal, lignite, and anthracite:   |  |  |                                 |                                     |   |                            |   |
| Quantity.....1,000 short tons..   | 62                                     | 19                                     | 141                             | 137                                 | (S)   | (S)                        | (S)   |
| Cost.....\$1,000..  | 604                                    | 111                                    | 811                             | 946                                 | (S)   | (S)                        | (S)   |
| Coke and breeze:  |  |  |                                 |                                     |   |                            |   |
| Quantity.....1,000 short tons..   | 3                                      | -                                      | -                               | (S)                                 | -   | -                          | -   |
| Cost.....\$1,000..  | 65                                     | -                                      | -                               | (S)                                 | -   | -                          | -   |
| Fuel oil (distillate and residual):   |  |  |                                 |                                     |   |                            |   |
| Quantity.....1,000 barrels of 42 gallons..  | 906                                    | 55                                     | 108                             | 251                                 | 29  | (S)                        | 14  |
| Cost.....\$1,000..  | 2,655                                  | 279                                    | 287                             | 1,060                               | 117   | (S)                        | 71  |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |  |  |                                 |                                     |   |                            |   |
| Quantity.....million cu.ft..  | 1,974                                  | 475                                    | 263                             | 2,605                               | 721   | 372                        | 163   |
| Cost.....\$1,000..  | 1,682                                  | 291                                    | 185                             | 1,304                               | 417   | 213                        | 115   |
| Other fuels.....do....  | 1,015                                  | 482                                    | (S)                             | 184                                 | (S)   | 219                        | 70  |
| Electric energy:  |  |  |                                 |                                     |   |                            |   |
| Purchased:  |  |  |                                 |                                     |   |                            |   |
| Quantity.....million kw.-hrs..  | 949                                    | 94                                     | 120                             | 232                                 | 65  | 45                         | 29  |
| Cost.....\$1,000..  | 11,046                                 | 1,835                                  | 1,278                           | 2,958                               | 757   | 919                        | 578   |
| Generated less sold.....million kw.-hrs..   | 17                                     | -                                      | 83                              | 18                                  | -   | -                          | -   |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 981                                    | 77                                     | 120                             | 379                                 | 55  | -                          | -   |
| Prime movers, total.....do....  | 195                                    | 15                                     | 36                              | 68                                  | 3   | -                          | -   |
| Driving generators.....do....   | 55                                     | 4                                      | 27                              | 18                                  | -   | -                          | -   |
| Not driving generators.....do....   | 140                                    | 11                                     | 9                               | 50                                  | 3   | -                          | -   |
| Electric motors, total.....do....   | 796                                    | 62                                     | 164                             | 333                                 | 53  | -                          | -   |
| Driven by purchased energy.....do....   | 786                                    | 62                                     | 84                              | 311                                 | 53  | -                          | -   |
| Driven by energy generated at establishment.....do....  | 9                                      | -                                      | 80                              | 22                                  | -   | -                          | -   |
| Aggregate horsepower per 100 production workers.....  | 1,043                                  | 409                                    | 1,123                           | 1,814                               | 752   | -                          | -   |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3731-                          | SHIP BUILDING AND REPAIRING   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 334                     | 114,649        | 782,299           | 96,527             | 193,512           | 610,250         | <sup>1</sup> 1,009,690                         | 670,075                     | <sup>2</sup> 1,679,765       | 24,477                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 279                     | 99,099         | 685,543           | 83,894             | 169,486           | 539,163         | <sup>1</sup> 894,654                           | 551,100                     | <sup>2</sup> 1,445,754       | 20,388                              |
|                                | 75-89% specialization.....  | 14                      | 3,769          | 22,372            | 3,224              | 6,170             | 17,917          | <sup>1</sup> 29,376                            | 23,228                      | <sup>2</sup> 52,604          | 1,282                               |
| 37311                          | Nonpropelled ships (barges, etc.), new construction (primary product class of estab.).....      | 25                      | 5,320          | 33,467            | 4,459              | 8,840             | 25,619          | <sup>1</sup> 42,637                            | 49,983                      | <sup>1</sup> 92,620          | 987                                 |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 10                      | 408            | 2,272             | 363                | 704               | 2,026           | <sup>1</sup> 3,715                             | 2,689                       | <sup>1</sup> 6,404           | 121                                 |
|                                | 75-89% specialization.....  | 4                       | 1,017          | 5,873             | 866                | 1,690             | 4,703           | <sup>1</sup> 8,276                             | 10,636                      | <sup>2</sup> 18,912          | 200                                 |
| 37312                          | Self-propelled United States military ships, new construction (primary product class of estab.) | 21                      | 58,673         | 425,127           | 49,711             | 101,743           | 327,680         | <sup>1</sup> 519,681                           | 336,488                     | <sup>2</sup> 856,169         | 15,031                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 7                       | 8,447          | 58,624            | 7,752              | 15,066            | 51,313          | <sup>1</sup> 74,976                            | 55,036                      | <sup>2</sup> 130,012         | 1,371                               |
| 37313                          | Self-propelled nonmilitary ships, new construction (primary product class of estab.).....       | 47                      | 18,115         | 121,950           | 14,015             | 29,204            | 90,206          | <sup>1</sup> 15,053                            | 124,838                     | <sup>2</sup> 279,891         | 2,729                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 75% and over.....   | 27                      | 5,278          | 34,181            | 4,205              | 8,249             | 25,491          | <sup>1</sup> 48,331                            | 36,881                      | <sup>2</sup> 88,748          | 677                                 |
| 37314                          | Ship repair, United States military (primary product class of estab.).....                      | 41                      | 11,754         | 78,770            | 10,000             | 19,479            | 64,356          | <sup>1</sup> 114,226                           | 73,821                      | <sup>2</sup> 188,047         | 1,455                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 10                      | 1,505          | 10,132            | 1,217              | 2,476             | 8,201           | <sup>1</sup> 14,632                            | 11,046                      | <sup>1</sup> 25,678          | 53                                  |
|                                | 75-89% specialization.....  | 12                      | 3,173          | 22,627            | 2,778              | 5,433             | 18,800          | <sup>1</sup> 32,219                            | 22,566                      | <sup>2</sup> 54,785          | 526                                 |
| 37316                          | Repair of nonmilitary ships (primary product class of estab.)....                               | 123                     | 19,769         | 118,015           | 17,481             | 32,619            | 98,428          | <sup>1</sup> 170,497                           | 80,847                      | <sup>2</sup> 257,344         | 3,933                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 74                      | 5,596          | 34,996            | 4,909              | 9,518             | 28,981          | <sup>1</sup> 52,647                            | 19,544                      | <sup>2</sup> 72,191          | 1,835                               |
|                                | 75-89% specialization.....  | 15                      | 5,046          | 32,444            | 4,135              | 7,587             | 25,676          | <sup>1</sup> 48,413                            | 21,385                      | <sup>2</sup> 69,798          | 416                                 |
| 3732-                          | BOAT BUILDING AND REPAIRING   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 1,626                   | 24,861         | 116,140           | 20,867             | 42,011            | 91,443          | 183,059  | 183,207                     | 360,208                      | 13,472                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 1,503                   | 21,838         | 100,367           | 18,391             | 36,723            | 79,309          | 158,198  | 159,346                     | 313,663                      | 11,755                              |
|                                | 75-89% specialization.....  | 20                      | 1,284          | 5,671             | 988                | 2,080             | 3,974           | 8,180  | 11,012                      | 17,967                       | 878                                 |
| 37321                          | Inboard motorboats (all types) (primary product class of estab.)                                | 98                      | 7,191          | 36,172            | 6,124              | 11,954            | 29,473          | 58,078   | 62,702                      | 118,104                      | 1,937                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 54                      | 5,079          | 25,308            | 4,406              | 8,511             | 21,187          | 42,018   | 43,178                      | 84,077                       | 1,034                               |
|                                | 75-89% specialization.....  | 19                      | 1,397          | 7,279             | 1,107              | 2,258             | 5,520           | 10,291   | 13,482                      | 22,229                       | 266                                 |
| 37322                          | Outboard motorboats (all types including prefabricated kits) (primary product class of estab.)  | 130                     | 6,804          | 30,122            | 5,463              | 11,052            | 21,587          | 43,972   | 59,970                      | 102,287                      | 4,590                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 74                      | 2,256          | 9,242             | 1,795              | 3,570             | 6,740           | 13,926   | 18,279                      | 31,965                       | 610                                 |
|                                | 75-89% specialization.....  | 26                      | 1,590          | 7,026             | 1,239              | 2,400             | 4,938           | 10,556   | 15,025                      | 25,736                       | 2,736                               |
| 37323                          | All other boats (sailboats, rowboats, canoes, etc.) (primary product class of estab.).....      | 80                      | 2,130          | 10,216            | 1,805              | 3,917             | 7,710           | 19,101   | 16,017                      | 34,577                       | 1,486                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 51                      | 1,052          | 5,078             | 898                | 2,020             | 3,923           | 9,573  | 7,387                       | 16,790                       | 976                                 |
|                                | 75-89% specialization.....  | 11                      | 686            | 3,224             | 592                | 1,242             | 2,471           | 6,110  | 5,807                       | 11,816                       | 355                                 |
| 37324                          | Boat repair—military and non-military (primary product class of estab.).....                    | 168                     | 3,612          | 19,041            | 3,031              | 5,912             | 14,941          | 28,563   | 15,075                      | 43,829                       | 932                                 |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 123                     | 2,564          | 13,959            | 2,159              | 4,091             | 10,978          | 20,390   | 10,639                      | 31,209                       | 749                                 |
|                                | 75-89% specialization.....  | 17                      | 362            | 1,800             | 299                | 605               | 1,430           | 2,545  | 1,244                       | 3,613                        | 67                                  |

See footnotes at end of table.



TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization                                     | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3742-                          | RAILROAD AND STREET CARS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 78                      | 30,742         | 201,999           | 24,254             | 47,246            | 150,135         | 355,230  | 591,023                     | 927,184                      | 10,877                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.  | 62                      | 22,741         | 149,482           | 18,427             | 36,152            | 114,988         | 267,335  | 448,979                     | 704,446                      | 9,193                               |
| 37422                          | Freight train cars, new (primary product class of estab.).....                             | 24                      | 17,252         | 111,780           | 14,251             | 27,684            | 38,862          | 201,881  | 441,819                     | 593,657                      | 5,423                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 14                      | 11,322         | 74,606            | 9,594              | 19,262            | 61,385          | 138,305  | 264,576                     | 389,852                      | 4,055                               |
| 3751-                          | MOTORCYCLES, BICYCLES, AND PARTS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 88                      | 9,662          | 48,425            | 7,912              | 15,152            | 34,398          | 82,245   | 112,157                     | 192,851                      | 3,152                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.  | 73                      | 5,470          | 28,376            | 4,298              | 8,325             | 20,029          | 43,916   | 58,349                      | 102,190                      | 1,896                               |
|                                | 75-89% specialization.....   | 5                       | 998            | 4,860             | 783                | 1,449             | 3,355           | 8,587  | 13,585                      | 22,110                       | 99                                  |
| 3799-                          | TRANSPORTATION EQUIPMENT, N.E.C.   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 522                     | 8,032          | 37,547            | 6,652              | 13,183            | 27,788          | 68,823   | 99,379                      | 167,375                      | 3,710                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.  | 457                     | 5,801          | 26,234            | 4,799              | 9,521             | 19,700          | 47,986   | 73,994                      | 121,568                      | 2,867                               |
|                                | 75-89% specialization.....   | 14                      | 648            | 3,341             | 533                | 1,132             | 2,246           | 4,962  | 6,957                       | 11,694                       | 197                                 |
| 37991                          | Automobile trailers, excluding housing type coaches (primary product class of estab.)..... | 80                      | 2,874          | 14,293            | 2,440              | 4,878             | 10,949          | 26,283   | 42,572                      | 68,803                       | 1,391                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 63                      | 1,995          | 9,947             | 1,709              | 3,407             | 7,817           | 17,695   | 31,911                      | 49,701                       | 1,067                               |
|                                | 75-89% specialization.....   | 7                       | 383            | 1,859             | 314                | 659               | 1,260           | 2,735  | 4,004                       | 6,602                        | 164                                 |
| 37992                          | Other transportation equipment (primary product class of estab.).....                      | 197                     | 3,857          | 18,781            | 3,110              | 6,200             | 13,189          | 35,474   | 45,142                      | 79,969                       | 1,575                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 158                     | 2,391          | 11,558            | 1,901              | 3,847             | 8,116           | 22,312   | 29,948                      | 51,890                       | 1,117                               |
|                                | 75-89% specialization.....   | 12                      | 283            | 1,459             | 238                | 460               | 951             | 2,320  | 3,317                       | 5,567                        | 42                                  |

n.e.c. Not elsewhere classified.

<sup>1</sup>See footnote 1, table 1.<sup>2</sup>Represents value of work done rather than value of shipments.

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations   | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|---|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|   | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>2</sup> |         |            |
|   |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3731.—SHIP BUILDING AND REPAIRING  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....  | 3                        | 2   | -       | 1          | (D)                                   | (D)                                       | -       | (D)        |
| Nonferrous foundry (except die casting).....  | 6                        | -   | 3       | 3          | 229                                   | -   | 22      | 207        |
| Forging--presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 24                       | 18  | 4       | 2          | 124                                   | 36  | (D)     | (D)        |
| Heat treating of metals.....  | 24                       | 15  | 7       | 2          | 877                                   | (D)                                       | (D)     | (D)        |
| Machine shop.....   | 138                      | 48  | 47      | 43         | 4,827                                 | 73  | 492     | 4,262      |
| Tool and die shop.....  | 13                       | 7   | 4       | 2          | 156                                   | 13  | (D)     | (D)        |
| Foundry pattern shop.....   | 16                       | 9   | 5       | 2          | 101                                   | 9   | (D)     | (D)        |
| Plate or structural fabrication.....  | 107                      | 25  | 20      | 62         | 13,403                                | 45  | 225     | 13,133     |
| Stamping, blanking and forming of metals.....   | 19                       | 9   | 5       | 5          | 793                                   | 12  | 42      | 739        |
| Painting, lacquering and enameling on metals.....   | 78                       | 28  | 24      | 26         | 2,413                                 | 44  | 232     | 2,137      |
| Plastics molding.....   | 6                        | 1   | 4       | 1          | 45                                    | (D)                                       | (D)     | (D)        |
| INDUSTRY 3732.—BOAT BUILDING AND REPAIRING  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....  | -                        | -   | -       | -          | -                                     | -   | -       | -          |
| Nonferrous foundry (except die casting).....  | 2                        | 1   | 1       | -          | (D)                                   | (D)                                       | (D)     | -          |
| Forging--presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 4                        | 3   | 1       | -          | 12                                    | (D)                                       | (D)     | -          |
| Heat treating of metals.....  | 4                        | 4   | -       | -          | 6                                     | 6   | -       | -          |
| Machine shop.....   | 98                       | 68  | 25      | 5          | 459                                   | 124                                       | 180     | 155        |
| Tool and die shop.....  | 11                       | 8   | 2       | 1          | 74                                    | 14  | (D)     | (D)        |
| Foundry pattern shop.....   | 18                       | 17  | 1       | -          | 35                                    | (D)                                       | (D)     | -          |
| Plate or structural fabrication.....  | 48                       | 31  | 12      | 5          | 365                                   | 71  | 113     | 181        |
| Stamping, blanking and forming of metals.....   | 28                       | 20  | 6       | 2          | 246                                   | 50  | (D)     | (D)        |
| Painting, lacquering and enameling on metals.....   | 71                       | 54  | 13      | 4          | 329                                   | 103                                       | 119     | 107        |
| Plastics molding.....   | 49                       | 15  | 19      | 15         | 992                                   | 30  | 193     | 769        |
| INDUSTRY 3741.—LOCOMOTIVES AND PARTS  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....  | -                        | -   | -       | -          | -                                     | -   | -       | -          |
| Nonferrous foundry (except die casting).....  | -                        | -   | -       | -          | -                                     | -   | -       | -          |
| Forging--presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | -                        | -   | -       | -          | -                                     | -   | -       | -          |
| Automatic screw machine department.....   | 2                        | -   | 2       | -          | (D)                                   | -   | (D)     | -          |
| Machine shop.....   | 10                       | 3   | 1       | 6          | 2,014                                 | (D)                                       | (D)     | 1,999      |
| Tool and die shop.....  | 5                        | -   | 1       | 4          | 452                                   | -   | (D)     | (D)        |
| Plate or structural fabrication.....  | 5                        | 1   | -       | 4          | 1,581                                 | (D)                                       | -       | (D)        |
| Stamping, blanking and forming of metals.....   | 7                        | -   | 3       | 4          | 275                                   | -   | 29      | 246        |
| Painting, lacquering and enameling on metals.....   | 7                        | 4   | -       | 3          | 170                                   | 5   | -       | 165        |
| Assembly of product.....  | 11                       | 4   | 3       | 4          | 1,855                                 | 11  | 33      | 1,811      |
| INDUSTRY 3742.—RAILROAD AND STREET CARS   |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....  | 4                        | -   | -       | 4          | 864                                   | -   | -       | 864        |
| Nonferrous foundry (except die casting).....  | 1                        | -   | -       | 1          | (D)                                   | -   | -       | (D)        |
| Forging--presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 23                       | 2   | 13      | 8          | 596                                   | (D)                                       | (D)     | 434        |
| Automatic screw machine department.....   | 3                        | -   | 1       | 2          | 56                                    | -   | (D)     | (D)        |
| Machine shop.....   | 34                       | 8   | 11      | 15         | 2,332                                 | 20  | 131     | 2,181      |
| Tool and die shop.....  | 23                       | 5   | 11      | 7          | 510                                   | 12  | 132     | 366        |
| Plate or structural fabrication.....  | 33                       | 3   | 4       | 26         | 3,233                                 | 2   | 33      | 3,198      |
| Stamping, blanking and forming of metals.....   | 31                       | 5   | 11      | 15         | 1,317                                 | 8   | 130     | 1,179      |
| Painting, lacquering and enameling on metals.....   | 37                       | 15  | 7       | 15         | 1,330                                 | 25  | 72      | 1,233      |
| Assembly of product.....  | 40                       | 5   | 9       | 26         | 8,225                                 | 8   | 101     | 8,116      |
| INDUSTRY 3751.—MOTORCYCLES, BICYCLES AND PARTS  |                          |   |         |            |                                       |   |         |            |
| Electroplating and other plating.....   | 11                       | 1   | 5       | 5          | 279                                   | (D)                                       | (D)     | 243        |
| Automatic screw machine department.....   | 7                        | 2   | 2       | 3          | 124                                   | (D)                                       | (D)     | 98         |
| Machine shop.....   | 17                       | 6   | 8       | 3          | 429                                   | 13  | 88      | 328        |
| Tool and die shop.....  | 14                       | 6   | 5       | 3          | 256                                   | 10  | 56      | 190        |
| Stamping, blanking and forming of metals.....   | 24                       | 5   | 6       | 13         | 871                                   | 7   | 66      | 798        |
| Painting, lacquering and enameling on metals.....   | 26                       | 11  | 9       | 6          | 482                                   | 21  | 93      | 368        |
| Assembly of product.....  | 28                       | 4   | 7       | 17         | 1,614                                 | 7   | 49      | 1,558      |

See footnotes at end of table.



TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963—Continued

| Metalworking operations  | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3791.—TRAILER COACHES   |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 2                        | 2   | -       | -          | -                                     | -   | -       | -          |
| Nonferrous foundry (except die casting).....   | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Nonferrous die casting.....  | -                        | -   | -       | -          | -                                     | -   | -       | -          |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | -                        | -   | -       | -          | -                                     | -   | -       | -          |
| Electroplating and other plating.....  | -                        | -   | -       | -          | -                                     | -   | -       | -          |
| Galvanizing and other hot dip coating.....   | -                        | -   | -       | -          | -                                     | -   | -       | -          |
| Heat treating of metals.....   | -                        | -   | -       | -          | -                                     | -   | -       | -          |
| Automatic screw machine department.....  | -                        | -   | -       | -          | -                                     | -   | -       | -          |
| Machine shop.....  | 2                        | 2   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Tool and die shop.....   | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Foundry pattern shop.....  | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Plate or structural fabrication.....   | 20                       | 11  | 8       | 1          | 133                                   | 30  | (D)     | (D)        |
| Stamping, blanking and forming of metals.....  | 34                       | 17  | 15      | 2          | 443                                   | 29  | (D)     | (D)        |
| Painting, lacquering and enameling on metals.....  | 43                       | 35  | 7       | 1          | 378                                   | 60  | (D)     | (D)        |
| Assembly of product.....   | 110                      | 33  | 16      | 61         | 5,873                                 | 39  | 161     | 5,673      |
| INDUSTRY 3799.—TRANSPORTATION EQUIPMENT, N.E.C.  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | -                        | -   | -       | -          | -                                     | -   | -       | -          |
| Nonferrous foundry (except die casting).....   | -                        | -   | -       | -          | -                                     | -   | -       | -          |
| Nonferrous die casting.....  | -                        | -   | -       | -          | -                                     | -   | -       | -          |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | -                        | -   | -       | -          | -                                     | -   | -       | -          |
| Electroplating and other plating.....  | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Galvanizing and other hot dip coating.....   | -                        | -   | -       | -          | -                                     | -   | -       | -          |
| Heat treating of metals.....   | -                        | -   | -       | -          | -                                     | -   | -       | -          |
| Automatic screw machine department.....  | 5                        | 4   | 1       | -          | 12                                    | (D)                                       | (D)     | -          |
| Machine shop.....  | 46                       | 30  | 12      | 4          | 307                                   | 54  | 90      | 163        |
| Tool and die shop.....   | 25                       | 18  | 6       | 1          | 112                                   | 31  | 56      | 25         |
| Foundry pattern shop.....  | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Plate or structural fabrication.....   | -                        | -   | -       | -          | -                                     | -   | -       | -          |
| Stamping, blanking and forming of metals.....  | 58                       | 31  | 14      | 13         | 572                                   | 54  | 113     | 405        |
| Painting, lacquering and enameling on metals.....  | 81                       | 67  | 13      | 1          | 243                                   | 101                                       | (D)     | (D)        |
| Assembly of product.....   | 91                       | 34  | 32      | 25         | 1,391                                 | 67  | 280     | 1,044      |
| Shipping department, including packing and crating...                                    | 1                        | -   | 1       | -          | (D)                                   | -   | (D)     | -          |

Note: Very small establishments were not requested to report their metalworking operations and, in some instances, a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production-worker employment on the last line of the table below:

| Item  | Industry |       |        |        |       |       |       |
|---|----------|-------|--------|--------|-------|-------|-------|
|   | 3731     | 3732  | 3741   | 3742   | 3751  | 3791  | 3799  |
| Total number of establishments in the industry.....   | 334      | 1,626 | 24     | 78     | 88    | 413   | 522   |
| Number of establishments which reported one or more of the specified operations.....                              | 175      | 233   | 17     | 52     | 33    | 147   | 117   |
| Percent of industry production workers in these establishments.....   | 85-90    | 50-55 | 95-100 | 95-100 | 90-95 | 60-65 | 50-55 |
| Number of establishments which reported "none" of the operations apply  | 48       | 139   | 0      | 6      | 4     | 80    | 24    |
| Percent of industry production workers in these establishments.....   | 0-5      | 10-15 | 0      | 0-5    | 0-5   | 20-25 | 5-10  |
| Percent of industry production workers in establishments which completed the metalworking operations inquiry..... | 90-95    | 65-70 | 95-100 | 95-100 | 90-95 | 80-85 | 60-65 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishment.





## Instruments and Related Products

- 38A Instruments; surgical, dental and ophthalmic goods
- 38B Photographic equipment; clocks, watch and watchcases

This major group covers establishments primarily engaged in manufacturing mechanical measuring, engineering, laboratory, and scientific research instruments; optical instruments and lenses; surgical, medical, and dental instruments, equipment and supplies; ophthalmic goods; photographic equipment and supplies; and, watches and clocks. Dental laboratories making dentures and artificial teeth to order for the dental profession, and establishments grinding ophthalmic lenses on an individual prescription basis, are classified in trade industries.

During the period 1958 to 1963, reports received from some large establishments indicated a change from the manufacture primarily of such individual instruments as those used for indicating air speed, rate-of-climb, angle-of-yaw and similar flight characteristics, and gyroscopes which are sold separately, to the manufacture primarily of complete instrumentation systems for navigation, guidance, check-out, etc. The major impact of this change has been on the classification of products and, consequently, the SIC coding of these large establishments. This change in reporting was brought to light by the initiation, by the Census Bureau, of detailed commodity surveys in the fields of electronic products and instrumentation. The electronic and associated products report (MA-36N) was started covering the year 1961 and the instruments series (MA-38B) was broadened for 1963 to encompass most types of instruments

following an introductory report for 1961 and 1962 covering industrial process instruments and test and measuring equipment. Annual statistics from both reports are published in the Current Industrial Reports Series.

In both the 1958 Census of Manufactures and the Annual Survey of Manufactures from 1959 through 1962, the classification of systems was not sufficiently spelled out in the product inquiries of these programs, especially at the 5-digit product class level. However, with the introduction, in the MA-36N and MA-38B surveys, of detailed 7-digit product information which itself is used to build up to broader 5-digit product class totals, these totals, although they should be the same as those reported on Form MA-100 (Annual Survey of Manufactures), have differed. The respondents affected have identified the proportion of earlier years' output which consisted of systems rather than instruments as such, which was the manner in which the items were originally reported.

In view of the above, the annual data for 1958-1962 have been revised. Because of the shift in recent years from instruments which are classified in industry 3811 to complete systems which are classified in industry 3662, the year-to-year changes are of dubious validity for the industries considered separately. The two industries taken in combination however, would yield significant measures of activity in the general area.

# INSTRUMENTS AND RELATED PRODUCTS

## INSTRUMENTS AND RELATED PRODUCTS: MAJOR GROUP 38

Value Added by Manufacture by State: 1963

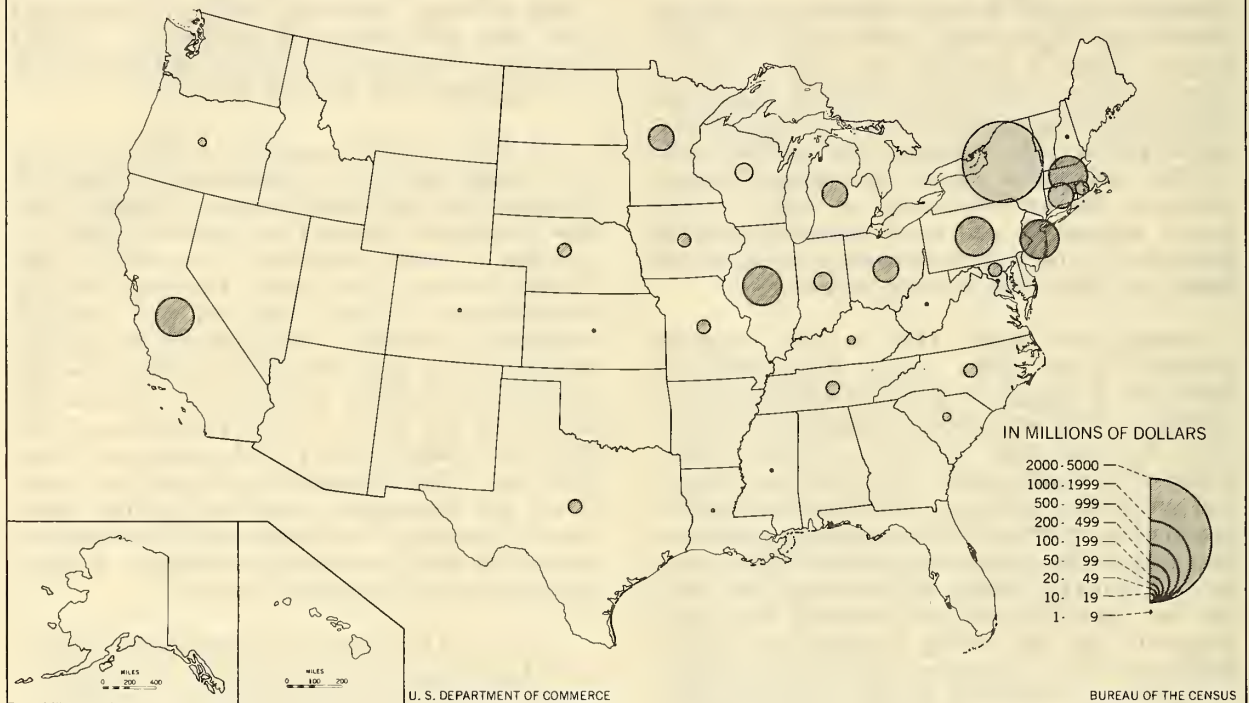




TABLE 1. General Statistics: 1963 and Earlier Years

| Year and item                                   | Establishments |                                    | All employees <sup>1</sup> |                   | Production workers |                   |                 | Value added by manufacture, adjusted <sup>2</sup> | Cost of materials <sup>3</sup> | Value of shipments <sup>3</sup> | Capital expenditures, new <sup>4</sup> |
|---|----------------|------------------------------------|----------------------------|-------------------|--------------------|-------------------|-----------------|---|--------------------------------|---------------------------------|--|
|   | Total (number) | With 20 employees or more (number) | Total (number)             | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |   |                                |                                 |  |
| <b>ALL MANUFACTURING ESTABLISHMENTS, TOTAL:</b> |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 . . . . .                                  | 4 028          | 1 391                              | 316 443                    | 2 010 423         | 208 448            | 416 555           | 1 100 718       | 3 922 131   | 2 171 108                      | 6 117 889                       | 191 865                                |
| 1958 . . . . .                                  | 3 584          | 1 225                              | 293 787                    | 1 564 037         | 197 985            | 389 569           | 897 467         | 2 781 017   | (NA)                           | 4 418 690                       | 114 608                                |
| 1954 <sup>5</sup> . . . . .                     | (NA)           | (NA)                               | 277 895                    | 1 234 016         | 195 597            | 391 403           | 759 459         | 2 130 958   | (NA)                           | (NA)                            | 94 008                                 |
| <b>ADMINISTRATIVE AND AUXILIARY UNITS:</b>      |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 <sup>6</sup> . . . . .                     | 79             | 48                                 | 10 991                     | 97 951            | (x)                | (x)               | (x)             | (x)   | (x)                            | (x)                             | (x)                                    |
| 1958 <sup>6</sup> . . . . .                     | 66             | 36                                 | 7 436                      | 54 512            | (x)                | (x)               | (x)             | (x)   | (x)                            | (x)                             | (x)                                    |
| 1954 <sup>6</sup> . . . . .                     | (NA)           | (NA)                               | 5 309                      | 33 694            | (x)                | (x)               | (x)             | (x)   | (x)                            | (x)                             | (x)                                    |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 . . . . .                                  | 3 949          | 1 343                              | 305 452                    | 1 912 472         | 208 448            | 416 555           | 1 100 718       | 3 992 131   | 2 171 108                      | 6 117 889                       | 191 865                                |
| 1958 . . . . .                                  | 3 518          | 1 189                              | 286 351                    | 1 509 525         | 197 985            | 389 569           | 897 467         | 2 781 017   | (NA)                           | 4 418 690                       | 114 608                                |
| 1954 . . . . .                                  | 3 141          | 984                                | 272 586                    | 1 200 322         | 195 597            | 391 403           | 759 459         | 2 130 958   | (NA)                           | (NA)                            | 94 008                                 |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1962 <sup>7</sup> . . . . .                     | (NA)           | (NA)                               | 308 487                    | 1 871 008         | 206 383            | 415 611           | 1 051 413       | 3 690 006   | 2 049 916                      | 5 674 315                       | 177 604                                |
| 1961 <sup>7</sup> . . . . .                     | (NA)           | (NA)                               | 316 330                    | 1 908 435         | 208 233            | 415 140           | 1 036 799       | 3 573 976   | 2 054 969                      | 5 607 429                       | 178 665                                |
| 1960 <sup>7</sup> . . . . .                     | (NA)           | (NA)                               | 325 576                    | 1 907 606         | 217 964            | 437 056           | 1 066 704       | 3 641 114   | (NA)                           | (NA)                            | 162 359                                |
| 1959 <sup>7</sup> . . . . .                     | (NA)           | (NA)                               | 310 534                    | 1 782 725         | 214 415            | 432 421           | 1 032 504       | 3 410 054   | (NA)                           | (NA)                            | 144 976                                |
| 1957 <sup>8</sup> . . . . .                     | (NA)           | (NA)                               | 307 207                    | 1 570 906         | 211 968            | 428 000           | 946 647         | 2 872 262   | (NA)                           | (NA)                            | 145 691                                |
| 1956 <sup>8</sup> . . . . .                     | (NA)           | (NA)                               | 296 701                    | 1 458 264         | 211 135            | 426 332           | 896 525         | 2 690 477   | (NA)                           | (NA)                            | 145 053                                |
| 1955 <sup>8</sup> . . . . .                     | (NA)           | (NA)                               | 282 697                    | 1 295 200         | 202 447            | 406 402           | 815 731         | 2 366 783   | (NA)                           | (NA)                            | 106 402                                |
| 1953 <sup>9</sup> . . . . .                     | (NA)           | (NA)                               | 285 469                    | 1 232 467         | 212 102            | 433 752           | 823 564         | 2 169 354   | (NA)                           | (NA)                            | 90 272                                 |
| 1952 <sup>9</sup> . . . . .                     | (NA)           | (NA)                               | 278 531                    | 1 179 955         | 205 384            | 420 014           | 778 584         | 1 994 805   | (NA)                           | (NA)                            | (NA)                                   |
| 1951 <sup>9</sup> . . . . .                     | 2 686          | (NA)                               | 253 081                    | 1 001 301         | 189 659            | 389 773           | 670 732         | 1 608 236   | (NA)                           | (NA)                            | 85 004                                 |
| 1950 <sup>9</sup> . . . . .                     | 2 697          | (NA)                               | 226 375                    | 812 468           | 169 447            | 341 716           | 531 761         | 1 388 930   | (NA)                           | (NA)                            | 64 446                                 |
| 1949 <sup>9</sup> . . . . .                     | (NA)           | (NA)                               | 204 823                    | 882 733           | 156 221            | 305 469           | 447 118         | 1 122 649   | (NA)                           | (NA)                            | 57 944                                 |
| 1947 <sup>9</sup> . . . . .                     | 2 605          | (NA)                               | 244 872                    | 706 055           | 194 303            | 389 940           | 502 168         | 1 140 499   | (NA)                           | (NA)                            | 56 000                                 |
| 1939 <sup>10</sup> . . . . .                    | 1 292          | (NA)                               | (NA)                       | (NA)              | 84 867             | (NA)              | 107 704         | 333 409   | (NA)                           | (NA)                            | (NA)                                   |
| 1937 <sup>10</sup> . . . . .                    | 1 026          | (NA)                               | (NA)                       | (NA)              | 83 814             | (NA)              | 112 732         | 298 304   | (NA)                           | (NA)                            | (NA)                                   |
| 1935 <sup>11</sup> . . . . .                    | 1 000          | (NA)                               | 83 744                     | 108 306           | 67 530             | (NA)              | 74 242          | 200 113   | (NA)                           | (NA)                            | (NA)                                   |
| 1933 . . . . .                                  | 830            | (NA)                               | (NA)                       | (NA)              | 49 564             | (NA)              | 46 219          | 142 434   | (NA)                           | (NA)                            | (NA)                                   |
| 1931 . . . . .                                  | 1 029          | (NA)                               | (NA)                       | (NA)              | 59 892             | (NA)              | 66 423          | 200 739   | (NA)                           | (NA)                            | (NA)                                   |
| 1929 <sup>12</sup> . . . . .                    | 1 109          | (NA)                               | 98 061                     | 148 996           | 81 905             | (NA)              | 107 890         | 300 866   | (NA)                           | (NA)                            | (NA)                                   |
| 1927 . . . . .                                  | 1 108          | (NA)                               | (NA)                       | (NA)              | 78 946             | (NA)              | 102 876         | 273 695   | (NA)                           | (NA)                            | (NA)                                   |
| 1925 . . . . .                                  | 1 286          | (NA)                               | 88 011                     | 124 355           | 73 033             | (NA)              | 91 040          | 263 078   | (NA)                           | (NA)                            | (NA)                                   |
| 1923 <sup>12</sup> . . . . .                    | 1 593          | (NA)                               | 93 189                     | 127 340           | 76 639             | (NA)              | 91 754          | 244 873   | (NA)                           | (NA)                            | (NA)                                   |
| 1921 . . . . .                                  | 1 592          | (NA)                               | 82 931                     | 108 794           | 67 218             | (NA)              | 77 786          | 188 781   | (NA)                           | (NA)                            | (NA)                                   |
| 1919 . . . . .                                  | 2 037          | (NA)                               | 108 711                    | 124 837           | 90 615             | (NA)              | 93 001          | 235 639   | (NA)                           | (NA)                            | (NA)                                   |
| 1914 . . . . .                                  | 1 572          | (NA)                               | 70 958                     | 50 017            | 59 850             | (NA)              | 35 848          | 97 644  | (NA)                           | (NA)                            | (NA)                                   |
| 1909 <sup>15</sup> . . . . .                    | 1 239          | (NA)                               | (NA)                       | (NA)              | 50 848             | (NA)              | 28 071          | 73 127  | (NA)                           | (NA)                            | (NA)                                   |
| 1904 . . . . .                                  | 1 027          | (NA)                               | 46 377                     | 26 297            | 41 907             | (NA)              | 21 292          | 46 325  | (NA)                           | (NA)                            | (NA)                                   |
| 1899 . . . . .                                  | 1 101          | (NA)                               | 34 847                     | 18 196            | 32 060             | (NA)              | 15 247          | 31 637  | (NA)                           | (NA)                            | (NA)                                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not applicable.

<sup>1</sup>The figures for 1939 through 1963 include data for employees of manufacturing establishments who are engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>2</sup>For the period 1954 to 1963, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. See Introduction, "Value Added by Manufacture."

<sup>3</sup>The total value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry classification. For a more complete explanation, see Introduction.

<sup>4</sup>The figures for 1958 to 1963 include expenditures for plants under construction and not yet in operation.

<sup>5</sup>The figures for 1947, 1954, and later years include establishments primarily engaged in the manufacture of automatic temperature controls.

<sup>6</sup>In addition to data for operating establishments, figures for employment and payroll for manufacturing central administrative offices and auxiliary units are shown for the years 1949 to 1953 in the annual survey of manufacturing volumes. Data for these units are not available for the years 1955 to 1957, 1959 to 1962, or prior to 1949.

<sup>7</sup>Figures for 1958 to 1963 for operating manufacturing establishments are not strictly comparable with prior years due to revisions of the Standard Industrial Classification System. Prior to 1958, data for the following commodities were excluded: laboratory precision balances; laboratory furniture; revolution counters; operating room and other hospital furniture; surgical corsets; and hearing aids. Establishments primarily engaged in the manufacture of sanitary napkins and tampons are included prior to 1958.

<sup>8</sup>These figures represent estimates derived from a representative sample of manufac-

turing establishments canvassed in the annual survey of manufactures. These estimates, consequently, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>9</sup>The figures for 1939 and later years are not strictly comparable with those for earlier years. Statistics for 1939 and later years (a) include data for establishments primarily engaged in manufacture of thermostats and gauges, and (b) exclude data for establishments primarily engaged in the manufacture of time-recording stamps and machines. Value added by manufacture for 1939 on a basis strictly comparable with 1937 was \$314.1 million.

<sup>10</sup>The figures for 1937 to 1954 include, whereas those for earlier years exclude, data for establishments primarily engaged in the manufacture of certain mechanical measuring instruments. Value added by manufacture for 1937, excluding data for these establishments and on a basis comparable with 1935, was \$294.5 million.

<sup>11</sup>The figures for 1935 to 1954 include, whereas those for 1933 and earlier years exclude, data for establishments primarily engaged in manufacture of certain dental equipment and supplies (chairs, cabinets, and electrical devices).

<sup>12</sup>The figures for 1929 to 1954 exclude, whereas those for earlier years include, data for establishments primarily engaged in manufacture of gas machines. Value added by manufacture for 1929, including data for these establishments and on a basis comparable with 1927, was \$306.3 million.

<sup>13</sup>The figures for 1927 to 1954 exclude, whereas those for earlier years include, data for dental laboratories operating on a custom basis. Value added by manufacture for 1927 including data for these laboratories and on a basis comparable with 1925, was \$280.3 million.

<sup>14</sup>The figures for 1899 to 1923 include, whereas those for later years exclude, data for establishments primarily engaged in grinding lenses for spectacles and eyeglasses to individual prescription.

<sup>15</sup>The figures for 1899 to 1909 exclude, whereas those for 1914 and later years include, data for establishments primarily engaged in manufacture of motion-picture machines. Value added by manufacture for 1914, excluding data for such establishments, was \$96.4 million.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Code | Industry group and geographic area                   | 1963           |                                    |                |                   |                    |                   |                 |  |                                     | 1958                   |  |
|------|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 38   | INSTRUMENTS & RELATED PRODUCTS-TOTAL                 | 3 949          | 1 343                              | 305 452        | 1 912 472         | 208 448            | 416 555           | 1 100 718       | 3 992 131                                      | 191 865                             | 286 351                | 2 781 D17                                      |
|      | NDRTHEAST . . . . .                                  | 1 681          | 645                                | 167 167        | 1 103 522         | 110 993            | 220 610           | 610 831         | 2 360 230                                      | 122 054                             | 173 971                | 1 748 812                                      |
|      | NEW ENGLAND . . . . .                                | 392            | 187                                | 50 122         | 290 259           | 33 621             | 67 305            | 163 882         | 569 202  | 32 482                              | 42 983                 | 370 272  |
|      | MAINE . . . . .                                      | 4              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | NEW HAMPSHIRE . . . . .                              | 16             | 6                                  | 664            | 3 135             | 509                | 1 038             | 1 939           | 5 592  | 247                                 | 267                    | 1 917  |
|      | VERMONT . . . . .                                    | 9              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | MASSACHUSETTS . . . . .                              | 208            | 96                                 | 28 431         | 169 452           | 18 566             | 37 235            | 92 188          | 343 078  | 22 251                              | 21 012                 | 210 D45  |
|      | RHODE ISLAND . . . . .                               | 39             | 17                                 | 3 467          | 16 838            | 2 716              | 5 397             | 11 673          | 27 844   | 1 171                               | 2 866                  | 19 320   |
|      | CONNECTICUT . . . . .                                | 116            | 64                                 | 16 690         | 96 888            | 11 146             | 22 219            | 55 164          | 182 205  | 8 698                               | 18 195                 | 132 626  |
|      | MIDDLE ATLANTIC . . . . .                            | 1 289          | 458                                | 117 045        | 813 263           | 77 372             | 153 305           | 446 949         | 1 791 028                                      | 89 572                              | 130 988                | 1 378 540                                      |
|      | NEW YORK . . . . .                                   | 791            | 256                                | 75 499         | 547 830           | 49 050             | 96 796            | 295 596         | 1 259 704                                      | 65 405                              | 80 839                 | 922 566  |
|      | NEW JERSEY . . . . .                                 | 252            | 89                                 | 17 259         | 116 616           | 11 038             | 22 143            | 58 922          | 224 699  | 14 476                              | 26 885                 | 248 277  |
|      | PENNSYLVANIA . . . . .                               | 246            | 113                                | 24 287         | 148 817           | 17 284             | 34 366            | 92 431          | 306 625  | 9 691                               | 23 264                 | 207 697  |
|      | NORTH CENTRAL . . . . .                              | 1 029          | 367                                | 88 103         | 528 853           | 61 213             | 122 166           | 317 690         | 1 101 112                                      | 44 019                              | 76 157                 | 704 320  |
|      | EAST NORTH CENTRAL . . . . .                         | 823            | 301                                | 71 992         | 433 192           | 50 185             | 99 674            | 261 465         | 901 582  | 37 774                              | 57 999                 | 540 389  |
|      | OHIO . . . . .                                       | 186            | 67                                 | 11 207         | 61 809            | 7 125              | 13 896            | 32 311          | 111 310  | 6 214                               | 9 606                  | 77 393   |
|      | INDIANA . . . . .                                    | 70             | 23                                 | 4 638          | 23 841            | 3 605              | 7 127             | 16 575          | 94 804   | 3 493                               | 3 459                  | 31 417   |
|      | ILLINDIS . . . . .                                   | 352            | 147                                | 36 592         | 220 951           | 25 031             | 49 835            | 127 400         | 474 806  | 17 046                              | 30 962                 | 302 905  |
|      | MICHIGAN . . . . .                                   | 145            | 41                                 | 13 304         | 91 134            | 10 168             | 20 279            | 63 788          | 148 352  | 8 068                               | 8 746                  | 83 176   |
|      | WISCONSIN . . . . .                                  | 70             | 23                                 | 6 251          | 35 457            | 4 256              | 8 537             | 21 391          | 72 310   | 2 953                               | 5 226                  | 45 981   |
|      | WEST NORTH CENTRAL . . . . .                         | 206            | 66                                 | 16 111         | 95 661            | 11 028             | 22 492            | 56 225          | 199 530  | 6 245                               | 18 158                 | 163 931  |
|      | MINNESOTA . . . . .                                  | 64             | 18                                 | 8 348          | 53 070            | 5 335              | 10 969            | 29 462          | 103 510  | 2 477                               | 12 223                 | 117 343  |
|      | IOWA . . . . .                                       | 29             | 9                                  | 2 447          | 14 948            | 1 514              | 3 175             | 7 712           | 26 867   | 1 358                               | 1 749                  | 11 781   |
|      | MISSOURI . . . . .                                   | 80             | 31                                 | 3 667          | 20 658            | 2 747              | 5 421             | 13 369          | 44 485   | 1 116                               | 3 227                  | 27 606   |
|      | NORTH DAKOTA . . . . .                               | 1              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | SOUTH DAKOTA . . . . .                               | 2              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | NEBRASKA . . . . .                                   | 17             | 6                                  | 1 340          | 5 487             | 1 225              | 2 528             | 4 910           | 22 593   | 1 257                               | (0)                    | (0)  |
|      | KANSAS . . . . .                                     | 13             | 2                                  | 301            | 1 469             | 201                | 387               | 749             | 1 993  | 34                                  | (0)                    | (0)  |
|      | SDUTH . . . . .                                      | 495            | 142                                | 23 777         | 108 121           | 18 454             | 36 829            | 70 593          | 219 232  | 11 160                              | 17 219                 | 215 627  |
|      | SOUTH ATLANTIC . . . . .                             | 245            | 74                                 | 13 147         | 59 544            | 9 875              | 19 929            | 36 798          | 114 088  | 7 742                               | 7 316                  | 122 670  |
|      | DELAWARE . . . . .                                   | 5              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | MARYLAND . . . . .                                   | 57             | 19                                 | 1 848          | 9 665             | 1 428              | 2 709             | 6 385           | 20 409   | 483                                 | (0)                    | (0)  |
|      | DISTRICT OF COLUMBIA . . . . .                       | 11             | 2                                  | 112            | 503               | 91                 | 183               | 385             | 807  | 12                                  | 96                     | 592  |
|      | VIRGINIA . . . . .                                   | 26             | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | 1 671                  | 8 807  |
|      | WEST VIRGINIA . . . . .                              | 16             | 5                                  | 793            | 2 403             | 662                | 1 323             | 1 889           | 4 528  | 166                                 | 355                    | 1 653  |
|      | NORTH CAROLINA . . . . .                             | 32             | 10                                 | 3 135          | 14 576            | 2 086              | 4 244             | 7 306           | 24 320   | 2 492                               | (0)                    | (0)  |
|      | SOUTH CAROLINA . . . . .                             | 10             | 4                                  | 1 720          | 6 397             | 1 506              | 3 093             | 5 055           | 13 551   | 977                                 | (0)                    | (0)  |
|      | GEORGIA . . . . .                                    | 15             | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | FLORIDA . . . . .                                    | 73             | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | 784                    | 3 907  |
|      | EAST SOUTH CENTRAL . . . . .                         | 72             | 20                                 | 3 470          | 16 502            | 2 789              | 5 538             | 11 083          | 35 288   | 1 859                               | 2 987                  | 22 289   |
|      | KENTUCKY . . . . .                                   | 22             | 6                                  | 939            | 3 814             | 811                | 1 728             | 2 950           | 9 666  | 571                                 | (0)                    | (0)  |
|      | TENNESSEE . . . . .                                  | 31             | 9                                  | 2 188          | 11 389            | 1 687              | 3 194             | 7 142           | 23 486   | 1 232                               | (0)                    | (0)  |
|      | ALABAMA . . . . .                                    | 10             | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | MISSISSIPPI . . . . .                                | 9              | 3                                  | 245            | 930               | 217                | 475               | 744             | 1 560  | 40                                  | 72                     | 453  |
|      | WEST SDUTH CENTRAL . . . . .                         | 178            | 48                                 | 7 160          | 32 075            | 5 790              | 11 362            | 22 712          | 69 856   | 1 559                               | 6 916                  | 70 668   |
|      | ARKANSAS . . . . .                                   | 7              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | LOUISIANA . . . . .                                  | 13             | 5                                  | 464            | 2 279             | 284                | 602               | 1 141           | 4 837  | 247                                 | 194                    | 1 665  |
|      | OKLAHOMA . . . . .                                   | 25             | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | TEXAS . . . . .                                      | 133            | 33                                 | 4 197          | 19 982            | 3 326              | 6 543             | 14 027          | 44 435   | 1 012                               | 4 592                  | 47 309   |
|      | WEST . . . . .                                       | 741            | 188                                | 26 380         | 171 763           | 17 704             | 36 916            | 101 192         | 312 475  | 14 621                              | 19 030                 | 187 772  |
|      | MDUNTAIN . . . . .                                   | 90             | 19                                 | 2 784          | 19 199            | 1 611              | 3 676             | 8 940           | 39 605   | 1 203                               | (0)                    | (0)  |
|      | MDNTANA . . . . .                                    | 5              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | IOAHO . . . . .                                      | 2              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | WYOMING . . . . .                                    | 3              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | COLDRADO . . . . .                                   | 45             | 9                                  | 872            | 4 838             | 659                | 1 325             | 3 079           | 9 139  | 265                                 | 488                    | 3 997  |
|      | NEW MEXICO . . . . .                                 | 4              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | ARIZONA . . . . .                                    | 16             | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | 400                    | 5 088  |
|      | UTAH . . . . .                                       | 15             | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | 34                     | 157  |
|      | PACIFIC . . . . .                                    | 651            | 169                                | 23 596         | 152 564           | 16 093             | 33 240            | 92 252          | 272 870  | 13 418                              | (0)                    | (0)  |
|      | WASHINGTON . . . . .                                 | 28             | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | DREGDN . . . . .                                     | 24             | 5                                  | 903            | 4 905             | 671                | 1 282             | 3 038           | 10 880   | 470                                 | 570                    | 4 901  |
|      | CALIFDRNIA . . . . .                                 | 597            | 161                                | 22 464         | 146 300           | 15 246             | 31 624            | 88 135          | 259 519  | 12 861                              | 17 091                 | 170 188  |
|      | ALASKA . . . . .                                     | 1              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
|      | HAWAII . . . . .                                     | 1              | (0)                                | (0)            | (0)               | (0)                | (0)               | (0)             | (0)  | (0)                                 | (0)                    | (0)  |
| 381  | SCIENTIFIC INSTRUMENTS, TOTAL <sup>1</sup> . . . . . | 594            | 213                                | 33 084         | 208 171           | 22 184             | 44 584            | 119 836         | 358 588  | 16 244                              | 57 249                 | 481 166  |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area                 | 1963           |                                    |                |                   |                    |                   |                 | 1958   |                                     |                        |  |
|------|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 382  | MECHANICAL MEASURING DEVICES, TOTAL                | 774            | 312                                | 94 038         | 581 175           | 62 682             | 126 969           | 344 980         | 1 111 620                                      | 41 437                              | 75 562                 | 716 095  |
|      | NORTHEAST . . . . .                                | 317            | 136                                | 40 681         | 254 988           | 26 353             | 53 107            | 145 822         | 473 628  | 17 311                              | 37 624                 | 332 726  |
|      | NEW ENGLAND . . . . .                              | 89             | 45                                 | 17 262         | 108 040           | 10 166             | 20 942            | 54 877          | 189 964  | 8 165                               | 14 750                 | 128 653  |
|      | NEW HAMPSHIRE . . . . .                            | 6              | 3                                  | 151            | 808               | 79                 | 146               | 287             | 1 185  | 48                                  | (0)                    | (0)  |
|      | MASSACHUSETTS . . . . .                            | 40             | 18                                 | 9 938          | 63 823            | 5 593              | 11 646            | 30 761          | 112 203  | 4 847                               | 7 044                  | 60 171   |
|      | CONNECTICUT . . . . .                              | 34             | 19                                 | 5 719          | 34 908            | 3 619              | 7 224             | 19 161          | 60 356   | 2 972                               | 6 164                  | 54 643   |
|      | MIDDLE ATLANTIC . . . . .                          | 228            | 91                                 | 23 419         | 146 948           | 16 187             | 32 165            | 90 945          | 283 664  | 9 146                               | 22 874                 | 204 073  |
|      | NEW JERSEY . . . . .                               | 59             | 23                                 | 3 116          | 17 333            | 2 126              | 4 122             | 10 901          | 31 040   | 801                                 | 2 250                  | 19 534   |
|      | NORTH CENTRAL . . . . .                            | 225            | 94                                 | 39 845         | 248 296           | 27 016             | 54 776            | 148 706         | 494 113  | 17 786                              | 27 195                 | 272 054  |
|      | EAST NORTH CENTRAL . . . . .                       | 195            | 85                                 | 31 672         | 194 799           | 21 572             | 43 638            | 117 628         | 379 644  | 15 270                              | 19 856                 | 192 434  |
|      | OHIO . . . . .                                     | 45             | 25                                 | 7 906          | 45 060            | 4 701              | 9 093             | 21 830          | 77 920   | 5 378                               | 6 008                  | 50 560   |
|      | INDIANA . . . . .                                  | 18             | 10                                 | 2 108          | 11 384            | 1 695              | 3 328             | 8 462           | 22 954   | 708                                 | 1 625                  | 14 961   |
|      | ILLINOIS . . . . .                                 | 69             | 30                                 | 12 354         | 73 715            | 8 372              | 17 142            | 43 673          | 162 910  | 4 541                               | 7 778                  | 88 973   |
|      | MICHIGAN . . . . .                                 | 44             | 12                                 | 6 547          | 47 145            | 5 085              | 10 627            | 33 860          | 77 511   | 3 769                               | 1 850                  | 14 702   |
|      | WISCONSIN . . . . .                                | 19             | 8                                  | 2 757          | 17 495            | 1 719              | 3 448             | 9 803           | 38 349   | 874                                 | 2 595                  | 23 238   |
|      | WEST NORTH CENTRAL . . . . .                       | 30             | 9                                  | 8 173          | 53 497            | 5 444              | 11 138            | 31 078          | 114 469  | 2 516                               | 7 339                  | 79 620   |
|      | IOWA . . . . .                                     | 10             | 2                                  | 537            | 2 881             | 414                | 939               | 1 922           | 5 125  | (D)                                 | (0)                    | (0)  |
|      | SOUTH . . . . .                                    | 95             | 32                                 | 3 949          | 20 693            | 2 830              | 5 537             | 12 650          | 42 155   | 1 646                               | 2 739                  | 26 043   |
|      | SOUTH ATLANTIC . . . . .                           | 40             | 11                                 | 1 295          | 5 932             | 907                | 1 700             | 3 354           | 10 890   | 463                                 | (D)                    | (D)  |
|      | FLORIDA . . . . .                                  | 13             | 4                                  | 371            | 1 465             | 289                | 563               | 934             | 2 652  | 111                                 | (D)                    | (D)  |
|      | EAST SOUTH CENTRAL . . . . .                       | 11             | 4                                  | 1 632          | 9 336             | 1 202              | 2 372             | 5 741           | 18 760   | 910                                 | (0)                    | (0)  |
|      | WEST SOUTH CENTRAL . . . . .                       | 44             | 17                                 | 1 022          | 5 425             | 721                | 1 465             | 3 555           | 12 505   | 273                                 | (D)                    | (0)  |
|      | WEST . . . . .                                     | 137            | 50                                 | 9 563          | 57 198            | 6 416              | 13 549            | 37 538          | 101 724  | 4 694                               | 8 004                  | 85 272   |
|      | MOUNTAIN . . . . .                                 | 15             | 3                                  | 269            | 1 489             | 207                | 446               | 1 147           | 2 145  | 74                                  | (0)                    | (0)  |
|      | PACIFIC . . . . .                                  | 122            | 47                                 | 9 294          | 55 709            | 6 209              | 13 103            | 36 391          | 99 579   | 4 620                               | (D)                    | (0)  |
|      | CALIFORNIA . . . . .                               | 112            | 45                                 | 9 104          | 54 578            | 6 076              | 12 850            | 35 653          | 97 434   | 4 563                               | 7 672                  | 83 187   |
| 383  | OPTICAL INSTRUMENTS AND LENSES, TOTAL <sup>1</sup> | 280            | 79                                 | 11 924         | 79 131            | 8 306              | 16 728            | 47 149          | 131 917  | 6 163                               | 7 184                  | 60 387   |
| 384  | MEDICAL INSTRUMENTS & SUPPLIES, TOTAL              | 1 314          | 345                                | 51 420         | 291 212           | 36 276             | 72 031            | 165 454         | 634 705  | 31 080                              | 41 714                 | 414 367  |
|      | NORTHEAST . . . . .                                | 479            | 157                                | 26 830         | 158 078           | 18 340             | 36 664            | 85 878          | 320 181  | 15 434                              | 23 574                 | 231 877  |
|      | NEW ENGLAND . . . . .                              | 117            | 53                                 | 6 618          | 30 083            | 5 137              | 10 240            | 20 705          | 60 460   | 4 310                               | 5 140                  | 35 499   |
|      | MASSACHUSETTS . . . . .                            | 67             | 26                                 | 2 208          | 10 718            | 1 717              | 3 449             | 7 306           | 19 556   | 817                                 | 1 448                  | 9 714  |
|      | CONNECTICUT . . . . .                              | 29             | 22                                 | 3 609          | 16 396            | 2 706              | 5 399             | 10 909          | 34 660   | 3 052                               | 3 300                  | 22 776   |
|      | MIDDLE ATLANTIC . . . . .                          | 362            | 104                                | 20 212         | 127 995           | 13 203             | 26 424            | 65 173          | 259 721  | 11 124                              | 18 434                 | 196 378  |
|      | NEW YORK . . . . .                                 | 213            | 50                                 | 7 497          | 42 474            | 5 335              | 10 627            | 25 164          | 88 876   | 3 070                               | 7 233                  | 75 417   |
|      | NEW JERSEY . . . . .                               | 63             | 18                                 | 7 115          | 55 097            | 3 718              | 7 687             | 21 047          | 94 175   | (D)                                 | 6 328                  | 71 824   |
|      | PENNSYLVANIA . . . . .                             | 86             | 36                                 | 5 600          | 30 424            | 4 150              | 8 110             | 18 962          | 76 670   | (0)                                 | 4 873                  | 49 137   |
|      | NORTH CENTRAL . . . . .                            | 369            | 115                                | 14 132         | 80 329            | 10 140             | 20 110            | 47 427          | 194 951  | 8 346                               | 13 038                 | 135 845  |
|      | EAST NORTH CENTRAL . . . . .                       | 278            | 89                                 | 10 906         | 64 023            | 7 690              | 15 201            | 36 977          | 159 866  | 6 674                               | 10 540                 | 117 369  |
|      | OHIO . . . . .                                     | 80             | 28                                 | 2 347          | 11 604            | 1 711              | 3 354             | 7 199           | 23 462   | 388                                 | 2 379                  | 17 144   |
|      | ILLINOIS . . . . .                                 | 103            | 37                                 | 5 880          | 38 313            | 4 003              | 8 048             | 21 292          | 101 511  | 5 128                               | 5 706                  | 76 428   |
|      | MICHIGAN . . . . .                                 | 44             | 9                                  | 1 312          | 6 859             | 1 015              | 1 881             | 4 113           | 11 621   | 303                                 | (0)                    | (0)  |
|      | WEST NORTH CENTRAL . . . . .                       | 91             | 26                                 | 3 226          | 16 306            | 2 450              | 4 909             | 10 450          | 35 085   | 1 672                               | 2 498                  | 18 476   |
|      | MINNESOTA . . . . .                                | 26             | 6                                  | 667            | 3 619             | 386                | 803               | 1 792           | 6 425  | 256                                 | (0)                    | (0)  |
|      | MISSOURI . . . . .                                 | 36             | 13                                 | 1 388          | 7 687             | 992                | 1 894             | 4 430           | 12 121   | 276                                 | 1 370                  | 9 768  |
|      | SOUTH . . . . .                                    | 195            | 31                                 | 5 168          | 22 202            | 4 121              | 8 261             | 14 927          | 52 302   | 3 777                               | 2 629                  | 22 959   |
|      | SOUTH ATLANTIC . . . . .                           | 104            | 19                                 | 3 677          | 15 928            | 2 975              | 6 057             | 10 990          | 37 190   | 2 889                               | (D)                    | (D)  |
|      | MARYLAND . . . . .                                 | 15             | 3                                  | 171            | 911               | 135                | 271               | 613             | 3 912  | 39                                  | (D)                    | (D)  |
|      | VIRGINIA . . . . .                                 | 6              | 2                                  | 129            | 596               | 66                 | 105               | 234             | 926  | 21                                  | (D)                    | (D)  |
|      | NORTH CAROLINA . . . . .                           | 16             | 4                                  | 830            | 3 281             | 645                | 1 229             | 2 050           | 5 235  | 156                                 | (D)                    | (D)  |
|      | FLORIDA . . . . .                                  | 35             | 3                                  | 759            | 4 063             | 612                | 1 312             | 3 057           | 10 926   | (D)                                 | 109                    | (D)  |
|      | EAST SOUTH CENTRAL . . . . .                       | 39             | 8                                  | 784            | 3 119             | 665                | 1 237             | 2 152           | 7 062  | 595                                 | (0)                    | (0)  |
|      | KENTUCKY . . . . .                                 | 11             | 2                                  | 186            | 711               | 159                | 321               | 477             | 1 397  | 21                                  | 191                    | 925  |
|      | TENNESSEE . . . . .                                | 17             | 4                                  | 498            | 2 074             | 423                | 741               | 1 427           | 5 179  | 533                                 | 405                    | 3 019  |
|      | WEST SOUTH CENTRAL . . . . .                       | 52             | 4                                  | 707            | 3 155             | 481                | 967               | 1 785           | 8 050  | 293                                 | (D)                    | (D)  |
|      | LOUISIANA . . . . .                                | 6              | 2                                  | 212            | 734               | 151                | 336               | 515             | 1 508  | 129                                 | (D)                    | (D)  |
|      | TEXAS . . . . .                                    | 39             | 2                                  | 479            | 2 356             | 317                | 605               | 1 218           | 6 416  | 159                                 | (D)                    | (D)  |
|      | WEST . . . . .                                     | 270            | 42                                 | 5 290          | 30 601            | 3 675              | 6 996             | 17 220          | 67 270   | 3 523                               | 2 473                  | 23 686   |
|      | MOUNTAIN . . . . .                                 | 43             | 8                                  | 672            | 3 552             | 468                | 918               | 2 028           | 6 069  | 216                                 | (0)                    | (0)  |
|      | COLORADO . . . . .                                 | 24             | 5                                  | 505            | 2 780             | 363                | 715               | 1 601           | 4 619  | 151                                 | 259                    | 2 319  |
|      | PACIFIC . . . . .                                  | 227            | 34                                 | 4 618          | 27 049            | 3 207              | 6 078             | 15 192          | 61 201   | 3 307                               | (D)                    | (D)  |
|      | OREGON . . . . .                                   | 9              | 1                                  | 141            | 722               | 112                | 224               | 492             | 1 337  | 49                                  | (D)                    | (D)  |
|      | CALIFORNIA . . . . .                               | 203            | 33                                 | 4 439          | 26 125            | 3 063              | 5 799             | 14 533          | 59 201   | 3 242                               | 2 054                  | 20 008   |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area             | 1963           |                                    |                |                   |                    |                   |                 | 1958   |                                     |                        |  |
|------|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 385  | OPHTHALMIC GOODS, TOTAL <sup>1</sup> . . . . . | 229            | 109                                | 20 296         | 96 361            | 16 467             | 32 771            | 68 954          | 177 898  | 9 085                               | 18 223                 | 136 696  |
| 386  | PHOTOGRAPHIC EQUIPMENT, TOTAL . . . . .        | 538            | 187                                | 64 937         | 498 828           | 39 248             | 77 753            | 251 566         | 1 270 132                                      | 79 626                              | 60 262                 | 798 750  |
| 387  | WATCHES, CLOCKS AND WATCHCASES, TOTAL          | 220            | 98                                 | 29 753         | 157 594           | 23 285             | 45 719            | 102 779         | 307 271  | 9 230                               | 26 157                 | 183 556  |
|      | NORTHEAST . . . . .                            | 152            | 66                                 | 16 529         | 94 732            | 12 315             | 24 137            | 58 139          | 185 923  | (D)                                 | 15 220                 | 112 356  |
|      | NEW ENGLAND . . . . .                          | 22             | 16                                 | 8 216          | 43 700            | 6 133              | 11 862            | 27 837          | 96 733   | (D)                                 | 8 479                  | 54 823   |
|      | MASSACHUSETTS . . . . .                        | 10             | 6                                  | 3 284          | 17 395            | 2 462              | 4 698             | 11 679          | 45 177   | 1 106                               | 2 502                  | 22 899   |
|      | MIDDLE ATLANTIC . . . . .                      | 130            | 50                                 | 8 313          | 51 032            | 6 182              | 12 275            | 30 302          | 89 190   | (D)                                 | 6 741                  | 57 533   |
|      | NEW JERSEY . . . . .                           | 10             | 5                                  | 440            | 2 279             | 267                | 568               | 1 131           | 4 190  | 682                                 | (0)                    | (0)  |
|      | NORTH CENTRAL . . . . .                        | 39             | 22                                 | 8 460          | 45 238            | 6 647              | 13 045            | 30 557          | 82 569   | 2 815                               | 7 700                  | 39 250   |
|      | ILLINOIS . . . . .                             | 24             | 14                                 | 6 385          | 34 305            | 5 040              | 9 789             | 23 255          | 61 052   | 2 074                               | 6 445                  | 31 891   |
|      | MICHIGAN . . . . .                             | 4              | 3                                  | 372            | 1 759             | 319                | 624               | 1 199           | 2 462  | 22                                  | 347                    | 2 061  |
|      | SOUTH . . . . .                                | 20             | 9                                  | 4 683          | 17 074            | 4 277              | 8 479             | 13 951          | 38 037   | (D)                                 | 3 148                  | 30 963   |
|      | WEST . . . . .                                 | 9              | 1                                  | 81             | 550               | 46                 | 58                | 132             | 742  | (0)                                 | 89                     | 987  |
|      | PACIFIC . . . . .                              | 9              | 1                                  | 81             | 550               | 46                 | 58                | 132             | 742  | (D)                                 | (0)                    | (0)  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.  
<sup>1</sup>This industry group consists of a single 4-digit industry. Detailed data by State are included in the 4-digit industry tables.



TABLE 3. Detailed Statistics: 1963

| Item  | Instruments and related products (SIC 38) | Scientific instruments (SIC 381) | Mechanical measuring devices (SIC 382) | Optical instruments and lenses (SIC 383) | Medical instruments and supplies (SIC 384) | Ophthalmic goods (SIC 385) | Photographic equipment (SIC 386) | Watches, clocks, and watchcases (SIC 387) |
|---|---|----------------------------------|--|--|--|----------------------------|----------------------------------|---|
| ESTABLISHMENTS, TOTAL . . . . . NUMBER . .                                  | 3 949                                     | 594                              | 774                                    | 280                                      | 1 314                                      | 229                        | 538                              | 220                                       |
| WITH 1 TO 19 EMPLOYEES. . . . . DO. . .                                     | 2 606                                     | 381                              | 462                                    | 201                                      | 969  | 120                        | 351                              | 122                                       |
| WITH 20 TO 99 EMPLOYEES . . . . . DO. .                                     | 868                                       | 154                              | 176                                    | 51                                       | 237  | 75                         | 119                              | 56  |
| WITH 100 EMPLOYEES OR MORE. . . . . DO. .                                   | 475                                       | 59                               | 136                                    | 28                                       | 108  | 34                         | 68                               | 42  |
| PROPRIETORS AND WORKING PARTNERS. . . . . DO. .                             | 1 410                                     | 188                              | 223                                    | 112                                      | 546  | 70                         | 181                              | 90  |
| ALL EMPLOYEES (AVERAGE FOR THE YEAR). . . . . DO. .                         | 305 452                                   | 33 084                           | 94 038                                 | 11 924                                   | 51 420                                     | 20 296                     | 64 937                           | 29 753                                    |
| PAYROLL (ALL EMPLOYEES), TOTAL FOR YEAR \$1,000. . .                        | 1 912 472                                 | 208 171                          | 581 175                                | 79 131                                   | 291 212                                    | 96 361                     | 498 828                          | 157 594                                   |
| PRODUCTION WORKERS:   |   |                                  |  |  |  |                            |                                  |   |
| AVERAGE FOR THE YEAR. . . . . NUMBER . .                                    | 208 448                                   | 22 184                           | 62 682                                 | 8 306                                    | 36 276                                     | 16 467                     | 39 248                           | 23 285                                    |
| MARCH . . . . . DO. . . . .   | 204 765                                   | 22 358                           | 62 447                                 | 8 196                                    | 35 658                                     | 16 415                     | 37 694                           | 21 997                                    |
| MAY . . . . . DO. . . . .   | 206 679                                   | 22 041                           | 62 702                                 | 8 166                                    | 36 188                                     | 16 705                     | 38 329                           | 22 548                                    |
| AUGUST. . . . . DO. . . . .   | 210 573                                   | 22 291                           | 62 811                                 | 8 345                                    | 36 255                                     | 16 067                     | 40 598                           | 24 206                                    |
| NOVEMBER. . . . . DO. . . . .   | 211 537                                   | 22 046                           | 62 721                                 | 8 509                                    | 36 824                                     | 16 689                     | 40 369                           | 24 379                                    |
| MAN-HOURS . . . . . \$1,000. . . . .  | 416 555                                   | 44 584                           | 126 969                                | 16 728                                   | 72 031                                     | 32 771                     | 77 753                           | 45 719                                    |
| JANUARY-MARCH . . . . . DO. . . . .   | 102 744                                   | 11 054                           | 31 719                                 | 4 196                                    | 17 773                                     | 8 030                      | 18 987                           | 10 985                                    |
| APRIL-JUNE. . . . . DO. . . . .   | 104 602                                   | 11 194                           | 31 900                                 | 4 174                                    | 18 341                                     | 8 470                      | 19 303                           | 11 220                                    |
| JULY-SEPTEMBER. . . . . DO. . . . .   | 101 063                                   | 10 946                           | 30 673                                 | 3 958                                    | 17 521                                     | 7 566                      | 19 311                           | 11 088                                    |
| OCTOBER-DECEMBER. . . . . DO. . . . .                                       | 108 146                                   | 11 390                           | 32 677                                 | 4 400                                    | 18 396                                     | 8 705                      | 20 152                           | 12 426                                    |
| WAGES . . . . . \$1,000. . . . .  | 1 100 718                                 | 119 836                          | 344 980                                | 47 149                                   | 165 454                                    | 68 954                     | 251 566                          | 102 779                                   |
| COST OF MATERIALS, ETC., TOTAL <sup>1</sup> . . . . . DO. . .               | 2 171 108                                 | 200 034                          | 573 946                                | 66 557                                   | 1 409 677                                  | 96 611                     | 580 544                          | 243 739                                   |
| MATERIALS, PARTS, CONTAINERS, AND SUPPLIES CONSUMED. . . . . DO. . .        | 1 821 986                                 | 166 172                          | 500 149                                | 53 059                                   | 313 233                                    | 87 247                     | 482 707                          | 219 419                                   |
| COST OF REALES. . . . . DO. . . . .   | 237 872                                   | 21 195                           | 44 692                                 | 5 050                                    | 69 746                                     | 4 564                      | 72 111                           | 20 514                                    |
| FUELS CONSUMED. . . . . DO. . . . .   | 16 207                                    | 1 048                            | 3 109                                  | 385                                      | 2 006                                      | 1 071                      | 7 888                            | 700                                       |
| ELECTRIC ENERGY:  |   |                                  |  |  |  |                            |                                  |   |
| PURCHASED:  |   |                                  |  |  |  |                            |                                  |   |
| QUANTITY. . . . . MILLION KW.-HRS. . .                                      | 1 661                                     | 177                              | 532                                    | 53                                       | 249  | 141                        | 398                              | 111                                       |
| CUST. . . . . \$1,000. . . . .  | 23 902                                    | 2 747                            | 7 599                                  | 1 182                                    | 3 603                                      | 1 793                      | 5 219                            | 1 759                                     |
| GENERATED LESS SOLO . . . . . MILLION KW.-HRS. . .                          | 3 733                                     | -                                | (D)                                    | (D)                                      | (D)  | (D)                        | (D)                              | (D)                                       |
| CONTRACT WORK . . . . . \$1,000. . . . .                                    | 71 143                                    | 8 872                            | 18 397                                 | 6 881                                    | 21 089                                     | 1 936                      | 12 619                           | 1 349                                     |
| VALUE OF SHIPMENTS (INCLUDING REALES), TOTAL <sup>1</sup> . . . . . DO. . . | 6 117 889                                 | 553 920                          | 1 670 774                              | 196 022                                  | 1 028 485                                  | 272 687                    | 1 851 213                        | 544 788                                   |
| VALUE OF REALES. . . . . DO. . . . .  | 365 062                                   | 32 928                           | 62 800                                 | 8 700                                    | 104 855                                    | 6 235                      | 126 486                          | 23 058                                    |
| VALUE ADDED BY MANUFACTURE, ADJUSTED. . . . . DO. . .                       | 3 992 131                                 | 358 588                          | 1 111 620                              | 131 917                                  | 634 705                                    | 177 898                    | 1 270 132                        | 307 271                                   |
| MANUFACTURERS' INVENTORIES:   |   |                                  |  |  |  |                            |                                  |   |
| BEGINNING OF YEAR, TOTAL. . . . . DO. . .                                   | 1 121 632                                 | 115 571                          | 348 811                                | 40 151                                   | 175 393                                    | 70 683                     | 279 302                          | 91 721                                    |
| FINISHED PRODUCTS . . . . . DO. . . . .                                     | 340 057                                   | 21 829                           | 84 824                                 | 10 337                                   | 57 452                                     | 32 413                     | 97 155                           | 36 047                                    |
| WORK-IN-PROCESS . . . . . DO. . . . .                                       | 480 026                                   | 64 545                           | 164 697                                | 24 477                                   | 61 845                                     | 25 592                     | 98 887                           | 39 983                                    |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO. . .                             | 301 549                                   | 29 197                           | 99 290                                 | 5 337                                    | 56 096                                     | 12 678                     | 83 260                           | 15 691                                    |
| END OF YEAR, TOTAL. . . . . DO. . . . .                                     | 1 177 942                                 | 122 106                          | 367 296                                | 42 960                                   | 187 954                                    | 72 663                     | 289 511                          | 95 452                                    |
| FINISHED PRODUCTS . . . . . DO. . . . .                                     | 348 167                                   | 22 455                           | 87 613                                 | 10 676                                   | 65 552                                     | 33 195                     | 89 046                           | 39 630                                    |
| WORK-IN-PROCESS . . . . . DO. . . . .                                       | 518 271                                   | 69 721                           | 176 605                                | 26 590                                   | 69 642                                     | 26 632                     | 106 459                          | 42 622                                    |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO. . .                             | 311 504                                   | 29 930                           | 103 078                                | 5 694                                    | 52 760                                     | 12 836                     | 94 006                           | 13 200                                    |
| EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL OO. .                           | 199 387                                   | 18 825                           | 43 025                                 | 6 861                                    | 31 879                                     | 9 352                      | 79 590                           | 9 855                                     |
| NEW, TOTAL. . . . . OO. . . . .   | 191 865                                   | 16 244                           | 41 437                                 | 6 163                                    | 31 080                                     | 9 085                      | 78 626                           | 9 230                                     |
| NEW STRUCTURES AND ADDITIONS TO PLANT . . . . . DO. .                       | 52 324                                    | 6 219                            | 13 362                                 | 2 140                                    | 10 260                                     | 851                        | 17 859                           | 1 633                                     |
| NEW MACHINERY AND EQUIPMENT . . . . . DO. . .                               | 139 541                                   | 10 025                           | 28 075                                 | 4 023                                    | 20 820                                     | 8 234                      | 60 767                           | 7 597                                     |
| USED PLANT AND EQUIPMENT. . . . . DO. . . . .                               | 7 522                                     | 2 581                            | 1 588                                  | 698                                      | 799  | 267                        | 964                              | 625                                       |
| SELECTED OPERATING RATIOS:  |   |                                  |  |  |  |                            |                                  |   |
| PAYROLL/TOTAL EMPLOYMENT. . . . .   | 6 261                                     | 6 292                            | 6 180                                  | 6 636                                    | 5 653                                      | 4 748                      | 7 682                            | 5 297                                     |
| PRODUCTION WORKERS/TOTAL EMPLOYMENT . . . . .                               | .68                                       | .67                              | .67                                    | .70                                      | .71  | .81                        | .60                              | .78                                       |
| MAN-HOURS/PRODUCTION WORKERS. . . . .                                       | 1 998                                     | 2 010                            | 2 026                                  | 2 014                                    | 1 986                                      | 1 990                      | 1 981                            | 1 963                                     |
| PRODUCTION WORKER WAGES/MAN-HOURS . . . . .                                 | 2.64                                      | 2.69                             | 2.72                                   | 2.82                                     | 2.30                                       | 2.10                       | 3.24                             | 2.25                                      |
| COST OF MATERIALS AND PAYROLLS/TOTAL VALUE OF SHIPMENTS. . . . .            | .67                                       | .74                              | .69                                    | .74                                      | .68  | .74                        | .58                              | .74                                       |
| COST OF MATERIALS/TOTAL VALUE OF SHIPMENTS. . . . .                         | .35                                       | .36                              | .34                                    | .34                                      | .40  | .35                        | .31                              | .45                                       |
| ADJUSTED VALUE ADDED/TOTAL EMPLOYMENT . . . . .                             | 13 070                                    | 10 839                           | 11 821                                 | 11 063                                   | 12 344                                     | 8 675                      | 19 559                           | 10 327                                    |
| SALARIES AND WAGES/ADJUSTED VALUE ADDED . . . . .                           | .48                                       | .58                              | .52                                    | .60                                      | .46  | .54                        | .39                              | .51                                       |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.





## INSTRUMENTS; SURGICAL, DENTAL, AND OPHTHALMIC GOODS

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3811—Engineering, Laboratory, and Scientific and Research Instruments and Associated Equipment
- 3821—Mechanical Measuring and Controlling Instruments, Except Automatic Temperature Controls
- 3822—Automatic Temperature Controls
- 3831—Optical Instruments and Lenses
- 3841—Surgical and Medical Instruments and Apparatus
- 3842—Orthopedic, Prosthetic, and Surgical Appliances and Supplies
- 3843—Dental Equipment and Supplies
- 3851—Ophthalmic Goods

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

Each of these industries is characterized by a wide variety of products. However, most of the individual establishments tend to specialize in a single product or group of similar products. Many of the categories include hundreds of different specific products. For example, data for most types of laboratory and scientific instruments and apparatus are presented as a single item. The products included in many of these items are highly diversified and range from very simple hand tools to highly complex instruments such as mapping equipment.

Establishments in the instrument industries (particularly industries 3811, 3821, and 3831 covered in this report and industry 3611, Electric Measuring Instruments, which includes plants primarily engaged in manufacturing instruments for indicating, measuring, and recording electrical quantities and characteristics), produce a wide variety of complex items requiring skilled workmanship and an unusually high degree of precision. Plants of this type have a higher ratio of wages to value of shipments than are found in other industries. The instrument industries have also experienced significant technological advances which have intensified even further the need for the high degree of precision.

Industries 3842, Surgical Appliances and Supplies, and 3843, Dental Equipment and Supplies, include many establishments which specialize in a single line of appliances or

supplies. These establishments perform a wide variety of manufacturing processes and consume different types of materials. However, they are brought together into these two industries by the use to which their products are put.

Separate descriptions of these industries are given below.

#### 3811—ENGINEERING, LABORATORY, AND SCIENTIFIC AND RESEARCH INSTRUMENTS AND ASSOCIATED EQUIPMENT

This industry comprises establishments primarily engaged in manufacturing laboratory, scientific, and engineering instruments such as nautical, navigational, aeronautical, surveying, drafting, and instruments for laboratory work and scientific research (except optical instruments--industry 3831). Establishments primarily engaged in manufacturing surgical and medical instruments are classified in industry 3841; dental instruments and equipment in industry 3843; mechanical measuring and controlling instruments in industry 3821; machinists' precision measuring tools in industry 3545; instruments for indicating, measuring, and recording electrical quantities and characteristics in industry 3611; watches and clocks in industry 3871; and measuring and dispensing pumps in industry 3586. For a detailed list of products of industry 3811, refer to tables 6A-1 and 6A-2.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

During the period 1958-1963 reports received from some large establishments indicated a change from the manufacture primarily of such individual instruments as those used for indicating air speed, rate-of-climb, angle-of-yaw and similar flight characteristics, and gyroscopes which are sold separately, to primarily manufacturing complete instrumentation systems for navigation, guidance, check-out, etc. The major impact of this change has been on the classification of products and, consequently, the SIC coding of these large establishments. This change in reporting was brought to light by the initiation by the Census Bureau of detailed commodity surveys in the fields of electronic products and instrumentation. The electronic and associated products report (MA-36N) was started covering the year 1961 and the instruments series (MA-38B) was broadened for 1963 to encompass most types of instruments following an introductory report for 1961 and 1962 covering industrial process instruments and test and measuring equipment. Annual statistics from both reports are published in the Current Industrial Reports Series.

In both the 1958 Census of Manufactures and the Annual Survey of Manufactures from 1959 through 1962 the classification of systems was not sufficiently spelled out in the product inquiries of these programs, especially at the 5-digit product class level. However, with the introduction in the MA-36N and MA-38B surveys of detailed 7-digit product information which itself is used to build up to broader 5-digit product class totals, these totals, although they should be the same as those reported on Form MA-100 (Annual Survey of Manufactures), have differed. The respondents affected have identified the proportion of earlier years' output which consisted of systems rather than instruments as such, which was the manner in which the items were originally reported.

In view of the above, the annual data for 1958-1962 have been revised, as indicated with the symbol "r" in the appropriate tables. Because of the shift in recent years from instruments which are classified in industry 3811 to complete systems which are classified in industry 3662, the year-to-year changes are of dubious validity for the industries considered separately. The two industries taken in combination however, would yield significant measures of activity in the general area.

Value of shipments and other receipts of the Scientific Instruments Industry totaled \$554 million. This amount included shipments of scientific instruments (primary products) valued at \$406 million, shipments of other products (secondary products) valued at \$80 million, and miscellaneous receipts (mainly resales) at \$68 million.



This industry's shipments of scientific instruments represented 84 percent of its total product shipments. The industry specialization ratio in 1958 was 78 percent. Secondary products shipped by this industry in 1963 consisted mainly of industrial process instruments (\$6 million), and aircraft engine instruments, except flight (\$6 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 46 percent of the total industry shipments are represented by plants specializing in product class 38111, Aircraft, flight, nautical and navigational instruments and automatic pilots; 28 percent in 38112, Laboratory and scientific instruments; and 23 percent in 38113, Surveying and drafting instruments and laboratory furniture.

Shipments of scientific instruments by this industry represented 56 percent of all shipments of these products (\$722 million) by all industries. In 1958 the coverage ratio was 67 percent. Other industries shipping scientific instruments consisted mainly of industry 3662, Radio, TV Communications Equipment, \$175 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3811, e.g., Aircraft, flight, nautical, and navigational instruments and automatic pilots (38111), 44 percent; and Surveying and drafting instruments and laboratory furniture (38113), 91 percent.

#### 3821—MECHANICAL MEASURING AND CONTROLLING INSTRUMENTS, EXCEPT AUTOMATIC TEMPERATURE CONTROLS

This industry comprises establishments primarily engaged in the manufacture of industrial process instruments for indicating, recording, measuring and controlling temperature (except automatic temperature controls—industry 3822), pressure and vacuum, fluid flow and liquid level, mechanical motion, rotation, humidity, density, acidity, alkalinity, and combustion; dial pressure gauges; physical property testing apparatus such as hardness, tension, compression, torsion, ductility; and elasticity testing apparatus. For a detailed list of products of industry 3821, refer to tables 6A-1 and 6A-2.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Mechanical Measuring Devices Industry totaled \$1,143 million. This amount included shipments of mechanical measuring devices (primary products) valued at \$819 million, shipments of other products (secondary products) valued at \$207 million, and miscellaneous receipts (mainly resales) at \$117 million.

This industry's shipments of mechanical measuring devices represented 90 percent of its total product shipments. The industry specialization ratio in 1958 was 86 percent. Secondary products shipped by this industry in 1963 consisted mainly of carburetors, pistons, and other machine shop products (\$20-\$50 million), and miscellaneous electrical measuring instruments (\$17 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 52 percent of the total industry shipments are represented by plants specializing in industrial process instruments (38213).

Shipments of mechanical measuring devices by this industry represented 83 percent of all shipments of these products (\$984 million) by all industries. In 1958 the coverage ratio was 76 percent. Other industries shipping mechanical measuring devices consisted mainly

of industry 3494, Valves and Pipe Fittings, \$9 million; and industry, 3811, Scientific Instruments, \$13 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3821, e.g., integrating meters, nonelectrical type (38212), 98 percent; motor vehicle instruments, except electric (38214), 66 percent; and aircraft engine instruments, except flight (38211), 62 percent.

#### 3822—AUTOMATIC TEMPERATURE CONTROLS

This industry comprises establishments primarily engaged in manufacturing automatic temperature controls activated by pressure, temperature, level, flow, time, or humidity (including pneumatic controls) of the type principally used as components of air conditioning, refrigeration, and comfort heating, or as components of household appliances. Establishments primarily engaged in manufacturing industrial electric controls are classified in industry 3622. For a detailed list of products of industry 3822, refer to table 6A-2, product codes 3822014 to 3822018.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Automatic Temperature Controls Industry totaled \$527 million. This amount included shipments of automatic temperature controls (primary products) valued at \$409 million, shipments of other products (secondary products) valued at \$91 million, and miscellaneous receipts (mainly resales) at \$27 million.

This industry's shipments of automatic temperature controls represented 82 percent of its total product shipments. The industry specialization ratio in 1958 was 88 percent. Secondary products shipped by this industry in 1963 consisted mainly of industrial controls (\$13 million), and metal valves for piping systems (\$9 million).

Shipments of automatic temperature controls by this industry in 1963 represented 95 percent of all shipments of these products (\$432 million) by all industries. In 1958 the coverage ratio was 94 percent. Other industries shipping automatic temperature controls consisted mainly of industry 3821, Mechanical Measuring Devices, \$10 million; and industry 3494, Valves and Pipe Fittings, \$2 million.

#### 3831—OPTICAL INSTRUMENTS AND LENSES

This industry comprises establishments primarily engaged in the production of optical lenses and prisms, and in manufacturing optical instruments such as microscopes, telescopes, field and opera glasses; and optical measuring and testing instruments such as refractometers, spectrometers, spectroscopes, colorimeters, and polariscopes. Establishments primarily engaged in manufacturing eyeglass lenses, frames, or fittings are classified in industry 3851; and those engaged in manufacturing sighting and fire-control instruments, but not engaged in manufacturing optical components, in industry 1941. For a detailed list of products of industry 3831, refer to table 6A-2, product codes 3831131 to 3831262.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Optical Instruments and Lenses Industry totaled \$196 million. This amount included shipments of optical instruments and lenses (primary products) valued at \$165 million, shipments of other products (secondary products) valued at \$17 million, and miscellaneous receipts (mainly resales) at \$14 million.



This industry's shipments of optical instruments and lenses represented 90 percent of its total product shipments. The industry specialization ratio in 1958 also was 90 percent. Secondary products shipped by this industry in 1963 consisted mainly of still picture equipment (\$3 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 75 percent of the total industry shipments are represented by plants specializing in product classes 38311, Optical and analytical instruments and lenses; and 21 percent in 38312, Sighting and fire-control equipment made from lenses, prisms, etc., produced in the same plant.

Shipments of optical instruments and lenses by this industry represented 61 percent of all shipments of these products (\$270 million) by all industries. In 1958 the coverage ratio was 66 percent. Other industries shipping optical instruments and lenses consisted mainly of industry 3662, Radio, TV Communications Equipment, \$10-\$20 million.

#### 3841—SURGICAL AND MEDICAL INSTRUMENTS AND APPARATUS

This industry comprises establishments primarily engaged in manufacturing medical, surgical, ophthalmic, and veterinary instruments and apparatus. Establishments primarily engaged in manufacturing surgical and orthopedic appliances are classified in industry 3842; and electrotherapeutic, electromedical, and X-ray apparatus in industry 3693. For a detailed list of products of industry 3841, refer to table 6A-1, product codes 3841012 to 3841095.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Surgical and Medical Instruments Industry totaled \$284 million. This amount included shipments of surgical and medical instruments (primary products) valued at \$215 million, shipments of other products (secondary products) valued at \$29 million, and miscellaneous receipts (mainly resales) at \$40 million.

This industry's shipments of surgical and medical instruments represented 88 percent of its total product shipments. The industry specialization ratio in 1958 was 83 percent. Secondary products shipped by this industry in 1963 consisted mainly of surgical, orthopedic, and prosthetic appliances and supplies (\$3 million), and furniture and fixtures, n.e.c. (\$3 million).

Shipments of surgical and medical instruments by this industry represented 74 percent of all shipments of these products (\$291 million) by all industries. In 1958 the coverage ratio was 76 percent. Other industries shipping surgical and medical instruments consisted mainly of industry 2834, Pharmaceutical Preparations, \$22 million; and industry 3842, Surgical Appliances and Supplies, \$6 million.

The production index for the primary products of the industry increased to 254 in 1963 from the 1958 level of 117. The unit value index for 1963 was 109 compared to 112 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3842—ORTHOPEDIC, PROSTHETIC, AND SURGICAL APPLIANCES AND SUPPLIES

This industry comprises establishments primarily engaged in manufacturing orthopedic, prosthetic, and surgical appliances and supplies, arch supports, and other foot appliances; fracture appliances, elastic hosiery, abdominal supporters, braces, and trusses; bandages; surgical gauze and dressings; sutures; adhesive tapes and medicated plasters; and personal

safety appliances and equipment. Establishments primarily engaged in manufacturing surgical and medical instruments are classified in industry 3841. Establishments primarily engaged in manufacturing appliances and in the personal fitting to the individual prescription of a physician are classified in trade industries. For a detailed list of products of industry 3842, refer to table 6A-1, product codes 3842111 to 3842400.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Surgical Appliances and Supplies Industry totaled \$597 million. This amount included shipments of surgical appliances and supplies (primary products) valued at \$415 million, shipments of other products (secondary products) valued at \$105 million, and miscellaneous receipts (mainly resales) at \$77 million.

This industry's shipments of surgical appliances and supplies represented 80 percent of its total product shipments. The industry specialization ratio in 1958 was 84 percent. Secondary products shipped by this industry in 1963 consisted mainly of pharmaceutical preparations affecting parasitic and infective diseases, for human use (\$10-\$20 million), and cosmetic and toilet preparations (\$10-\$20 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 73 percent of the total industry shipments are represented by plants specializing in product class 38421; Surgical, orthopedic and prosthetic appliances and supplies; and 18 percent in 38423, Personal industrial safety devices.

Shipments of surgical appliances and supplies by this industry represented 90 percent of all shipments of these products (\$462 million) by all industries. In 1958 the coverage ratio was also 90 percent. Other industries shipping surgical appliances and supplies consisted mainly of industry 2641, Paper Coating and Glazing, \$10 million; and industry 3851, Ophthalmic Goods, \$5 million.

The production index for the primary products of the industry increased to 155 in 1963 from the 1958 level of 118. The unit value index for 1963 was 104 compared to 107 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3843—DENTAL EQUIPMENT AND SUPPLIES

This industry comprises establishments primarily engaged in manufacturing artificial teeth, dental metals, alloys and amalgams, and a wide variety of equipment, instruments, and supplies used by dentists, dental laboratories, and dental colleges. Dental laboratories constructing artificial dentures, bridges, inlays and other dental restorations on specifications from dentists are classified in service industries. For a detailed list of products of industry 3843, refer to table 6A-1, product codes 3843011 to 3843098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Dental Equipment and Supplies Industry totaled \$148 million. This amount included shipments of dental equipment and supplies (primary products) valued at \$128 million, shipments of other products (secondary products) valued at \$9 million, and miscellaneous receipts (mainly resales) at \$11 million.

This industry's shipments of dental equipment and supplies represented 94 percent of its total product shipments. The industry specialization ratio in 1958 was 95 percent. Secondary products shipped by this industry in 1963 consisted mainly of surgical and medical instruments (\$2-\$5 million).



Shipments of dental equipment and supplies by this industry represented 92 percent of all shipments of these products (\$140 million) by all industries. In 1958 the coverage ratio was 92 percent. Other industries shipping dental equipment and supplies consisted mainly of industry 3842, Surgical Appliances and Supplies, \$5-\$10 million.

The production index for the primary products of the industry increased to 134 in 1963 from the 1958 level of 118. The unit value index for 1963 was 131 compared to 118 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3851—OPHTHALMIC GOODS

This industry comprises establishments primarily engaged in manufacturing ophthalmic frames, lenses, and sunglass lenses. Establishments primarily engaged in manufacturing slit lamps are classified in industry 3841, and molded glass blanks in industry 3229. Establishments primarily engaged in grinding lenses and fitting glasses to prescription are classified in trade. For a detailed list of products of industry 3851, refer to table 6A-1, product codes 3851012 to 3851098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

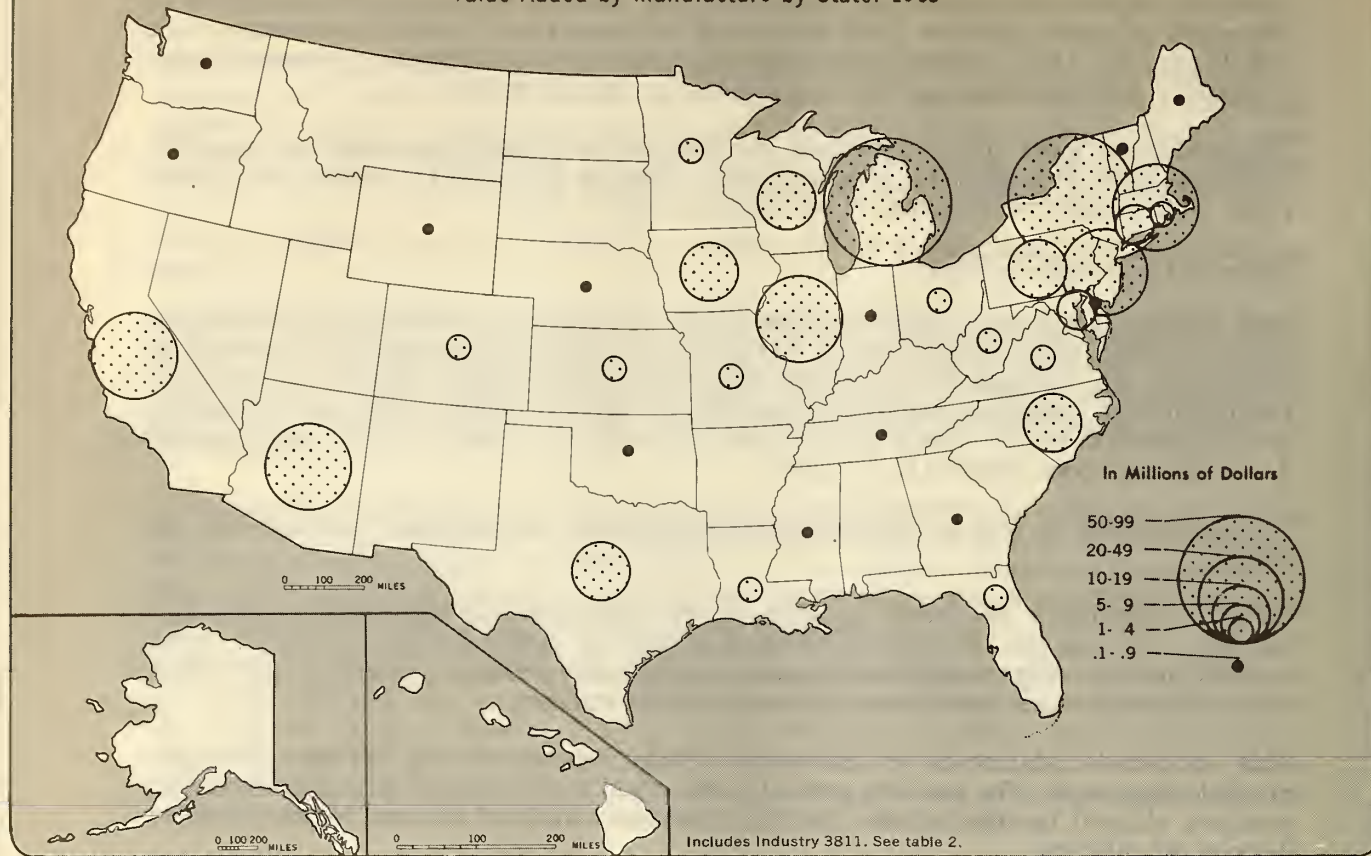
Value of shipments and other receipts of the Ophthalmic Goods Industry totaled \$273 million. This amount included shipments of ophthalmic goods (primary products) valued at \$226 million, shipments of other products (secondary products) valued at \$37 million, and miscellaneous receipts (mainly resales) at \$10 million.

This industry's shipments of ophthalmic goods represented 86 percent of its total product shipments. The industry specialization ratio in 1958 was 87 percent. Secondary products shipped by this industry in 1963 consisted mainly of personal industrial safety devices (\$5 million).

Shipments of ophthalmic goods by this industry represented 92 percent of all shipments of these products (\$244 million) by all industries. In 1958 the coverage ratio was 98 percent. Other industries shipping ophthalmic goods consisted mainly of industry 2821, Plastics Materials and Resins, and industry 3861, Photographic Equipment, both over \$2 million each.

The production index for the primary products of the industry increased to 139 in 1963 from the 1958 level of 109. The unit value index for 1963 was 126 compared to 113 in 1958. Both indexes were computed on a basis of 1954 = 100.

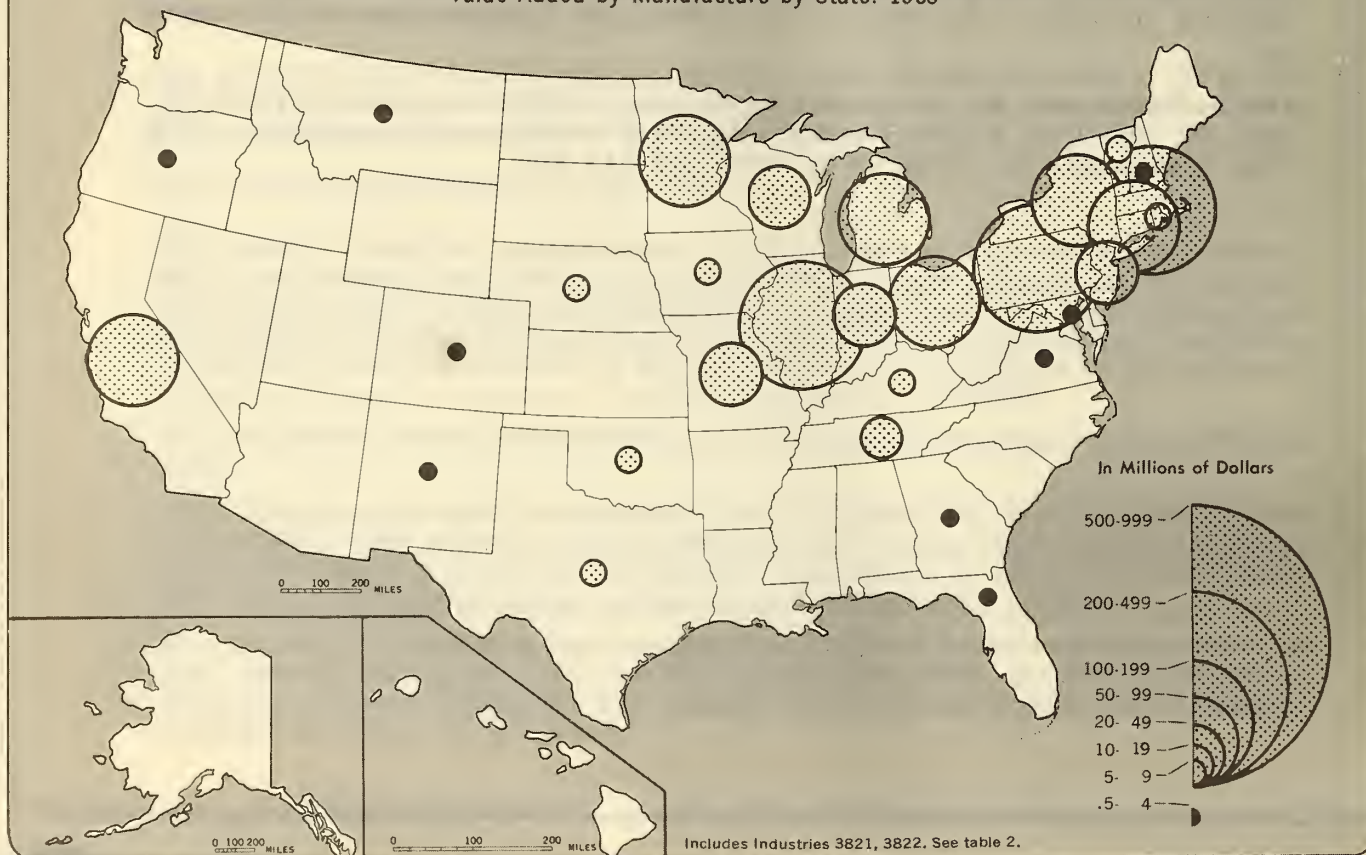
**SCIENTIFIC INSTRUMENTS: SIC 381**  
 Value Added by Manufacture by State: 1963



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**MECHANICAL MEASURING DEVICES: SIC 382**  
 Value Added by Manufacture by State: 1963

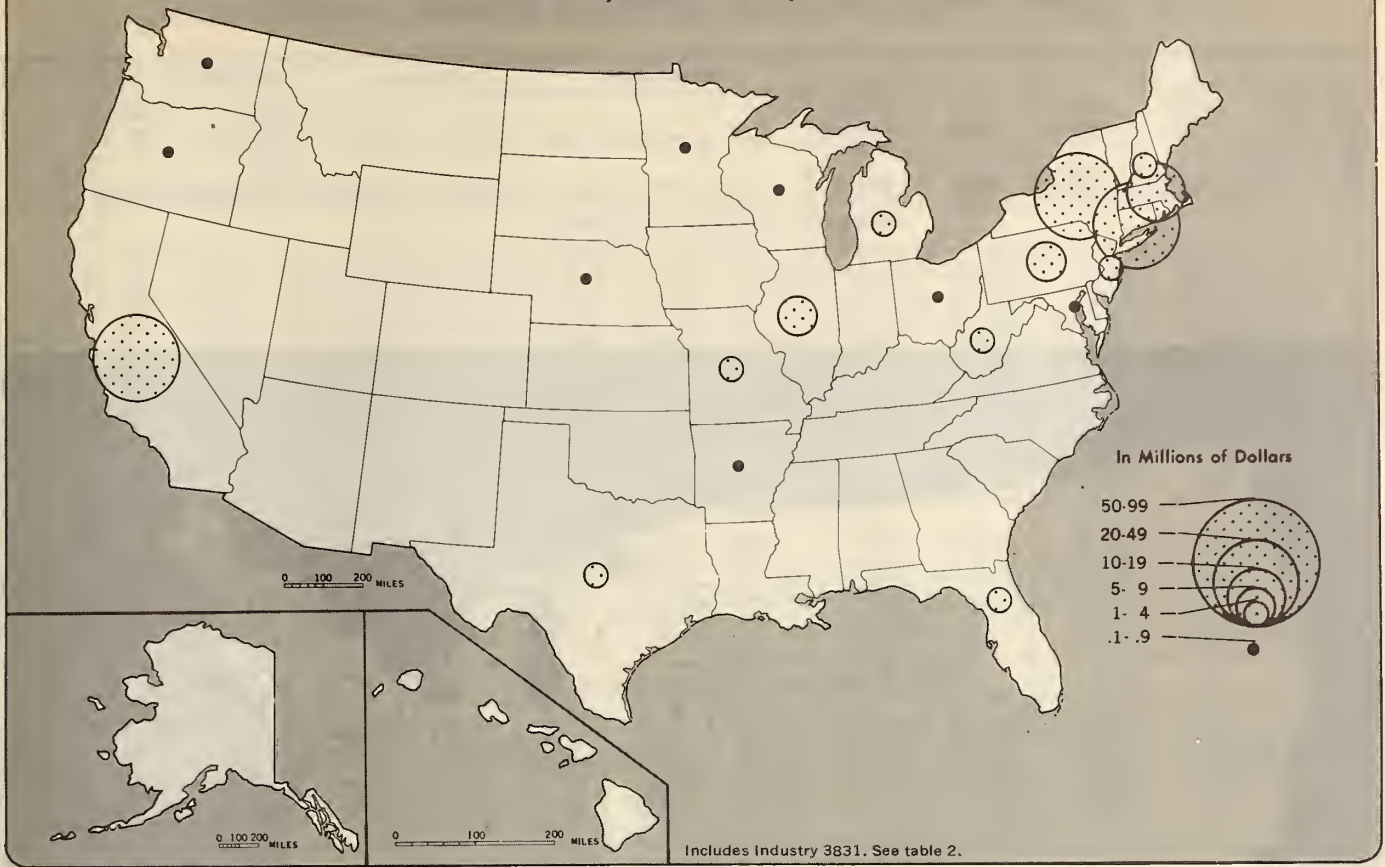


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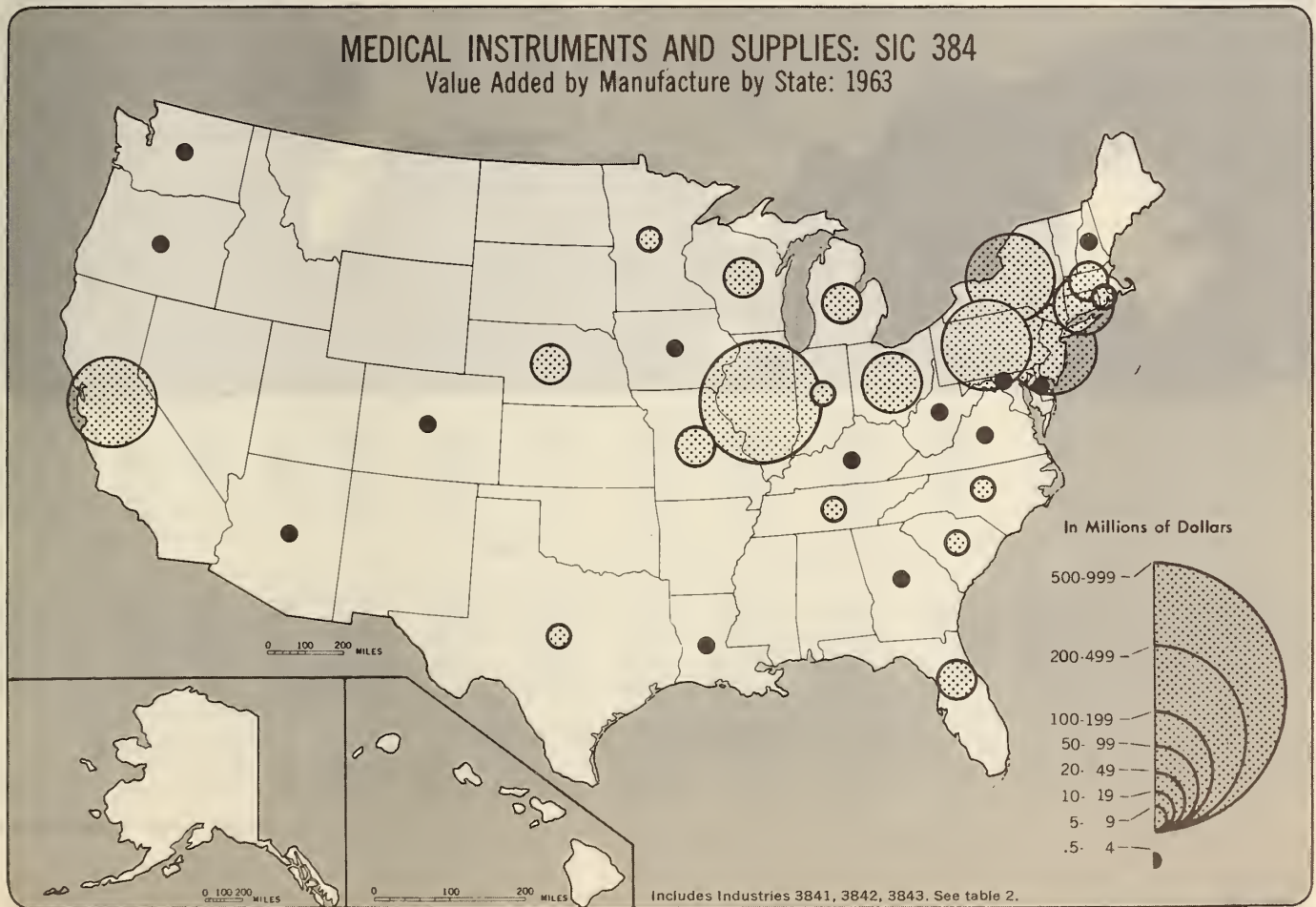
**OPTICAL INSTRUMENTS AND LENSES: SIC 383**  
 Value Added by Manufacture by State: 1963



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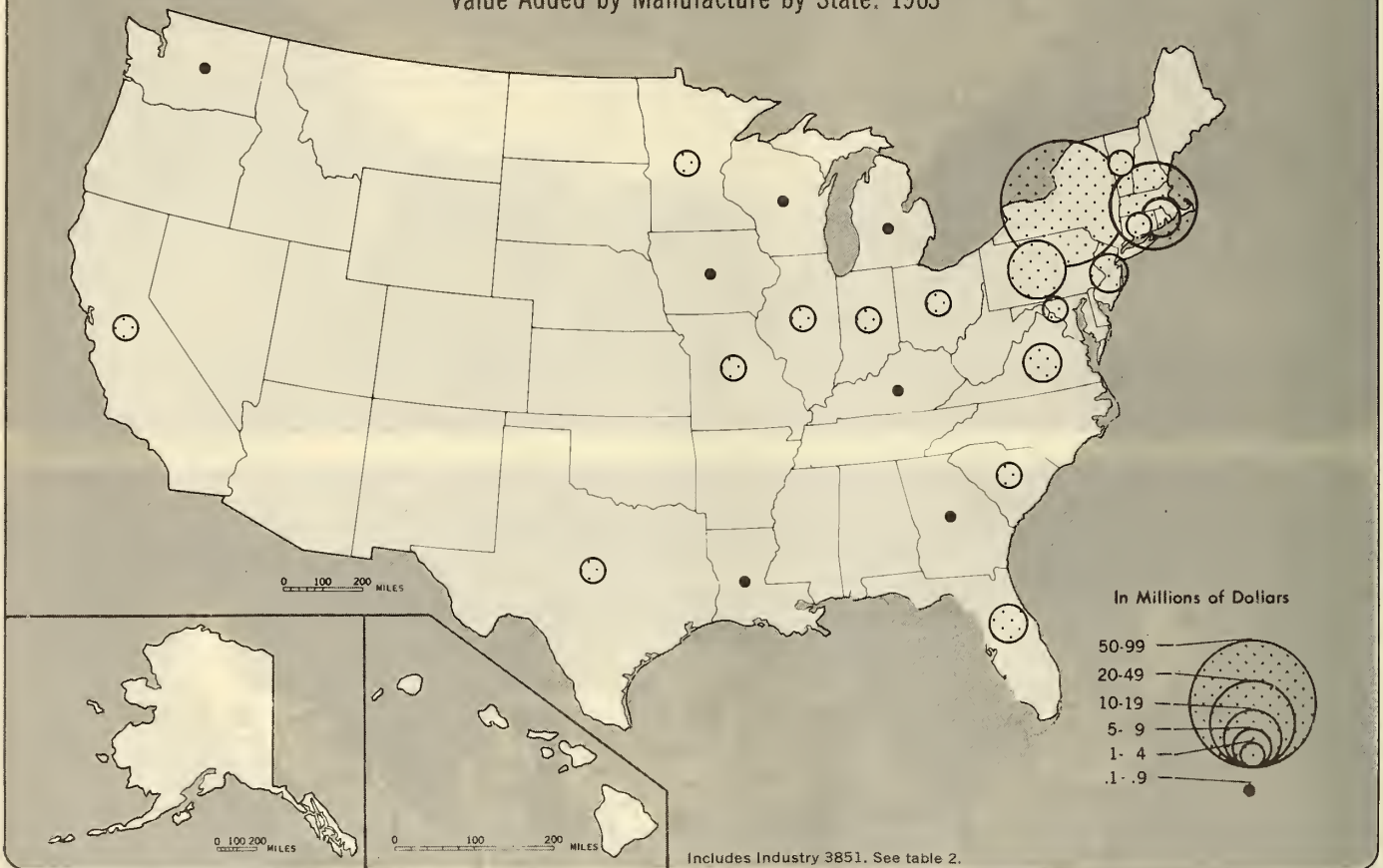
**MEDICAL INSTRUMENTS AND SUPPLIES: SIC 384**  
 Value Added by Manufacture by State: 1963



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

OPHTHALMIC GOODS: SIC 385  
Value Added by Manufacture by State: 1963



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS



TABLE 1. General Statistics: 1963 and Earlier Years

| Year  | Companies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expendi-<br>tures,<br>new<br>(\$1,000) | Speci-<br>alization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|-----------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|---|-----------------------------------|------------------------------------|---|--|--|
|   |                       | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                   |                                    |   |  |  |
| INDUSTRY 3811.—SCIENTIFIC INSTRUMENTS           |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                                       | 571                   | 594               | 213  | 33,084            | 208,171              | 22,184             | 44,584               | 119,836            | 358,588   | 200,034                           | 553,920                            | 16,244  | 84   | 56                                       |
| 1962 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 51,005            | 313,229              | 35,121             | 71,087               | 194,780            | 503,466   | 236,804                           | 748,902                            | 28,698  | (NA)   | (NA)                                     |
| 1961 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 68,128            | 453,601              | 44,498             | 88,786               | 244,440            | 687,711   | 385,979                           | 1,097,610                          | 27,172  | (NA)   | (NA)                                     |
| 1960 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 72,891            | 469,352              | 46,943             | 97,178               | 261,412            | 742,838   | 427,906                           | 1,166,000                          | 29,366  | (NA)   | (NA)                                     |
| 1959 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 72,786            | 461,475              | 49,185             | 102,956              | 273,728            | 729,465   | 416,833                           | 1,133,707                          | 21,008  | (NA)   | (NA)                                     |
| 1958(new) <sup>2r</sup> .....                   | 539                   | 559               | 202  | 57,249            | 330,209              | 35,758             | 78,017               | 198,450            | 481,166   | 283,104                           | 752,542                            | 16,580  | 78   | 67                                       |
| 1958(old) <sup>2r</sup> .....                   | (NA)                  | 489               | 171  | 53,258            | 312,292              | 35,862             | 72,060               | 187,238            | 450,695   | 257,606                           | 697,456                            | 15,926  | (NA)   | (NA)                                     |
| 1957 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 58,913            | 339,987              | 38,343             | 82,740               | 200,507            | 505,709   | 295,778                           | 761,248                            | 23,769  | (NA)   | (NA)                                     |
| 1956 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 52,321            | 291,909              | 36,040             | 75,046               | 177,266            | 440,340   | 239,666                           | 637,954                            | 19,733  | (NA)   | (NA)                                     |
| 1955 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 46,095            | 236,965              | 31,460             | 65,631               | 145,050            | 343,877   | 193,461                           | 516,417                            | 10,080  | (NA)   | (NA)                                     |
| 1954 <sup>3r</sup> .....                        | (NA)                  | 370               | 131  | 45,315            | 217,831              | 30,797             | 64,264               | 134,801            | 340,146   | 224,203                           | 580,916                            | 8,615   | 77   | 64                                       |
| 1953 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 31,394            | 146,693              | 22,418             | 48,711               | 100,026            | 238,702   | 136,962                           | 375,664                            | 8,176   | (NA)   | (NA)                                     |
| 1952 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 41,494            | 202,587              | 27,615             | 60,493               | 124,627            | 277,293   | 211,032                           | 488,325                            | 8,751   | (NA)   | (NA)                                     |
| 1951 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 36,724            | 169,528              | 23,952             | 51,925               | 102,447            | 180,579   | 142,588                           | 323,176                            | 14,690  | (NA)   | (NA)                                     |
| 1950 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 25,592            | 104,447              | 16,425             | 34,392               | 60,006             | 128,951   | 59,923                            | 188,874                            | 6,594   | (NA)   | (NA)                                     |
| 1949 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 15,357            | 54,846               | 10,706             | 21,295               | 34,861             | 77,677  | 36,213                            | 113,890                            | 2,285   | (NA)   | (NA)                                     |
| 1947 <sup>3r</sup> .....                        | (NA)                  | 215               | 93   | 18,419            | 56,015               | 13,526             | 30,099               | 37,738             | 75,922  | 41,390                            | 117,312                            | 4,489   | 81   | 82                                       |
| 1939 <sup>3r</sup> .....                        | (NA)                  | 125               | (NA)   | (NA)              | (NA)                 | 6,529              | (NA)                 | 10,067             | 30,627  | 11,624                            | 42,251                             | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3821.—MECHANICAL MEASURING DEVICES     |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                                       | 510                   | 670               | 258  | 62,353            | 388,874              | 40,383             | 81,510               | 222,826            | 732,529   | 415,855                           | 1,143,416                          | 30,914  | 90   | 83                                       |
| 1962 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 65,077            | 376,233              | 41,264             | 85,572               | 205,410            | 673,981   | 406,882                           | 1,073,753                          | 29,626  | (NA)   | (NA)                                     |
| 1961 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 60,067            | 340,262              | 37,047             | 73,904               | 176,707            | 591,017   | 377,789                           | 965,369                            | 25,069  | (NA)   | (NA)                                     |
| 1960 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 59,701            | 340,524              | 37,505             | 76,709               | 183,594            | 599,992   | 365,217                           | 948,679                            | 24,394  | (NA)   | (NA)                                     |
| 1959 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 52,779            | 288,414              | 34,534             | 66,767               | 158,438            | 535,978   | 301,037                           | 824,656                            | (S)   | (NA)   | (NA)                                     |
| 1958 <sup>4r</sup> .....                        | 586                   | 627               | 229  | 50,049            | 258,488              | 32,123             | 62,982               | 144,873            | 457,126   | 262,571                           | 726,823                            | 18,215  | 86   | 76                                       |
| INDUSTRY 3822.—AUTOMATIC TEMPERATURE CONTROLS   |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                                       | 89                    | 104               | 54   | 31,685            | 192,301              | 22,299             | 45,459               | 122,154            | 379,091   | 158,091                           | 527,358                            | 10,523  | 82   | 95                                       |
| 1962 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 28,732            | 167,448              | 18,787             | 38,097               | 95,412             | 335,527   | 124,972                           | 448,287                            | 9,505   | (NA)   | (NA)                                     |
| 1961 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 28,251            | 158,752              | 18,807             | 38,614               | 93,690             | 324,568   | 114,855                           | 418,097                            | 13,393  | (NA)   | (NA)                                     |
| 1960 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 28,083            | 152,040              | 19,161             | 38,270               | 90,249             | 303,721   | 108,291                           | 395,548                            | 15,540  | (NA)   | (NA)                                     |
| 1959 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 28,181            | 151,232              | 19,190             | 39,299               | 91,802             | 287,681   | 108,534                           | 392,091                            | (13,941)  | (NA)   | (NA)                                     |
| 1958 <sup>4r</sup> .....                        | 71                    | 83                | 44   | 25,513            | 128,974              | 18,049             | 35,599               | 81,083             | 258,969   | 103,775                           | 359,430                            | 5,989   | 88   | 94                                       |
| INDUSTRY 3831.—OPTICAL INSTRUMENTS AND LENSES   |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                                       | 272                   | 280               | 79   | 11,924            | 79,131               | 8,306              | 16,728               | 47,149             | 131,917   | 66,557                            | 196,022                            | 6,163   | 90   | 61                                       |
| 1962 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 8,318             | 59,019               | 5,878              | 12,030               | 33,800             | 83,771  | 46,502                            | 134,153                            | 8,190   | (NA)   | (NA)                                     |
| 1961 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 7,881             | 51,214               | 5,428              | 10,684               | 29,129             | 37,856  | 103,363                           | 8,556                              | (NA)  | (NA)   | (NA)                                     |
| 1960 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 8,041             | 51,136               | 5,727              | 11,629               | 30,610             | 79,406  | 49,099                            | 124,247                            | 3,614   | (NA)   | (NA)                                     |
| 1959 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 8,720             | 50,742               | 6,551              | 13,775               | 31,654             | 81,515  | 56,389                            | 134,764                            | (S)   | (NA)   | (NA)                                     |
| 1958.....                                       | 222                   | 224               | 58   | 7,184             | 37,586               | 5,141              | 10,485               | 23,459             | 60,387  | 42,679                            | 102,966                            | 3,438   | 90   | 66                                       |
| 1957 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 8,717             | 44,873               | 6,182              | 13,219               | 26,690             | 81,150  | 37,344                            | 111,343                            | (S)   | (NA)   | (NA)                                     |
| 1956 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 7,564             | 37,987               | 5,628              | 11,593               | 23,716             | 70,039  | 26,698                            | 94,692                             | 2,865   | (NA)   | (NA)                                     |
| 1955 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 8,115             | 36,143               | 6,139              | 12,629               | 23,759             | 60,052  | 23,217                            | 87,002                             | (S)   | (NA)   | (NA)                                     |
| 1954 <sup>3r</sup> .....                        | 202                   | 204               | 60   | 8,749             | 38,352               | 6,683              | 13,426               | 25,624             | 55,371  | 24,840                            | 83,339                             | 3,816   | 91   | 59                                       |
| 1953 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 16,419            | 73,732               | 12,494             | 25,472               | 49,483             | 112,699   | 37,531                            | 150,230                            | 6,023   | (NA)   | (NA)                                     |
| 1952 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 13,552            | 58,017               | 10,599             | 22,091               | 42,130             | 84,172  | 38,523                            | 122,695                            | 2,194   | (NA)   | (NA)                                     |
| 1951 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 12,432            | 50,610               | 9,699              | 19,996               | 35,997             | 66,944  | 27,899                            | 94,843                             | 2,779   | (NA)   | (NA)                                     |
| 1950 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 9,077             | 47,040               | 6,769              | 18,317               | 23,638             | 47,890  | 16,496                            | 64,386                             | 2,532   | (NA)   | (NA)                                     |
| 1949 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 7,167             | 25,422               | 5,327              | 10,957               | 17,131             | 31,856  | 11,626                            | 43,482                             | 1,243   | (NA)   | (NA)                                     |
| 1947 <sup>3r</sup> .....                        | (NA)                  | 115               | 35   | 8,478             | 24,737               | 6,682              | 10,820               | 17,965             | 34,090  | 11,254                            | 45,344                             | 1,520   | 93   | 75                                       |
| 1939 <sup>3r</sup> .....                        | (NA)                  | 31                | (NA)   | 3,016             | 4,684                | 2,209              | (NA)                 | 3,266              | 7,159   | 1,531                             | 8,690                              | (NA)  | (NA)   | (NA)                                     |
| INDUSTRY 3841.—SURGICAL AND MEDICAL INSTRUMENTS |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                                       | 256                   | 294               | 117  | 15,145            | 83,332               | 11,538             | 22,916               | 52,520             | 168,556   | 126,856                           | 284,014                            | 10,514  | 88   | 74                                       |
| 1962 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 12,373            | 66,998               | 9,217              | 18,214               | 40,787             | 129,182   | 93,804                            | 216,740                            | 6,753   | (NA)   | (NA)                                     |
| 1961 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 11,741            | 61,637               | 8,893              | 17,576               | 38,791             | 106,966   | 74,010                            | 181,514                            | 4,780   | (NA)   | (NA)                                     |
| 1960 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 11,630            | 58,134               | 8,810              | 17,604               | 36,824             | 96,778  | 64,161                            | 159,588                            | 4,397   | (NA)   | (NA)                                     |
| 1959 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 10,240            | 50,402               | 7,685              | 15,447               | 31,550             | 84,309  | 57,876                            | 141,961                            | 2,538   | (NA)   | (NA)                                     |
| 1958 <sup>4r</sup> .....                        | 223                   | 231               | 88   | 10,293            | 44,878               | 8,061              | 16,162               | 31,039             | 85,153  | 48,944                            | 130,477                            | 2,812   | 83   | 76                                       |
| INDUSTRY 3842.—SURGICAL APPLIANCES AND SUPPLIES |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |  |  |
| 1963.....                                       | 525                   | 704               | 162  | 28,267            | 161,800              | 18,987             | 37,904               | 85,790             | 370,273   | 230,054                           | 596,666                            | 17,831  | 80   | 90                                       |
| 1962 <sup>1r</sup> .....                        | (NA)                  | (NA)              | (NA)   | 28,882            | 175,897              | 17,593             | 35,088               | 78,422             | 365,902   | 230,820                           | 583,653                            | 20,355  | (NA)   | (NA)                                     |

See footnotes at end of table.

TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3842.—SURGICAL APPLIANCES AND SUPPLIES—Continued |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1961 <sup>1r</sup>  | (NA)                       | (NA)              | (NA)   | 27,868            | 164,968              | 17,118             | 34,913               | 73,677             | 357,119  | 225,579                           | 556,545                            | (30,421)  | (NA)  | (NA)                                     |
| 1960 <sup>1r</sup>  | (NA)                       | (NA)              | (NA)   | 27,311            | 158,396              | 17,312             | 34,736               | 72,860             | 365,023  | 226,117                           | 571,583                            | 12,069  | (NA)  | (NA)                                     |
| 1959 <sup>1r</sup>  | (NA)                       | (NA)              | (NA)   | 26,458            | 148,478              | 17,561             | 35,638               | 71,104             | 331,665  | 216,996                           | 547,620                            | (S)   | (NA)  | (NA)                                     |
| 1958 <sup>4</sup>   | 553                        | 590               | 161  | 24,179            | 114,867              | 16,277             | 31,460               | 62,122             | 257,640  | 200,377                           | 461,846                            | 9,110   | 84  | 90                                       |
| INDUSTRY 3843.—DENTAL EQUIPMENT AND SUPPLIES              |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963  | 267                        | 316               | 66   | 8,008             | 46,080               | 5,751              | 11,211               | 27,144             | 95,876   | 52,767                            | 147,805                            | 2,735   | 94  | 92                                       |
| 1962 <sup>1r</sup>  | (NA)                       | (NA)              | (NA)   | 7,281             | 39,062               | 5,113              | 9,976                | 22,620             | 88,006   | 51,848                            | 139,558                            | 1,887   | (X)   | (X)                                      |
| 1961 <sup>1r</sup>  | (NA)                       | (NA)              | (NA)   | 7,387             | 38,057               | 5,226              | 10,048               | 22,222             | 76,278   | 48,265                            | 124,047                            | 1,286   | (X)   | (X)                                      |
| 1960 <sup>1r</sup>  | (NA)                       | (NA)              | (NA)   | 7,525             | 38,072               | 5,411              | 10,320               | 23,185             | 79,503   | 48,309                            | 125,546                            | 2,819   | (X)   | (X)                                      |
| 1959 <sup>1r</sup>  | (NA)                       | (NA)              | (NA)   | 7,240             | 36,322               | 5,231              | 10,210               | 22,096             | 74,972   | 44,052                            | 118,221                            | 1,764   | (X)   | (X)                                      |
| 1958  | 240                        | 249               | 55   | 7,242             | 34,773               | 5,227              | 10,188               | 21,077             | 71,574   | 44,940                            | 115,667                            | 1,517   | 95  | 92                                       |
| 1957 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 6,796             | 30,391               | 4,746              | 9,688                | 19,872             | 70,685   | 43,100                            | 111,316                            | 1,426   | 96  | 93                                       |
| 1956 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 6,802             | 28,894               | 4,894              | 9,781                | 18,930             | 67,200   | 38,103                            | 102,869                            | 1,544   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup>   | (NA)                       | (NA)              | (NA)   | 6,917             | 28,039               | 4,927              | 9,984                | 18,421             | 56,489   | 33,722                            | 86,844                             | 1,442   | (NA)  | (NA)                                     |
| 1954 <sup>3</sup>   | 193                        | 197               | 49   | 7,103             | 28,206               | 5,107              | 10,366               | 17,974             | 53,290   | 30,706                            | 79,171                             | 1,434   | 95  | 94                                       |
| 1952 <sup>1 3</sup>                                       | (NA)                       | (NA)              | (NA)   | 7,988             | 30,678               | 6,067              | 11,996               | 19,248             | 52,105   | 30,293                            | 82,398                             | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1 3</sup>                                       | (NA)                       | (NA)              | (NA)   | 8,266             | 29,295               | 6,311              | 12,544               | 18,399             | 47,229   | 31,252                            | 78,481                             | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1 3</sup>                                       | (NA)                       | (NA)              | (NA)   | 7,117             | 23,482               | 5,230              | 10,136               | 14,297             | 42,980   | 27,259                            | 70,239                             | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1 3</sup>                                       | (NA)                       | (NA)              | (NA)   | 7,205             | 21,869               | 5,547              | 10,635               | 13,767             | 40,588   | 25,808                            | 66,396                             | (NA)  | (NA)  | (NA)                                     |
| 1947 <sup>3</sup>   | (NA)                       | 213               | 50   | 9,074             | 25,625               | 7,132              | 14,247               | 17,304             | 42,925   | 28,177                            | 71,102                             | 2,386   | 97  | 94                                       |
| 1939 <sup>3</sup>   | (NA)                       | (NA)              | (NA)   | 5,708             | 8,499                | 4,245              | (NA)                 | 4,825              | 18,289   | 13,258                            | 31,547                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>3</sup>   | (NA)                       | (NA)              | (NA)   | 5,626             | 7,952                | 4,574              | (NA)                 | 5,347              | 18,162   | 12,717                            | 30,879                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3851.—OPHTHALMIC GOODS                           |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963  | 211                        | 229               | 109  | 20,296            | 96,361               | 16,467             | 32,771               | 68,954             | 177,898  | 96,611                            | 272,687                            | 9,085   | 86  | 92                                       |
| 1962 <sup>1r</sup>  | (NA)                       | (NA)              | (NA)   | 21,068            | 93,744               | 17,764             | 35,553               | 70,240             | 159,919  | 81,690                            | 241,475                            | 7,133   | (NA)  | (NA)                                     |
| 1961 <sup>1r</sup>  | (NA)                       | (NA)              | (NA)   | 19,272            | 83,677               | 15,988             | 31,725               | 61,104             | 147,618  | 72,226                            | 217,790                            | 8,974   | (NA)  | (NA)                                     |
| 1960 <sup>1r</sup>  | (NA)                       | (NA)              | (NA)   | 20,662            | 84,237               | 17,135             | 33,708               | 63,142             | 152,830  | 74,319                            | 225,473                            | 5,685   | (NA)  | (NA)                                     |
| 1959 <sup>1r</sup>  | (NA)                       | (NA)              | (NA)   | 19,488            | 78,935               | 16,398             | 32,399               | 59,381             | 146,321  | 70,881                            | 214,811                            | 5,057   | (NA)  | (NA)                                     |
| 1958  | 226                        | 246               | 104  | 18,223            | 71,465               | 15,272             | 29,988               | 53,525             | 136,696  | 62,010                            | 194,446                            | 5,367   | 87  | 98                                       |
| 1954 <sup>3</sup>   | 223                        | 238               | 101  | 18,464            | 64,536               | 15,355             | 29,960               | 48,332             | 107,059  | 48,306                            | 159,061                            | 5,042   | 83  | 94                                       |
| 1953 <sup>1 3</sup>                                       | (NA)                       | (NA)              | (NA)   | 20,620            | 70,966               | 17,047             | 33,666               | 54,182             | 116,436  | 56,031                            | 172,467                            | 3,974   | (NA)  | (NA)                                     |
| 1952 <sup>1 3</sup>                                       | (NA)                       | (NA)              | (NA)   | 20,414            | 70,318               | 17,182             | (NA)                 | 53,467             | 117,161  | 56,175                            | 173,336                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1 3</sup>                                       | (NA)                       | (NA)              | (NA)   | 20,261            | 66,620               | 17,367             | 35,949               | 52,748             | 107,022  | 50,283                            | 157,305                            | 3,645   | (NA)  | (NA)                                     |
| 1949 <sup>1 3</sup>                                       | (NA)                       | (NA)              | (NA)   | 21,904            | 60,189               | 18,337             | 35,274               | 44,165             | 98,386   | 55,263                            | 153,649                            | (S)   | (NA)  | (NA)                                     |
| 1947 <sup>3</sup>   | 175                        | 184               | 97   | 22,562            | 57,112               | 19,847             | 39,441               | 46,507             | 87,205   | 33,948                            | 121,153                            | (NA)  | 86  | 97                                       |
| 1939 <sup>3</sup>   | (NA)                       | 91                | (NA)   | 13,497            | 19,271               | 10,252             | (NA)                 | 12,246             | 30,745   | 14,210                            | 44,955                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>3</sup>   | (NA)                       | 79                | (NA)   | (NA)              | (NA)                 | 10,906             | (NA)                 | 12,968             | 30,058   | 13,462                            | 43,520                             | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. Revised.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufacturers. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data. See text for explanation concerning shift from individual instruments to systems.

<sup>2</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification so that the industry is not comparable. The 1957 and earlier figures are on the old SIC definition of the industry.

<sup>3</sup>Data for Alaska and Hawaii are not included.

<sup>4</sup>A revision in the definition of this industry was introduced in the 1957 Standard Industrial Classification. Accordingly, the data for 1958-1963 are not comparable with those for earlier years.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                  | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                     |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|---------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees       | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                     |                                      |
| INDUSTRY 3811.—SCIENTIFIC INSTRUMENTS         |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                     |                                      |
| Total.....                                    | 594            | 213                                | 33,084         | 208,171           | 22,184             | 44,584            | 119,836         | 358,588                              | 200,034           | 553,920            | 16,244                    | <sup>r</sup> 57,249 | <sup>r</sup> 481,166                 |
| New England.....                              | 66             | 24                                 | 3,465          | 21,510            | 2,204              | 4,450             | 11,666          | 34,727                               | 16,669            | 51,444             | 2,153                     | 3,974               | 31,338                               |
| Massachusetts....                             | 35             | 14                                 | 2,747          | 16,978            | 1,722              | 3,476             | 8,860           | 27,092                               | 11,462            | 38,773             | 1,831                     | 2,519               | 21,398                               |
| Connecticut.....                              | 21             | 7                                  | 535            | 3,489             | 337                | 694               | 2,090           | 5,771                                | 3,741             | 9,393              | 285                       | 1,291               | 8,514                                |
| Middle Atlantic....                           | 159            | 56                                 | 7,874          | 51,337            | 5,052              | 9,903             | 27,510          | 89,115                               | 41,252            | 124,626            | 2,074                     | <sup>r</sup> 27,774 | <sup>r</sup> 229,488                 |
| New York.....                                 | 73             | 22                                 | 4,875          | 33,553            | 2,735              | 5,222             | 15,700          | 56,646                               | 19,248            | 70,168             | 1,002                     | <sup>r</sup> 11,894 | <sup>r</sup> 98,191                  |
| New Jersey.....                               | 47             | 19                                 | 2,007          | 12,324            | 1,552              | 3,202             | 8,222           | 20,249                               | 14,393            | 34,192             | 783                       | 13,866              | 114,877                              |
| Pennsylvania....                              | 39             | 15                                 | 992            | 5,460             | 765                | 1,479             | 3,588           | 12,220                               | 7,611             | 20,266             | 289                       | 2,014               | 16,420                               |
| North Central.....                            | 142            | 48                                 | 11,565         | 72,150            | 7,956              | 15,779            | 44,919          | 121,430                              | 76,773            | 198,049            | 8,302                     | 15,044              | 134,582                              |
| Ohio.....                                     | 24             | 3                                  | 294            | 1,496             | 227                | 464               | 960             | 3,339                                | 1,864             | 5,162              | 98                        | 452                 | 4,221                                |
| Illinois.....                                 | 56             | 22                                 | 3,019          | 17,537            | 1,989              | 3,981             | 9,911           | 36,719                               | 24,524            | 60,355             | 2,057                     | 2,229               | 22,212                               |
| Michigan.....                                 | 23             | 12                                 | 4,548          | 32,233            | 3,379              | 6,406             | 22,693          | 50,930                               | 33,018            | 83,941             | 3,493                     | 4,230               | 44,324                               |
| South Atlantic....                            | 44             | 20                                 | 2,865          | 14,212            | 2,084              | 4,256             | 8,685           | 27,561                               | 20,628            | 46,796             | (D)                       | ( <sup>2</sup> )    | ( <sup>2</sup> )                     |
| Maryland.....                                 | 14             | 7                                  | 770            | 4,533             | 548                | 1,049             | 2,964           | 7,369                                | 4,648             | 12,501             | 98                        | 1,489               | 10,961                               |
| Florida.....                                  | 8              | 2                                  | 254            | 1,219             | 187                | 363               | 688             | 2,305                                | 723               | 3,046              | 44                        | 239                 | 690                                  |
| East South Central.                           | 8              | 3                                  | 180            | 747               | 137                | 293               | 433             | 1,380                                | 1,240             | 2,638              | (D)                       | ( <sup>2</sup> )    | ( <sup>2</sup> )                     |
| West South Central.                           | 46             | 18                                 | 1,941          | 10,441            | 1,490              | 2,924             | 7,326           | 16,409                               | 11,414            | 27,592             | (D)                       | ( <sup>2</sup> )    | ( <sup>2</sup> )                     |
| Texas.....                                    | 40             | 15                                 | 1,740          | 9,335             | 1,360              | 2,672             | 6,736           | 13,228                               | 10,530            | 23,626             | 512                       | 2,466               | 17,263                               |
| Mountain.....                                 | 14             | 6                                  | 1,645          | 12,944            | 782                | 1,955             | 4,907           | 28,968                               | 9,823             | 40,418             | 824                       | 534                 | 5,952                                |
| Pacific.....                                  | 115            | 38                                 | 3,549          | 24,830            | 2,479              | 5,024             | 14,390          | 38,998                               | 22,235            | 62,357             | 1,284                     | 4,089               | 39,307                               |
| California.....                               | 111            | 36                                 | 3,414          | 24,027            | 2,389              | 4,860             | 13,950          | 37,774                               | 21,591            | 60,520             | 1,255                     | 4,003               | 38,627                               |
| INDUSTRY 3821.—MECHANICAL MEASURING DEVICES   |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                     |                                      |
| Total.....                                    | 670            | 258                                | 62,353         | 388,874           | 40,383             | 81,510            | 222,826         | 732,529                              | 415,855           | 1,143,416          | 30,914                    | 50,049              | 457,126                              |
| New England.....                              | 79             | 39                                 | 14,642         | 93,651            | 8,457              | 17,058            | 46,012          | 163,939                              | 82,895            | 247,166            | 7,525                     | 12,527              | 112,247                              |
| Middle Atlantic....                           | 209            | 82                                 | 20,770         | 131,971           | 14,165             | 28,299            | 80,649          | 257,993                              | 129,218           | 381,995            | 8,738                     | 20,585              | 186,159                              |
| Pennsylvania....                              | 54             | 30                                 | 11,483         | 77,130            | 7,539              | 15,311            | 44,856          | 158,969                              | 77,068            | 232,166            | 5,817                     | ( <sup>2</sup> )    | ( <sup>2</sup> )                     |
| East North Central.                           | 156            | 64                                 | 18,921         | 117,974           | 12,733             | 25,853            | 69,985          | 222,686                              | 149,044           | 366,945            | 10,791                    | ( <sup>2</sup> )    | ( <sup>2</sup> )                     |
| Ohio.....                                     | 32             | 16                                 | 4,927          | 28,108            | 2,334              | 4,472             | 10,245          | 46,842                               | 29,445            | 75,807             | 4,278                     | 3,998               | 33,117                               |
| Illinois.....                                 | 56             | 25                                 | 6,737          | 38,836            | 4,848              | 9,747             | 24,002          | 86,280                               | 44,629            | 129,132            | 2,047                     | 4,144               | 41,399                               |
| West North Central.                           | 23             | 6                                  | 956            | 4,744             | 775                | 1,652             | 3,526           | 13,005                               | 6,888             | 19,885             | 300                       | ( <sup>2</sup> )    | ( <sup>2</sup> )                     |
| Missouri.....                                 | 5              | 2                                  | 108            | 541               | 94                 | 161               | 427             | 1,001                                | 600               | 1,623              | 69                        | ( <sup>2</sup> )    | ( <sup>2</sup> )                     |
| South and West....                            | 203            | 67                                 | 7,064          | 40,534            | 4,253              | 8,648             | 22,654          | 74,906                               | 47,810            | 127,425            | 3,560                     | 5,209               | 52,315                               |
| Maryland.....                                 | 14             | 3                                  | 208            | 1,406             | 152                | 308               | 661             | 2,479                                | 1,119             | 3,490              | 169                       | 104                 | 967                                  |
| Oklahoma.....                                 | 12             | 7                                  | 475            | 2,563             | 340                | 726               | 1,691           | 5,076                                | 2,597             | 8,358              | 176                       | ( <sup>2</sup> )    | ( <sup>2</sup> )                     |
| Texas.....                                    | 26             | 9                                  | 483            | 2,742             | 333                | 687               | 1,791           | 7,356                                | 5,060             | 12,593             | 85                        | 459                 | 6,521                                |
| INDUSTRY 3822.—AUTOMATIC TEMPERATURE CONTROLS |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                     |                                      |
| Total.....                                    | 104            | 54                                 | 31,685         | 192,301           | 22,299             | 45,459            | 122,154         | 379,091                              | 158,091           | 527,358            | 10,523                    | 25,513              | 258,969                              |
| New England.....                              | 10             | 6                                  | 2,620          | 14,389            | 1,709              | 3,884             | 8,865           | 26,025                               | 10,224            | 36,081             | 640                       | 2,223               | 16,406                               |
| Middle Atlantic....                           | 19             | 9                                  | 2,649          | 14,977            | 2,022              | 3,866             | 10,296          | 25,671                               | 12,469            | 37,886             | 408                       | 2,280               | 17,831                               |
| New York.....                                 | 8              | 4                                  | 268            | 1,209             | 230                | 442               | 939             | 2,262                                | 1,965             | 4,086              | 77                        | ( <sup>2</sup> )    | ( <sup>2</sup> )                     |
| East North Central.                           | 39             | 21                                 | 12,751         | 76,825            | 8,906              | 17,785            | 47,907          | 156,958                              | 68,688            | 221,784            | 4,479                     | ( <sup>2</sup> )    | ( <sup>2</sup> )                     |
| Ohio.....                                     | 13             | 9                                  | 2,979          | 16,952            | 2,367              | 4,621             | 11,585          | 31,078                               | 11,634            | 43,027             | 1,100                     | 2,010               | 17,443                               |
| Illinois.....                                 | 13             | 5                                  | 5,617          | 34,879            | 3,591              | 7,395             | 19,935          | 76,630                               | 26,607            | 101,415            | 2,494                     | 3,634               | 47,574                               |
| West North Central.                           | 7              | 3                                  | 7,217          | 48,753            | 4,669              | 9,486             | 27,552          | 101,464                              | 36,265            | 133,682            | 2,216                     | ( <sup>2</sup> )    | ( <sup>2</sup> )                     |
| South and West....                            | 29             | 15                                 | 6,448          | 37,357            | 4,993              | 10,438            | 27,534          | 68,973                               | 30,445            | 97,925             | 2,780                     | 5,543               | 59,003                               |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                    | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3831.—OPTICAL INSTRUMENTS AND LENSES   |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                      | 280            | 79                                 | 11,924         | 79,131            | 8,306              | 16,728            | 47,149          | 131,917                              | 66,557            | 196,022            | 6,163                     | 7,184            | 60,387                               |
| New England.....                                | 34             | 14                                 | 3,603          | 27,503            | 2,162              | 4,387             | 13,990          | 47,166                               | 20,051            | 66,572             | 2,133                     | 2,138            | 19,610                               |
| Middle Atlantic....                             | 99             | 27                                 | 4,020          | 25,144            | 3,071              | 6,100             | 16,991          | 37,103                               | 20,419            | 56,888             | 2,103                     | 3,010            | 22,810                               |
| New York.....                                   | 62             | 16                                 | 3,070          | 18,907            | 2,243              | 4,457             | 12,096          | 28,162                               | 15,142            | 43,258             | 1,428                     | 2,599            | 20,451                               |
| New Jersey.....                                 | 14             | 3                                  | 206            | 1,106             | 174                | 319               | 725             | 1,677                                | 890               | 2,611              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pennsylvania.....                               | 23             | 8                                  | 744            | 5,131             | 654                | 1,324             | 4,170           | 7,264                                | 4,387             | 11,019             | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| East North Central.                             | 41             | 10                                 | 1,071          | 6,744             | 733                | 1,474             | 4,010           | 10,443                               | 5,995             | 17,515             | 193                       | 889              | 6,753                                |
| Illinois.....                                   | 20             | 8                                  | 682            | 4,250             | 473                | 973               | 2,587           | 7,126                                | 2,475             | 9,426              | 133                       | 721              | 5,402                                |
| West North Central.                             | 14             | 4                                  | 350            | 1,660             | 246                | 499               | 1,083           | 2,888                                | 1,336             | 3,897              | 135                       | 114              | 763                                  |
| Missouri.....                                   | 6              | 3                                  | 282            | 1,384             | 197                | 400               | 895             | 2,322                                | 1,105             | 3,108              | 98                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South.....                                      | 21             | 6                                  | 775            | 3,427             | 644                | 1,210             | 2,398           | 8,494                                | 7,020             | 14,584             | 254                       | 325              | 4,371                                |
| Mountain.....                                   | 5              | -                                  | 14             | 58                | 11                 | 22                | 43              | 151                                  | 30                | 179                | 11                        | 708              | 6,080                                |
| Pacific.....                                    | 66             | 18                                 | 2,091          | 14,595            | 1,439              | 3,036             | 8,634           | 25,672                               | 11,706            | 36,387             | 1,334                     | 660              | 5,738                                |
| California.....                                 | 59             | 17                                 | 2,020          | 14,211            | 1,391              | 2,938             | 8,371           | 25,029                               | 11,197            | 35,245             | 1,310                     | 660              | 5,738                                |
| INDUSTRY 3841.—SURGICAL AND MEDICAL INSTRUMENTS |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                      | 294            | 117                                | 15,145         | 83,332            | 11,538             | 22,916            | 52,520          | 168,556                              | 126,856           | 284,014            | 10,514                    | 10,293           | 85,153                               |
| New England.....                                | 34             | 20                                 | 1,965          | 9,555             | 1,635              | 3,350             | 6,984           | 20,634                               | 12,682            | 32,532             | 2,592                     | 1,799            | 12,067                               |
| Massachusetts....                               | 20             | 11                                 | 645            | 3,466             | 479                | 952               | 2,092           | 7,396                                | 4,987             | 12,182             | 243                       | 698              | 5,253                                |
| Middle Atlantic....                             | 89             | 38                                 | 5,284          | 30,412            | 4,067              | 7,889             | 18,400          | 42,650                               | 53,899            | 93,215             | 1,556                     | 4,711            | 39,473                               |
| New York.....                                   | 51             | 22                                 | 2,474          | 12,616            | 1,906              | 3,723             | 8,256           | 22,282                               | 14,949            | 35,857             | 961                       | 2,251            | 16,188                               |
| East North Central.                             | 59             | 33                                 | 2,908          | 16,232            | 2,067              | 4,098             | 9,940           | 31,978                               | 24,584            | 55,530             | 980                       | 1,310            | 13,705                               |
| Ohio.....                                       | 16             | 9                                  | 622            | 3,163             | 464                | 930               | 2,072           | 6,280                                | 3,578             | 9,194              | 127                       | 389              | 3,170                                |
| Indiana.....                                    | 12             | 6                                  | 473            | 2,699             | 315                | 648               | 1,418           | 8,342                                | 6,101             | 14,173             | 505                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Illinois.....                                   | 20             | 14                                 | 1,246          | 6,966             | 844                | 1,706             | 4,216           | 10,114                               | 7,345             | 17,514             | 193                       | 343              | 2,703                                |
| West North Central.                             | 23             | 10                                 | 1,742          | 8,979             | 1,448              | 2,921             | 6,301           | 22,587                               | 14,096            | 35,847             | 1,238                     | 1,109            | 8,045                                |
| South Atlantic....                              | 16             | 4                                  | 656            | 3,628             | 535                | 1,154             | 2,755           | 12,895                               | 5,042             | 16,013             | (D)                       | 78               | 458                                  |
| East South Central.                             | 5              | 3                                  | 370            | 1,572             | 313                | 580               | 1,125           | 3,813                                | 1,356             | 4,956              | (D)                       | 401              | 2,984                                |
| West South Central.                             | 8              | -                                  | 37             | 219               | 24                 | 48                | 89              | 172                                  | 173               | 326                | 11                        | 20               | 114                                  |
| Mountain.....                                   | 7              | -                                  | 37             | 185               | 21                 | 38                | 90              | 307                                  | 282               | 598                | 9                         | 20               | 113                                  |
| Pacific.....                                    | 53             | 9                                  | 2,146          | 12,550            | 1,428              | 2,838             | 6,836           | 33,520                               | 14,742            | 44,997             | 2,174                     | 845              | 8,194                                |
| California.....                                 | 48             | 9                                  | 2,139          | 12,513            | 1,421              | 2,842             | 6,799           | 33,393                               | 14,689            | 44,817             | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| INDUSTRY 3842.—SURGICAL APPLIANCES AND SUPPLIES |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                      | 704            | 162                                | 28,267         | 161,800           | 18,987             | 37,904            | 85,790          | 370,273                              | 230,054           | 596,666            | 17,831                    | 24,179           | 257,640                              |
| New England.....                                | 67             | 29                                 | 3,986          | 16,996            | 3,032              | 5,985             | 11,691          | 34,559                               | 23,471            | 55,852             | 1,519                     | 2,790            | 19,003                               |
| Connecticut.....                                | 16             | 13                                 | 1,967          | 8,304             | 1,351              | 2,609             | 5,028           | 18,513                               | 11,957            | 29,682             | 529                       | 1,885            | 12,891                               |
| Middle Atlantic....                             | 172            | 39                                 | 11,036         | 74,972            | 6,200              | 12,821            | 32,528          | 165,902                              | 89,073            | 252,615            | 7,829                     | 9,646            | 113,821                              |
| New York.....                                   | 99             | 15                                 | 2,930          | 15,594            | 1,991              | 3,989             | 8,592           | 37,023                               | 20,467            | 57,694             | 1,034                     | 2,665            | 32,978                               |
| East North Central.                             | 152            | 41                                 | 6,385          | 38,444            | 4,553              | 8,973             | 21,692          | 108,893                              | 67,956            | 178,807            | 5,442                     | 7,716            | 90,633                               |
| Ohio.....                                       | 47             | 14                                 | 1,148          | 5,383             | 859                | 1,668             | 3,256           | 10,938                               | 6,040             | 16,867             | 191                       | 1,394            | 9,250                                |
| Illinois.....                                   | 51             | 16                                 | 3,910          | 27,042            | 2,704              | 5,450             | 14,789          | 82,866                               | 53,658            | 138,690            | 4,893                     | 4,675            | 67,521                               |
| Michigan.....                                   | 29             | 6                                  | 819            | 3,753             | 637                | 1,172             | 2,350           | 6,705                                | 6,930             | 13,652             | 119                       | 632              | 4,021                                |
| Wisconsin.....                                  | 19             | 5                                  | 483            | 2,160             | 337                | 652               | 1,228           | 8,170                                | 1,216             | 9,278              | 231                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West North Central.                             | 56             | 13                                 | 1,353          | 6,294             | 917                | 1,820             | 3,620           | 11,038                               | 10,516            | 21,719             | 421                       | 1,287            | 9,467                                |
| Minnesota.....                                  | 18             | 5                                  | 600            | 3,152             | 341                | 710               | 1,578           | 5,433                                | 5,139             | 10,850             | 243                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Missouri.....                                   | 19             | 6                                  | 620            | 2,520             | 482                | 923               | 1,684           | 4,445                                | 4,728             | 9,075              | 140                       | 636              | 3,784                                |
| South.....                                      | 134            | 17                                 | 3,436          | 13,125            | 2,820              | 5,670             | 9,442           | 27,738                               | 25,369            | 52,797             | 1,619                     | 2,740            | 24,716                               |
| Louisiana.....                                  | 6              | 2                                  | 212            | 734               | 151                | 336               | 515             | 1,508                                | 1,166             | 2,408              | 129                       | 969              | 8,999                                |
| Mountain.....                                   | 19             | 4                                  | 253            | 1,244             | 163                | 327               | 671             | 2,055                                | 1,767             | 3,770              | 76                        | 2,740            | 24,716                               |
| Pacific.....                                    | 104            | 19                                 | 1,818          | 10,725            | 1,302              | 2,308             | 6,146           | 20,088                               | 11,902            | 31,106             | 925                       | 969              | 8,999                                |
| California.....                                 | 93             | 19                                 | 1,769          | 10,489            | 1,259              | 2,237             | 5,939           | 19,572                               | 11,624            | 30,313             | 910                       | 969              | 8,999                                |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                 | 1963              |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  | 1958                      |   |
|--|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|---|--------------------------------|---------------------------------|--|---------------------------|---|
|  | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted<br>(\$1,000) | Cost of materials<br>(\$1,000) | Value of shipments<br>(\$1,000) | Capital expenditures, new<br>(\$1,000) | All employees<br>(number) | Value added by manufacture, adjusted<br>(\$1,000) |
|  | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                |                                 |  |                           |   |
| INDUSTRY 3843.—DENTAL EQUIPMENT AND SUPPLIES |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                   | 316               | 66                                    | 8,008             | 46,080               | 5,751              | 11,211               | 27,144             | 95,876  | 52,767                         | 147,805                         | 2,735                                  | 7,242                     | 71,574  |
| New England.....                             | 16                | 4                                     | 667               | 3,532                | 470                | 905                  | 2,030              | 5,267   | 4,908                          | 10,124                          | 199                                    | 551                       | 4,429   |
| Middle Atlantic....                          | 101               | 27                                    | 3,892             | 22,611               | 2,936              | 5,714                | 14,245             | 51,169  | 25,492                         | 76,439                          | 1,739                                  | 4,077                     | 43,084  |
| New York.....                                | 63                | 13                                    | 2,093             | 14,264               | 1,438              | 2,915                | 8,316              | 29,571  | 19,907                         | 49,436                          | 1,075                                  | 2,317                     | 26,251  |
| East North Central.                          | 67                | 15                                    | 1,613             | 9,347                | 1,070              | 2,130                | 5,345              | 18,995  | 9,612                          | 28,382                          | 252                                    | 1,514                     | 13,031  |
| Ohio.....                                    | 17                | 5                                     | 577               | 3,058                | 388                | 756                  | 1,871              | 6,244   | 2,816                          | 8,879                           | 70                                     | 596                       | 4,724   |
| Illinois.....                                | 32                | 7                                     | 724               | 4,305                | 455                | 892                  | 2,287              | 8,531   | 4,869                          | 13,302                          | 42                                     | 698                       | 6,204   |
| West North Central.                          | 12                | 3                                     | 131               | 1,033                | 85                 | 168                  | 529                | 1,460   | 1,456                          | 2,928                           | 13                                     | 102                       | 964   |
| South.....                                   | 33                | 7                                     | 669               | 3,660                | 429                | 809                  | 1,518              | 7,685   | 4,662                          | 12,469                          | 193                                    | 530                       | 4,948   |
| Mountain.....                                | 17                | 4                                     | 382               | 2,123                | 284                | 553                  | 1,267              | 3,707   | 2,408                          | 5,620                           | 131                                    | 188                       | 1,990   |
| Colorado.....                                | 8                 | 3                                     | 336               | 1,884                | 245                | 479                  | 1,065              | 3,305   | 2,103                          | 4,888                           | 94                                     | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Pacific.....                                 | 70                | 6                                     | 654               | 3,774                | 477                | 932                  | 2,210              | 7,593   | 4,229                          | 11,843                          | 208                                    | 280                       | 3,128   |
| California.....                              | 62                | 5                                     | 531               | 3,123                | 383                | 738                  | 1,795              | 6,236   | 3,536                          | 9,758                           | (D)                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| INDUSTRY 3851.—OPHTHALMIC GOODS              |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                   | 229               | 109                                   | 20,296            | 96,361               | 16,467             | 32,771               | 68,954             | 177,898   | 96,611                         | 272,687                         | 9,085                                  | 18,223                    | 136,696   |
| New England.....                             | 32                | 22                                    | 5,623             | 24,625               | 4,783              | 9,251                | 18,698             | 58,554  | 26,829                         | 85,020                          | 3,458                                  | 4,681                     | 41,824  |
| Rhode Island.....                            | 14                | 7                                     | 964               | 3,711                | 838                | 1,546                | 2,801              | 5,872   | 4,185                          | 10,029                          | 198                                    | 863                       | 4,519   |
| Middle Atlantic....                          | 103               | 47                                    | 9,742             | 50,674               | 7,745              | 15,608               | 35,518             | 79,601  | 39,840                         | 118,899                         | 4,025                                  | 9,872                     | 74,126  |
| New York.....                                | 74                | 34                                    | 7,679             | 40,754               | 6,095              | 12,362               | 28,646             | 61,488  | 27,645                         | 89,464                          | 3,447                                  | 8,190                     | 60,417  |
| New Jersey.....                              | 16                | 5                                     | 723               | 3,486                | 590                | 1,188                | 2,278              | 7,335   | 4,038                          | 10,716                          | 267                                    | 815                       | 7,687   |
| Pennsylvania....                             | 13                | 8                                     | 1,340             | 6,434                | 1,060              | 2,058                | 4,594              | 10,778  | 8,157                          | 18,719                          | 311                                    | 867                       | 6,022   |
| East North Central.                          | 34                | 11                                    | 1,115             | 5,700                | 848                | 1,640                | 3,947              | 10,455  | 6,101                          | 15,937                          | 495                                    | 674                       | 5,141   |
| Ohio.....                                    | 10                | 3                                     | 236               | 1,051                | 198                | 403                  | 815                | 1,548   | 1,130                          | 2,775                           | (D)                                    | 226                       | 1,078   |
| Illinois.....                                | 12                | 5                                     | 485               | 2,644                | 347                | 642                  | 1,638              | 3,902   | 3,181                          | 7,103                           | 314                                    | 180                       | 1,685   |
| West North Central.                          | 18                | 12                                    | 872               | 3,645                | 744                | 1,523                | 2,805              | 6,664   | 4,356                          | 10,927                          | 243                                    | 664                       | 3,848   |
| Missouri.....                                | 7                 | 5                                     | 469               | 1,934                | 414                | 871                  | 1,650              | 3,157   | 2,532                          | 5,643                           | 33                                     | 424                       | 2,218   |
| South Atlantic.....                          | 16                | 9                                     | 2,357             | 9,254                | 1,865              | 3,788                | 6,159              | 17,502  | 16,145                         | 33,338                          | 709                                    | 1,823                     | 8,616   |
| Florida.....                                 | 7                 | 4                                     | 618               | 2,787                | 381                | 763                  | 1,373              | 5,901   | 8,437                          | 14,027                          | (D)                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Mountain.....                                | 3                 | -                                     | 14                | 52                   | 12                 | 24                   | 39                 | 67  | 42                             | 109                             | 4                                      | 194                       | 1,250   |
| Pacific.....                                 | 10                | 4                                     | 232               | 1,101                | 192                | 362                  | 872                | 2,007   | 1,367                          | 3,475                           | 46                                     | 315                       | 1,891   |
| All other divisions                          | 13                | 4                                     | 341               | 1,310                | 278                | 575                  | 916                | 3,048   | 1,931                          | 4,982                           | 105                                    | 315                       | 1,891   |

Standard Note: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. Revised.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3811, Scientific Instruments: New England—Maine, 1 (20-99); New Hampshire, 1 (1-19); Vermont, 3 (20-99); Rhode Island, 5 (110); East North Central—Indiana, 8 (20-99); Wisconsin, 7 (1,809); West North Central—Minnesota, 4 (361); Iowa, 3 (1,077); Missouri, 11 (145); South Dakota, 1 (1-19); Nebraska, 2 (20-99); Kansas, 3 (222); South Atlantic—Delaware, 2 (20-99); District of Columbia, 1 (1-19); Virginia, 10 (523); West Virginia, 3 (148); North Carolina, 5 (1,041); Georgia, 1 (20-99); East South Central—Kentucky, 1 (1-19); Tennessee, 4 (114); Alabama, 1 (1-19); Mississippi, 2 (20-99); West South Central—Louisiana, 2 (100-249); Oklahoma, 4 (20-99); Mountain—Idaho, 1 (1-19); Wyoming, 2 (20-99); Colorado, 6 (168); Arizona, 5 (1,403); Pacific—Washington, 1 (20-99); Oregon, 3 (100-249).

SIC 3821, Mechanical Measuring Devices: New England—Maine, 1 (1-19); New Hampshire, 5 (100-249); Vermont, 3 (500-999); Massachusetts, 35 (7,855); Rhode Island, 4 (500-999); Connecticut, 31 (5,000-9,999); Middle Atlantic—New York, 102 (5,000-9,999); New Jersey, 53 (2,565); East North Central—Indiana, 15 (500-999); Michigan, 38 (5,696); Wisconsin, 15 (500-999); West North Central—Minnesota, 8 (20-99); Iowa, 8 (500-999); Nebraska, 1 (100-249); Kansas, 1 (1-19); South Atlantic—Delaware, 1 (1-19); District of Columbia, 1 (1-19); Virginia, 2 (20-99); West Virginia, 1 (20-99); North Carolina, 3 (20-99); South Carolina, 1 (1-19); Georgia, 1 (250-499); Florida, 10 (207); East South Central—Kentucky, 2 (100-249); Tennessee, 5 (20-99); Alabama, 1 (1-19); Mississippi, 1 (1-19); West South Central—Arkansas, 3 (20-99); Mountain—Montana, 1 (20-99); Wyoming, 1 (1-19); Colorado, 5 (20-99); New Mexico, 2 (100-249); Arizona, 3 (1-19); Utah, 1 (1-19); Pacific—Washington, 4 (20-99); Oregon, 4 (100-249); California, 98 (4,492).

SIC 3822, Automatic Temperature Controls: New England—New Hampshire, 1 (20-99); Massachusetts, 5 (2,083); Rhode Island, 1 (20-99); Connecticut, 3 (250-499); Middle Atlantic—New Jersey, 6 (551); Pennsylvania, 5 (1,830); East North Central—Indiana, 3 (1,000-2,499); Michigan, 6 (851); Wisconsin, 4 (1,000-2,499); West North Central—Minnesota, 2 (5,000-9,999); Iowa, 2 (1-19); Missouri, 2 (1,000-2,499); Kansas, 1 (1-19); South Atlantic—Maryland, 2 (200-249); Virginia, 1 (1-19); Florida, 3 (164); East South Central—Kentucky, 1 (250-499); Tennessee, 1 (1,000-2,499); West South Central—Texas, 3 (1-19); Mountain—New Mexico, 1 (1-19); Utah, 1 (1-19); Pacific—Washington, 1 (1-19); Oregon, 1 (20-99); California, 14 (4,612).

Footnotes continued on next page

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

## Footnotes for table 2-38A—Continued

- SIC 3831, Optical Instruments and Lenses: New England—New Hampshire, 1 (250-499); Massachusetts, 25 (1,249); Rhode Island, 2 (1-19); Connecticut, 6 (1,927); East North Central—Ohio, 8 (20-99); Indiana, 2 (1-19); Michigan, 7 (250-499); Wisconsin, 4 (20-99); West North Central—Minnesota, 7 (20-99); Nebraska, 1 (1-19); South Atlantic—Maryland, 5 (20-99); West Virginia, 4 (278); Florida, 4 (145); East South Central—Mississippi, 1 (1-19); West South Central—Arkansas, 1 (1-19); Oklahoma, 1 (1-19); Texas, 5 (245); Mountain—Colorado, 3 (1-19); Arizona, 2 (1-19); Pacific—Washington, 3 (20-99); Oregon, 4 (1-19).
- SIC 3841, Surgical and Medical Instruments: New England—New Hampshire, 2 (20-99); Vermont, 1 (1-19); Rhode Island, 2 (20-99); Connecticut, 9 (1,223); Middle Atlantic—New Jersey, 23 (2,210); Pennsylvania, 15 (600); East North Central—Michigan, 8 (281); Wisconsin, 3 (286); West North Central—Minnesota, 6 (20-99); Iowa, 2 (1-19); Missouri, 11 (685); Nebraska, 4 (1,002); South Atlantic—Maryland, 2 (1-19); District of Columbia, 1 (1-19); West Virginia, 1 (1-19); North Carolina, 2 (1-19); South Carolina, 2 (1-19); Georgia, 2 (20-99); Florida, 6 (588); East South Central—Tennessee, 3 (250-499); Mississippi, 2 (20-99); West South Central—Arkansas, 1 (1-19); Oklahoma, 1 (1-19); Texas, 6 (20-99); Mountain—Colorado, 6 (20-99); Utah, 1 (1-19); Pacific—Washington, 5 (1-19).
- SIC 3842, Surgical Appliances and Supplies: New England—New Hampshire, 6 (20-99); Vermont, 1 (1-19); Massachusetts, 36 (1,000-2,499); Rhode Island, 8 (500-999); Middle Atlantic—New Jersey, 29 (4,746); Pennsylvania, 44 (3,360); East North Central—Indiana, 6 (20-99); West North Central—Iowa, 6 (20-99); North Dakota, 1 (1-19); South Dakota, 1 (1-19); Nebraska, 5 (20-99); Kansas, 6 (20-99); South Atlantic—Maryland, 8 (20-99); District of Columbia, 3 (20-99); Virginia, 3 (1-19); West Virginia, 7 (250-499); North Carolina, 13 (711); South Carolina, 5 (1,000-2,499); Georgia, 7 (20-99); Florida, 27 (156); East South Central—Kentucky, 9 (100-249); Tennessee, 12 (182); Alabama, 5 (20-99); Mississippi, 2 (1-19); West South Central—Arkansas, 1 (1-19); Oklahoma, 3 (1-19); Texas, 23 (424); Mountain—Colorado, 10 (100-249); New Mexico, 1 (1-19); Arizona, 2 (20-99); Utah, 6 (20-99); Pacific—Washington, 5 (1-19); Oregon, 5 (20-99); Alaska, 1 (1-19).
- SIC 3843, Dental Equipment and Supplies: New England—Maine, 1 (1-19); Massachusetts, 11 (100-249); Connecticut, 4 (419); Middle Atlantic—New Jersey, 11 (159); Pennsylvania, 27 (1,640); East North Central—Indiana, 7 (20-99); Michigan, 7 (212); Wisconsin, 4 (1-19); West North Central—Minnesota, 2 (1-19); Iowa, 3 (20-99); Missouri, 6 (20-99); South Dakota, 1 (1-10); South Atlantic—Delaware, 2 (250-499); Maryland, 5 (101); District of Columbia, 2 (1-19); Virginia, 3 (117); North Carolina, 1 (100-249); Florida, 3 (1-19); East South Central—Kentucky, 2 (20-99); Tennessee, 2 (1-19); Alabama, 2 (1-19); West South Central—Oklahoma, 1 (1-19); Texas, 10 (20-99); Mountain—Montana, 4 (20-99); Idaho, 1 (1-19); Arizona, 2 (1-19); Utah, 2 (1-19); Pacific—Washington, 4 (1-19); Oregon, 4 (100-249).
- SIC 3851, Ophthalmic Goods: New England—Maine, 1 (1-19); Vermont, 1 (250-499); Massachusetts, 13 (3,988); Connecticut, 3 (250-499); East North Central—Indiana, 5 (250-499); Michigan, 5 (20-99); Wisconsin, 2 (20-99); West North Central—Minnesota, 8 (250-499); Iowa, 2 (20-99); Nebraska, 1 (1-19); South Atlantic—Maryland, 2 (250-499); Virginia, 2 (500-999); North Carolina, 3 (1-19); South Carolina, 1 (250-499); Georgia, 1 (20-99); East South Central—Kentucky, 3 (20-99); Tennessee, 2 (1-19); West South Central—Louisiana, 1 (1-19); Oklahoma, 1 (1-19); Texas, 6 (251); Mountain—Colorado, 1 (1-19); Pacific—Washington, 1 (20-99); California, 9 (100-249).
- <sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.



TABLE 3. Detailed Statistics: 1963

| Item   | Scientific instruments (SIC 3811) | Mechanical measuring devices (SIC 3821) | Automatic temperature controls (SIC 3822) | Optical instruments and lenses (SIC 3831) | Surgical and medical instruments (SIC 3841) | Surgical appliances and supplies (SIC 3842) | Dental equipment and supplies (SIC 3843) | Ophthalmic goods (SIC 3851) |
|--|-----------------------------------|---|---|---|---|---|--|-----------------------------|
| Primary product specialization ratio <sup>1</sup> .....        | .84                               | .90                                     | .82                                       | .90                                       | .88   | .80   | .94                                      | .86                         |
| Coverage ratio <sup>2</sup> .....                              | .56                               | .83                                     | .95                                       | .61                                       | .74   | .90   | .92                                      | .92                         |
| Establishments, total.....number..                             | 594                               | 670                                     | 104                                       | 280                                       | 294   | 704   | 316                                      | 229                         |
| With 1 to 19 employees.....do....                              | 381                               | 412                                     | 50  | 201                                       | 177   | 542   | 250                                      | 120                         |
| With 20 to 99 employees.....do....                             | 154                               | 155                                     | 21  | 51  | 82  | 108   | 47                                       | 75                          |
| With 100 employees or more.....do....                          | 59                                | 103                                     | 33  | 28  | 35  | 54  | 19                                       | 34                          |
| Proprietors and working partners.....do....                    | 188                               | 207                                     | 16  | 112                                       | 79  | 315   | 152                                      | 70                          |
| All employees (average for the year).....do....                | 33,084                            | 62,353                                  | 31,685                                    | 11,924                                    | 15,145                                      | 28,267                                      | 8,008                                    | 20,296                      |
| Payroll (all employees), total for year.....\$1,000..          | 208,171                           | 388,874                                 | 192,301                                   | 79,131                                    | 83,332                                      | 161,800                                     | 46,080                                   | 96,361                      |
| Production workers:  |                                   |   |   |   |   |   |  |                             |
| Average for the year.....number..                              | 22,184                            | 40,383                                  | 22,299                                    | 8,306                                     | 11,538                                      | 18,987                                      | 5,751                                    | 16,467                      |
| March.....do....   | 22,358                            | 40,338                                  | 22,109                                    | 8,196                                     | 11,570                                      | 18,364                                      | 5,724                                    | 16,415                      |
| May.....do....   | 22,041                            | 40,367                                  | 22,335                                    | 8,166                                     | 11,626                                      | 18,987                                      | 5,575                                    | 16,705                      |
| August.....do....  | 22,291                            | 40,459                                  | 22,352                                    | 8,345                                     | 11,635                                      | 19,010                                      | 5,610                                    | 16,067                      |
| November.....do....  | 22,046                            | 40,315                                  | 22,406                                    | 8,509                                     | 11,348                                      | 19,588                                      | 5,888                                    | 16,689                      |
| Man-hours.....1,000..  | 44,584                            | 81,510                                  | 45,459                                    | 16,728                                    | 22,916                                      | 37,904                                      | 11,211                                   | 32,771                      |
| January-March.....do....                                       | 11,054                            | 20,486                                  | 11,233                                    | 4,196                                     | 5,753                                       | 9,194                                       | 2,826                                    | 8,030                       |
| April-June.....do....  | 11,194                            | 20,474                                  | 11,426                                    | 4,174                                     | 5,806                                       | 9,699                                       | 2,836                                    | 8,470                       |
| July-September.....do....                                      | 10,946                            | 19,467                                  | 11,206                                    | 3,958                                     | 5,532                                       | 9,292                                       | 2,697                                    | 7,566                       |
| October-December.....do....                                    | 11,390                            | 21,083                                  | 11,594                                    | 4,400                                     | 5,825                                       | 9,719                                       | 2,852                                    | 8,705                       |
| Wages.....\$1,000..  | 119,836                           | 222,826                                 | 122,154                                   | 47,149                                    | 52,520                                      | 85,790                                      | 27,144                                   | 68,954                      |
| Cost of materials, etc., total.....do....                      | 200,034                           | 415,855                                 | 158,091                                   | 66,557                                    | 126,856                                     | 230,054                                     | 52,767                                   | 96,611                      |
| Materials, parts, containers, and supplies consumed.....do.... | 166,172                           | 358,337                                 | 141,812                                   | 53,059                                    | 91,949                                      | 175,762                                     | 45,522                                   | 87,247                      |
| Cost of resales.....do....                                     | 21,195                            | 34,511                                  | 10,181                                    | 5,050                                     | 28,755                                      | 35,759                                      | 5,232                                    | 4,564                       |
| Fuels consumed.....do....                                      | 1,048                             | 2,155                                   | 954                                       | 385                                       | 532   | 1,091                                       | 383                                      | 1,071                       |
| Electric energy:   |                                   |   |   |   |   |   |  |                             |
| Purchased:   |                                   |   |   |   |   |   |  |                             |
| Quantity.....million kw.-hrs..                                 | 177                               | 355                                     | 177                                       | 53  | 62  | 158   | 29                                       | 141                         |
| Cost.....\$1,000..   | 2,747                             | 5,224                                   | 2,375                                     | 1,182                                     | 1,100                                       | 1,944                                       | 559                                      | 1,793                       |
| Generated less sold.....million kw.-hrs..                      | -                                 | (D)                                     | -   | (D)                                       | -   | -   | (D)                                      | (D)                         |
| Contract work.....\$1,000..                                    | 8,872                             | 15,628                                  | 2,769                                     | 6,881                                     | 4,520                                       | 15,498                                      | 1,071                                    | 1,936                       |
| Value of shipments (including resales), total.....do....       | 553,920                           | 1,143,416                               | 527,358                                   | 196,022                                   | 284,014                                     | 596,666                                     | 147,805                                  | 272,687                     |
| Value of resales.....do....                                    | 32,928                            | 47,579                                  | 15,221                                    | 8,700                                     | 34,184                                      | 62,226                                      | 8,445                                    | 6,235                       |
| Value added by manufacture, adjusted.....do....                | 358,588                           | 732,529                                 | 379,091                                   | 131,917                                   | 168,556                                     | 370,273                                     | 95,876                                   | 177,898                     |
| Manufacturers' inventories:                                    |                                   |   |   |   |   |   |  |                             |
| Beginning of year, total.....do....                            | 115,571                           | 250,064                                 | 98,747                                    | 40,151                                    | 47,279                                      | 95,290                                      | 32,824                                   | 70,683                      |
| Finished products.....do....                                   | 21,829                            | 54,203                                  | 30,621                                    | 10,337                                    | 16,842                                      | 30,891                                      | 9,719                                    | 32,413                      |
| Work-in-process.....do....                                     | 64,545                            | 115,649                                 | 49,048                                    | 24,477                                    | 13,901                                      | 31,887                                      | 16,057                                   | 25,592                      |
| Materials, supplies, fuel, etc.....do....                      | 29,197                            | 80,212                                  | 19,078                                    | 5,337                                     | 16,536                                      | 32,512                                      | 7,048                                    | 12,678                      |
| End of year, total.....do....                                  | 122,106                           | 256,524                                 | 110,772                                   | 42,960                                    | 54,096                                      | 100,187                                     | 33,671                                   | 72,663                      |
| Finished products.....do....                                   | 22,455                            | 48,565                                  | 39,048                                    | 10,676                                    | 22,526                                      | 31,885                                      | 11,141                                   | 33,195                      |
| Work-in-process.....do....                                     | 69,721                            | 126,160                                 | 50,445                                    | 26,590                                    | 19,615                                      | 34,554                                      | 15,473                                   | 26,632                      |
| Materials, supplies, fuel, etc.....do....                      | 29,930                            | 81,799                                  | 21,279                                    | 5,694                                     | 11,955                                      | 33,748                                      | 7,057                                    | 12,836                      |
| Expenditures for plant and equipment, total.....do....         | 18,825                            | 31,840                                  | 11,185                                    | 6,861                                     | 10,713                                      | 18,364                                      | 2,802                                    | 9,352                       |
| New, total.....do....  | 16,244                            | 30,914                                  | 10,523                                    | 6,163                                     | 10,514                                      | 17,831                                      | 2,735                                    | 9,085                       |
| New structures and additions to plant.....do....               | 6,219                             | 11,914                                  | 1,448                                     | 2,140                                     | 3,253                                       | 6,375                                       | 632                                      | 851                         |
| New machinery and equipment.....do....                         | 10,025                            | 19,000                                  | 9,075                                     | 4,023                                     | 7,261                                       | 11,456                                      | 2,103                                    | 8,234                       |
| Used plant and equipment.....do....                            | 2,581                             | 926                                     | 662                                       | 698                                       | 199   | 533   | 67                                       | 267                         |
| Selected operating ratios:                                     |                                   |   |   |   |   |   |  |                             |
| Payroll/Total employment.....                                  | 6,292                             | 6,237                                   | 6,050                                     | 6,636                                     | 5,502                                       | 5,724                                       | 5,754                                    | 4,748                       |
| Production workers/Total employment.....                       | .67                               | .65                                     | .71                                       | .70                                       | .76   | .67   | .72                                      | .81                         |
| Man-hours/Production workers.....                              | 2,010                             | 2,018                                   | 2,008                                     | 2,014                                     | 1,986                                       | 1,996                                       | 1,949                                    | 1,990                       |
| Production worker wages/Man-hours.....                         | 2.69                              | 2.73                                    | 2.69                                      | 2.82                                      | 2.29  | 2.26  | 2.42                                     | 2.10                        |
| Cost of materials and payrolls/Total value of shipments.....   | .74                               | .70                                     | .66                                       | .74                                       | .74   | .66   | .67                                      | .74                         |
| Cost of materials/Total value of shipments.....                | .36                               | .36                                     | .30                                       | .34                                       | .45   | .39   | .36                                      | .35                         |
| Adjusted value added/Total employment.....                     | 10,839                            | 11,748                                  | 11,964                                    | 11,063                                    | 11,129                                      | 13,088                                      | 11,973                                   | 8,675                       |
| Salaries and wages/Adjusted value added.....                   | .58                               | .53                                     | .51                                       | .60                                       | .49   | .44   | .48                                      | .54                         |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3811.—SCIENTIFIC INSTRUMENTS           |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 594                   | 189                                | 101              | 91                 | 101                | 53                 | 35                   | 15                   | 3                    | 4                        | 2                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 33,084                | 350                                | 671              | 1,226              | 3,312              | 3,632              | 5,536                | 5,482                | 1,984                | 10,891                   | (D)                      |
| Payroll.....\$1,000..                           | 208,171               | 1,719                              | 3,400            | 6,612              | 19,942             | 20,703             | 33,910               | 32,423               | 11,056               | 78,406                   | (D)                      |
| Value added, adjusted.....do....                | 358,588               | 3,832                              | 6,793            | 12,385             | 32,519             | 37,559             | 60,797               | 55,946               | 22,839               | 125,918                  | (D)                      |
| Value of shipments.....do....                   | 553,920               | 5,857                              | 10,637           | 19,310             | 53,260             | 60,639             | 102,367              | 94,345               | 35,138               | 172,367                  | (D)                      |
| Capital expenditures, new...do....              | 16,244                | 187                                | 262              | 337                | 1,317              | 1,027              | 2,677                | 2,899                | 909                  | 6,629                    | (D)                      |
| INDUSTRY 3821.—MECHANICAL MEASURING DEVICES     |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 670                   | 236                                | 84               | 92                 | 99                 | 56                 | 52                   | 24                   | 12                   | 12                       | 3                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 62,353                | 437                                | 548              | 1,243              | 3,148              | 3,717              | 8,729                | 8,424                | 8,007                | 19,244                   | 8,856                    |
| Payroll.....\$1,000..                           | 388,874               | 2,189                              | 3,017            | 7,016              | 18,260             | 21,447             | 54,021               | 48,077               | 46,006               | 130,529                  | 58,312                   |
| Value added, adjusted.....do....                | 732,529               | 4,393                              | 5,445            | 16,344             | 33,828             | 38,813             | 111,833              | 117,339              | 78,063               | 225,722                  | 100,749                  |
| Value of shipments.....do....                   | 1,143,416             | 7,298                              | 8,757            | 24,278             | 52,582             | 66,373             | 171,663              | 186,460              | 136,270              | 313,550                  | 176,185                  |
| Capital expenditures, new...do....              | 30,914                | 1,267                              | 223              | 486                | 1,390              | 1,684              | 4,069                | 3,034                | 3,518                | 10,039                   | 5,204                    |
| INDUSTRY 3822.—AUTOMATIC TEMPERATURE CONTROLS   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 104                   | 23                                 | 18               | 9                  | 13                 | 8                  | 5                    | 7                    | 11                   | 8                        | 2                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 31,685                | 30                                 | 125              | 113                | 376                | 1,522              | (D)                  | 2,912                | 7,472                | 19,135                   | (D)                      |
| Payroll.....\$1,000..                           | 192,301               | 197                                | 685              | 622                | 2,276              | 6,864              | (D)                  | 25,198               | 45,204               | 111,255                  | (D)                      |
| Value added, adjusted.....do....                | 379,091               | 445                                | 1,308            | 894                | 4,560              | 18,408             | (D)                  | 30,153               | 94,878               | 228,445                  | (D)                      |
| Value of shipments.....do....                   | 527,358               | 692                                | 2,401            | 1,347              | 7,222              | 30,455             | (D)                  | 43,205               | 134,181              | 307,855                  | (D)                      |
| Capital expenditures, new...do....              | 10,523                | 20                                 | 93               | (D)                | 105                | 476                | (D)                  | 1,122                | 2,561                | 6,146                    | (D)                      |
| INDUSTRY 3831.—OPTICAL INSTRUMENTS AND LENSES   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 280                   | 103                                | 51               | 47                 | 38                 | 13                 | 19                   | 6                    | 1                    | 2                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 11,924                | 194                                | 339              | 655                | 1,232              | 918                | 3,077                | 5,509                | (D)                  | (D)                      | -                        |
| Payroll.....\$1,000..                           | 79,131                | 921                                | 2,048            | 3,427              | 7,492              | 6,009              | 19,383               | 39,851               | (D)                  | (D)                      | -                        |
| Value added, adjusted.....do....                | 131,917               | 2,087                              | 3,822            | 6,043              | 12,997             | 9,494              | 34,673               | 62,801               | (D)                  | (D)                      | -                        |
| Value of shipments.....do....                   | 196,022               | 3,005                              | 6,139            | 8,576              | 18,875             | 12,938             | 51,214               | 95,275               | (D)                  | (D)                      | -                        |
| Capital expenditures, new...do....              | 6,163                 | 143                                | 168              | 275                | 333                | 685                | 1,680                | 2,879                | (D)                  | (D)                      | -                        |
| INDUSTRY 3841.—SURGICAL AND MEDICAL INSTRUMENTS |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 294                   | 93                                 | 48               | 36                 | 51                 | 31                 | 22                   | 7                    | 5                    | 1                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 15,145                | 140                                | 335              | 484                | 1,637              | 2,097              | 3,493                | 2,276                | 4,683                | (D)                      | -                        |
| Payroll.....\$1,000..                           | 83,332                | 779                                | 1,741            | 2,570              | 8,102              | 11,181             | 17,237               | 13,831               | 27,891               | (D)                      | -                        |
| Value added, adjusted.....do....                | 168,556               | 1,971                              | 5,725            | 4,103              | 14,191             | 20,690             | 39,108               | 25,899               | 56,869               | (D)                      | -                        |
| Value of shipments.....do....                   | 284,014               | 3,167                              | 8,177            | 6,469              | 25,113             | 31,554             | 68,996               | 37,551               | 102,987              | (D)                      | -                        |
| Capital expenditures, new...do....              | 10,514                | 71                                 | 99               | 173                | 368                | 815                | 3,396                | 1,252                | 4,340                | (D)                      | -                        |
| INDUSTRY 3842.—SURGICAL APPLIANCES AND SUPPLIES |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 704                   | 300                                | 148              | 94                 | 65                 | 43                 | 27                   | 17                   | 6                    | 3                        | 1                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 28,267                | 601                                | 1,000            | 1,253              | 1,885              | 2,909              | 4,474                | 5,691                | 10,454               | (D)                      | (D)                      |
| Payroll.....\$1,000..                           | 161,800               | 2,862                              | 4,994            | 5,880              | 8,254              | 14,433             | 20,885               | 26,964               | 77,528               | (D)                      | (D)                      |
| Value added, adjusted.....do....                | 370,273               | 6,112                              | 9,234            | 11,340             | 16,856             | 26,676             | 39,879               | 67,810               | 192,366              | (D)                      | (D)                      |
| Value of shipments.....do....                   | 596,666               | 9,505                              | 14,318           | 18,030             | 27,193             | 49,484             | 67,374               | 117,729              | 293,033              | (D)                      | (D)                      |
| Capital expenditures, new...do....              | 17,831                | 298                                | 303              | 311                | 482                | 1,160              | 1,160                | 2,786                | 11,331               | (D)                      | (D)                      |
| INDUSTRY 3843.—DENTAL EQUIPMENT AND SUPPLIES    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 316                   | 172                                | 48               | 30                 | 29                 | 18                 | 13                   | 3                    | 3                    | -                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 8,008                 | 278                                | 312              | 402                | 834                | 1,349              | 2,017                | 815                  | 2,001                | -                        | -                        |
| Payroll.....\$1,000..                           | 46,080                | 1,345                              | 1,815            | 2,446              | 4,890              | 7,621              | 11,637               | 4,523                | 11,803               | -                        | -                        |
| Value added, adjusted.....do....                | 95,876                | 3,125                              | 3,270            | 4,205              | 9,151              | 15,861             | 22,985               | 8,497                | 28,782               | -                        | -                        |
| Value of shipments.....do....                   | 147,805               | 5,440                              | 5,857            | 8,685              | 13,611             | 29,827             | 31,169               | 15,381               | 37,835               | -                        | -                        |
| Capital expenditures, new...do....              | 2,735                 | 76                                 | 46               | 66                 | 164                | 745                | 448                  | 221                  | 969                  | -                        | -                        |

See footnotes at end of table.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963—Continued

| Item                               | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|------------------------------------|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|                                    |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3851.—OPHTHALMIC GOODS    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..        | 229                   | 56                                 | 34               | 30                 | 34                 | 41                 | 16                   | 15                   | 1                    | -                        | 2                        |
| All employees:                     |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                   | 20,296                | 117                                | 230              | 422                | 1,047              | 2,852              | 2,541                | <u>13,087</u>        | (D)                  | -                        | (D)                      |
| Payroll.....\$1,000..              | 96,361                | 514                                | 1,028            | 1,818              | 4,946              | 12,321             | 10,979               | <u>64,755</u>        | (D)                  | -                        | (D)                      |
| Value added, adjusted.....do....   | 177,898               | 929                                | 1,851            | 3,306              | 8,683              | 22,146             | 20,585               | <u>120,393</u>       | (D)                  | -                        | (D)                      |
| Value of shipments.....do....      | 272,687               | 1,596                              | 2,938            | 5,725              | 14,837             | 37,613             | 32,613               | <u>177,365</u>       | (D)                  | -                        | (D)                      |
| Capital expenditures, new...do.... | 9,085                 | 38                                 | 58               | 96                 | 216                | 782                | 825                  | <u>7,070</u>         | (D)                  | -                        | (D)                      |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                 | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |  | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3811      | Scientific instruments.....1963..        | 553,920            | 405,944          | 79,972             | 68,004                 | 84                                   | 722,105                            | 405,944               | 316,161                  | 56                            |
|           | 1958..                                   | 752,542            | 509,632          | 146,608            | 96,302                 | 78                                   | 758,639                            | 509,632               | 249,007                  | 67                            |
| 3821      | Mechanical measuring devices.....1963..  | 1,143,416          | 818,673          | 207,267            | 117,476                | 90                                   | 983,840                            | 818,673               | 165,167                  | 83                            |
|           | 1958..                                   | 726,823            | 578,728          | 92,618             | 55,477                 | 86                                   | 760,780                            | 578,728               | 182,052                  | 76                            |
| 3822      | Automatic temperature controls....1963.. | 527,358            | 409,472          | 90,573             | 27,313                 | 82                                   | 431,612                            | 409,472               | 22,140                   | 95                            |
|           | 1958..                                   | 359,430            | 301,780          | 40,609             | 17,041                 | 88                                   | 319,855                            | 301,780               | 18,075                   | 94                            |
| 3831      | Optical instruments and lenses....1963.. | 196,022            | 164,965          | 17,446             | 13,611                 | 90                                   | 269,528                            | 164,965               | 104,563                  | 61                            |
|           | 1958..                                   | 102,966            | 75,958           | 8,243              | 18,765                 | 90                                   | 115,481                            | 75,958                | 39,523                   | 66                            |
| 3841      | Surgical and medical instruments..1963.. | 284,014            | 214,934          | 29,129             | 39,951                 | 88                                   | 290,621                            | 214,934               | 75,687                   | 74                            |
|           | 1958..                                   | 130,477            | 98,707           | 20,930             | 10,840                 | 83                                   | 130,570                            | 98,707                | 31,863                   | 76                            |
| 3842      | Surgical appliances and supplies..1963.. | 596,666            | 414,545          | 105,379            | 76,742                 | 80                                   | 461,819                            | 414,545               | 47,274                   | 90                            |
|           | 1958..                                   | 461,846            | 326,400          | 63,908             | 71,538                 | 84                                   | 362,029                            | 326,400               | 35,629                   | 90                            |
| 3843      | Dental equipment and supplies....1963..  | 147,805            | 127,693          | 8,801              | 11,311                 | 94                                   | 139,532                            | 127,693               | 11,839                   | 92                            |
|           | 1958..                                   | 115,667            | 101,848          | 5,139              | 8,680                  | 95                                   | 110,680                            | 101,848               | 8,832                    | 92                            |
| 3851      | Ophthalmic goods.....1963..              | 272,687            | 225,702          | 37,421             | 9,564                  | 86                                   | 244,143                            | 225,702               | 18,441                   | 92                            |
|           | 1958..                                   | 194,446            | 164,658          | 24,137             | 5,651                  | 87                                   | 167,951                            | 164,658               | 3,293                    | 98                            |

Note: See Introduction for an explanation of terms used.

Standard Note: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. Revised.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars except for ranges (shown in parentheses) which are expressed in millions of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous

receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                             | Class of products and miscellaneous receipts   | All industries | Scientific instruments (SIC 3811)       | Other industries |
|--|--|----------------|---|------------------|
| <b>SCIENTIFIC INSTRUMENTS INDUSTRY</b>       |  |                |   |                  |
|  | Total shipments and receipts of the industry.....  | (X)            | 553,920                                 | (X)              |
|  | Primary products.....  | 722,105        | 405,944                                 | 316,161          |
| 38111  | Aircraft, flight, nautical, and navigational instruments and automatic pilots.....           | 410,591        | 184,309                                 | 226,282          |
| 38112  | Laboratory and scientific instruments.....   | 195,138        | 115,752                                 | 79,386           |
| 38113  | Surveying and drafting instruments and laboratory furniture.....                             | 104,045        | 94,487                                  | 9,558            |
| 38110  | Scientific instruments, n.s.k.....   | 12,331         | 11,396                                  | 935              |
|  | Secondary products.....  | (X)            | 79,972                                  | (X)              |
| 25223  | Cabinets and cases.....  | (X)            | 2,401                                   | (X)              |
| 38211  | Aircraft engine instruments, except flight.....  | (X)            | 6,385                                   | (X)              |
| 38213  | Industrial process instruments.....  | (X)            | 6,452                                   | (X)              |
| 38311  | Optical instruments and lenses, except sighting and fire-control equipment.....              | (X)            | 2,024                                   | (X)              |
|  | Other secondary products.....  | (X)            | 62,710                                  | (X)              |
| 25224  | Other metal office furniture, including tables, stands, etc.....                             | (X)            | (2-5)                                   | (X)              |
| 25410  | Wood partitions, shelving, lockers, and office and store fixtures.....                       | (X)            | (2-5)                                   | (X)              |
| 36215  | Motor generator sets and other rotating equipment.....                                       | (X)            | (2-5)                                   | (X)              |
| 36624  | Electronic navigational aids (except missile-borne and space vehicle-borne equipment).....   | (X)            | (2-5)                                   | (X)              |
| 36625  | Electronic search and detection apparatus, including radar, infrared, and sonar.....         | (X)            | (2-5)                                   | (X)              |
| 36628  | Missile-borne and space vehicle-borne navigation and guidance systems and equipment.....     | (X)            | (10-20)                                 | (X)              |
| 38312  | Sighting and fire-control equipment made from lenses, prisms, etc., produced in this plant.. | (X)            | (2-5)                                   | (X)              |
| 38410  | Surgical and medical instruments and apparatus.....  | (X)            | (2-5)                                   | (X)              |
|  | Miscellaneous receipts.....  | (X)            | 68,004                                  | (X)              |
|  | Contract work.....   | (X)            | 6,194                                   | (X)              |
|  | Resales.....   | (X)            | 32,928                                  | (X)              |
|  | Receipts for installation (or construction of products of this establishment).....           | (X)            | 2,514                                   | (X)              |
|  | Receipts for research and development work.....  | (X)            | 16,060                                  | (X)              |
|  | Receipts for repair work.....  | (X)            | 6,572                                   | (X)              |
|  | Other miscellaneous receipts.....  | (X)            | 3,736                                   | (X)              |
|  | Listing of other industries with over \$2 million shipments of each primary product class:   |                |   |                  |
| 38111  | 3611 Electric measuring instruments.....   | (X)            | (X)                                     | (2-5)            |
|  | 3621 Motors and generators.....  | (X)            | (X)                                     | 5,100            |
|  | 3662 Radio, TV communications equipment.....   | (X)            | (X)                                     | 169,612          |
|  | 3679 Electronic components, n.e.c.....   | (X)            | (X)                                     | 4,207            |
|  | 3721 Aircraft.....   | (X)            | (X)                                     | (5-10)           |
|  | 3729 Aircraft equipment, n.e.c.....  | (X)            | (X)                                     | 5,575            |
|  | 3742 Railroad and street cars.....   | (X)            | (X)                                     | (over 2)         |
|  | 3821 Mechanical measuring devices.....   | (X)            | (X)                                     | 11,726           |
|  | 3871 Watches and clocks.....   | (X)            | (X)                                     | (5-10)           |
| 38112  | 3611 Electric measuring devices.....   | (X)            | (X)                                     | 9,330            |
|  | 3662 Radio, TV communications equipment.....   | (X)            | (X)                                     | 5,755            |
|  | 3673 Electron tubes, transmitting.....   | (X)            | (X)                                     | (over 2)         |
|  | 3729 Aircraft equipment, n.e.c.....  | (X)            | (X)                                     | (over 2)         |
|  | 3821 Mechanical measuring devices.....   | (X)            | (X)                                     | 9,775            |
| 38113  | 3589 Service industry machines, n.e.c.....   | (X)            | (X)                                     | (over 2)         |
|  |  | All industries | Mechanical measuring devices (SIC 3821) | Other industries |
| <b>MECHANICAL MEASURING DEVICES INDUSTRY</b> |  |                |   |                  |
|  | Total shipments and receipts of the industry.....  | (X)            | 1,143,416                               | (X)              |
|  | Primary products.....  | 983,840        | 818,673                                 | 165,167          |
| 38211  | Aircraft engine instruments, except flight.....  | 66,383         | 41,309                                  | 25,074           |
| 38212  | Integrating meters, nonelectrical type.....  | 163,716        | 159,624                                 | 4,092            |
| 38213  | Industrial process instruments.....  | 522,385        | 451,780                                 | 70,605           |
| 38214  | Motor vehicle instruments, except electric.....  | 95,776         | 63,581                                  | 32,195           |
| 38216  | Other mechanical measuring and controlling instruments.....                                  | 117,171        | 84,407                                  | 32,764           |
| 38210  | Mechanical measuring devices, n.s.k.....   | 18,409         | 17,972                                  | 437              |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code                                 | Class of products and miscellaneous receipts   | All industries | Mechanical measuring devices (SIC 3821) | Other industries |
|--|--|----------------|---|------------------|
| MECHANICAL MEASURING DEVICES INDUSTRY--Continued |  |                |   |                  |
|  | Secondary products.....  | (X)            | 207,267                                 | (X)              |
| 34941  | Metal valves for piping systems (except plumbing and heating valves).....  | (X)            | 8,305                                   | (X)              |
| 35712  | Computing and accounting machines, including cash registers.....   | (X)            | 4,245                                   | (X)              |
| 36112  | Test equipment for testing electrical, radio, and communication circuits, and motors.....                          | (X)            | 4,932                                   | (X)              |
| 36113  | Other electrical measuring instruments.....  | (X)            | 16,991                                  | (X)              |
| 36626  | Electronic military, industrial, and commercial equipment, n.e.c.....  | (X)            | 6,916                                   | (X)              |
| 38111  | Aircraft, flight, nautical, and navigational instruments and automatic pilots.....                                 | (X)            | 11,726                                  | (X)              |
| 38112  | Laboratory and scientific instruments.....   | (X)            | 9,775                                   | (X)              |
| 38220  | Automatic temperature controls.....  | (X)            | 9,525                                   | (X)              |
| 38311  | Optical instruments and lenses, except sighting and fire-control equipment.....                                    | (X)            | 3,470                                   | (X)              |
|  | Other secondary products.....  | (X)            | 131,382                                 | (X)              |
| 34295  | Other hardware.....  | (X)            | (over 2)                                | (X)              |
| 34432  | Fabricated steel plate, including stacks and weldments.....  | (X)            | (2-5)                                   | (X)              |
| 34618  | Other stamped and pressed metal end products.....  | (X)            | (2-5)                                   | (X)              |
| 35441  | Special dies and tools, die sets, jigs, and fixtures.....  | (X)            | (2-5)                                   | (X)              |
| 35663  | Other mechanical power transmission equipment.....   | (X)            | (over 2)                                | (X)              |
| 35690  | General industrial machinery, n.e.c.....   | (X)            | (2-5)                                   | (X)              |
| 35990  | Carburetors, pistons, and other machine shop products.....   | (X)            | (20-50)                                 | (X)              |
| 36211  | Fractional horsepower motors.....  | (X)            | (over 2)                                | (X)              |
| 36795  | Other electronic components and accessories, n.e.c., including parts for electron tubes (except glass blocks)..... | (X)            | (5-10)                                  | (X)              |
| 36930  | X-ray equipment, includes X-ray tubes, and electrotherapeutic apparatus.....                                       | (X)            | (2-5)                                   | (X)              |
| 36942  | Battery charging generators.....   | (X)            | (over 2)                                | (X)              |
| 36946  | Components and parts for engine electrical equipment.....  | (X)            | (over 2)                                | (X)              |
|  | Parts and accessories for passenger cars, trucks, and busses shipped to:   |                |   |                  |
| 37175  | Motor vehicle manufactures.....  | (X)            | (over 2)                                | (X)              |
| 37176  | Other than motor vehicle manufactures.....   | (X)            | (2-5)                                   | (X)              |
| 37224  | Aircraft engine parts and accessories.....   | (X)            | (2-5)                                   | (X)              |
|  | Miscellaneous receipts.....  | (X)            | 117,476                                 | (X)              |
|  | Contract work.....   | (X)            | 4,135                                   | (X)              |
|  | Copper and copper-base alloy production scrap.....   | (X)            | 2,002                                   | (X)              |
|  | Aluminum and aluminum-base alloy production scrap.....   | (X)            | 190                                     | (X)              |
|  | All other scrap and refuse.....  | (X)            | 1,189                                   | (X)              |
|  | Installation.....  | (X)            | 24,075                                  | (X)              |
|  | Research and developmental work.....   | (X)            | 5,439                                   | (X)              |
|  | Repair work.....   | (X)            | 18,077                                  | (X)              |
|  | Resales.....   | (X)            | 47,579                                  | (X)              |
|  | Other miscellaneous receipts.....  | (X)            | 14,790                                  | (X)              |
|  | Listing of other industries with over \$2 million shipments of each primary product class:                         |                |   |                  |
| 38211  | 3662 Radio, TV communications equipment.....   | (X)            | (X)                                     | (over 2)         |
|  | 3811 Scientific instruments.....   | (X)            | (X)                                     | 6,385            |
| 38213  | 3494 Valves and pipe fittings.....   | (X)            | (X)                                     | 8,670            |
|  | 3542 Metal-forming machine tools.....  | (X)            | (X)                                     | (over 2)         |
|  | 3548 Metalworking machinery, n.e.c.....  | (X)            | (X)                                     | (2-5)            |
|  | 3559 Special industry machines, n.e.c.....   | (X)            | (X)                                     | (over 2)         |
|  | 3567 Industrial furnaces and ovens.....  | (X)            | (X)                                     | (over 2)         |
|  | 3571 Computing and related machines.....   | (X)            | (X)                                     | (2-5)            |
|  | 3582 Commercial laundry equipment.....   | (X)            | (X)                                     | (over 2)         |
|  | 3611 Electric measuring instruments.....   | (X)            | (X)                                     | 5,651            |
|  | 3662 Radio, TV communications equipment.....   | (X)            | (X)                                     | 2,129            |
|  | 3679 Electronic components, n.e.c.....   | (X)            | (X)                                     | 4,401            |
|  | 3693 X-ray apparatus and tubes.....  | (X)            | (X)                                     | (2-5)            |
|  | 3811 Scientific instruments.....   | (X)            | (X)                                     | 6,452            |
|  | 3841 Surgical and medical instruments.....   | (X)            | (X)                                     | (5-10)           |
|  | 3842 Surgical appliances and supplies.....   | (X)            | (X)                                     | (2-5)            |
| 38214  | 3599 Miscellaneous machinery.....  | (X)            | (X)                                     | (2-5)            |
|  | 3717 Motor vehicles and parts.....   | (X)            | (X)                                     | (over 2)         |
| 38216  | 3611 Electric measuring instruments.....   | (X)            | (X)                                     | 2,013            |
|  | 3613 Switchgear and switchboards.....  | (X)            | (X)                                     | (2-5)            |
|  | 3662 Radio, TV communications equipment.....   | (X)            | (X)                                     | 4,028            |
|  | 3693 X-ray apparatus and tubes.....  | (X)            | (X)                                     | (over 2)         |
|  | 3822 Automatic temperature controls.....   | (X)            | (X)                                     | (5-10)           |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code                        | Class of products and miscellaneous receipts   | All industries | Automatic temperature controls (SIC 3822) | Other industries |
|---|--|----------------|---|------------------|
| AUTOMATIC TEMPERATURE CONTROLS INDUSTRY |  |                |   |                  |
|   | Total shipments and receipts of the industry.....  | (X)            | 527,358                                   | (X)              |
| 38220                                   | Automatic temperature controls.....  | 431,612        | 409,472                                   | 22,140           |
|   | Secondary products.....  | (X)            | 90,573                                    | (X)              |
| 34941                                   | Metal valves for piping systems (except plumbing and heating valves).....  | (X)            | 8,794                                     | (X)              |
| 36220                                   | General industry power circuit devices and controls.....   | (X)            | 13,375                                    | (X)              |
|   | Other secondary products.....  | (X)            | 68,404                                    | (X)              |
| 34443                                   | Other sheet metal work.....  | (X)            | (5-10)                                    | (X)              |
| 34618                                   | Other stamped and pressed metal end products.....  | (X)            | (over 2)                                  | (X)              |
| 35451                                   | Small cutting tools for machine tools and metalworking machinery.....  | (X)            | (over 2)                                  | (X)              |
| 36113                                   | Other electrical measuring instruments.....  | (X)            | (5-10)                                    | (X)              |
| 36132                                   | Circuit breakers.....  | (X)            | (2-5)                                     | (X)              |
| 36215                                   | Motor generator sets and other rotating equipment.....   | (X)            | (over 2)                                  | (X)              |
| 36740                                   | Solid state semiconductor devices.....   | (X)            | (over 2)                                  | (X)              |
| 37176                                   | Parts and accessories for passenger cars, trucks, and busses shipped to other than motor vehicle manufactures..... | (X)            | (over 2)                                  | (X)              |
| 38216                                   | Other mechanical measuring and controlling instruments.....  | (X)            | (5-10)                                    | (X)              |
| 38711                                   | Clocks.....  | (X)            | (5-10)                                    | (X)              |
|   | Miscellaneous receipts.....  | (X)            | 27,313                                    | (X)              |
|   | Contract work.....   | (X)            | 140                                       | (X)              |
|   | Resales.....   | (X)            | 15,221                                    | (X)              |
|   | Copper and copper-base alloy production scrap.....   | (X)            | 1,252                                     | (X)              |
|   | Aluminum and aluminum-base alloy production scrap.....   | (X)            | 286                                       | (X)              |
|   | All other scrap and refuse.....  | (X)            | 617                                       | (X)              |
|   | Receipts for repair work.....  | (X)            | 5,048                                     | (X)              |
|   | Other miscellaneous receipts.....  | (X)            | 4,749                                     | (X)              |
| 38820                                   | Listing of other industries with over \$2 million shipments of automatic temperature control:                      |                |   |                  |
|   | 3494 Valves and pipe fittings.....   | (X)            | (X)                                       | 2,078            |
|   | 3622 Industrial controls.....  | (X)            | (X)                                       | (2-5)            |
|   | 3662 Radio, TV communications equipment.....   | (X)            | (X)                                       | (2-5)            |
|   | 3821 Mechanical measuring devices.....   | (X)            | (X)                                       | 9,525            |
|   |  | All industries | Optical instruments and lenses (SIC 3831) | Other industries |
| OPTICAL INSTRUMENTS AND LENSES INDUSTRY |  |                |   |                  |
|   | Total shipments and receipts of the industry.....  | (X)            | 196,022                                   | (X)              |
|   | Primary products.....  | 269,528        | 164,965                                   | 104,563          |
| 38311                                   | Optical instruments and lenses, except sighting and fire-control equipment.....                                    | 212,768        | 127,573                                   | 85,195           |
| 38312                                   | Sighting and fire-control equipment made from lenses, prisms, etc., produced in the same plant.....                | 51,062         | 31,839                                    | 19,223           |
| 38310                                   | Optical instruments and lenses, n.s.k.....   | 5,698          | 5,553                                     | 145              |
|   | Secondary products.....  | (X)            | 17,446                                    | (X)              |
| 38611                                   | Still picture equipment.....   | (X)            | 3,098                                     | (X)              |
|   | Other secondary products.....  | (X)            | 14,348                                    | (X)              |
| 36930                                   | X-ray equipment, including X-ray tubes, and electrotherapeutic apparatus.....                                      | (X)            | (over 2)                                  | (X)              |
|   | Miscellaneous receipts.....  | (X)            | 13,611                                    | (X)              |
|   | Contract work.....   | (X)            | 1,831                                     | (X)              |
|   | Resales.....   | (X)            | 8,700                                     | (X)              |
|   | Other miscellaneous receipts.....  | (X)            | 3,080                                     | (X)              |
| 38311                                   | Listing of other industries with over \$2 million shipments of each primary product class:                         |                |   |                  |
|   | 1941 Sighting and fire-control equipment.....  | (X)            | (X)                                       | (2-5)            |
|   | 3231 Products of purchased glass.....  | (X)            | (X)                                       | (over 2)         |
|   | 3611 Electric measuring instruments.....   | (X)            | (X)                                       | (over 2)         |
|   | 3662 Radio, TV communications equipment.....   | (X)            | (X)                                       | 12,223           |
|   | 3679 Electronic components, n.e.c.....   | (X)            | (X)                                       | (10-20)          |
|   | 3729 Aircraft equipment, n.e.c.....  | (X)            | (X)                                       | (2-5)            |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code  | Class of products and miscellaneous receipts  | All industries | Optical instruments and lenses (SIC 3831)   | Other industries |
|---|---|----------------|---|------------------|
| OPTICAL INSTRUMENTS AND LENSES INDUSTRY--Continued  |   |                |   |                  |
| Listing of other industries with over \$2 million shipments of each primary product class--Con. |   |                |   |                  |
| 38311--<br>Con.   | 3811 Scientific instruments.....  | (X)            | (X)   | 2,024            |
|   | 3821 Mechanical measuring devices.....  | (X)            | (X)   | 3,470            |
|   | 3851 Ophthalmic goods.....  | (X)            | (X)   | (over 2)         |
|   | 3861 Photographic equipment.....  | (X)            | (X)   | 5,450            |
| 38312   | 3662 Radio, TV communications equipment.....  | (X)            | (X)   | (over 2)         |
|   | 3811 Scientific instruments.....  | (X)            | (X)   | (2-5)            |
|   |   | All industries | Surgical and medical instruments (SIC 3841) | Other industries |
| SURGICAL AND MEDICAL INSTRUMENTS INDUSTRY   |   |                |   |                  |
|   | Total shipments and receipts of the industry.....   | (X)            | 284,014                                     | (X)              |
| 38410   | Surgical and medical instruments and apparatus.....   | 290,621        | 214,934                                     | 75,687           |
|   | Secondary products.....   | (X)            | 29,129                                      | (X)              |
| 38421   | Surgical, orthopedic, and prosthetic appliances and supplies.....                                 | (X)            | 3,063                                       | (X)              |
| 25990   | Furniture and fixtures, n.e.c.....  | (X)            | 2,777                                       | (X)              |
|   | Other secondary products.....   | (X)            | 23,289                                      | (X)              |
| 25142   | Metal kitchen furniture.....  | (X)            | (over 2)                                    | (X)              |
| 28347   | Vitamin, nutrient, and hematinic preparations for human use.....                                  | (X)            | (over 2)                                    | (X)              |
| 38213   | Industrial process instruments.....   | (X)            | (5-10)                                      | (X)              |
|   | Miscellaneous receipts.....   | (X)            | 39,951                                      | (X)              |
|   | Contract work.....  | (X)            | 3,601                                       | (X)              |
|   | Resales.....  | (X)            | 34,184                                      | (X)              |
|   | Other miscellaneous receipts.....   | (X)            | 2,166                                       | (X)              |
|   | Listings of other industries with over \$2 million shipments of surgical and medical instruments: |                |   |                  |
| 38410   | 1941 Sighting and fire-control equipment.....   | (X)            | (X)   | (over 2)         |
|   | 2515 Mattresses and bedsprings.....   | (X)            | (X)   | (5-10)           |
|   | 2834 Pharmaceutical preparations.....   | (X)            | (X)   | 22,095           |
|   | 3811 Scientific instruments.....  | (X)            | (X)   | (2-5)            |
|   | 3842 Surgical appliances and supplies.....  | (X)            | (X)   | 5,718            |
|   | 3843 Dental equipment and supplies.....   | (X)            | (X)   | (2-5)            |
|   | 3851 Ophthalmic goods.....  | (X)            | (X)   | (over 2)         |
|   | 3988 Morticians' goods.....   | (X)            | (X)   | (over 2)         |
|   |   | All industries | Surgical appliances and supplies (SIC 3842) | Other industries |
| SURGICAL APPLIANCES AND SUPPLIES INDUSTRY   |   |                |   |                  |
|   | Total shipments and receipts of the industry.....   | (X)            | 596,666                                     | (X)              |
|   | Primary products.....   | 461,819        | 414,545                                     | 47,274           |
| 38421   | Surgical, orthopedic, and prosthetic appliances and supplies.....                                 | 318,218        | 293,813                                     | 24,405           |
| 38423   | Personal industrial safety devices.....   | 97,354         | 79,896                                      | 17,458           |
| 38424   | Electrical hearing aids.....  | 35,285         | 30,618                                      | 4,667            |
| 38420   | Surgical appliances and supplies, n.s.k.....  | 10,962         | 10,218                                      | 744              |
|   | Secondary products.....   | (X)            | 105,379                                     | (X)              |
| 23422   | Corsets, girdles, combinations and accessories.....   | (X)            | 2,033                                       | (X)              |
| 23990   | Fabricated textile products, n.e.c.....   | (X)            | 3,064                                       | (X)              |
| 38410   | Surgical and medical instruments and apparatus.....   | (X)            | 5,718                                       | (X)              |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code  | Class of products and miscellaneous receipts  | All industries | Surgical appliances and supplies (SIC 3842) | Other industries |
|---|---|----------------|---|------------------|
| SURGICAL APPLIANCES AND SUPPLIES INDUSTRY--Continued  |   |                |   |                  |
| Secondary products--Continued   |   |                |   |                  |
|   | Other secondary products.....   | (X)            | 94,564                                      | (X)              |
| 22991   | Bonded fiber fabrics (nonwoven textiles, including nonwoven ribbons for gift tyings).....     | (X)            | (over 2)                                    | (X)              |
| 26472   | Sanitary tissue health products.....  | (X)            | (over 2)                                    | (X)              |
| 28346   | Pharmaceutical preparations acting on the skin, for human use.....                            | (X)            | (5-10)                                      | (X)              |
| 28348   | Pharmaceutical preparations affecting parasitic and infective diseases, for human use.....    | (X)            | (10-20)                                     | (X)              |
| 28443   | Hair preparations (including shampoos).....   | (X)            | (over 2)                                    | (X)              |
| 28445   | Other cosmetics and toilet preparations.....  | (X)            | (10-20)                                     | (X)              |
| 30695   | Mechanical rubber goods, n.e.c.....   | (X)            | (over 2)                                    | (X)              |
| 31414   | Women's dress, work, and play shoes.....  | (X)            | (over 2)                                    | (X)              |
| 35319   | Other construction machinery and equipment, including construction machinery parts, n.e.c.... | (X)            | (over 2)                                    | (X)              |
| 38213   | Industrial process instruments.....   | (X)            | (2-5)                                       | (X)              |
| 38430   | Dental instruments, equipment, and supplies.....  | (X)            | (5-10)                                      | (X)              |
|   | Miscellaneous receipts.....   | (X)            | 76,742                                      | (X)              |
|   | Contract work.....  | (X)            | 3,054                                       | (X)              |
|   | Resales.....  | (X)            | 62,226                                      | (X)              |
|   | Receipts for repair work.....   | (X)            | 7,400                                       | (X)              |
|   | Other miscellaneous receipts.....   | (X)            | 4,062                                       | (X)              |
| Listings of other industries with over \$2 million shipments of each primary product class:   |   |                |   |                  |
| 38421   | 2641 Paper coating and glazing.....   | (X)            | (X)   | 10,445           |
|   | 3069 Rubber products, n.e.c.....  | (X)            | (X)   | (2-5)            |
|   | 3841 Surgical and medical instruments.....  | (X)            | (X)   | 3,063            |
| 38423   | 3069 Fabricated rubber products, n.e.c.....   | (X)            | (X)   | (2-5)            |
|   | 3851 Ophthalmic goods.....  | (X)            | (X)   | 5,137            |
| 38424   | 3651 Radio and TV receiving sets.....   | (X)            | (X)   | (over 2)         |
|   |   | All industries | Dental equipment and supplies (SIC 3843)    | Other industries |
| DENTAL EQUIPMENT AND SUPPLIES INDUSTRY  |   |                |   |                  |
|   | Total shipments and receipts of the industry.....   | (X)            | 147,805                                     | (X)              |
| 38430   | Dental instruments, equipment, and supplies.....  | 139,532        | 127,693                                     | 11,839           |
|   | Secondary products.....   | (X)            | 8,801                                       | (X)              |
| 34990   | Fabricated metal products, n.e.c.....   | (X)            | (over 2)                                    | (X)              |
| 38410   | Surgical and medical instruments and apparatus.....   | (X)            | (2-5)                                       | (X)              |
|   | Miscellaneous receipts.....   | (X)            | 11,311                                      | (X)              |
|   | Contract work.....  | (X)            | 964   | (X)              |
|   | Resales.....  | (X)            | 8,445                                       | (X)              |
|   | Other miscellaneous receipts.....   | (X)            | 1,902                                       | (X)              |
| Listing of other industries with over \$2 million shipments of dental equipment and supplies: |   |                |   |                  |
| 38430   | 3842 Surgical appliances and supplies.....  | (X)            | (X)   | (5-10)           |
|   |   | All industries | Ophthalmic goods (SIC 3851)                 | Other industries |
| OPHTHALMIC GOODS INDUSTRY   |   |                |   |                  |
|   | Total shipments and receipts of the industry.....   | (X)            | 272,687                                     | (X)              |
| 38510   | Ophthalmic goods.....   | 244,143        | 225,702                                     | 18,441           |
|   | Secondary products.....   | (X)            | 37,421                                      | (X)              |
| 38423   | Personal industrial safety devices.....   | (X)            | 5,137                                       | (X)              |
|   | All other secondary products.....   | (X)            | 32,284                                      | (X)              |
| 31720   | Personal leather goods, except handbags and purses.....                                       | (X)            | (over 2)                                    | (X)              |
| 38311   | Optical instruments and lenses, except sighting and fire-control equipment.....               | (X)            | (over 2)                                    | (X)              |
| 38410   | Surgical and medical instruments and apparatus.....   | (X)            | (over 2)                                    | (X)              |
|   | Miscellaneous receipts.....   | (X)            | 9,564                                       | (X)              |
|   | Receipts for work done for others on their own materials (contract work).....                 | (X)            | 1,134                                       | (X)              |
|   | Resales.....  | (X)            | 6,235                                       | (X)              |
|   | All other miscellaneous receipts.....   | (X)            | 2,195                                       | (X)              |
| Listing of other industries with over \$2 million shipments of ophthalmic goods:              |   |                |   |                  |
|   | 2821 Plastics materials and resins.....   | (X)            | (X)   | (over 2)         |
|   | 3861 Photographic equipment.....  | (X)            | (X)   | (over 2)         |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.



TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product  | Value of shipments including interplant transfers (\$1,000) |                      |
|--------------|--|---|----------------------|
|              |  | 1963  | 1958                 |
| 3811- --     | SCIENTIFIC INSTRUMENTS, TOTAL.....   | 722,105   | <sup>r</sup> 758,639 |
|              | Aircraft, flight, nautical, and navigational instruments and automatic pilots:   |   |                      |
| 38111 10     | As reported in the census of manufactures.....   | <sup>1</sup> 2410,591                                       | <sup>r</sup> 509,853 |
|              | As reported on Census Annual Form MA-38B (see table 6A-2).....   | <sup>1</sup> 2346,074                                       | (X)                  |
|              | Laboratory and scientific instruments:   |   |                      |
| 38112 20     | As reported in the census of manufactures.....   | <sup>1</sup> 195,138  | 152,597              |
|              | As reported on Census Annual Form MA-38B (see table 6A-2).....   | <sup>1</sup> 186,101  | (X)                  |
| 38113 --     | Surveying and drafting instruments and laboratory furniture.....   | 104,045   | 76,463               |
| 38113 31     | Surveying and drafting instruments and apparatus, except optical (including surveying instruments, transits, drawing instruments, drafting machines, slide rules, planimeters, integrators, etc.).....           | 23,295  | 16,459               |
| 38113 41     | Photogrammetric equipment (excluding cameras).....   | 2,150   |                      |
| 38113 71     | Laboratory precision balances (including accessories, attachments, and parts).....   | 6,538   | 3,692                |
|              | Laboratory furniture:  |   |                      |
|              | Cabinets and cases:  |   |                      |
| 38113 81     | Wood.....  | 31,767  | 26,471               |
| 38113 85     | Metal.....   | 24,094  | 20,381               |
| 38113 89     | Other (tables, stools, reagent shelves, etc.).....   | 13,041  | 9,460                |
| 38113 00     | Surveying and drafting instruments and laboratory furniture, n.s.k.....  | 3,160   | -                    |
| 38110 00     | Scientific instruments, n.s.k.....   | 12,331  | 19,726               |
| 3821- --     | MECHANICAL MEASURING INSTRUMENTS, TOTAL.....   | 983,840   | 760,780              |
|              | Aircraft engine instruments, except flight:  |   |                      |
| 38211 10     | As reported in the census of manufactures.....   | <sup>1</sup> 66,383   | 55,481               |
|              | As reported on Census Annual Form MA-38B (see table 6A-2).....   | <sup>1</sup> 64,058   | (X)                  |
|              | Integrating meters, nonelectrical type:  |   |                      |
| 38212 20     | As reported in the census of manufactures.....   | <sup>1</sup> 163,716  | 119,358              |
|              | As reported on Census Annual Form MA-38B (see table 6A-2).....   | <sup>1</sup> 148,423  | (X)                  |
|              | Industrial process instruments:  |   |                      |
| 38213 30     | As reported in the census of manufactures.....   | <sup>1</sup> 3522,385                                       | 403,286              |
|              | As reported on Census Annual Form MA-38B (see table 6A-2).....   | <sup>1</sup> 3467,014                                       | (X)                  |
| 38214 --     | Motor vehicle instruments, except electric.....  | 95,776  | 70,787               |
| 38214 11     | Speedometers for motor vehicles.....   | 41,833  | 70,477               |
| 38214 98     | Other motor vehicle indicating instruments, except electric (fuel level, oil pressure, etc.).....  | 53,373  |                      |
| 38214 00     | Motor vehicle instruments, except electric, n.s.k.....   | 570   | 310                  |
|              | Other mechanical measuring and controlling instruments (including nuclear radiation detection and monitoring instruments):   |   |                      |
| 38216 60     | As reported in the census of manufactures.....   | <sup>1</sup> 117,171  | 92,721               |
|              | As reported on Census Annual Form MA-38B (see table 6A-2).....   | <sup>1</sup> 107,461  | (X)                  |
| 38210 00     | Mechanical measuring instruments, n.s.k.....   | 18,409  | 19,147               |
| 3822- --     | AUTOMATIC TEMPERATURE CONTROLS, TOTAL.....   | 431,612   | 319,855              |
|              | Automatic temperature controls of the type principally used as components of air conditioning, refrigeration, and comfort heating, or as components of major household appliances, including pneumatic controls: |   |                      |
| 38220 10     | As reported in the census of manufactures.....   | <sup>1</sup> 431,612  | 319,855              |
|              | As reported on Census Annual Form MA-38B (see table 6A-2).....   | <sup>1</sup> 420,744  | (X)                  |
| 3831- --     | OPTICAL INSTRUMENTS AND LENSES.....  | 269,528   | 115,481              |
|              | Optical and analytical instruments and lenses:   |   |                      |
| 38311 10     | As reported in the census of manufactures.....   | <sup>1</sup> 212,768  | <sup>4</sup> 115,481 |
|              | As reported on Census Annual Form MA-38B (see table 6A-2).....   | <sup>1</sup> 199,210  | (X)                  |
|              | Sighting and fire-control equipment made from lenses, prisms, etc., produced in the same plant:  |   |                      |
| 38312 10     | As reported in the census of manufactures.....   | <sup>1</sup> 51,062   |                      |
|              | As reported on Census Annual Form MA-38B (see table 6A-2).....   | <sup>1</sup> 49,797   | (X)                  |
| 38310 00     | Optical instruments and lenses, n.s.k.....   | 5,698   | (X)                  |

See footnotes at end of table.

TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product  | Unit of measure | Total shipments including interplant transfers |                  |           |                 |
|--------------|--|-----------------|--|------------------|-----------|-----------------|
|              |  |                 | 1963   |                  | 1958      |                 |
|              |  |                 | Quantity                                       | Value (\$1,000)  | Quantity  | Value (\$1,000) |
| 3841- --     | SURGICAL AND MEDICAL INSTRUMENTS AND APPARATUS, TOTAL.....   |                 | (X)  | 290,621          | (X)       | 130,570         |
| 38410 12     | Surgical instruments, including suture needles, and eye, ear, nose, and throat instruments.....  |                 | (X)  | 22,341           | (X)       | 10,362          |
| 38410 31     | Orthopedic instruments, such as bone drills, bone plates, etc., excluding eye, ear, nose, and throat instruments.....  |                 | (X)  | 8,146            | (X)       | 5,938           |
| 38410 51     | Diagnostic apparatus, including such items as metabolism and blood pressure apparatus, ophthalmoscopes, octoscopes, cystoscopes, etc.....                                  |                 | (X)  | 19,180           | (X)       | 9,650           |
| 38410 63     | Hypodermic syringes:<br>Reusable.....  | 1,000 units...  | 7,911  | 11,560           | } 19,628  | 14,385          |
| 38410 66     | Disposable:<br>Uniquely designed for prefilling.....   | ..do.....       | 115,974  | 11,329           |           |                 |
| 38410 68     | Other.....   | ..do.....       | 389,157  | 25,129           |           |                 |
| 38410 73     | Hypodermic needles:<br>Reusable.....   | ..do.....       | 30,603   | 5,388            | } 182,518 | 12,510          |
| 38410 75     | Disposable.....  | ..do.....       | 834,150  | 27,508           |           |                 |
| 38410 81     | Other surgical and medical instruments, including anesthesia apparatus, transfusion equipment, blood donor kits, veterinary instruments.....                               |                 | (X)  | 82,324           | (X)       | 36,339          |
| 38410 91     | Operating room furniture, including tables, cases, cabinets, etc....   |                 | (X)  | 18,029           | (X)       | 7,595           |
| 38410 95     | Other hospital furniture, excluding operating equipment, beds, and instruments, but including cabinets, cases, desks, tables, bassinets, chart racks, back rests, etc..... |                 | (X)  | 49,835           | (X)       | 24,993          |
| 38410 00     | Surgical and medical instruments and apparatus, n.s.k.....   |                 | (X)  | 9,852            | (X)       | 8,798           |
| 3842- --     | ORTHOPEDIC, PROSTHETIC, AND SURGICAL APPLIANCES AND SUPPLIES, TOTAL.....   |                 | (X)  | 461,819          | (X)       | 362,029         |
| 38421 --     | Surgical, orthopedic, and prosthetic appliances and supplies.....  |                 | (X)  | 318,218          | (X)       | 256,573         |
| 38421 11     | Orthopedic appliances (braces), including parts.....   |                 | (X)  | 8,099            | (X)       | 9,977           |
| 38421 15     | Sterilizers (hospital and surgical) (excluding dental sterilizers).....  |                 | (X)  | 15,848           | (X)       | 17,010          |
| 38421 22     | Surgical dressings:<br>Bandages, elastic.....  | 1,000 sq. yds.. | 2,011  | 6,012            | (NA)      | 6,144           |
| 38421 23     | Bandages, other (including muslin, plaster of Paris, etc.; but excluding self-adhering bandages).....  | ..do.....       | 27,277   | 10,876           | 16,718    | 8,065           |
| 38421 24     | Adhesive, plaster, medicated and nonmedicated (including self-adhering bandages).....  |                 | (X)  | 53,726           | (X)       | 47,835          |
| 38421 27     | Cotton, including cotton balls (sterile and nonsterile).....   |                 | (X)  | 15,006           | (X)       | 22,324          |
| 38421 26     | Gauze (absorbent and packing).....   | 1,000 sq. yds.. | 106,458  | 5,686            | } (X)     | 29,854          |
| 38421 29     | Other surgical dressings (including sponges, compresses, pads, etc.).....  |                 | (X)  | 30,825           |           |                 |
| 38421 33     | Sterile surgical sutures, absorbable.....  |                 | (X)  | 40,363           | (X)       | 20,804          |
| 38421 34     | Sterile surgical sutures, nonabsorbable.....   |                 | (X)  | 10,356           | (X)       | 8,198           |
| 38421 35     | Artificial limbs (prosthetic) including parts.....   |                 | (X)  | 7,602            | (X)       | 3,345           |
| 38421 38     | Elastic stockings.....   |                 | (X)  | 8,298            | (X)       | 7,017           |
| 38421 41     | Elastic braces, suspensories, and other elastic supports.....  |                 | (X)  | 7,500            | (X)       | 10,556          |
| 38421 45     | Arch supports and other foot appliances.....   |                 | (X)  | 3,300            | (X)       | 1,949           |
| 38421 51     | Trusses.....   |                 | (X)  | 1,691            | (X)       | 2,839           |
| 38421 61     | Corn remover pads, bunion pads, etc.....   |                 | (X)  | ( <sup>2</sup> ) | (X)       | 4,190           |
| 38421 71     | Surgical corsets.....  | 1,000 dozen...  | 74   | 6,479            | 46        | 2,717           |
| 38421 98     | Other surgical and orthopedic items not included in above categories (wheel chairs, infant incubators, respirators, splints, etc.).....                                    |                 | (X)  | 576,179          | (X)       | 40,313          |
| 38421 00     | Surgical, orthopedic, and prosthetic appliances and devices, n.s.k.....  |                 | (X)  | 10,372           | (X)       | 13,436          |
| 38423 --     | Personal industrial safety devices.....  |                 | (X)  | 97,354           | (X)       | 56,365          |
| 38423 11     | Respiratory protection equipment (including gas masks, abrasive masks, canister masks, etc.).....  |                 | (X)  | 29,984           | (X)       | 13,927          |
| 38423 31     | Eye and face protection devices (including face shields, hoods, and welding helmets and masks) (excluding industrial goggles and eye protectors).....                      |                 | (X)  | 11,454           | (X)       | 2,374           |
| 38423 51     | Protective clothing, except shoes.....   |                 | (X)  | 21,659           | (X)       | 15,167          |
| 38423 61     | First aid, snake bite and burn kits, both household and industrial types.....  |                 | (X)  | 7,023            | (X)       | 5,667           |
| 38423 71     | Other personal safety devices.....   |                 | (X)  | 27,234           | (X)       | 19,230          |
| 38424 00     | Electronic hearing aids.....   | 1,000 units.... | 355  | 35,285           | 400       | 39,517          |
| 38420 00     | Orthopedic, prosthetic, and surgical appliances and supplies, n.s.k.....   |                 | (X)  | 10,962           | (X)       | 9,574           |

See footnotes at end of table.



TABLE 6A-1. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                 |          |                 |
|--------------|---|-----------------|--|-----------------|----------|-----------------|
|              |   |                 | 1963   |                 | 1958     |                 |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 3843- --     | DENTAL EQUIPMENT AND SUPPLIES, TOTAL.....   |                 | (X)  | 139,532         | (X)      | 110,680         |
|              | Dental metals:  |                 |  |                 |          |                 |
| 38430 11     | Precious.....   | 1,000 troy oz.. | 797  | 19,492          | } (NA)   | 17,998          |
| 38430 15     | Nonprecious.....  | ..do.....       | 1,062  | 2,512           |          |                 |
| 38430 21     | Dental alloys for amalgams.....   | ..do.....       | 1,537  | 2,700           | 950      | 1,505           |
|              | Teeth:  |                 |  |                 |          |                 |
| 38430 31     | Porcelain.....  | 1,000 teeth...  | 60,493   | 12,392          | 64,882   | 10,439          |
| 38430 35     | Other, including resinous and plastic.....  | ..do.....       | 26,662   | 5,064           | 20,726   | 3,461           |
| 38430 41     | Denture materials.....  |                 | (X)  | 3,752           | (X)      | 2,962           |
| 38430 47     | Dental professional equipment, including dental chairs, equipment units, cabinets, lights, etc.....   |                 | (X)  | 27,204          | (X)      | 24,906          |
| 38430 51     | Dental laboratory equipment, including furnaces, casting machines, lathes, benches, polishing units, flasks, blow pipes, presses, etc.....    |                 | (X)  | 6,063           | (X)      | 2,988           |
| 38430 57     | Dental hand instruments (forceps and pliers, broaches, cutting instruments, etc.).....  |                 | (X)  | 8,074           | (X)      | 10,192          |
| 38430 61     | Burs, diamond points, abrasive points, wheels, disks, and similar tools for use with hand pieces.....   |                 | (X)  | 7,713           | (X)      | 6,198           |
| 38430 71     | Waxes, cements, dental gypsums, impression materials, and other consumable supplies including low-fusing alloys.....                          |                 | (X)  | 14,425          | (X)      | 12,242          |
| 38430 98     | Other dental products, including dental sterilizers (excluding X-ray equipment).....  |                 | (X)  | 23,717          | (X)      | 7,328           |
| 38430 00     | Dental instruments, equipment, and supplies, n.s.k.....   |                 | (X)  | 6,424           | (X)      | 10,461          |
| 3851- --     | OPHTHALMIC GOODS, TOTAL.....  |                 | (X)  | 244,143         | (X)      | 167,951         |
|              | Ophthalmic fronts, finished (with or without decoration):   |                 |  |                 |          |                 |
| 38510 12     | Gold filled fronts, full rimmed or semirimmed.....  | 1,000 units.... | 931  | 2,493           | 1,124    | 2,753           |
| 38510 14     | Aluminum or other metal fronts.....   | ..do.....       | 709  | 2,451           | 428      | 1,553           |
| 38510 15     | Plastic fronts.....   | ..do.....       | 20,076   | 26,682          | 16,417   | 20,027          |
| 38510 16     | Combination fronts.....   | ..do.....       | 4,742  | 12,220          | 7,108    | 16,927          |
| 38510 17     | Temples (all types), finished.....  | 1,000 pairs.... | 24,665   | 24,173          | 26,144   | 25,736          |
| 38510 18     | Centers, oxfords, parts, trim, unfinished fronts and temples, etc.....  |                 | (X)  | 6,836           | (X)      | 6,774           |
| 38510 24     | Ophthalmic spectacles and eyeglasses (frames and mountings of all types when sold corrective lenses inserted-with or without decoration)..... | 1,000 units.... | 3,341  | 4,797           | 3,449    | 3,500           |
|              | Ophthalmic focus lenses:  |                 |  |                 |          |                 |
| 38510 32     | Single vision lenses (ground and polished and moulded blanks)....   | 1,000 pairs.... | 22,058   | 27,439          | 14,553   | 13,721          |
| 38510 35     | Multifocal lenses (bifocals and trifocals; finished and semi-finished and moulded blanks).....  | ..do.....       | 14,477   | 42,592          | 13,899   | 28,098          |
| 38510 41     | Industrial goggles, eye protectors, welding circles and plates, mountings, and parts.....   |                 | (X)  | 22,977          | (X)      | 13,923          |
| 38510 51     | Sun or glare glasses and sunglasses, complete.....  | 1,000 units.... | 32,619   | 45,042          | 16,780   | 14,445          |
| 38510 98     | Other ophthalmic goods and accessories (sunglass frames, single readers and magnifiers, holders, gas mask inserts, etc.).....                 |                 | (X)  | 17,472          | (X)      | 9,231           |
| 38510 00     | Ophthalmic goods, n.s.k.....  |                 | (X)  | 8,969           | (X)      | 11,263          |

Standard notes: - Represents zero. (X) Not applicable. <sup>R</sup>Revised.  
n.s.k. Not specified by kind.

<sup>1</sup>For these products, figures were also collected in the Bureau of the Census commodity survey program. In lieu of asking for detailed statistics on these products in the census of manufactures, respondents were asked to report only value of shipments for specified groups of products for which separate figures had previously been collected in the commodity survey. In most cases, the value figures reported in the census of manufactures for each group of products agreed closely with the corresponding figures reported in the commodity survey. However, there were minor differences between the census figures and the commodity survey figures. These variations, except as noted below were due primarily to the following reasons:

- a. Better coverage in census of manufactures program. Coverage in the annual surveys will be supplemented by adding respondents not currently in the survey but making the specified product according to their census of manufactures report.
- b. Use of different reporting periods (calendar year vs. fiscal year).
- c. Use of estimates in reporting figures on the commodity survey, whereas census of manufactures figures generally represent more exact shipment figures.

See table 6A-2 for more detailed product data.

<sup>2</sup>The major difference between these two figures concerns the method of reporting parts and components for aircraft, flight, nautical, and navigational instruments and automatic pilots. Whereas many respondents have included such parts under the broad heading in the census, parts were not covered in the 1963 MA-38B survey. While the exact value of such parts cannot be derived, it is approximately represented by the difference between the two sets of figures.

<sup>3</sup>The major difference between these two figures concerns the method of reporting parts and components for industrial process instruments. Whereas many respondents have included such parts under the broad heading in the census, parts were not covered in the 1963 MA-38B survey. While the exact value of such parts cannot be derived, it is approximately represented by the difference between the two sets of figures.

<sup>4</sup>1963 product class codes 38311 and 38312 were collected as a single product class in 1958.

<sup>5</sup>Product code 3842161 is included with product code 3842198, "Other surgical and orthopedic items" to avoid disclosing figures for individual companies.

TABLE 6A-2. Selected Instruments and Related Products—Quantity and Value of Shipments: 1963 and 1958

| Product code | Product   | Total shipments including interplant transfers |                      |                               |                      |
|--------------|---|--|----------------------|-------------------------------|----------------------|
|              |   | 1963   |                      | 1958                          |                      |
|              |   | Quantity<br>(number of units)                  | Value<br>(\$1,000)   | Quantity<br>(number of units) | Value<br>(\$1,000)   |
| 38111 --     | Aeronautical; nautical; and navigational instruments; and automatic pilots, total.....  | (X)  | 346,074              | (X)                           | <sup>1</sup> 509,853 |
|              | Flight and navigation instruments:  |  |                      |                               |                      |
| 38111 01     | Compasses (excluding radio).....  | 89,871   | 3,494                |                               |                      |
| 38111 04     | Omnibearing indicators (for visual-omni-range system).....  | (X)  | (1)                  |                               |                      |
| 38111 05     | Radio magnetic indicators.....  | (X)  | (1)                  |                               |                      |
| 38111 06     | Glide slope indicators.....   | (X)  | (1)                  |                               |                      |
| 38111 07     | Pictorial deviation indicators.....   | (X)  | (1)                  |                               |                      |
| 38111 08     | Altimeters (excluding radio altimeters).....  | 11,235   | 9,594                |                               |                      |
| 38111 09     | Air speed indicators.....   | 8,379  | 2,701                |                               |                      |
| 38111 11     | Machmeters.....   | (X)  | (1)                  |                               |                      |
| 38111 12     | Acceleration indicators.....  | (X)  | (1)                  |                               |                      |
| 38111 13     | Rate-of-climb indicators.....   | 6,203  | 866                  | (X)                           | <sup>2</sup> 211,183 |
| 38111 14     | Driftmeters.....  | (X)  | (1)                  |                               |                      |
| 38111 15     | Angle-of-attack indicators.....   | (X)  | (1)                  |                               |                      |
| 38111 16     | Angle-Of-yaw indicators.....  | (X)  | (1)                  |                               |                      |
| 38111 17     | Bank and turn indicators.....   | (X)  | (1)                  |                               |                      |
| 38111 18     | Horizon flight indicators.....  | 11,703   | 8,359                |                               |                      |
| 38111 19     | Sextants.....   | (X)  | (1)                  |                               |                      |
| 38111 20     | Other flight and navigation instruments.....  | (X)  | 113,023              |                               |                      |
|              | Gyroscopes (sold separately):   |  |                      |                               |                      |
| 38111 21     | Vertical.....   | 13,605   | 25,827               | (X)                           | 14,930               |
| 38111 23     | Directional.....  | 3,940  | 2,891                | (X)                           | 5,076                |
| 38111 25     | Free, torqued and untorqued.....  | 5,513  | 10,948               | (X)                           | 1,602                |
| 38111 27     | Rate.....   | 34,937   | 24,653               | (X)                           | 15,296               |
| 38111 41     | Integrating rate (nonfloated).....  | 180  | 415                  |                               |                      |
| 38111 43     | Fully floated.....  | 2,717  | 24,479               | (X)                           | 7,032                |
| 38111 44     | Complete automatic pilots (both gyroscopic and nongyroscopic).....  | 12,528   | 62,799               | (X)                           | ( <sup>2</sup> )     |
|              | Airframe equipment instruments:   |  |                      |                               |                      |
| 38111 61     | Position indicators (mechanical, as for landing gear, cowl flaps, stabilizers, etc.).....   | (X)  | 6,694                |                               |                      |
| 38111 62     | Electrical system (ammeters, load meters, frequency meters, etc.).....  |  |                      |                               |                      |
| 38111 63     | Hydraulic system (both electrical and mechanical measuring means, as for liquid level and temperature and pressure indicators).....   | (X)  | 8,905                |                               |                      |
| 38111 64     | Cabin air conditioning and heating (both electrical and mechanical means; indicators for differential pressure, air temperature, and air flow; and compressor tachometers).....                       |  |                      | (X)                           | 248,002              |
|              | Regulating and controlling instruments:   |  |                      |                               |                      |
| 38111 71     | Electrical (air combustion, air pressure, cabin pressure, etc.).....  | (X)  | ( <sup>3</sup> )     |                               |                      |
| 38111 72     | Mechanical (coolant, demand oxygen, oil pressure, etc.).....  | (X)  | 19,541               |                               |                      |
| 38111 98     | Other aeronautical; nautical; and navigational instruments.....   | (X)  | <sup>3</sup> 120,885 |                               |                      |
| 38111 00     | Aeronautical, nautical, and navigational instruments, and automatic pilots, n.s.k.....  | (X)  | -                    | (X)                           | 6,732                |
| 38112 --     | Primary laboratory and scientific instruments, total.....   | (X)  | 186,101              |                               |                      |
| 38112 62     | Electronic laboratory standards and calibrating equipment.....  | (X)  | 2,754                | (X)                           | 152,597              |
| 38112 63     | Electrical laboratory standards and calibrating equipment.....  | (X)  | 6,122                |                               |                      |
| 38112 64     | All other laboratory and scientific instruments (excluding aircraft, nautical and navigational instruments and apparatus, electrical quantity measuring instruments, and industrial instruments)..... | (X)  | 177,225              |                               |                      |
| 38211 --     | Aircraft engine and fuel system instruments, total.....   | (X)  | 64,058               | (X)                           | 55,481               |
| 38211 45     | Temperature indicators.....   | (X)  | 5,814                |                               |                      |
| 38211 46     | Pressure ratio indicators.....  | (X)  | 2,355                |                               |                      |
| 38211 47     | Pressure and vacuum indicators.....   | (X)  | 4,303                |                               |                      |
| 38211 48     | Flow indicators.....  | (X)  | 9,488                |                               |                      |
| 38211 49     | Liquid level indicators.....  | (X)  | 24,948               |                               |                      |
| 38211 50     | Tachometers.....  | (X)  | ( <sup>4</sup> )     | (X)                           | 55,481               |
| 38211 51     | Thrust power indicators.....  | (X)  | ( <sup>4</sup> )     |                               |                      |
| 38211 52     | Fuel mixture indicators.....  | (X)  | ( <sup>4</sup> )     |                               |                      |
| 38211 53     | Fuel totalizers.....  | (X)  | ( <sup>4</sup> )     |                               |                      |
| 38211 54     | Fuel densitometers.....   | (X)  | ( <sup>4</sup> )     |                               |                      |
| 38211 55     | Engine synchronizers.....   | (X)  | ( <sup>4</sup> )     |                               |                      |
| 38211 56     | All other.....  | (X)  | <sup>4</sup> 17,150  |                               |                      |
| 38212 --     | Integrating meters, nonelectrical type, total.....  | (X)  | 148,423              | (X)                           | 119,358              |
| 38212 11     | Gas meters.....   | 1,558,312                                      | 56,545               | 1,232,000                     | 40,806               |
| 38212 31     | Water meters.....   | 1,351,297                                      | 60,880               | 1,247,000                     | 47,886               |

See footnotes at end of table.



TABLE 6A-2. Selected Instruments and Related Products—Quantity and Value of Shipments: 1963 and 1958—Continued

| Product code | Product  | Total shipments including interplant transfers |                    |                               |                    |
|--------------|--|--|--------------------|-------------------------------|--------------------|
|              |  | 1963   |                    | 1958                          |                    |
|              |  | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 38212 --     | Integrating meters, nonelectrical type—Continued   |  |                    |                               |                    |
| 38212 41     | Gasoline dispensing meters.....  | 237,454  | 11,845             | (X)                           | 30,412             |
| 38212 98     | Other nonelectrical integrating meters.....  | 237,923  | 19,153             |                               |                    |
| 38212 00     | Integrating meters, nonelectrical type, n.s.k.....   | (X)  | -                  |                               |                    |
| 38213 --     | Industrial and other process instruments (indicating, measuring, and recording), total.....  | (X)  | 467,014            | (X)                           | 403,286            |
|              | Temperature instruments:   |  |                    |                               |                    |
|              | Thermometers:  |  |                    |                               |                    |
| 38213 13     | Clinical.....  | 14,897,486                                     | 6,659              | 9,977,000                     | 6,698              |
| 38213 15     | Household.....   | 14,272,575                                     | 8,890              |                               |                    |
|              | Industrial and laboratory:   |  |                    |                               |                    |
| 38213 10     | Glass stem.....  | 2,145,629                                      | 7,802              | (X)                           | 10,194             |
| 38213 11     | Bimetallic.....  | 1,015,317                                      | 6,593              |                               |                    |
| 38213 12     | Filled system.....   | 757,075  | 17,603             |                               |                    |
|              | Pyrometers (radiation and optical):  |  |                    |                               |                    |
| 38213 18     | Electronic and electrical.....   | 36,949   | 21,073             | (X)                           | 27,994             |
| 38213 19     | Other.....   | 21,838   | 3,978              |                               |                    |
| 38213 22     | Other temperature measuring instruments.....   | 507,063  | 29,773             | (X)                           | 27,363             |
|              | Pressure and vacuum instruments:   |  |                    |                               |                    |
| 38213 31     | Electronic and electrical types of pressure and vacuum instruments....   | (X)  | 18,781             | (X)                           | 53,307             |
| 38213 32     | Barometers (all types).....  | 266,410  | 3,078              |                               |                    |
|              | Mechanical:  |  |                    |                               |                    |
| 38213 33     | Nontransmission.....   | (X)  | 58,930             | (X)                           |                    |
| 38213 35     | Pneumatic transmission.....  | (X)  | 9,716              |                               |                    |
| 38213 37     | Electric transmission.....   | (X)  | 7,172              |                               |                    |
|              | Fluid flow and liquid level instruments:   |  |                    |                               |                    |
| 38213 41     | Electronic and electrical, except X-ray and nuclear instruments.....   | (X)  | 9,364              | (X)                           | 53,995             |
|              | Mechanical:  |  |                    |                               |                    |
| 38213 43     | Nontransmission.....   | (X)  | 28,498             |                               |                    |
| 38213 45     | Pneumatic transmission.....  | (X)  | 16,802             |                               |                    |
| 38213 47     | Electric transmission.....   | (X)  | 12,518             |                               |                    |
|              | Continuous process (on stream) gas and chemical analysis instruments (excluding basically optical and analytical):   |  |                    |                               |                    |
| 38213 46     | Chromatographic.....   | (X)  | 12,567             | (X)                           | 17,836             |
| 38213 48     | All other.....   | (X)  | 10,236             |                               |                    |
| 38213 49     | Humidity instruments.....  | (X)  | 3,968              | (X)                           | 1,215              |
|              | Physical properties testing and inspection equipment, including hardness, strength of materials, thickness, wear, abrasion, and similar testers (excluding X-ray and nuclear): |  |                    |                               |                    |
|              | Stress, strain, and flaw detecting, and measuring equipment:   |  |                    |                               |                    |
| 38213 52     | Electronic types.....  | (X)  | 16,822             | (X)                           | 34,120             |
| 38213 53     | Other types.....   | (X)  | 7,257              |                               |                    |
|              | Other physical properties testing and inspection equipment:  |  |                    |                               |                    |
| 38213 54     | Electronic types.....  | (X)  | 6,004              | (X)                           |                    |
| 38213 55     | Other types.....   | (X)  | 8,043              |                               |                    |
|              | Kinematic test and measuring equipment:  |  |                    |                               |                    |
| 38213 57     | Vibration.....   | (X)  | 20,772             | (X)                           | 138,017            |
| 38213 58     | Acceleration and all other kinematic test and measuring equipment....  | (X)  | 9,522              |                               |                    |
|              | All other industrial process instruments:  |  |                    |                               |                    |
| 38213 95     | Electronic types.....  | (X)  | 26,631             | (X)                           | 21,289             |
| 38213 97     | Other types.....   | (X)  | 77,962             |                               |                    |
| 38213 00     | Industrial and other process instruments, n.s.k.....   | (X)  | -                  | (X)                           |                    |

See footnotes at end of table.

TABLE 6A-2. Selected Instruments and Related Products—Quantity and Value of Shipments: 1963 and 1958—Continued

| Product code | Product  | Total shipments including interplant transfers |                    |                               |                    |
|--------------|--|--|--------------------|-------------------------------|--------------------|
|              |  | 1963   |                    | 1958                          |                    |
|              |  | Quantity<br>(Number of Units)                  | Value<br>(\$1,000) | Quantity<br>(Number of Units) | Value<br>(\$1,000) |
| 38216 --     | Other mechanical measuring and controlling instruments, total.....   | (X)  | 107,461            | (X)                           | 92,721             |
| 38216 11     | Nuclear radiation detection and monitoring instruments:<br>Radiation detecting elements, including ion chambers, sold separately.  | 15,331   | 2,938              | }                             |                    |
|              | Nuclear monitoring instruments:<br>Portable (or hand held):  |  |                    |                               |                    |
| 38216 12     | 50 MR/HR maximum range.....  | 65,928   | 2,120              |                               |                    |
| 38216 13     | 50.1 MR/HR but less than 10 R/HR.....  | 328,586  | 5,870              |                               |                    |
| 38216 14     | 10 R/HR through 500 R/HR.....  | 11,644   | 678                |                               |                    |
| 38216 15     | Environmental (fixed or semiportable or mobile systems for area monitoring but not hand held or worn on person).....   | (NA)   | 2,257              |                               |                    |
| 38216 16     | Personnel dosimetry devices, self-reading and others (worn on the person).....   | 1,158,811                                      | 6,474              |                               |                    |
|              | Medical monitors:  |  |                    |                               |                    |
| 38216 17     | Whole body counters.....   | 808  | 1,352              |                               |                    |
| 38216 18     | Medical scanners and special purpose monitors.....   | -  | -                  |                               |                    |
| 38216 19     | Scalers.....   | 3,383  | 3,017              |                               |                    |
| 38216 21     | Special amplifiers for nuclear applications.....   | 1,121  | 1,159              |                               |                    |
|              | Pulse analyzers, including nuclear spectrometers:  |  |                    |                               |                    |
| 38216 22     | Single channel pulse height analyzers.....   | 635  | 525                |                               |                    |
| 38216 23     | Multichannel pulse height analyzers.....   | 692  | 6,709              |                               |                    |
| 38216 24     | Sample changers.....   | 468  | 911                |                               |                    |
| 38216 25     | Count rate meters.....   | 2,356  | 1,264              |                               |                    |
| 38216 26     | Nuclear instruments for industrial purposes.....   | 2,058  | 5,013              |                               |                    |
| 38216 27     | Miscellaneous, n.e.c.....  | (X)  | 21,063             |                               |                    |
|              | Mechanical measuring instruments:  |  |                    |                               |                    |
| 38216 71     | Revolution counters.....   | 1,570,312                                      | 11,422             | 1,769,000                     | 12,530             |
| 38216 51     | Other mechanical measuring instruments.....  | (X)  | 34,689             | (X)                           | 52,986             |
| 38216 00     | Other mechanical measuring and controlling instruments, n.s.k.....   | (X)  | -                  | (X)                           | 7,283              |
| 38220 --     | Automatic temperature controls of the type principally used as components of air-conditioning, refrigeration, and comfort heating, or as components of major household appliances (including pneumatic controls), total..... | (X)  | 420,744            | (X)                           | 319,855            |
| 38220 16     | Pressure sensitive controls.....   | (X)  | 21,601             | (X)                           | }                  |
| 38220 14     | Thermostatic controls.....   | (X)  | 309,534            | (X)                           |                    |
| 38220 16     | Hydrostatic controls.....  | (X)  | 89,609             | (X)                           |                    |
| 38220 18     | Other.....   | (X)  |                    | (X)                           |                    |
| 38311 --     | Optical and analytical instruments, total.....   | (X)  | 199,210            | (X)                           | 115,481            |
|              | Optical:   |  |                    |                               |                    |
| 38311 31     | Field glasses, prismatic and nonprismatic, terrestrial and celestial telescopes.....   | (X)  | 2,659              | }                             |                    |
| 38311 51     | Microprojectors and photomicrographic equipment.....   | (X)  | ( <sup>5</sup> )   |                               |                    |
|              | Microscopes:   |  |                    |                               |                    |
| 38311 52     | Electron and proton.....   | (X)  | 32,276             | }                             |                    |
| 38311 54     | Optical.....   | (X)  |                    |                               |                    |
| 38311 74     | Optical and related types of spectrometers.....  | (X)  | 50,455             |                               |                    |
| 38311 78     | All other optical instruments, including analytical, industrial, and meteorological.....   | (X)  | 570,886            |                               |                    |
|              | Laboratory analysis apparatus (nonoptical):  |  |                    |                               |                    |
| 38311 71     | Mass spectrographs.....  | (X)  | 5,080              | }                             |                    |
| 38311 73     | Nuclear magnetic resonance type apparatus.....   | (X)  | ( <sup>6</sup> )   |                               |                    |
| 38311 75     | Electron paramagnetic spin type apparatus.....   | (X)  | ( <sup>6</sup> )   | }                             |                    |
| 38311 77     | Chromatographic equipment (excluding continuous (on stream) gas and chemical analysis types).....  | (X)  | 5,473              |                               |                    |
| 38311 79     | All other nonoptical analytical instruments and equipment (photometers, colorimeters, turbidimeters, nephelometers, titrometers, PH meters, etc.).....   | (X)  | 632,381            |                               |                    |
| 38312 62     | Sighting, tracking, and fire-control equipment (optical type), made from lenses, prisms, etc., produced in the same plant.....   | (X)  | 49,797             |                               |                    |

- Represents zero. (NA) Not available. (X) Not applicable.  
n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.  
Source: Current Industrial Reports Series M38B, "Selected Instruments and Related Products."  
<sup>1</sup>Included in 3811120 to avoid disclosing operations of individual companies.  
<sup>2</sup>Data for complete automatic pilots are included with flight and navigation instruments in 1958.  
<sup>3</sup>Included with 3811198 to avoid disclosing operations of individual companies.  
<sup>4</sup>Included with 3821156 to avoid disclosing operations of individual companies.  
<sup>5</sup>Included with 3831178 to avoid disclosing operations of individual companies.  
<sup>6</sup>Included with 3831179 to avoid disclosing operations of individual companies.



TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year  | Indexes (1954 = 100) |                  |
|--------------|---|----------------------|------------------|
|              |   | Production           | Unit value       |
| 3811-        | Scientific instruments.....1963..   | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | 1958..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 382--        | Mechanical measuring devices.....1963..   | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | 1958..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 3821-        | Mechanical measuring instruments.....1963..   | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | 1958..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 38212        | Integrating meters, nonelectrical type.....1963..                                     | 105                  | 146              |
|              | 1958..  | 87                   | 128              |
| 3822-        | Automatic temperature controls.....1963..   | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | 1958..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 3831-        | Optical instruments and lenses.....1963..   | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | 1958..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 384--        | Medical instruments and supplies.....1963..   | 172                  | 110              |
|              | 1958..  | 117                  | 111              |
| 3841-        | Surgical and medical instruments and apparatus.....1963..                             | 254                  | 109              |
|              | 1958..  | 117                  | 112              |
| 3842-        | Orthopedic, prosthetic, and surgical appliances and supplies <sup>2</sup> .....1963.. | 155                  | 104              |
|              | 1958..  | 118                  | 107              |
| 38421        | Surgical, orthopedic, and prosthetic appliances and supplies.....1963..               | 132                  | 113              |
|              | 1958..  | 102                  | 117              |
| 38424        | Electrical and electronic hearing aids.....1963..                                     | 116                  | 105              |
|              | 1958..  | 130                  | 104              |
| 3843-        | Dental equipment and supplies.....1963..  | 134                  | 131              |
|              | 1958..  | 118                  | 118              |
| 3851-        | Ophthalmic goods.....1963..   | 139                  | 126              |
|              | 1958..  | 109                  | 113              |

<sup>1</sup>Not shown because comparable quantity data were not obtained for a significant portion of these products.

<sup>2</sup>Adjusted to include personal industrial safety devices (product class 38423).

TABLE 6C. Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class   | 1963                 | 1962 <sup>1</sup>      | 1961 <sup>1</sup>      | 1960 <sup>1</sup>      | 1959 <sup>1</sup>    | 1958                 | 1954                 | 1947    |
|-------|---|----------------------|------------------------|------------------------|------------------------|----------------------|----------------------|----------------------|---------|
| 3811- | Scientific instruments.....   | 648,551              | <sup>r</sup> 1,085,345 | <sup>r</sup> 1,034,974 | <sup>r</sup> 1,027,416 | <sup>r</sup> 913,133 | <sup>r</sup> 758,639 | <sup>2</sup> 685,495 | (NA)    |
| 38111 | Aircraft flight, nautical and navigational instruments and automatic pilots <sup>3</sup> .....                        | <sup>4</sup> 346,074 | <sup>r</sup> 680,685   | <sup>r</sup> 635,025   | <sup>r</sup> 664,679   | <sup>r</sup> 586,662 | <sup>r</sup> 509,853 | 536,932              | (NA)    |
| 38112 | Laboratory and scientific instruments.....  | <sup>4</sup> 186,101 | 404,660                | 399,949                | 359,867                | 303,288              | 229,060              | 148,563              | (NA)    |
| 38113 | Surveying and drafting instruments and laboratory furniture.....  | 104,045              |                        |                        |                        |                      |                      |                      |         |
| 38110 | Scientific instruments, n.s.k.....  | 12,331               |                        |                        |                        |                      |                      |                      |         |
| 3821- | Mechanical measuring devices.....   | 901,141              | 842,889                | 764,992                | 954,726                | 886,046              | 760,780              | 567,515              | 355,513 |
| 38211 | Aircraft engine instruments, except flight instruments and automatic pilots <sup>3</sup> .....                        | <sup>4</sup> 64,058  | 46,495                 | 49,485                 | 61,565                 | 65,461               | 55,481               | 80,454               | 35,868  |
| 38212 | Integrating meters, nonelectrical type....  | <sup>4</sup> 148,423 | 154,278                | 140,174                | 146,717                | 154,720              | 119,358              | 107,112              | 63,262  |
| 38213 | Industrial process instruments.....   | <sup>4</sup> 467,014 | <sup>4</sup> 369,402   | <sup>4</sup> 338,141   | 500,297                | 443,775              | 403,286              | 280,832              | 168,369 |
| 38214 | Motor vehicle instruments, except electric instruments.....   | 95,776               | 101,057                | 87,338                 | 91,492                 | 87,363               | 70,787               | 47,627               | 39,495  |
| 38216 | Other mechanical measuring and controlling instruments.....   | <sup>4</sup> 107,461 | 151,832                | 134,419                | 131,225                | 117,329              | 92,721               | 51,490               | 48,519  |
| 38210 | Mechanical measuring devices, n.s.k.....  | 18,409               | 19,825                 | 15,435                 | 23,430                 | 17,398               | 19,147               |                      |         |
| 38220 | Automatic temperature controls.....   | <sup>4</sup> 420,744 | 368,409                | 340,975                | 319,422                | 330,239              | 319,855              | 259,669              | 100,640 |
| 3831- | Optical instruments and lenses.....   | 245,705              | 185,155                | 160,911                | 150,555                | 142,219              | 115,481              | 117,574              | 55,134  |
| 38311 | Optical instruments and lenses, except sighting and fire-control equipment.....                                       | <sup>4</sup> 199,210 | (NA)                   | (NA)                   | (NA)                   | (NA)                 | (NA)                 | (NA)                 | (NA)    |
| 38312 | Sighting and fire-control equipment made from lenses, prisms, etc. produced in this plant. (See also code 19410)..... | <sup>4</sup> 49,797  |                        |                        |                        |                      |                      |                      |         |
| 38310 | Optical instruments and lenses, n.s.k....   | 5,698                |                        |                        |                        |                      |                      |                      |         |
| 38410 | Surgical and medical instruments and apparatus.....   | 290,621              | 200,539                | 179,007                | 159,952                | 150,389              | 130,570              | 99,391               | 56,441  |
| 3842- | Surgical appliances and supplies.....   | 461,819              | 477,649                | 445,332                | 463,803                | 443,245              | 362,029              | 285,014              | 192,623 |
| 38421 | Surgical, orthopedic, and prosthetic appliances and supplies.....   | 318,218              | 319,766                | 311,982                | 339,763                | 316,735              | 256,573              | 220,020              | 148,071 |
| 38423 | Personal industrial safety devices.....   | 97,354               | 98,070                 | 73,910                 | 64,607                 | 69,509               | 56,365               | 35,962               | 27,684  |
| 38424 | Electronic hearing aids.....  | 35,285               | 48,359                 | 49,633                 | 49,350                 | 47,219               | 39,517               | 29,032               | 6,868   |
| 38420 | Surgical appliances and supplies, n.s.k....   | 10,962               | (11,454)               | (9,807)                | (10,083)               | (9,782)              | 9,574                | (NA)                 | (NA)    |
| 38430 | Dental instruments, equipment, and supplies..   | 139,532              | 133,953                | 119,584                | 123,825                | 112,611              | 110,680              | 79,482               | 72,060  |
| 38510 | Ophthalmic goods.....   | 244,143              | 119,686                | 176,962                | 185,997                | 177,591              | 167,951              | 136,482              | 106,346 |

Standard Notes: -Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. <sup>1</sup>Revised. n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>The 1954 value of shipments does not include a total for product code 3811000, scientific instruments, n.s.k., estimated at less than \$3 million.

<sup>3</sup>See text for explanation regarding shift from individual instruments to systems.

<sup>4</sup>Source: Current Industrial Reports Series M-38B, Selected Instruments and Related Products.



**TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958**

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area   | Value of shipments |                  | Product class and geographic area                         | Value of shipments |                  | Product class and geographic area   | Value of shipments  |                  |
|---|--------------------|------------------|---|--------------------|------------------|---|---|------------------|
|   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>   | 1958             |
| <b>AIRCRAFT FLIGHT, NAUTICAL, AND NAVIGATIONAL INSTRUMENTS AND AUTOMATIC PILOTS (38111)</b> |                    |                  | <b>AIRCRAFT ENGINE INSTRUMENTS, EXCEPT FLIGHT (38211)</b> |                    |                  | <b>OTHER MECHANICAL MEASURING AND CONTROLLING INSTRUMENTS (38216)</b>   |   |                  |
| United States, total....  | 410,591            | 509,853          | United States, total....                                  | 66,383             | 55,481           | United States, total...   | 117,171   | 92,721           |
| New England.....  | 46,208             | ( <sup>2</sup> ) | New England.....  | 19,796             | 17,093           | New England.....  | 33,715  | ( <sup>2</sup> ) |
| Massachusetts.....  | 31,393             | 16,521           | Middle Atlantic.....                                      | 22,075             | 26,005           | Connecticut.....  | 16,481  | 11,961           |
| Middle Atlantic.....  | 117,382            | ( <sup>2</sup> ) | New York.....   | 12,666             | 17,294           | Middle Atlantic.....  | 16,529  | ( <sup>2</sup> ) |
| New York.....   | 17,258             | 176,313          | North Central.....  | 16,422             | 9,998            | New York.....   | 2,114   | 8,606            |
| New Jersey.....   | 97,891             | ( <sup>2</sup> ) | South and West.....                                       | 8,090              | 2,385            | New Jersey.....   | 7,191   | 5,173            |
| Pennsylvania.....   | 2,233              | ( <sup>2</sup> ) |   |                    |                  | Pennsylvania.....   | 7,224   | ( <sup>2</sup> ) |
| East North Central.....   | 101,076            | ( <sup>2</sup> ) | <b>INTEGRATING METERS, NON-ELECTRICAL TYPE (38212)</b>    |                    |                  | North Central.....  | 46,395  | 31,810           |
| Ohio.....   | 1,619              | ( <sup>2</sup> ) | United States, total....                                  | 163,716            | 119,358          | Ohio.....   | 17,501  | 7,403            |
| Illinois.....   | 12,893             | 14,523           | Northeast.....  | 110,967            | 88,287           | Illinois.....   | 17,826  | 16,827           |
| West North Central.....   | 46,893             | ( <sup>2</sup> ) | New Jersey.....   | 7,538              | ( <sup>2</sup> ) | Wisconsin.....  | 6,428   | ( <sup>2</sup> ) |
| South Atlantic.....   | 23,325             | } 97,922         | Pennsylvania.....   | 54,416             | 42,988           | South.....  | 4,681   | } 15,962         |
| West South Central.....   | 3,949              |                  | North Central.....  | 29,572             |                  | Texas.....  | 3,041   |                  |
| West.....   | 71,758             |                  | South.....  | 9,636              | } 31,071         | West.....   | 15,851  |                  |
| <b>LABORATORY AND SCIENTIFIC INSTRUMENTS (38112)</b>  |                    |                  | Pacific.....  | 13,541             |                  |   | <b>OPTICAL INSTRUMENTS AND LENSES, EXCEPT SIGHTING AND FIRE-CONTROL EQUIPMENT (38311)</b> |                  |
| United States, total....  | 195,138            | 229,060          | California.....   | 13,541             | 12,991           | United States, total....  |   | 212,768          |
| New England.....  | 16,304             | 20,453           | <b>INDUSTRIAL PROCESS INSTRUMENTS (38213)</b>             |                    |                  | New England.....  |   | 54,678           |
| Massachusetts.....  | 9,413              | 16,689           | United States, total....                                  | 522,385            | 403,286          | Middle Atlantic.....  |   | 68,375           |
| Middle Atlantic.....  | 42,225             | 76,559           | New England.....  | 130,729            | 86,847           | New York.....   |   | 53,375           |
| New York.....   | 9,923              | 35,114           | Massachusetts.....  | 81,080             | 45,555           | New Jersey.....   |   | 5,102            |
| New Jersey.....   | 11,319             | 18,893           | Connecticut.....  | 39,476             | ( <sup>2</sup> ) | Pennsylvania.....   |   | 9,898            |
| Pennsylvania.....   | 20,983             | 22,552           | Middle Atlantic.....                                      | 212,559            | 160,732          | East North Central.....   |   | 15,701           |
| East North Central.....   | 38,581             | 68,797           | New York.....   | 55,882             | 50,381           | Ohio.....   |   | 3,964            |
| Ohio.....   | 4,099              | ( <sup>2</sup> ) | New Jersey.....   | 18,365             | 15,342           | Illinois.....   |   | 10,636           |
| Illinois.....   | 27,817             | 19,642           | Pennsylvania.....   | 138,312            | 95,009           | West North Central.....   |   | 1,620            |
| Michigan.....   | 5,222              | 18,111           | East North Central.....                                   | 103,331            | 97,963           | South.....  |   | 4,764            |
| West North Central.....   | 2,756              | 4,208            | Ohio.....   | 39,130             | 42,723           | Florida.....  |   | 2,684            |
| South.....  | 28,670             | 32,543           | Indiana.....  | 6,432              | 2,275            | West.....   |   | 67,630           |
| Maryland.....   | 16,899             | 8,797            | Illinois.....   | 44,828             | 38,874           | California.....   |   | 66,505           |
| Texas.....  | 8,866              | 14,269           | Michigan.....   | 7,096              | 10,025           | <b>SIGHTING AND FIRE-CONTROL EQUIPMENT MADE FROM LENSES, PRISMS, ETC., PRODUCED IN THIS PLANT (SEE ALSO CODE 19410) (38312)</b> |   |                  |
| Mountain.....   | 4,345              | } 26,500         | Wisconsin.....  | 5,845              | 4,066            | United States, total....  |   | 51,062           |
| Pacific.....  | 62,257             |                  | West North Central.....                                   | 14,575             | 5,410            | Northeast.....  |   | 23,939           |
| <b>SURVEYING AND DRAFTING INSTRUMENTS AND LABORATORY FURNITURE (38113)</b>                  |                    |                  | Minnesota.....  | 3,432              | ( <sup>2</sup> ) | North Central.....  |   | 4,295            |
| United States, total....  |                    | 104,045          | Iowa.....   | 8,641              | 4,601            | South and West.....   |   | 22,828           |
| New England.....  |                    | 4,402            | South.....  | 21,110             | 20,048           | <b>MOTOR VEHICLE INSTRUMENTS, EXCEPT ELECTRIC (38214)</b>   |   |                  |
| Massachusetts.....  |                    | 2,266            | Maryland.....   | 1,494              | 1,171            | United States, total....  |   | 95,776           |
| Middle Atlantic.....  |                    | 29,216           | Florida.....  | 1,503              | ( <sup>2</sup> ) | United States, total....  | 290,621   | 130,570          |
| New York.....   |                    | 10,968           | Oklahoma.....   | 3,507              | 4,665            | New England.....  | 30,041  | 14,991           |
| New Jersey.....   |                    | 16,657           | Texas.....  | 5,777              | 4,786            | Massachusetts.....  | 11,445  | 7,284            |
| Pennsylvania.....   |                    | 1,591            | West.....   | 40,081             | 32,286           | Connecticut.....  | 17,672  | 7,274            |
| North Central.....  |                    | 33,306           | <b>MOTOR VEHICLE INSTRUMENTS, EXCEPT ELECTRIC (38214)</b> |                    |                  | Middle Atlantic.....  | 84,398  | 56,512           |
| Illinois.....   |                    | 3,460            | United States, total....                                  |                    |                  | New York.....   | 45,591  | 26,024           |
| Michigan.....   |                    | 14,480           | Northeast.....  |                    |                  | New Jersey.....   | 24,344  | 23,314           |
| Wisconsin.....  |                    | 13,347           | New York.....   |                    |                  | Pennsylvania.....   | 14,463  | 7,174            |
| South.....  |                    | 29,570           | North Central.....  |                    |                  |   |   |                  |
| Maryland.....   |                    | 1,130            | Illinois.....   |                    |                  |   |   |                  |
| Texas.....  |                    | 3,672            | Michigan.....   |                    |                  |   |   |                  |
| West.....   |                    | 7,551            | South and West.....                                       |                    |                  |   |   |                  |

See footnotes at end of table.





TABLE 7A. Materials by Kind: 1963 and 1958

| Code  | Material  | Unit of measure             | 1963     |                          | 1958     |                          |
|---|---|-----------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                             | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3811.—SCIENTIFIC INSTRUMENTS       |   |                             |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....  |                             | (X)      | 166,172                  | (X)      | <sup>r</sup> 294,801     |
|   | Mill shapes and forms (except castings):  |                             |          |                          |          |                          |
|   | Carbon steel:   |                             |          |                          |          |                          |
| 331011                                      | Bars and bar shapes.....  | Short tons.....             | 1,410    | 401                      | 5,043    | 1,029                    |
| 331012                                      | Sheet and strip.....  | ..do.....                   | 14,455   | 2,415                    | 19,673   | 3,192                    |
| 331013                                      | Plates.....   | ..do.....                   | (1)      | (1)                      | (1)      | (1)                      |
| 331015                                      | Structural shapes.....  | ..do.....                   | 417      | 97                       | 5,142    | 1,031                    |
| 331017                                      | Wire and wire products.....   | ..do.....                   | (1)      | (1)                      | (1)      | (1)                      |
| 331019                                      | All other carbon steel mill shapes and forms.....   | ..do.....                   | 14,642   | 1,774                    | 12,172   | 1,673                    |
|   | Alloy steel (except stainless):   |                             |          |                          |          |                          |
| 331021                                      | Bars and bar shapes.....  | ..do.....                   | 352      | 176                      | 2,773    | 1,437                    |
| 331029                                      | All other alloy steel mill shapes and forms.....  | ..do.....                   | 540      | 354                      |          |                          |
| 331031                                      | Stainless steel.....  | ..do.....                   | 1,345    | 1,946                    | 1,821    | 2,951                    |
|   | Copper and copper-base alloy:   |                             |          |                          |          |                          |
| 335728                                      | Bare wire (for electrical conduction only).....   | 1,000 lbs.....              | 121      | 178                      | (NA)     | 847                      |
| 335790                                      | Insulated wire and cable.....   | 1,000 lbs. (copper content) | 763      | 485                      | 3,810    | 3,721                    |
| 335102                                      | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.....              | 508      | 259                      | 1,279    | 761                      |
| 335123                                      | Plate, sheet, and strip (including military cups and discs)....                                       | ..do.....                   | 130      | 111                      |          |                          |
| 335127                                      | Pipe and tube.....  | ..do.....                   | 191      | 135                      |          |                          |
|   | Aluminum and aluminum-base alloy:   |                             |          |                          |          |                          |
| 335202                                      | Sheet, plate, and foil.....   | ..do.....                   | 1,109    | 776                      | 933      | 776                      |
| 335205                                      | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)                                       | ..do.....                   | 398      | 352                      | 1,428    | 1,397                    |
| 335209                                      | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ..do.....                   | 500      | 423                      |          |                          |
|   | Castings (rough and semifinished):  |                             |          |                          |          |                          |
| 332300                                      | Steel.....  | Short tons.....             | 613      | 416                      | 1,453    | 1,563                    |
| 336100                                      | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....              | 3,405    | 2,950                    | 2,920    | 4,729                    |
| 336200                                      | Copper and copper-base alloy.....   | ..do.....                   | 498      | 380                      | 596      | 614                      |
| 362110                                      | Fractional horsepower electric motors (under 1 hp.):  |                             |          |                          |          |                          |
| 362115                                      | Timing motors, synchronous and subsynchronous.....  | Thousands.....              | 64       | 2,814                    | 220      | 10,314                   |
|   | Other fractional horsepower electric motors (excluding timing motors).....                            | ..do.....                   | 94       | 3,216                    | 54       | 1,834                    |
|   | Bearings:   |                             |          |                          |          |                          |
| 356218                                      | Ball.....   | .....                       | (X)      | 2,161                    | (X)      | 6,239                    |
| 356228                                      | Roller.....   | .....                       |          |                          |          |                          |
| 367101                                      | Electron tubes, except X-ray.....   | 1,000 units.....            | 101      | 283                      | 1,289    | 4,062                    |
| 367408                                      | Solid state semiconductors.....   | ..do.....                   | 4,628    | 3,742                    | 1,648    | 10,548                   |
| 970099                                      | All other materials and components, parts, containers, and supplies consumed.....                     | .....                       | (X)      | 109,547                  | (X)      | <sup>r</sup> 214,869     |
| 976000                                      | Materials, parts, containers, and supplies, n.s.k.....  | .....                       | (X)      | <sup>2</sup> 31,781      | (X)      | 22,214                   |
| INDUSTRY 3821.—MECHANICAL MEASURING DEVICES |   |                             |          |                          |          |                          |
|   | Materials, parts, containers, and supplies, total.....  |                             | (X)      | 358,337                  | (X)      | 224,473                  |
|   | Mill shapes and forms (except castings):  |                             |          |                          |          |                          |
|   | Carbon steel:   |                             |          |                          |          |                          |
| 331011                                      | Bars and bar shapes.....  | Short tons.....             | 12,670   | 3,490                    | 9,519    | 2,559                    |
| 331012                                      | Sheet and strip.....  | ..do.....                   | 19,297   | 4,620                    | 12,316   | 2,804                    |
| 331013                                      | Plates.....   | ..do.....                   | 3,470    | 769                      | 3,273    | 671                      |
| 331015                                      | Structural shapes.....  | ..do.....                   | 1,417    | 371                      | 2,224    | 580                      |
| 331017                                      | Wire and wire products.....   | ..do.....                   | 1,817    | 1,005                    | (NA)     | 828                      |
| 331019                                      | All other carbon steel mill shapes and forms.....   | ..do.....                   | 2,308    | 1,562                    | 6,819    | 1,178                    |
|   | Alloy steel (except stainless):   |                             |          |                          |          |                          |
| 331021                                      | Bars and bar shapes.....  | ..do.....                   | 438      | 397                      | 1,215    | 700                      |
| 331029                                      | All other alloy steel mill shapes and forms.....  | ..do.....                   | 1,411    | 1,193                    | 2,695    | 1,286                    |
| 331031                                      | Stainless steel.....  | ..do.....                   | 3,003    | 4,886                    | 2,544    | 4,026                    |
|   | Copper and copper-base alloy:   |                             |          |                          |          |                          |
| 335728                                      | Bare wire (for electrical conduction only).....   | 1,000 lbs.....              | 4,831    | 2,292                    | 974      | 933                      |
| 335790                                      | Insulated wire and cable.....   | 1,000 lbs. (copper content) |          |                          |          |                          |
| 335102                                      | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                            | 1,000 lbs.....              | 10,286   | 4,692                    | 11,974   | 6,925                    |
| 335123                                      | Plate, sheet, and strip (including military cups and discs)....                                       | ..do.....                   | 6,660    | 3,716                    |          |                          |
| 335127                                      | Pipe and tube.....  | ..do.....                   | 6,803    | 2,437                    |          |                          |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material   | Unit of measure             | 1963  |                          | 1958     |                          |
|--|--|-----------------------------|---|--------------------------|----------|--------------------------|
|  |  |                             | Quantity  | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| Mill shapes and forms (except castings)—Continued      |  |                             | INDUSTRY 3821.—MECHANICAL MEASURING DEVICES—Continued |                          |          |                          |
| Aluminum and aluminum-base alloy:                      |  |                             |   |                          |          |                          |
| 335205   | Sheet, plate and foil.....   | 1,000 lbs.....              | 997   | 792                      | 1,144    | 770                      |
| 335209   | Extruded shapes, (including extruded rod, bar, pipe, tube, etc.).....                                  | ...do.....                  | 950   | 959                      | 1,265    | 787                      |
|  | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, welded tubing, etc.).....  | ...do.....                  | 4,057   | 2,571                    |          |                          |
| Castings (rough and semifinished):                     |  |                             |   |                          |          |                          |
| 332300   | Steel.....   | Short tons....              | 5,404   | 5,990                    | 8,033    | 5,138                    |
| 336100   | Aluminum and aluminum base alloy.....  | 1,000 lbs.....              | 16,971  | 12,512                   | 10,552   | 8,064                    |
| 336200   | Copper and copper-base alloy.....  | ...do.....                  | 16,093  | 11,545                   | 12,411   | 8,719                    |
| Fractional horsepower electric motors (under 1 hp.):   |  |                             |   |                          |          |                          |
| 362110   | Timing motors, synchronous and subsynchronous.....   | 1,000 units....             | 207   | 3,244                    | 98       | 1,414                    |
| 362115   | Other fractional horsepower electric motors (excluding timing motors).....                             | ...do.....                  | 134   | 1,290                    | 83       | 958                      |
| Bearings:  |  |                             |   |                          |          |                          |
| 356218   | Ball.....  | .....                       | (X)   | 821                      | (X)      | 530                      |
| 356228   | Roller.....  | .....                       | (X)   | 84                       |          |                          |
| 367010   | Electron tubes, except X-ray.....  | 1,000 units....             | 1,789   | 2,470                    | 729      | 1,431                    |
| 367408   | Solid state semiconductors.....  | ...do.....                  | 2,468   | 4,795                    | 376      | 1,568                    |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....                      | .....                       | (X)   | 231,620                  | (X)      | 155,241                  |
| 976000   | Materials, parts, containers and supplies, n.s.k.....  | .....                       | (X)   | 248,214                  | (X)      | 16,126                   |
|  |  |                             | INDUSTRY 3822.—AUTOMATIC TEMPERATURE CONTROLS         |                          |          |                          |
| Materials, parts, containers, and supplies, total..... |  |                             | (X)   | 141,812                  | (X)      | 90,286                   |
| Mill shapes and forms (except castings):               |  |                             |   |                          |          |                          |
| Carbon steel:  |  |                             |   |                          |          |                          |
| 331011   | Bars and bar shapes.....   | Short tons....              | 3,628   | 1,557                    | 3,643    | 819                      |
| 331012   | Sheet and strip.....   | ...do.....                  | 20,053  | 5,004                    | 12,391   | 2,511                    |
| 331013   | Plates.....  | ...do.....                  | (3)   | (3)                      | (NA)     | (NA)                     |
| 331015   | Structural shapes.....   | ...do.....                  | 355   | 82                       | (NA)     | (NA)                     |
| 331017   | Wire and wire products.....  | ...do.....                  | 872   | 477                      | (NA)     | (NA)                     |
| 331019   | All other carbon steel mill shapes and forms.....  | ...do.....                  | 31,457  | 31,043                   | (NA)     | (NA)                     |
| Alloy steel (except stainless):                        |  |                             |   |                          |          |                          |
| 331021   | Bars and bar shapes.....   | ...do.....                  | 194   | 297                      | 2,650    | 1,061                    |
| 331029   | All other alloy steel mill shapes and forms.....   | ...do.....                  | 294   | 357                      |          |                          |
| 331031   | Stainless steel.....   | ...do.....                  | 2,237   | 3,675                    | 1,213    | 1,806                    |
| Copper and copper-base alloy:                          |  |                             |   |                          |          |                          |
| 335728   | Bare wire (for electrical conduction only).....  | 1,000 lbs.....              | 302   | 261                      | 1,014    | 796                      |
| 335790   | Insulated wire and cable.....  | 1,000 lbs. (copper content) | 2,262   | 1,744                    | 1,491    | 1,367                    |
| 335102   | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                             | 1,000 lbs.....              | 14,118  | 6,289                    | 14,026   | 8,882                    |
| 335123   | Plate, sheet, and strip (including military cups and discs)...   | ...do.....                  | 5,404   | 3,617                    |          |                          |
| 335127   | Pipe and tube.....   | ...do.....                  | 4,066   | 3,576                    |          |                          |
| Aluminum and aluminum-base alloy:                      |  |                             |   |                          |          |                          |
| 335202   | Sheet, plate and foil.....   | ...do.....                  | 1,102   | 833                      | 2,440    | 1,419                    |
| 335205   | Extruded shapes (including extruded rod, bar, pipe, tube, etc.).....                                   | ...do.....                  | 2,312   | 1,455                    |          |                          |
| 335209   | All other aluminum mill shapes and forms, (wire, rolled rod and bar, powder, welded tubing, etc.)..... | ...do.....                  | 4,684   | 1,199                    |          |                          |
| Castings (rough and semifinished):                     |  |                             |   |                          |          |                          |
| 332300   | Steel.....   | Short tons....              | 724   | 472                      | 1,189    | 629                      |
| 336100   | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....              | 7,776   | 5,133                    | 5,120    | 3,440                    |
| 336200   | Copper and copper-base alloy.....  | ...do.....                  | 5,277   | 2,563                    | 2,535    | 1,582                    |
| Fractional horsepower electric motors (under 1 hp.):   |  |                             |   |                          |          |                          |
| 362110   | Timing motors, synchronous and subsynchronous.....   | Number.....                 | 3,513   | 2,704                    | 1,056    | 1,275                    |
| 362115   | Other fractional horsepower electric motors (excluding timing motors).....                             | ...do.....                  | 29  | 452                      |          |                          |
| Bearings:  |  |                             |   |                          |          |                          |
| 356218   | Ball.....  | .....                       | (X)   | 111                      | (NA)     | (NA)                     |
| 356228   | Roller.....  | .....                       | (X)   | 111                      | (NA)     | (NA)                     |
| 367010   | Electron tubes, except X-ray.....  | 1,000 units....             | (D)   | (D)                      | 248      | 231                      |
| 367408   | Solid state semiconductors.....  | ...do.....                  | (D)   | (D)                      |          |                          |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....                      | .....                       | (X)   | 95,769                   | (X)      | 51,342                   |
| 976000   | Materials, parts, containers and supplies, n.s.k.....  | .....                       | (X)   | 3,142                    | (X)      | 13,126                   |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material  | Unit of measure             | 1963     |                          | 1958     |                          |
|---|---|-----------------------------|----------|--------------------------|----------|--------------------------|
|   |   |                             | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3831.—OPTICAL INSTRUMENTS AND LENSES   |   |                             |          |                          |          |                          |
|   | Materials, parts, containers and supplies, total.....   |                             | (X)      | 53,059                   | (X)      | 26,999                   |
|   | Mill shapes and forms (except castings):  |                             |          |                          |          |                          |
|   | Carbon steel:   |                             |          |                          |          |                          |
| 331011  | Bars and bar shapes.....  | Short tons.....             | }        | 1,310                    | }        | (NA)                     |
| 331019  | All other carbon steel mill shapes and forms.....   | do.....                     |          |                          |          | (NA)                     |
| 331021  | Alloy steel (except stainless):   |                             |          |                          |          |                          |
| 331029  | Bars and bar shapes.....  | do.....                     | }        | 1,640                    | }        | (NA)                     |
|   | All other alloy steel mill shapes and forms.....  | do.....                     |          |                          |          | (NA)                     |
|   | Copper and copper-base alloy:   |                             |          |                          |          |                          |
| 331031  | Stainless steel.....  | do.....                     | }        | (D)                      | }        | (NA)                     |
| 335790  | Insulated wire and cable.....   | 1,000 lbs. (copper content) |          |                          |          | (D)                      |
| 335102  | Rod, bar, and mechanical wire including extruded and/or drawn shapes.....                             | 1,000 lbs.....              | }        | 222                      | }        | (NA)                     |
| 335123  | Plate, sheet, and strip (including military cups and discs)....                                       | do.....                     |          |                          |          | (NA)                     |
| 335127  | Pipe and tube.....  | do.....                     |          |                          |          | (NA)                     |
|   | Aluminum and aluminum-base alloy:   |                             |          |                          |          |                          |
| 335202  | Sheet, plate and foil.....  | do.....                     | 221      | 148                      | (NA)     | (NA)                     |
| 335205  | Extruded shapes (including extruded rod, bar, pipe, tube, etc.)                                       | do.....                     | 474      | 414                      | (NA)     | (NA)                     |
| 335209  | All other aluminum mill shapes and forms, (wire rolled rod and bar, powder, welded tubing, etc.)..... | do.....                     | 34       | 25                       | (NA)     | (NA)                     |
|   | Castings (rough and semifinished):  |                             |          |                          |          |                          |
| 332011  | Iron (gray and malleable).....  | Short tons.....             | (D)      | (D)                      | (NA)     | (NA)                     |
| 332300  | Steel.....  | do.....                     | (D)      | (D)                      | (NA)     | (NA)                     |
| 336100  | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....              | 457      | 806                      | (NA)     | (NA)                     |
| 336200  | Copper and copper-base alloy.....   | do.....                     | (D)      | (D)                      | (NA)     | (NA)                     |
|   | Forgings:   |                             |          |                          |          |                          |
| 339100  | Iron and steel.....   | Short tons.....             | (D)      | (D)                      | (NA)     | (NA)                     |
|   | Fractional horsepower electric motors (under 1 hp.):  |                             |          |                          |          |                          |
| 362110  | Timing motors, synchronous and subsynchronous.....  | Thousands.....              | 4        | 40                       | (NA)     | (NA)                     |
| 362115  | Other fractional horsepower electric motors (excluding timing motors).....                            | do.....                     | 4        | 99                       | (NA)     | (NA)                     |
|   | Bearings:   |                             |          |                          |          |                          |
| 356218  | Ball.....   |                             | (X)      | 87                       | (NA)     | (NA)                     |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                     |                             | (X)      | 34,295                   | (NA)     | (NA)                     |
| 976000  | Materials, parts, containers and supplies, n.s.k.....   |                             | (X)      | 215,302                  | (NA)     | (NA)                     |
| INDUSTRY 3842.—SURGICAL APPLIANCES AND SUPPLIES |   |                             |          |                          |          |                          |
|   | Materials, parts, containers and supplies, total.....   |                             | (X)      | 175,762                  | (X)      | 155,048                  |
| 209131  | Cotton linters (net weight).....  | 1,000 lbs.....              | 2,287    | 519                      | (NA)     | (NA)                     |
| 221101  | Cotton broad woven fabrics (piece goods).....   | 1,000 linear yds.....       | 94,975   | 7,115                    | (NA)     | (NA)                     |
| 220149  | Other broad woven fabrics (piece goods).....  | do.....                     | 2,383    | 1,790                    | (NA)     | (NA)                     |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                     |                             | (X)      | 144,482                  | (NA)     | (NA)                     |
| 976000  | Materials, parts, containers and supplies, n.s.k.....   |                             | (X)      | 21,856                   | (NA)     | (NA)                     |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind. Revised.

<sup>1</sup>For 1958 and 1963 material codes 331013 and 331017 are included with 331019 to avoid disclosing figures of individual companies.

<sup>2</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

<sup>3</sup>For 1963, 331013 combined with 331019.

TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Scientific instruments (SIC 3811) | Mechanical measuring devices (SIC 3821) | Automatic temperature controls (SIC 3822) | Optical instruments and lenses (SIC 3831) | Surgical and medical instruments (SIC 3841) | Surgical appliances and supplies (SIC 3842) | Dental equipment and supplies (SIC 3843) | Ophthalmic goods (SIC 3851) |
|---|-----------------------------------|---|---|---|---|---|--|-----------------------------|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 8,330                             | 7,173                                   | 3,360                                     | 846                                       | 1,377                                       | 3,858                                       | 875                                      | 2,443                       |
| Total cost of purchased fuels.....do....  | 2,079                             | 2,252                                   | 1,117                                     | 222                                       | 504   | 1,565                                       | 371                                      | 1,077                       |
| Bituminous coal, lignite, and anthracite:   |                                   |   |   |   |   |   |  |                             |
| Quantity.....1,000 short tons..   | 7                                 | 15                                      | (S)                                       | (S)                                       | (S)   | 10  | (S)                                      | (S)                         |
| Cost.....\$1,000..  | 66                                | 162                                     | (S)                                       | (S)                                       | (S)   | 81  | (S)                                      | (S)                         |
| Coke and breeze:  |                                   |   |   |   |   |   |  |                             |
| Quantity.....1,000 short tons..   | -                                 | -                                       | -   | -   | -   | -   | (S)                                      | (S)                         |
| Cost.....\$1,000..  | -                                 | -                                       | -   | -   | -   | -   | (S)                                      | (S)                         |
| Fuel oil (distillate and residual):   |                                   |   |   |   |   |   |  |                             |
| Quantity.....1,000 barrels of 42 gallons..  | 234                               | 303                                     | 101                                       | 35  | 46  | 197   | 34                                       | 126                         |
| Cost.....\$1,000..  | 798                               | 1,011                                   | 360                                       | 139                                       | 177   | 718   | 122                                      | 370                         |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |                                   |   |   |   |   |   |  |                             |
| Quantity.....million cu.ft..  | 1,596                             | 1,538                                   | 1,164                                     | 134                                       | 294   | (S)   | 144                                      | 958                         |
| Cost.....\$1,000..  | 958                               | 924                                     | 713                                       | 41  | 204   | (S)   | 131                                      | 422                         |
| Other fuels.....do....  | 257                               | 155                                     | (S)                                       | (S)                                       | (S)   | 92  | 107                                      | 276                         |
| Electric energy:  |                                   |   |   |   |   |   |  |                             |
| Purchased:  |                                   |   |   |   |   |   |  |                             |
| Quantity.....million kw.-hrs..  | 490                               | 311                                     | 178                                       | 36  | 46  | 146   | 27                                       | 78                          |
| Cost.....\$1,000..  | 6,251                             | 4,921                                   | 2,243                                     | 624                                       | 873   | 2,293                                       | 504                                      | 1,366                       |
| Generated less sold.....million kw.-hrs..   | (S)                               | (S)                                     | -   | -   | -   | (S)   | -  | 25                          |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 136                               | 161                                     | 50  | 12  | 18  | 59  | 17                                       | 45                          |
| Prime movers, total.....do....  | 11                                | 10                                      | 3   | 1   | 1   | 4   | (Z)                                      | 15                          |
| Driving generators.....do....   | 8                                 | 4                                       | (Z)                                       | (Z)                                       | (Z)   | 1   | (Z)                                      | 15                          |
| Not driving generators.....do....   | 3                                 | 6                                       | 3   | 1   | 1   | 3   | (Z)                                      | (Z)                         |
| Electric motors, total.....do....   | 125                               | 152                                     | 47  | 11  | 17  | 54  | 17                                       | 34                          |
| Driven by purchased energy.....do....   | 125                               | 150                                     | 47  | 11  | 17  | 54  | 17                                       | 30                          |
| Driven by energy generated at establishment.....do....  | (Z)                               | 2                                       | -   | -   | -   | (Z)   | -  | 4                           |
| Aggregate horsepower per 100 production workers.....  | 242                               | 390                                     | 266                                       | 204                                       | 195   | 335   | 332                                      | 253                         |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.



**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3811-                          | SCIENTIFIC INSTRUMENTS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 594                     | 33,084         | 208,171           | 22,184             | 44,584            | 119,836         | 358,588  | 200,034                     | 553,920                      | 16,244                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 508                     | 20,305         | 128,444           | 14,449             | 28,696            | 78,704          | 225,162  | 130,858                     | 358,570                      | 10,292                              |
|                                | 75-89% specialization.....  | 23                      | 2,001          | 10,192            | 1,307              | 2,720             | 5,543           | 18,569   | 13,042                      | 30,803                       | 524                                 |
| 38111                          | Aircraft flight, nautical, and navigational instruments and automatic pilots (primary product class of estab.)..... | 80                      | 15,490         | 110,670           | 9,386              | 18,768            | 58,474          | 181,817  | 73,717                      | 253,458                      | 7,348                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 45                      | 8,457          | 61,457            | 5,494              | 10,904            | 35,261          | 101,854  | 46,709                      | 150,908                      | 4,956                               |
|                                | 75-89% specialization.....  | 10                      | 734            | 4,395             | 432                | 845               | 2,051           | 7,149  | 4,641                       | 12,100                       | 81                                  |
| 38112                          | Laboratory and scientific instruments (primary product class of estab.).....  | 205                     | 8,048          | 49,253            | 5,657              | 11,225            | 30,309          | 95,386   | 59,992                      | 154,360                      | 4,325                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 173                     | 6,046          | 37,982            | 4,380              | 8,648             | 23,756          | 70,366   | 42,871                      | 114,306                      | 2,943                               |
|                                | 75-89% specialization.....  | 10                      | 331            | 1,845             | 247                | 493               | 1,229           | 3,031  | 1,916                       | 4,952                        | 45                                  |
| 38113                          | Surveying and drafting instruments and laboratory furniture (primary product class of estab.).....                  | 102                     | 8,400          | 42,195            | 6,311              | 12,965            | 27,290          | 72,110   | 58,465                      | 129,157                      | 4,197                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 77                      | 4,154          | 20,836            | 3,176              | 6,346             | 13,318          | 39,289   | 31,318                      | 70,534                       | 1,847                               |
|                                | 75-89% specialization.....  | 11                      | 1,524          | 7,005             | 1,230              | 2,602             | 5,063           | 11,374   | 10,056                      | 19,920                       | 518                                 |
| 3821-                          | MECHANICAL MEASURING DEVICES  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 670                     | 62,353         | 388,874           | 40,383             | 81,510            | 222,826         | 732,529  | 415,855                     | 1,143,416                    | 30,914                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 539                     | 32,022         | 194,814           | 20,432             | 40,424            | 110,080         | 394,801  | 208,910                     | 598,749                      | 17,639                              |
|                                | 75-89% specialization.....  | 36                      | 8,348          | 53,521            | 5,726              | 11,712            | 31,736          | 95,453   | 54,506                      | 148,906                      | 2,362                               |
| 38211                          | Aircraft engine instruments, except flight (primary product class of estab.).....                                   | 15                      | 5,299          | 34,675            | 3,317              | 6,845             | 17,889          | 55,442   | 27,816                      | 83,496                       | 1,942                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 7                       | 288            | 1,596             | 214                | 435               | 1,066           | 2,245  | 1,883                       | 4,084                        | 177                                 |
| 38212                          | Integrating meters, nonelectric type (primary product class of estab.).....   | 33                      | 6,476          | 39,082            | 4,925              | 9,835             | 26,292          | 108,848  | 65,854                      | 174,806                      | 2,629                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 24                      | 4,406          | 27,182            | 3,258              | 6,453             | 17,629          | 77,936   | 44,870                      | 121,328                      | 1,774                               |
| 38213                          | Industrial process instruments (primary product class of estab.).....   | 287                     | 33,396         | 210,483           | 20,024             | 40,187            | 111,876         | 410,836  | 189,194                     | 593,962                      | 16,497                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 214                     | 18,000         | 112,082           | 11,364             | 22,421            | 63,188          | 225,359  | 106,432                     | 329,811                      | 8,867                               |
|                                | 75-89% specialization.....  | 24                      | 4,484          | 27,249            | 2,171              | 4,235             | 10,245          | 45,627   | 20,786                      | 64,282                       | 4,139                               |
| 38214                          | Motor vehicle instruments, except electric (primary product class of estab.).....                                   | 24                      | 7,981          | 52,971            | 6,546              | 13,604            | 39,653          | 85,078   | 73,205                      | 156,943                      | 3,804                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 13                      | 223            | 903               | 189                | 308               | 671             | 2,580  | 1,691                       | 4,195                        | 58                                  |
| 38216                          | Other mechanical measuring and controlling instruments (primary product class of estab.).....                       | 86                      | 7,686          | 43,565            | 4,430              | 8,618             | 21,085          | 57,595   | 52,342                      | 112,363                      | 4,008                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 55                      | 3,264          | 19,828            | 2,055              | 4,010             | 10,368          | 27,186   | 18,175                      | 44,745                       | 1,814                               |
|                                | 75-89% specialization.....  | 11                      | 803            | 5,084             | 406                | 778               | 2,026           | 7,867  | 3,326                       | 10,658                       | 211                                 |
| 3822-                          | AUTOMATIC TEMPERATURE CONTROLS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 104                     | 31,685         | 192,301           | 22,299             | 45,459            | 122,154         | 379,091  | 158,091                     | 527,358                      | 10,523                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 82                      | 20,392         | 125,388           | 14,621             | 29,720            | 80,923          | 251,200  | 102,161                     | 347,614                      | 6,722                               |

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3831-                          | OPTICAL INSTRUMENTS AND LENSES   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 280                     | 11,924         | 79,131            | 8,306              | 16,728            | 47,149          | 131,917  | 66,557                      | 196,022                      | 6,163                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 244                     | 8,015          | 53,559            | 5,549              | 11,126            | 31,590          | 92,880   | 44,939                      | 135,335                      | 4,523                               |
|                                | 75-89% specialization.....   | 7                       | 2,096          | 13,343            | 1,472              | 2,939             | 8,062           | 19,812   | 9,548                       | 29,463                       | 999                                 |
| 38311                          | Optical instruments and lenses, except sighting and fire-control equipment (primary product class of estab.).....            | 144                     | 9,182          | 62,640            | 6,226              | 12,664            | 36,570          | 104,027  | 46,754                      | 148,444                      | 5,063                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 118                     | 5,631          | 39,859            | 3,739              | 7,583             | 22,849          | 68,582   | 29,672                      | 96,853                       | 3,536                               |
|                                | 75-89% specialization.....   | 8                       | 1,403          | 8,536             | 996                | 1,986             | 5,216           | 12,083   | 4,748                       | 16,741                       | 326                                 |
| 38312                          | Sighting and fire-control equipment made from lenses, prisms, etc., produced in this plant (primary product class of estab.) | 13                      | 2,224          | 13,674            | 1,671              | 3,269             | 8,517           | 22,476   | 17,961                      | 40,334                       | 784                                 |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 6                       | 849            | 4,822             | 597                | 1,091             | 2,440           | 9,300  | 9,298                       | 17,882                       | 233                                 |
| 3841-                          | SURGICAL AND MEDICAL INSTRUMENTS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 294                     | 15,145         | 83,332            | 11,538             | 22,916            | 52,520          | 168,556  | 126,856                     | 284,014                      | 10,514                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 252                     | 9,451          | 48,677            | 7,517              | 15,001            | 32,747          | 120,258  | 66,608                      | 178,789                      | 7,653                               |
|                                | 75-89% specialization.....   | 11                      | 2,578          | 17,533            | 1,925              | 3,775             | 9,969           | 21,208   | 35,849                      | 55,390                       | 1,111                               |
| 3842-                          | SURGICAL APPLIANCES AND SUPPLIES   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 704                     | 28,267         | 161,800           | 18,987             | 37,904            | 85,790          | 370,273  | 230,054                     | 596,666                      | 17,831                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 639                     | 15,876         | 80,601            | 11,580             | 22,734            | 48,258          | 173,166  | 109,855                     | 282,125                      | 7,473                               |
|                                | 75-89% specialization.....   | 17                      | 4,300          | 28,487            | 2,720              | 5,606             | 16,350          | 89,144   | 57,681                      | 144,629                      | 4,774                               |
| 38421                          | Surgical, orthopedic and prosthetic appliances and supplies (primary product class of estab.)                                | 441                     | 18,971         | 114,219           | 12,558             | 24,841            | 57,943          | 276,779  | 160,400                     | 435,401                      | 15,004                              |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 388                     | 10,843         | 55,569            | 7,897              | 15,520            | 33,258          | 121,320  | 72,312                      | 193,826                      | 5,758                               |
|                                | 75-89% specialization.....   | 21                      | 2,801          | 19,200            | 2,054              | 4,180             | 12,800          | 69,578   | 41,990                      | 109,581                      | 4,479                               |
| 38423                          | Personal industrial safety devices (primary product class of estab.)   | 75                      | 6,187          | 32,659            | 4,346              | 8,884             | 19,078          | 60,148   | 50,709                      | 108,817                      | 1,877                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 50                      | 2,746          | 13,250            | 2,052              | 3,995             | 7,886           | 23,331   | 21,558                      | 43,791                       | 785                                 |
| 38424                          | Electric hearing aids (primary product class of estab.).....   | 20                      | 1,888          | 9,887             | 1,151              | 2,360             | 5,312           | 24,738   | 15,482                      | 40,464                       | 642                                 |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 17                      | 1,202          | 6,738             | 805                | 1,636             | 3,790           | 19,051   | 10,359                      | 29,482                       | 576                                 |
| 3851-                          | OPHTHALMIC GOODS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 229                     | 20,296         | 96,361            | 16,467             | 32,771            | 68,954          | 177,898  | 96,611                      | 272,687                      | 9,085                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 216                     | 13,834         | 60,821            | 11,652             | 23,038            | 44,888          | 131,474  | 68,575                      | 198,673                      | 5,935                               |



TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations                           | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|---|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|   | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|   |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3811.--SCIENTIFIC INSTRUMENTS            |                          |   |         |            |                                       |   |         |            |
| Nonferrous foundry (except die casting).....      | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Electroplating and other plating.....             | 24                       | 18  | 6       | 1          | 72                                    | 30  | 42      | -          |
| Heat treating of metals.....                      | 16                       | 14  | 1       | 1          | 132                                   | (D)                                       | (D)     | (D)        |
| Automatic screw machine department.....           | 22                       | 15  | 7       | -          | 110                                   | 33  | 77      | -          |
| Machine shop.....                                 | 191                      | 72  | 79      | 40         | 3,081                                 | 154                                       | 693     | 2,234      |
| Tool and die shop.....                            | 50                       | 37  | 9       | 4          | 280                                   | 62  | 81      | 137        |
| Foundry pattern shop.....                         | 5                        | 5   | -       | -          | 6                                     | 6   | -       | -          |
| Stamping, blanking and forming of metals.....     | 76                       | 51  | 18      | 7          | 590                                   | 82  | 168     | 340        |
| Painting, lacquering and enameling on metals..... | 98                       | 81  | 13      | 4          | 333                                   | 120                                       | 113     | 100        |
| Plastics molding.....                             | 11                       | 9   | -       | 2          | (D)                                   | (D)                                       | (D)     | (D)        |
| INDUSTRY 3821.--MECHANICAL MEASURING DEVICES      |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....                              | 29                       | 28  | 1       | -          | 74                                    | (D)                                       | (D)     | -          |
| Nonferrous foundry (except die casting).....      | 5                        | 2   | 1       | 2          | (D)                                   | (D)                                       | (D)     | (D)        |
| Nonferrous die casting.....                       | 10                       | 3   | 4       | 3          | 150                                   | 6   | 36      | 108        |
| Electroplating and other plating.....             | 35                       | 19  | 12      | 4          | 285                                   | 33  | 106     | 146        |
| Heat treating of metals.....                      | 36                       | 28  | 8       | -          | 107                                   | 39  | 68      | -          |
| Automatic screw machine department.....           | 61                       | 37  | 20      | 4          | 665                                   | 76  | 235     | 354        |
| Machine shop.....                                 | 222                      | 81  | 80      | 61         | 5,129                                 | 162                                       | 798     | 4,169      |
| Tool and die shop.....                            | 94                       | 42  | 38      | 14         | 1,028                                 | 88  | 343     | 597        |
| Foundry pattern shop.....                         | 5                        | 4   | 1       | -          | 16                                    | (D)                                       | (D)     | -          |
| Stamping, blanking and forming of metals.....     | 102                      | 68  | 24      | 10         | 1,065                                 | 138                                       | 222     | 705        |
| Painting, lacquering and enameling on metals..... | 127                      | 100                                       | 21      | 6          | 486                                   | 145                                       | 179     | 162        |
| Plastics molding.....                             | 19                       | 12  | 2       | 5          | 163                                   | (D)                                       | (D)     | 133        |
| INDUSTRY 3822.--AUTOMATIC TEMPERATURE CONTROLS    |                          |   |         |            |                                       |   |         |            |
| Nonferrous foundry (except die casting).....      | 5                        | 1   | 3       | 1          | 80                                    | (D)                                       | (D)     | (D)        |
| Nonferrous die casting.....                       | 7                        | 1   | 3       | 3          | 145                                   | (D)                                       | (D)     | 108        |
| Electroplating and other plating.....             | 22                       | 7   | 12      | 3          | 246                                   | 15  | 120     | 111        |
| Heat treating of metals.....                      | 20                       | 14  | 4       | 2          | 124                                   | 22  | (D)     | (D)        |
| Automatic screw machine department.....           | 30                       | 6   | 11      | 13         | 715                                   | 12  | 101     | 602        |
| Machine shop.....                                 | 41                       | 12  | 7       | 22         | 2,299                                 | 18  | 59      | 2,222      |
| Tool and die shop.....                            | 32                       | 7   | 12      | 13         | 705                                   | 11  | 136     | 558        |
| Foundry pattern shop.....                         | 3                        | 3   | -       | -          | 7                                     | 7   | -       | -          |
| Stamping, blanking and forming of metals.....     | 38                       | 16  | 12      | 10         | 881                                   | 34  | 135     | 712        |
| Painting, lacquering and enameling on metals..... | 26                       | 16  | 5       | 5          | 226                                   | 35  | 49      | 142        |
| Plastics molding.....                             | 8                        | 2   | 3       | 3          | 260                                   | (D)                                       | (D)     | 222        |

Note: Very small establishments were not requested to report their metalworking operations and, in some instances, a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production-worker employment on the last line of the table below:

| Item  | Industry |        |        |
|---|----------|--------|--------|
|   | 3811     | 3821   | 3822   |
| Total number of establishments in the industry.....   | 594      | 670    | 104    |
| Number of establishments which reported one or more of the specified operations.....                              | 244      | 291    | 58     |
| Percent of industry production workers in these establishments.....   | 75-80    | 90-95  | 95-100 |
| Number of establishments which reported "none" of the operations apply.....                                       | 43       | 39     | 8      |
| Percent of industry production workers in these establishments.....   | 5-10     | 0-5    | 0-5    |
| Percent of industry production workers in establishments which completed the metalworking operations inquiry..... | 80-85    | 95-100 | 95-100 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishment.





## PHOTOGRAPHIC EQUIPMENT; CLOCKS, WATCHES, AND WATCHCASES

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3861—Photographic Equipment and Supplies
- 3871—Watches, Clocks, and Parts, Except Watchcases
- 3872—Watchcases

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3861—PHOTOGRAPHIC EQUIPMENT AND SUPPLIES

This industry comprises establishments primarily engaged in manufacturing (1) photographic apparatus, equipment, parts, attachments, and accessories, such as still and motion picture cameras and projection apparatus; photocopy and microfilm equipment; blueprinting and diatype (white printing) apparatus and equipment; and other photographic equipment; and (2) sensitized film, paper, cloth, and plates and prepared photographic chemicals for use therewith. Establishments primarily engaged in manufacturing photographic paper stock (unsensitized), and paper mats, mounts, easels and folders for photographic use are classified in Major Group 26; photographic lenses in industry 3831; photographic glass in Major Group 32; chemicals for technical purposes, not specifically prepared and packaged for use in photography, in Major Group 28; and photographic flash, flood, enlarger and projection lamps in industry 3641. For a detailed list of products of industry 3861, refer to table 6A, product codes 3861106 to 3861811.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Photographic Equipment Industry totaled \$1,851 million. This amount included shipments of photographic equipment (primary products) valued at \$1,578 million, shipments of other products (secondary products) valued at \$80 million, and miscellaneous receipts (mainly resales) at \$194 million.

This industry's shipments of photographic equipment represented 95 percent of its total product shipments. The industry specialization ratio in 1958 was 94 percent.

Secondary products shipped by this industry in 1963 included 36112, "Testing equipment for testing electrical, radio, and communication circuits and motors" (\$2 million), and 38311, "Optical instruments and lenses, except sighting and fire-control" (\$5 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 45 percent of the total industry shipments are represented by plants specializing in product classes: 38615, Photographic sensitized film and plates, and 19 percent in 38611, Still picture equipment.

Shipments of photographic equipment by this industry represented 97 percent of all shipments of these products (\$1,631 million) by all industries. In 1958, the coverage ratio was 94 percent. An important industry shipping photographic equipment was industry 3831, Optical Instruments and Lenses, Except Sighting and Fire-control, \$3 million.

The production index for the primary products of the industry increased to 177 in 1963 from the 1958 level of 124. The unit value index for 1963 was 119 compared to 111 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3871—WATCHES, CLOCKS, AND PARTS, EXCEPT WATCHCASES

This industry comprises establishments primarily engaged in manufacturing clocks (including electric), watches, mechanisms for clockwork operated devices, and clock and watch parts. This industry includes establishments primarily engaged in assembling clocks and watches from purchased movements and cases. Establishments primarily engaged in manufacturing watch cases are classified in industry 3872, glass crystals in industry 3231, and unbreakable crystals in industry 3079. For a detailed list of products of industry 3871, refer to table 6A, product codes 3871111 to 3871589.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Watches and Clocks Industry totaled \$511 million. This amount included shipments of watches and clocks (primary products), valued at \$386 million, shipments of other products (secondary products) valued at \$83 million, and miscellaneous receipts (mainly resales) at \$42 million.

This industry's shipments of watches and clocks represented 82 percent of its total product shipments. The industry specialization ratio in 1958 was 88 percent. Secondary products shipped by this industry in 1963 included fractional horsepower motors (\$7 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 43 percent of the total industry shipments are represented by plants specializing in 38711, Clocks.

Shipments of watches and clocks by this industry represented 95 percent of all shipments of these products (\$406 million) by all industries. In 1958, the coverage ratio was 95 percent.

The production index for the primary products of the industry increased to 130 in 1963 from the 1958 level of 93. The unit value index for 1963 was 105 compared to 107 in 1958. Both indexes were computed on a basis of 1954 = 100.



## 3872—WATCHCASES

This industry comprises establishments primarily engaged in manufacturing watchcases, for sale as such. Establishments primarily engaged in assembling complete watches by assembling purchased movements with watchcases of their own manufacture are classified in industry 3871. For a detailed list of products of industry 3872, refer to table 6A, product codes 3872011 to 3872071.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

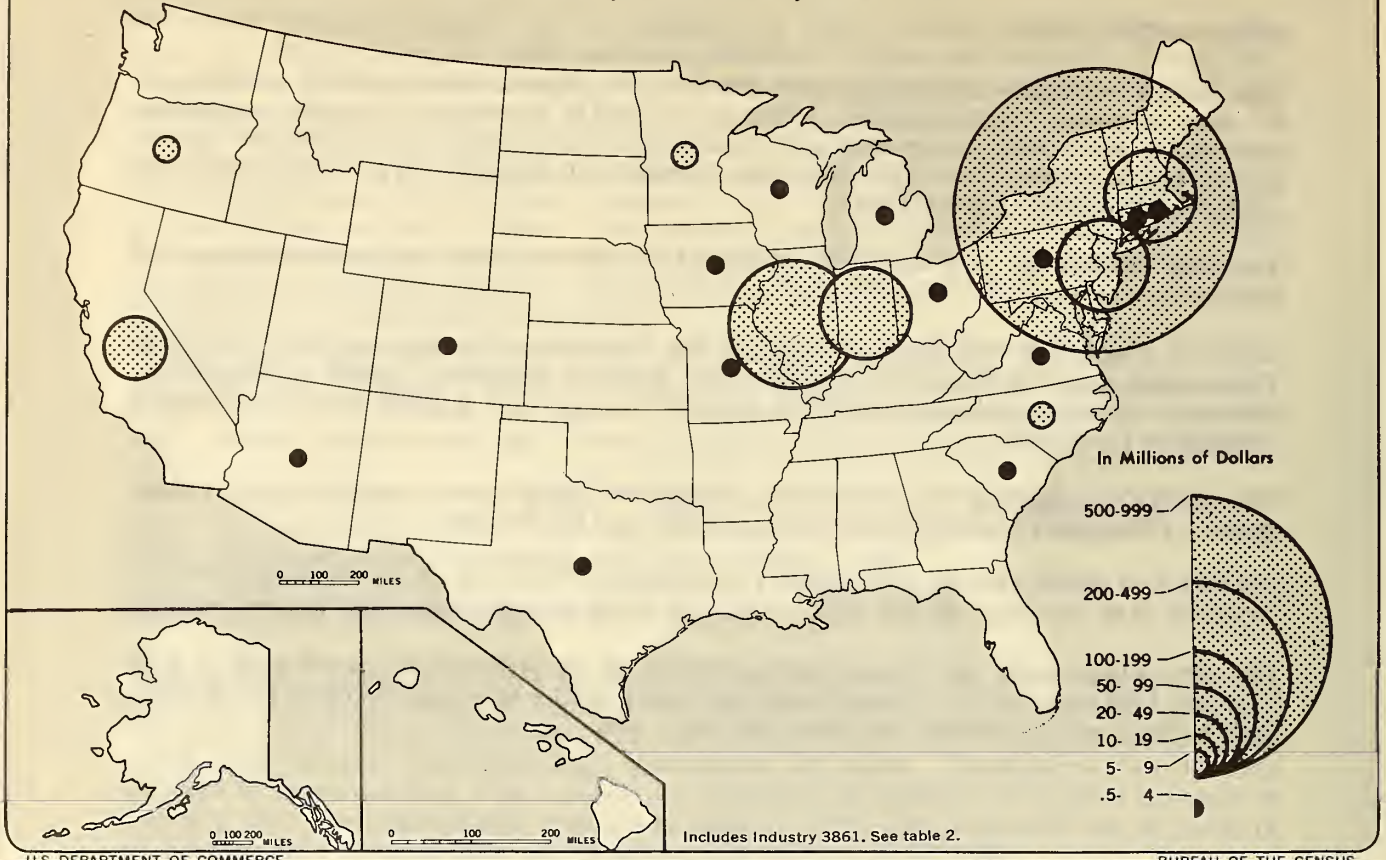
Value of shipments and other receipts of the Watchcases Industry totaled \$34 million. This amount included shipments of watchcases (primary products) valued at \$28 million, shipments of other products (secondary products) valued at \$4 million, and miscellaneous receipts at \$1 million.

This industry's shipments of watchcases represented 86 percent of its total product shipments. The industry specialization ratio in 1958 was 80 percent.

Shipments of watchcases by this industry represented 97 percent of all shipments of these products (\$29 million) by all industries. In 1958, the coverage ratio was 98 percent.

The production index for the primary products of the industry increased to 92 in 1963 from the 1958 level of 72. The unit value index for 1963 was 91 compared to 112 in 1958. Both indexes were computed on a basis of 1954 = 100.

**PHOTOGRAPHIC EQUIPMENT: SIC 386**  
 Value Added by Manufacture by State: 1963



**WATCHES, CLOCKS, AND WATCHCASES: SIC 387**  
 Value Added by Manufacture by State: 1963

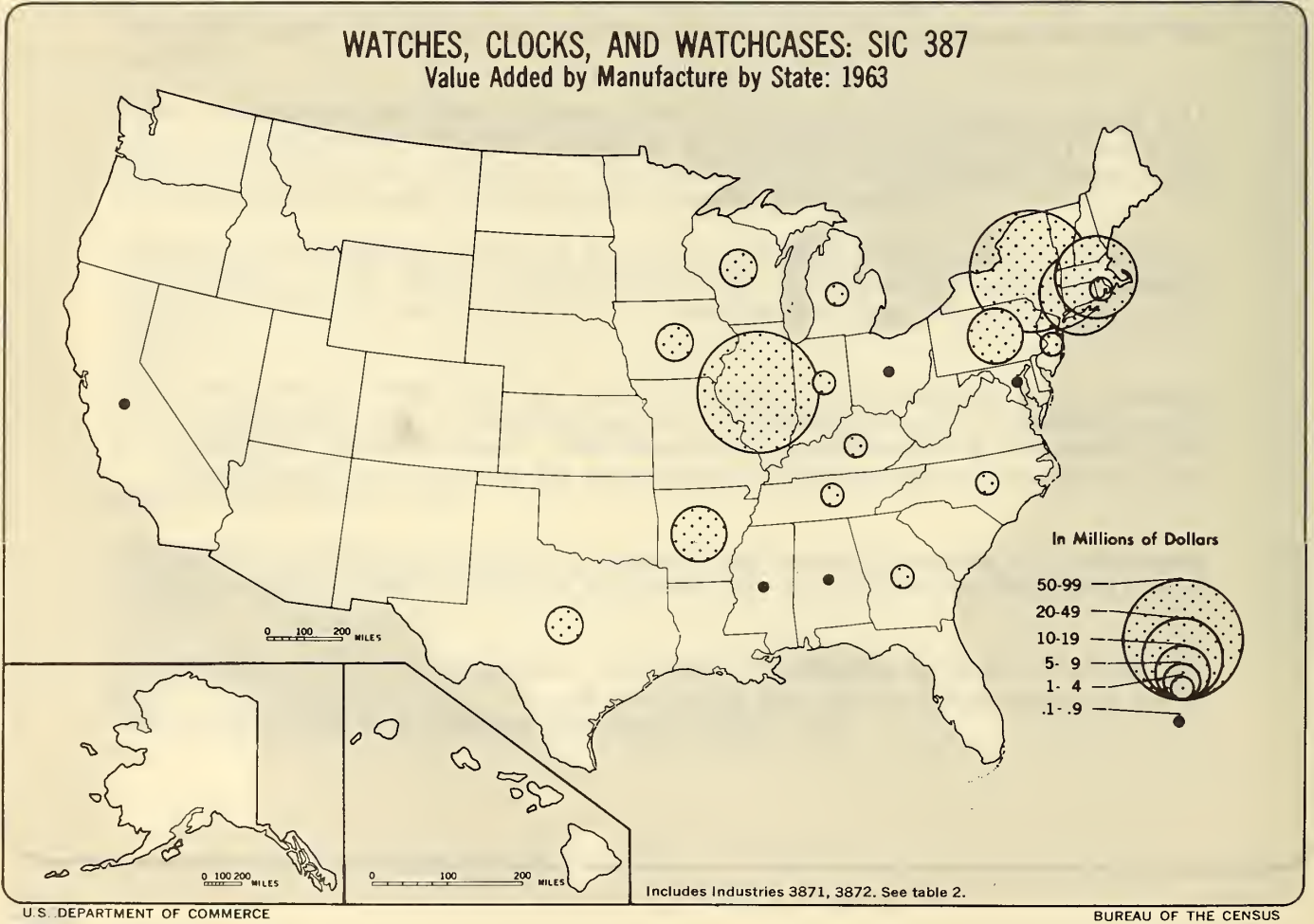




TABLE 1. General Statistics: 1963 and Earlier Years

| Year                                  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expendi-<br>tures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---------------------------------------|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|                                       |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3861.—PHOTOGRAPHIC EQUIPMENT |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                             | 499                        | 538               | 187  | 64,937            | 498,828              | 39,248             | 77,753               | 251,566            | 1,270,132  | 580,544                           | 1,851,213                          | 78,626  | 95  | 97                                       |
| 1962 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 59,429            | 439,998              | 35,582             | 70,612               | 223,000            | 1,098,113  | 573,506                           | 1,635,950                          | 57,187  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 61,226            | 427,821              | 37,020             | 72,929               | 217,795            | 987,015  | 521,531                           | 1,517,764                          | 49,250  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 62,420            | 418,832              | 38,872             | 76,500               | 218,966            | 978,911  | 505,631                           | 1,466,983                          | 60,000  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 56,099            | 376,926              | 35,242             | 70,648               | 199,889            | 876,785  | 450,709                           | 1,318,009                          | 47,089  | (NA)  | (NA)                                     |
| 1958.....                             | 450                        | 480               | 159  | 60,262            | 368,970              | 38,542             | 74,256               | 201,597            | 788,750  | 412,319                           | 1,204,905                          | 46,770  | 94  | 94                                       |
| 1957 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 68,495            | 391,182              | 45,587             | 90,384               | 225,463            | 802,831  | 398,901                           | 1,134,382                          | 49,635  | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 67,442            | 366,137              | 45,557             | 91,475               | 217,008            | 754,040  | 345,694                           | 1,074,179                          | 45,997  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 64,871            | 328,749              | 43,851             | 86,908               | 197,496            | 686,178  | 331,090                           | 994,711                            | 41,841  | (NA)  | (NA)                                     |
| 1954.....                             | 428                        | 449               | 150  | 63,008            | 308,324              | 43,827             | 86,196               | 189,745            | 595,900  | 354,834                           | 960,119                            | 38,664  | 88  | 96                                       |
| 1953 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 60,165            | 283,945              | 43,366             | 87,952               | 187,846            | 561,163  | 325,611                           | 886,774                            | 33,129  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 54,839            | 249,054              | 39,239             | 78,741               | 157,922            | 481,696  | 249,808                           | 731,504                            | 24,879  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 47,018            | 200,685              | 33,827             | 67,080               | 130,871            | 367,732  | 219,612                           | 587,344                            | 24,323  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 43,198            | 167,297              | 30,470             | (NA)                 | 104,983            | 324,459  | 174,856                           | 499,315                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 43,811            | 161,319              | 32,130             | 59,503               | 99,037             | 272,056  | 160,801                           | 432,857                            | 23,961  | (NA)  | (NA)                                     |
| 1947.....                             | (NA)                       | 369               | (NA)   | 55,624            | 172,973              | 42,365             | (NA)                 | 121,456            | 278,502  | 178,995                           | 457,497                            | (NA)  | 93  | 97                                       |
| 1939.....                             | (NA)                       | 160               | (NA)   | 23,248            | 38,873               | 16,434             | (NA)                 | 23,868             | 87,816   | 45,236                            | 133,052                            | (NA)  | (NA)  | (NA)                                     |
| 1937.....                             | (NA)                       | 109               | (NA)   | 23,212            | 39,705               | 18,450             | (NA)                 | 28,876             | 79,235   | 36,653                            | 115,888                            | (NA)  | (NA)  | (NA)                                     |
| 1935.....                             | (NA)                       | 118               | (NA)   | 15,460            | 23,208               | 12,000             | (NA)                 | 15,807             | 47,816   | 26,150                            | 73,966                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....                             | (NA)                       | 84                | (NA)   | 10,789            | 14,131               | 8,975              | (NA)                 | 10,155             | 41,875   | 11,985                            | 53,860                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....                             | (NA)                       | 115               | (NA)   | 16,302            | 28,371               | 12,967             | (NA)                 | 20,507             | 72,434   | 30,393                            | 102,827                            | (NA)  | (NA)  | (NA)                                     |
| 1921.....                             | (NA)                       | 136               | (NA)   | 14,376            | 20,854               | 10,690             | (NA)                 | 13,771             | 47,759   | 22,836                            | 70,595                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....                             | (NA)                       | 187               | (NA)   | 16,300            | 19,478               | 13,465             | (NA)                 | 14,900             | 54,586   | 33,807                            | 88,393                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....                             | (NA)                       | 146               | (NA)   | 11,143            | 8,706                | 8,674              | (NA)                 | 5,545              | 27,503   | 11,539                            | 39,042                             | (NA)  | (NA)  | (NA)                                     |
| 1909.....                             | (NA)                       | 103               | (NA)   | 6,537             | 4,499                | 5,195              | (NA)                 | 3,037              | 15,853   | 6,708                             | 22,561                             | (NA)  | (NA)  | (NA)                                     |
| 1899.....                             | (NA)                       | 153               | (NA)   | 3,913             | 1,896                | 3,444              | (NA)                 | 1,441              | 4,421  | 3,378                             | 7,799                              | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3871.—WATCHES AND CLOCKS     |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                             | 150                        | 167               | 76   | 27,047            | 144,179              | 20,983             | 41,171               | 92,404             | 288,053  | 230,348                           | 511,168                            | 8,730   | 82  | 95                                       |
| 1962 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 24,029            | 127,734              | 18,053             | 35,445               | 77,890             | 240,142  | 191,560                           | 427,266                            | (8,031)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 22,429            | 118,088              | 16,396             | 32,603               | 71,169             | 219,657  | 187,057                           | 403,081                            | (9,365)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 24,673            | 124,430              | 18,748             | 36,045               | 76,016             | 225,703  | 189,689                           | 408,508                            | (5,122)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 25,434            | 125,100              | 20,184             | 40,025               | 81,530             | 240,839  | 180,745                           | 406,681                            | 4,552   | (NA)  | (NA)                                     |
| 1958.....                             | 153                        | 168               | 65   | 23,505            | 106,739              | 18,308             | 36,080               | 70,808             | 165,158  | 158,285                           | 334,928                            | 4,607   | 88  | 95                                       |
| 1957 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 21,633            | 102,461              | 16,396             | 30,519               | 65,882             | 172,193  | 125,085                           | 294,386                            | (S)   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 24,977            | 111,789              | 19,301             | 37,037               | 71,961             | 197,377  | 142,212                           | 331,416                            | 8,607   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 25,700            | 109,423              | 20,149             | 39,183               | 73,306             | 182,949  | 138,446                           | 326,930                            | 4,372   | (NA)  | (NA)                                     |
| 1954.....                             | 141                        | 145               | 59   | 25,708            | 103,232              | 20,282             | 39,125               | 67,962             | 181,868  | 162,235                           | 343,786                            | 3,511   | 82  | 90                                       |
| 1953 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 29,277            | 117,408              | 24,440             | 48,814               | 83,098             | 206,879  | 206,408                           | 413,287                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 28,437            | 106,090              | 23,653             | 46,259               | 76,665             | 184,591  | 176,913                           | 361,504                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 30,604            | 110,389              | 25,583             | 52,037               | 81,435             | 181,360  | 184,694                           | 366,054                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 29,268            | 93,845               | 24,618             | 48,402               | 68,185             | 171,275  | 170,148                           | 341,423                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....               | (NA)                       | (NA)              | (NA)   | 28,688            | 87,198               | 23,993             | 47,739               | 63,783             | 134,108  | 124,629                           | 258,737                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                             | 183                        | 194               | 73   | 34,623            | 93,331               | 30,237             | 60,899               | 70,372             | 169,474  | 171,725                           | 341,199                            | 4,743   | 97  | 98                                       |
| 1939.....                             | (NA)                       | 64                | (NA)   | (NA)              | (NA)                 | 17,335             | (NA)                 | 19,619             | 47,169   | 34,306                            | 81,475                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                             | (NA)                       | 75                | (NA)   | 25,785            | 33,250               | 23,223             | (NA)                 | 27,559             | 59,490   | 38,444                            | 97,934                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                             | (NA)                       | 76                | (NA)   | 20,291            | 22,596               | 18,026             | (NA)                 | 18,280             | 38,530   | 22,674                            | 61,204                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....                             | (NA)                       | 53                | (NA)   | 14,242            | 12,245               | 12,850             | (NA)                 | 10,003             | 22,188   | 9,468                             | 31,656                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....                             | (NA)                       | 75                | (NA)   | (NA)              | (NA)                 | 16,213             | (NA)                 | 15,686             | 32,683   | 12,880                            | 45,563                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....                             | (NA)                       | 81                | (NA)   | 23,924            | 31,422               | 21,450             | (NA)                 | 25,750             | 56,079   | 21,388                            | 77,467                             | (NA)  | (NA)  | (NA)                                     |
| 1927.....                             | (NA)                       | 80                | (NA)   | 24,726            | 32,386               | 22,472             | (NA)                 | 27,284             | 55,533   | 16,250                            | 71,783                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....                             | (NA)                       | 83                | (NA)   | 24,412            | 30,663               | 22,361             | (NA)                 | 26,274             | 51,523   | 15,474                            | 66,997                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....                             | (NA)                       | 80                | (NA)   | 22,983            | 28,047               | 21,326             | (NA)                 | 24,129             | 43,086   | 17,387                            | 60,473                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....                             | (NA)                       | 77                | (NA)   | 20,810            | 24,020               | 19,099             | (NA)                 | 20,535             | 31,125   | 12,108                            | 43,233                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....                             | (NA)                       | 91                | (NA)   | 26,752            | 28,684               | 24,722             | (NA)                 | 24,873             | 42,646   | 14,120                            | 56,766                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....                             | (NA)                       | 88                | (NA)   | 21,186            | 13,448               | 19,814             | (NA)                 | 11,557             | 19,302   | 7,020                             | 26,322                             | (NA)  | (NA)  | (NA)                                     |
| 1909.....                             | (NA)                       | 91                | (NA)   | (NA)              | (NA)                 | 19,288             | (NA)                 | 10,516             | 18,586   | 6,096                             | 24,682                             | (NA)  | (NA)  | (NA)                                     |
| 1904.....                             | (NA)                       | 69                | (NA)   | 19,226            | 10,864               | 18,358             | (NA)                 | 9,721              | 15,719   | 5,444                             | 21,163                             | (NA)  | (NA)  | (NA)                                     |
| 1899.....                             | (NA)                       | 79                | (NA)   | 13,689            | 7,057                | 13,248             | (NA)                 | 6,390              | 9,901  | 4,425                             | 14,326                             | (NA)  | (NA)  | (NA)                                     |

See footnotes at end of table.

TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year                      | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---------------------------|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|                           |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3872.—WATCHCASES |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                 | 51                         | 53                | 22   | 2,706             | 13,415               | 2,302              | 4,548                | 10,375             | 19,218   | 13,391                            | 33,620                             | 500   | 86  | 97                                       |
| 1962 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 2,293             | 11,646               | 2,011              | 3,937                | 9,052              | 11,997   | 11,528                            | 24,578                             | (Z)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 2,080             | 10,358               | 1,812              | 3,328                | 8,075              | 10,296   | 9,822                             | 22,249                             | (Z)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 2,639             | 12,453               | 2,340              | 4,357                | 9,846              | 16,409   | 12,822                            | 29,376                             | (S)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 3,109             | 14,699               | 2,654              | 5,257                | 11,332             | 20,524   | 16,310                            | 35,713                             | (S)   | (NA)  | (NA)                                     |
| 1958.....                 | 58                         | 61                | 24   | 2,652             | 12,574               | 2,227              | 4,352                | 9,434              | 18,398   | 14,836                            | 34,660                             | (Z)   | 80  | 98                                       |
| 1954.....                 | 63                         | 64                | 28   | 3,795             | 15,957               | 3,308              | 6,612                | 12,841             | 18,808   | 14,990                            | 35,229                             | (Z)   | 86  | 85                                       |
| 1949 <sup>1</sup> .....   | (NA)                       | (NA)              | (NA)   | 4,451             | 15,052               | 3,790              | 7,489                | 11,227             | 21,594   | 13,707                            | 35,301                             | (NA)  | (NA)  | (NA)                                     |
| 1947.....                 | 81                         | 82                | 31   | 5,558             | 16,980               | 4,880              | 10,199               | 13,091             | 24,986   | 19,508                            | 44,494                             | 521   | 87  | 94                                       |
| 1939.....                 | (NA)                       | 42                | (NA)   | 3,080             | 4,298                | 2,409              | (NA)                 | 2,940              | 5,804  | 3,988                             | 9,792                              | (NA)  | (NA)  | (NA)                                     |
| 1937.....                 | (NA)                       | 29                | (NA)   | 2,868             | 4,126                | 2,451              | (NA)                 | 3,156              | 6,176  | 4,182                             | 10,358                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                 | (NA)                       | 29                | (NA)   | 2,364             | 3,070                | 2,016              | (NA)                 | 2,329              | 4,207  | 2,776                             | 6,983                              | (NA)  | (NA)  | (NA)                                     |
| 1933.....                 | (NA)                       | 20                | (NA)   | 1,316             | 1,216                | 1,169              | (NA)                 | 1,006              | 1,897  | 760                               | 2,657                              | (NA)  | (NA)  | (NA)                                     |
| 1931.....                 | (NA)                       | 31                | (NA)   | (NA)              | (NA)                 | 1,669              | (NA)                 | 1,767              | 2,858  | 1,361                             | 4,219                              | (NA)  | (NA)  | (NA)                                     |
| 1929.....                 | (NA)                       | 40                | (NA)   | 3,921             | 5,952                | 3,404              | (NA)                 | 4,626              | 8,860  | 4,631                             | 13,491                             | (NA)  | (NA)  | (NA)                                     |
| 1927.....                 | (NA)                       | 40                | (NA)   | 3,944             | 5,799                | 3,360              | (NA)                 | 4,326              | 8,414  | 5,311                             | 13,725                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....                 | (NA)                       | 45                | (NA)   | 4,025             | 5,527                | 3,480              | (NA)                 | 4,463              | 8,743  | 6,050                             | 14,793                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....                 | (NA)                       | 57                | (NA)   | 4,987             | 6,796                | 4,325              | (NA)                 | 5,414              | 10,318   | 7,499                             | 17,817                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....                 | (NA)                       | 37                | (NA)   | 4,323             | 5,293                | 3,698              | (NA)                 | 4,217              | 8,181  | 5,625                             | 13,806                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....                 | (NA)                       | 33                | (NA)   | 4,572             | 5,317                | 3,900              | (NA)                 | 4,001              | 11,413   | 8,206                             | 19,619                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....                 | (NA)                       | 31                | (NA)   | 3,832             | 2,351                | 3,514              | (NA)                 | 1,938              | 3,829  | 4,002                             | 7,831                              | (NA)  | (NA)  | (NA)                                     |
| 1909.....                 | (NA)                       | 29                | (NA)   | (NA)              | (NA)                 | 4,569              | (NA)                 | 2,428              | 5,481  | 5,034                             | 10,515                             | (NA)  | (NA)  | (NA)                                     |
| 1904.....                 | (NA)                       | 28                | (NA)   | 4,602             | 2,785                | 4,221              | (NA)                 | 2,171              | 4,198  | 4,429                             | 8,627                              | (NA)  | (NA)  | (NA)                                     |
| 1899.....                 | (NA)                       | 30                | (NA)   | 4,142             | 2,214                | 3,907              | (NA)                 | 1,925              | 3,390  | 4,394                             | 7,784                              | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: **All employees:** For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). **Production workers:** For 1947 and prior years figures represent an average of 12 monthly figures. **Value added:** Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. **Cost of materials:** Cost of materials prior to 1954 excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. **Value of shipments:** Value of shipments for years prior to 1954 excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$500 thousand.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>          | 1963           |                                    |                |                   |                    |                   |                 |  |                             |                              | 1958                                |                        |  |
|---------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|------------------------|--|
|                                       | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|                                       | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |                        |  |
| INDUSTRY 3861.—PHOTOGRAPHIC EQUIPMENT |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| Total.....                            | 538            | 187                                | 64,937         | 498,828           | 39,248             | 77,753            | 251,566         | 1,270,132                                      | 580,544                     | 1,851,213                    | 78,626                              | 60,262                 | 788,750  |
| New England.....                      | 32             | 13                                 | 5,335          | 34,798            | 3,037              | 6,173             | 16,109          | 81,598   | 69,327                      | 156,115                      | (D)                                 | 3,821                  | 58,525   |
| Massachusetts....                     | 18             | 8                                  | 5,017          | 32,979            | 2,858              | 5,810             | 15,193          | 78,330   | 66,086                      | 149,191                      | (D)                                 | 2,938                  | 50,522   |
| Middle Atlantic....                   | 208            | 83                                 | 43,465         | 360,133           | 25,932             | 50,830            | 180,510         | 952,470  | 349,794                     | 1,292,045                    | 58,613                              | 42,283                 | 594,132  |
| New York.....                         | 145            | 57                                 | 39,401         | 333,090           | 23,027             | 45,184            | 164,684         | 882,624  | 302,397                     | 1,174,218                    | 53,090                              | 38,715                 | 560,130  |
| New Jersey.....                       | 43             | 16                                 | 3,652          | 24,991            | 2,611              | 5,057             | 14,618          | 65,869   | 41,134                      | 107,547                      | 5,302                               | 3,213                  | 31,009   |
| Pennsylvania....                      | 20             | 10                                 | 412            | 2,052             | 294                | 589               | 1,208           | 3,977  | 6,263                       | 10,280                       | 221                                 | 355                    | 2,993  |
| East North Central.                   | 122            | 45                                 | 9,688          | 60,053            | 6,182              | 11,854            | 31,107          | 163,929  | 109,147                     | 276,794                      | 5,419                               | 10,045                 | 97,011   |
| Ohio.....                             | 18             | 6                                  | 319            | 1,867             | 219                | 456               | 1,176           | 3,677  | 2,122                       | 5,288                        | 138                                 | 273                    | 2,783  |
| Illinois.....                         | 68             | 31                                 | 7,787          | 50,187            | 4,807              | 9,260             | 25,044          | 101,586  | 80,688                      | 186,913                      | 2,799                               | 7,903                  | 76,314   |
| Wisconsin.....                        | 8              | 3                                  | 280            | 1,209             | 202                | 280               | 730             | 1,373  | 2,143                       | 4,073                        | 102                                 | 311                    | 1,308  |
| West North Central.                   | 27             | 7                                  | 1,030          | 5,269             | 717                | 1,500             | 3,275           | 14,008   | 9,784                       | 25,690                       | 290                                 | 862                    | 9,073  |
| Missouri.....                         | 13             | 3                                  | 200            | 911               | 162                | 347               | 633             | 4,871  | 2,751                       | 7,670                        | 32                                  | 245                    | 2,040  |
| South.....                            | 37             | 10                                 | 1,518          | 8,761             | 728                | 1,506             | 3,148           | 11,251   | 12,991                      | 23,754                       | (D)                                 | 312                    | 2,900  |
| Virginia.....                         | 5              | 3                                  | 193            | 1,089             | 126                | 275               | 603             | 1,691  | 710                         | 2,321                        | 76                                  | 110                    | 883  |
| Mountain.....                         | 10             | 2                                  | 170            | 1,104             | 131                | 311               | 776             | 2,205  | 1,185                       | 3,433                        | (D)                                 | 117                    | 861  |
| Pacific.....                          | 102            | 27                                 | 3,731          | 28,730            | 2,521              | 5,579             | 16,641          | 44,671   | 28,316                      | 73,382                       | (D)                                 | 2,822                  | 26,248   |
| INDUSTRY 3871.—WATCHES AND CLOCKS     |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| Total.....                            | 167            | 76                                 | 27,047         | 144,179           | 20,983             | 41,171            | 92,404          | 288,053  | 230,348                     | 511,168                      | 8,730                               | 23,505                 | 165,158  |
| Northeast.....                        | 102            | 45                                 | 14,094         | 82,485            | 10,246             | 20,036            | 48,596          | 168,132  | 138,337                     | 303,317                      | 4,159                               | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| Massachusetts....                     | 10             | 6                                  | 3,284          | 17,395            | 2,462              | 4,698             | 11,679          | 45,177   | 17,734                      | 62,487                       | 1,106                               | 2,502                  | 22,899   |
| Connecticut.....                      | 10             | 8                                  | 3,883          | 21,061            | 2,796              | 5,425             | 12,157          | 44,080   | 29,765                      | 73,998                       | 693                                 | 5,043                  | 25,408   |
| New York.....                         | 68             | 24                                 | 4,625          | 30,278            | 3,281              | 6,509             | 15,875          | 56,312   | 77,539                      | 132,632                      | 968                                 | 3,462                  | 34,501   |
| All other divisions                   | 65             | 31                                 | 12,953         | 61,694            | 10,737             | 21,135            | 43,808          | 119,921  | 92,011                      | 207,851                      | 4,571                               | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| Illinois.....                         | 24             | 14                                 | 6,385          | 34,305            | 5,040              | 9,789             | 23,255          | 61,052   | 42,610                      | 100,877                      | 2,074                               | 6,445                  | 31,891   |
| INDUSTRY 3872.—WATCHCASES             |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| Total.....                            | 53             | 22                                 | 2,706          | 13,415            | 2,302              | 4,548             | 10,375          | 19,218   | 13,391                      | 33,620                       | 500                                 | 2,652                  | 18,398   |
| Northeast.....                        | 50             | 21                                 | 2,435          | 12,247            | 2,069              | 4,101             | 9,543           | 17,791   | 12,432                      | 31,258                       | 485                                 | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| All other divisions                   | 3              | 1                                  | 271            | 1,168             | 233                | 447               | 832             | 1,427  | 959                         | 2,362                        | 15                                  | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |

(D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State. SIC 3861, Photographic Equipment: New England—Rhode Island, 2 (20-99); Connecticut, 12 (250-999); East North Central—Indiana, 8 (1,097); Michigan, 19 (201); West North Central—Minnesota, 8 (699); Iowa, 2 (20-99); Nebraska, 2 (1-19); Kansas, 2 (20-99); South Atlantic—Maryland, 4 (1-19); District of Columbia, 2 (20-99); North Carolina, 3 (763); South Carolina, 1 (250-499); Florida, 5 (20-99); East South Central—Kentucky, 2 (1-19); Tennessee, 1 (1-19); West South Central—Louisiana, 3 (20-99); Texas, 11 (101); Mountain—Colorado, 6 (100-249); Arizona 2 (20-99); Utah, 2 (1-19); Pacific—Washington, 3 (1-19); Oregon, 3 (489); California, 95 (2,500-4,999); Hawaii, 1 (1-19). SIC 3871, Watches and Clocks: Middle Atlantic—New Jersey, 8 (250-499); Pennsylvania, 6 (1,000-2,499); East North Central—Ohio, 1 (20-99); Indiana, 4 (467); Michigan, 3 (100-249); Wisconsin, 4 (564); West North Central—Minnesota, 1 (1-19); Iowa, 1 (500-999); South Atlantic—Maryland, 1 (20-99); District of Columbia, 1 (1-19); North Carolina, 2 (250-499); Georgia, 3 (607); Florida, 1 (1-19); East South Central—Kentucky, 2 (100-249); Tennessee, 1 (250-499); Alabama, 1 (20-99); Mississippi, 1 (100-249); West South Central—Arkansas, 1 (1,000-2,499); Louisiana, 1 (1-19); Oklahoma, 1 (1-19); Texas, 3 (890); Pacific—Washington, 1 (1-19); California, 7 (20-99).

SIC 3872, Watchcases: New England—Rhode Island, 1 (500-999); Connecticut, 1 (250-499); Middle Atlantic—New York, 46 (1,000-2,499); New Jersey, 2 (20-99); East North Central—Michigan, 1 (250-499); West South Central—Oklahoma, 1 (1-19); Pacific—California, 1 (1-19).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.

TABLE 3. Detailed Statistics: 1963

| Item   | Photographic equipment<br>(SIC 3861) | Watches and clocks<br>(SIC 3871) | Watchcases<br>(SIC 3872) |
|--|--------------------------------------|----------------------------------|--------------------------|
| Primary product specialization ratio.....                      | .95                                  | .82                              | .86                      |
| Coverage ratio.....  | .97                                  | .95                              | .97                      |
| Establishments, total.....number..                             | 538                                  | 167                              | 53                       |
| With 1 to 19 employees.....do....                              | 351                                  | 91                               | 31                       |
| With 20 to 99 employees.....do....                             | 119                                  | 39                               | 17                       |
| With 100 employees or more.....do....                          | 68                                   | 37                               | 5                        |
| Proprietors and working partners.....do....                    | 181                                  | 72                               | 18                       |
| All employees (average for the year).....do....                | 64,937                               | 27,047                           | 2,706                    |
| Payroll (all employees), total for year.....\$1,000..          | 498,828                              | 144,179                          | 13,415                   |
| Production workers:  |                                      |                                  |                          |
| Average for the year.....number..                              | 39,248                               | 20,983                           | 2,302                    |
| March.....do....   | 37,694                               | 19,463                           | 2,534                    |
| May.....do....   | 38,329                               | 20,179                           | 2,369                    |
| August.....do....  | 40,598                               | 21,688                           | 2,518                    |
| November.....do....  | 40,369                               | 22,595                           | 1,784                    |
| Man-hours.....1,000..  | 77,753                               | 41,171                           | 4,548                    |
| January-March.....do....                                       | 18,987                               | 9,821                            | 1,164                    |
| April-June.....do....  | 19,303                               | 10,134                           | 1,086                    |
| July-September.....do....                                      | 19,311                               | 9,962                            | 1,126                    |
| October-December.....do....                                    | 20,152                               | 11,254                           | 1,172                    |
| Wages.....\$1,000..  | 251,566                              | 92,404                           | 10,375                   |
| Cost of materials, etc., total.....do....                      | 580,544                              | 230,348                          | 13,391                   |
| Materials, parts, containers, and supplies consumed.....do.... | 482,707                              | 207,170                          | 12,249                   |
| Cost of resales.....do....                                     | 72,111                               | 20,514                           | -                        |
| Fuels consumed.....do....                                      | 7,888                                | 591                              | 109                      |
| Electric energy:   |                                      |                                  |                          |
| Purchased:   |                                      |                                  |                          |
| Quantity.....million kw.-hrs..                                 | 398                                  | 98                               | 13                       |
| Cost.....\$1,000..   | 5,219                                | 1,494                            | 265                      |
| Generated less sold.....million kw.-hrs..                      | (D)                                  | (D)                              | -                        |
| Contract work.....\$1,000..                                    | 12,619                               | 581                              | 768                      |
| Value of shipments (including resales), total.....do....       | 1,851,213                            | 511,168                          | 33,620                   |
| Value of resales.....do....                                    | 126,486                              | 23,058                           | -                        |
| Value added by manufacture, adjusted.....do....                | 1,270,132                            | 288,053                          | 19,218                   |
| Manufacturers' inventories:                                    |                                      |                                  |                          |
| Beginning of year, total.....do....                            | 279,302                              | 84,877                           | 6,844                    |
| Finished products.....do....                                   | 97,155                               | 34,776                           | 1,271                    |
| Work-in-process.....do....                                     | 98,887                               | 36,159                           | 3,824                    |
| Materials, supplies, fuel, etc.....do....                      | 83,260                               | 13,942                           | 1,749                    |
| End of year, total.....do....                                  | 289,511                              | 89,535                           | 5,917                    |
| Finished products.....do....                                   | 89,046                               | 38,448                           | 1,182                    |
| Work-in-process.....do....                                     | 106,459                              | 39,720                           | 2,902                    |
| Materials, supplies, fuel, etc.....do....                      | 94,006                               | 11,367                           | 1,833                    |
| Expenditures for plant and equipment, total.....do....         | 79,590                               | 9,349                            | 506                      |
| New, total.....do....  | 78,626                               | 8,730                            | 500                      |
| New structures and additions to plant.....do....               | 17,859                               | 1,621                            | 12                       |
| New machinery and equipment.....do....                         | 60,767                               | 7,109                            | 488                      |
| Used plant and equipment.....do....                            | 964                                  | 619                              | 6                        |
| Selected operating ratios:                                     |                                      |                                  |                          |
| Payroll/Total employment.....                                  | 7,682                                | 5,331                            | 4,958                    |
| Production workers/Total employment.....                       | .60                                  | .78                              | .85                      |
| Man-hours/Production workers.....                              | 1,981                                | 1,962                            | 1,976                    |
| Production worker wages/Man-hours.....                         | 3.24                                 | 2.24                             | 2.28                     |
| Cost of materials and payrolls/Total value of shipments.....   | .58                                  | .73                              | .80                      |
| Cost of materials/Total value of shipments.....                | .31                                  | .45                              | .40                      |
| Adjusted value added/Total employment.....                     | 19,559                               | 10,650                           | 7,102                    |
| Salaries and wages/Adjusted value added.....                   | .39                                  | .50                              | .70                      |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item                                  | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---------------------------------------|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|                                       |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3861.—PHOTOGRAPHIC EQUIPMENT |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..           | 538                   | 195                                | 86               | 70                 | 76                 | 43                 | 32                   | 18                   | 9                    | 6                        | 3                        |
| All employees:                        |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                      | 64,937                | 318                                | 562              | 931                | 2,398              | 2,870              | 4,802                | 5,942                | 6,435                | 40,679                   | (D)                      |
| Payroll.....\$1,000..                 | 498,828               | 1,651                              | 3,196            | 5,361              | 13,363             | 18,995             | 28,000               | 34,973               | 43,304               | 349,985                  | (D)                      |
| Value added, adjusted.....do....      | 1,270,132             | 4,112                              | 7,163            | 11,823             | 25,804             | 38,671             | 85,858               | 95,295               | 118,381              | 883,025                  | (D)                      |
| Value of shipments.....do....         | 1,851,213             | 7,192                              | 11,927           | 20,323             | 51,681             | 65,365             | 141,110              | 167,559              | 184,926              | 1,201,130                | (D)                      |
| Capital expenditures, new...do....    | 78,626                | 1,038                              | 276              | 369                | 1,635              | 1,195              | 3,685                | 3,781                | 6,066                | 60,581                   | (D)                      |
| INDUSTRY 3871.—WATCHES AND CLOCKS     |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..           | 167                   | 62                                 | 17               | 12                 | 27                 | 12                 | 12                   | 12                   | 6                    | 6                        | 1                        |
| All employees:                        |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                      | 27,047                | 109                                | 113              | 162                | 937                | 769                | 2,026                | 4,704                | 3,963                | 14,264                   | (D)                      |
| Payroll.....\$1,000..                 | 144,179               | 563                                | 548              | 784                | 4,909              | 3,612              | 10,595               | 25,432               | 19,384               | 78,352                   | (D)                      |
| Value added, adjusted.....do....      | 288,053               | 1,162                              | 1,833            | 1,543              | 10,429             | 8,007              | 22,758               | 46,117               | 53,526               | 142,678                  | (D)                      |
| Value of shipments.....do....         | 511,168               | 2,379                              | 4,420            | 3,460              | 22,194             | 16,611             | 50,365               | 89,414               | 78,910               | 243,415                  | (D)                      |
| Capital expenditures, new...do....    | 8,730                 | 1,481                              | (D)              | (D)                | 651                | 573                | 721                  | 888                  | 795                  | 3,621                    | (D)                      |
| INDUSTRY 3872.—WATCHCASES             |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..           | 53                    | 18                                 | 9                | 4                  | 10                 | 7                  | 2                    | 2                    | 1                    | -                        | -                        |
| All employees:                        |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                      | 2,706                 | 30                                 | 61               | 68                 | 330                | 899                | (D)                  | 1,318                | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                 | 13,415                | 175                                | 279              | 342                | 1,780              | 4,435              | (D)                  | 6,404                | (D)                  | -                        | -                        |
| Value added, adjusted.....do....      | 19,218                | 258                                | 394              | 460                | 2,666              | 6,549              | (D)                  | 8,891                | (D)                  | -                        | -                        |
| Value of shipments.....do....         | 33,620                | 574                                | 852              | 982                | 5,903              | 10,931             | (D)                  | 14,378               | (D)                  | -                        | -                        |
| Capital expenditures, new...do....    | 500                   | 2                                  | (D)              | 11                 | 24                 | 323                | (D)                  | 367                  | (D)                  | -                        | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

<sup>1</sup>Includes capital expenditures for plants under construction but not in operation which constitute \$500-\$1,000 thousand of the total for the size class.

<sup>2</sup>Includes capital expenditures for plants under construction but not in operation which constitute a small proportion of the total for the size class.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year          | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|-----------------------------------|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |                                   | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |                                   | (D)                | (D)              | (D)                | (D)                    | Col. B<br>Col. B+C<br>(percent)      | (D)                                | (D)                   | (D)                      | Col. B<br>Col. F<br>(percent) |
|           |                                   | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3861      | Photographic equipment.....1963.. | 1,851,213          | 1,578,353        | 78,758             | 194,102                | 95                                   | 1,631,400                          | 1,578,353             | 53,047                   | 97                            |
|           | 1958..                            | 1,204,905          | 998,343          | 61,579             | 144,983                | 94                                   | 1,061,317                          | 998,343               | 62,974                   | 94                            |
| 3871      | Watches and clocks.....1963..     | 511,168            | 385,987          | 82,905             | 42,276                 | 82                                   | 406,168                            | 385,987               | 20,181                   | 95                            |
|           | 1958..                            | 334,928            | 277,011          | 36,156             | 21,761                 | 88                                   | 291,524                            | 277,011               | 14,513                   | 95                            |
| 3872      | Watchcases.....1963..             | 33,620             | 28,410           | 4,488              | 722                    | 86                                   | 29,372                             | 28,410                | 962                      | 97                            |
|           | 1958..                            | 34,660             | 27,290           | 6,866              | 504                    | 80                                   | 27,798                             | 27,290                | 508                      | 98                            |

Note: See Introduction for an explanation of terms used.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c)

miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                | Class of products and miscellaneous receipts  | All industries | Photo-graphic equip-ment (SIC 3861) | Other industries | Prod. class code            | Class of products and miscellaneous receipts   | All industries | Watches and clocks (SIC 3871) | Other industries |
|---------------------------------|---|----------------|-------------------------------------|------------------|-----------------------------|--|----------------|-------------------------------|------------------|
| PHOTOGRAPHIC EQUIPMENT INDUSTRY |   |                |                                     |                  | WATCHES AND CLOCKS INDUSTRY |  |                |                               |                  |
|                                 | Total shipments and receipts of the industry.....   | (X)            | 1,851,213                           | (X)              |                             | Total shipments and receipts of the industry.....  | (X)            | 511,168                       | (X)              |
|                                 | Primary products.....   | 1,631,400      | 1,578,353                           | 53,047           |                             | Primary products.....  | 406,168        | 385,987                       | 20,181           |
| 38611                           | Still picture equipment.....  | 223,639        | 191,105                             | 132,534          | 38711                       | Clocks.....  | 173,839        | 154,803                       | 19,036           |
| 38612                           | Photocopying, microfilming blue-printing, brownprinting, Vandyke, and white printing equipment..... | 202,873        | 200,361                             | 2,512            | 38714                       | Watches with imported movements..  | 112,793        | 112,793                       | (6)              |
| 38613                           | Motion picture equipment.....   | 127,902        | 116,937                             | 210,965          | 38715                       | Watches with domestic movements and parts for all clocks and watches.....  | 102,249        | 101,104                       | 1,145            |
| 38615                           | Sensitized photographic film and plates.....  | 604,928        | 602,838                             | 2,090            | 38710                       | Interplant transfers of clock and watch parts and semifinished components, and watches, clocks and parts, n.s.k..... | 17,287         | 17,287                        | (7)              |
| 38616                           | Sensitized photographic paper and cloth, silver halide type..                                       | 191,306        | 191,306                             | (3)              |                             | Secondary products.....  | (X)            | 82,905                        | (X)              |
| 38617                           | Sensitized photographic paper and cloth other than silver halide type.....                          | 128,090        | 125,286                             | 2,804            | 36211                       | Fractional horsepower motors.....  | (X)            | 87,231                        | (X)              |
| 38618                           | Prepared photographic chemicals.  | 74,294         | 72,687                              | 1,607            |                             | All other secondary products.....  | (X)            | 75,674                        | (X)              |
| 38610                           | Photographic equipment and supplies, n.s.k.....   | 78,368         | 77,833                              | 535              |                             | Miscellaneous receipts.....  | (X)            | 42,276                        | (X)              |
|                                 | Secondary products.....   | (X)            | 78,758                              | (X)              |                             | Contract work.....   | (X)            | 871                           | (X)              |
| 36112                           | Testing equipment for testing electrical, radio, and communication circuits and motors....          | (X)            | 2,059                               | (X)              |                             | Resales.....   | (X)            | 23,058                        | (X)              |
| 38311                           | Optical instruments and lenses, except sighting and fire-control equipment.....                     | (X)            | 5,450                               | (X)              |                             | Other miscellaneous receipts....   | (X)            | 18,347                        | (X)              |
|                                 | All other secondary products....  | (X)            | 471,249                             | (X)              |                             |  |                |                               |                  |
|                                 | Miscellaneous receipts.....   | (X)            | 194,102                             | (X)              | 38720                       | WATCHCASES INDUSTRY  |                |                               |                  |
| 93000                           | Contract work.....  | (X)            | 9,081                               | (X)              |                             | Total shipments and receipts of the industry.....  | (X)            | 33,620                        | (X)              |
| 99989                           | Resales.....  | (X)            | 126,486                             | (X)              |                             | Watchcases.....  | 29,372         | 28,410                        | 962              |
| 99980                           | Other miscellaneous receipts....  | (X)            | 58,535                              | (X)              |                             | Secondary products.....  | (X)            | 4,488                         | (X)              |
|                                 |   |                |                                     |                  |                             | Miscellaneous receipts.....  | (X)            | 722                           | (X)              |
|                                 |   |                |                                     |                  |                             | Contract work.....   | (X)            | 82                            | (X)              |
|                                 |   |                |                                     |                  |                             | Other miscellaneous receipts....   | (X)            | 640                           | (X)              |

(X) Not applicable. n.s.k. Not specified by kind.

<sup>1</sup>Includes \$3,098 million shipped by industry 3831, "Optical Instruments and Lenses." In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3651, Radio and TV Receiving Sets; 3622, Radio and TV Communications Equipment and, 3871, Watches and Clocks.

<sup>2</sup>Includes \$2 million shipped by the following industries; however, the exact figures are withheld to avoid disclosing figures for individual companies: 3651, Radio and TV Receiving Sets, and 3662, Radio and TV Communications Equipment.

<sup>3</sup>Figures for sensitized photographic film and cloth, silver halide type, made in other industries (less than 1 percent of the total), are included with shipments by the Photographic Equipment Industry to avoid disclosing individual company figures.

<sup>4</sup>Includes shipments of over \$2 million of each of the following product classes; however, the exact values are withheld to avoid disclosing individual company figures: 35595, Other special industry machinery and equipment; 36624, Electronic navigational aids; 36625, Electronic search and detection apparatus; 36795, Other electronic components and accessories, n.e.c.; and, 38510, Ophthalmic goods.

<sup>5</sup>Includes shipments of over \$2 million by industry 3822, Automatic Temperature Controls. However, the exact value is withheld to avoid disclosing individual company figures.

<sup>6</sup>Figures for watches with imported movements, made in other industries (less than 1 percent of the total) are included with shipments by the Watches and Clocks Industry to avoid disclosing individual company figures.

<sup>7</sup>Figures for clocks, watches and clock and watch parts, n.s.k., made in other industries (considerably less than 1 percent) are included with shipments by the Watches and Clocks Industry to avoid disclosing individual company figures.

<sup>8</sup>Includes shipments of over \$2 million of each of the following product classes; however, the exact values are withheld to avoid disclosing individual company figures: 19291, Ammunition over 30mm; 33560, Rolled, drawn and extruded nonferrous metal mill products, except copper and aluminum; 35790, Addressing, dictating, duplicating, and office machines, n.e.c.; 36343, Other small household electric appliances; 36430, Current-carrying wiring devices; 36623, Intercommunication equipment (except telephone and telegraph) and electric alarm and signal systems and devices; 37292, Guided missile components and subassemblies, n.e.c.; 38111, Aircraft, flight, nautical, and navigational instruments and automatic pilots; 38611, Still picture equipment; and 39111, Jewelry, made of platinum metals and karat gold.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                 |                     |                     |
|--------------|---|-----------------|--|-----------------|---------------------|---------------------|
|              |   |                 | 1963   |                 | 1958                |                     |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity            | Value (\$1,000)     |
| 3861- --     | PHOTOGRAPHIC EQUIPMENT AND SUPPLIES.....  | .....           | (X)  | 1,631,400       | (X)                 | 1,061,317           |
| 38611 --     | Still picture equipment.....  | .....           | (X)  | 223,639         | (X)                 | 179,448             |
|              | Still cameras:  |                 |  |                 |                     |                     |
|              | Hand type cameras:  |                 |  |                 |                     |                     |
|              | Variable focus (or focusing type) with adjustable shutter speeds:   |                 |  |                 |                     |                     |
|              | Using film, or paper, 35 mm or under:   |                 |  |                 |                     |                     |
| 38611 06     | Aperture and/or shutter speed set by built-in photo-electric device.....  | No. of units..  | } 7,765,907                                    | 62,099          | } 242,485           | 9,379               |
| 38611 08     | All other.....  | ..do.....       |  |                 |                     |                     |
| 38611 12     | Using film or paper, over 35 mm, or sheet and pack film: Aperture and/or shutter speed set by built-in photo-electric device.....   | ..do.....       |  |                 |                     |                     |
| 38611 14     | All other.....  | ..do.....       |  |                 |                     |                     |
|              | Other hand types (fixed focus and/or time and single shutter speed) using roll film:  |                 |  |                 |                     |                     |
| 38611 16     | Aperture and/or shutter speed set by built-in photo-electric device.....  | ..do.....       | } 2,954,514                                    |                 |                     | 15,861              |
| 38611 18     | All other.....  | ..do.....       |  |                 |                     |                     |
|              | Process cameras for photoengraving and photolithography: <sup>1</sup>   |                 |  |                 |                     |                     |
| 38611 21     | Cameras, under 31" x 31".....   | ..do.....       | } 2,262  | 4,727           | 814                 | 2,767               |
| 38611 25     | Cameras, 31" x 31" and over.....  | ..do.....       |  |                 |                     |                     |
| 38611 31     | Other still cameras, including view and studio for tripod or stand but excluding photocopying, microfilming, blueprinting, brownprinting, and white printing.....   | .....           | (X)  | 23,046          | (X)                 | 6,032               |
|              | Flash units (except built-in):  |                 |  |                 |                     |                     |
|              | Electronic (Stroboscopic):  |                 |  |                 |                     |                     |
| 38611 42     | Portable, battery operated.....   | No. of heads..  | 49,474   | 2,843           | <sup>2</sup> 57,970 | 2,503               |
| 38611 45     | Studio type.....  | No. of units..  | 832  | 416             | (NA)                | ( <sup>3</sup> )    |
| 38611 47     | Nonelectronic (using disposable flashbulb).....   | ..do.....       | 985,034  | 3,043           | 1,425,341           | 7,005               |
| 38611 10     | Photographic exposure meters, complete (except built-ins).....  | .....           | (X)  | 1,249           | (NA)                | ( <sup>3</sup> )    |
|              | Projectors (with illumination source rated at 150 watts or more): <sup>4</sup>  |                 |  |                 |                     |                     |
| 38611 62     | Slide film.....   | No. of units..  | 452,093  | 22,067          | 520,128             | 18,132              |
| 38611 64     | Strip film, including combination slide and strip.....  | ..do.....       | } 105,706                                      | 10,245          | { 134,766           | 5,962               |
| 38611 66     | Other, including overhead, opaque, etc.....   | ..do.....       |  |                 |                     |                     |
| 38611 71     | Still picture commercial type processing equipment, all types, including developing machines, continuous printing machines, and motor operated print washers and dryers.....  | .....           | (X)  | 33,197          | (X)                 | 17,583              |
| 38611 81     | Enlargers <sup>5</sup> .....  | No. of heads..  | 12,182   | 1,787           | 23,859              | 2,084               |
| 38611 98     | Other still picture equipment, parts, attachments, and accessories (including projectors with illumination source rated at less than 150 watts and hand viewers but excluding lenses for sale separately and projection screens)..... | .....           | (X)  | 55,741          | (X)                 | <sup>3</sup> 54,219 |
| 38611 00     | Still picture equipment (excluding photocopying, microfilming, blueprinting, Vandyke and white printing), n.s.k.....  | .....           | (X)  | 3,179           | (X)                 | 19,734              |
| 38612 --     | Photocopying, microfilming, blueprinting, brownprinting and white printing equipment.....   | .....           | (X)  | 202,873         | (X)                 | 57,668              |
|              | Photocopying equipment:   |                 |  |                 |                     |                     |
| 38612 12     | Contact types.....  | No. of units..  | 262,509  | 158,359         | (X)                 | } 29,848            |
| 38612 15     | Projection types.....   | ..do.....       | 2,384  | 3,649           | (X)                 |                     |
| 38612 17     | Microfilming equipment, including microfilm cameras, readers, printers, enlargers and other special purpose equipment for microfilm use.....  | .....           | (X)  | 17,232          | (X)                 | 7,713               |
| 38612 21     | Blueprinting and brownprinting equipment.....   | .....           | } (X)  | 12,112          | (X)                 | 15,829              |
| 38612 25     | White printing equipment (direct process type).....   | .....           |  |                 |                     |                     |
| 38612 00     | Photocopying equipment, n.s.k.....  | .....           | (X)  | 11,521          | (X)                 | 4,278               |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure             | Total shipments including interplant transfers |                 |           |                     |
|--------------|---|-----------------------------|--|-----------------|-----------|---------------------|
|              |   |                             | 1963   |                 | 1958      |                     |
|              |   |                             | Quantity                                       | Value (\$1,000) | Quantity  | Value (\$1,000)     |
| 3861- --     | PHOTOGRAPHIC EQUIPMENT AND SUPPLIES—Continued   |                             |  |                 |           |                     |
| 38613 --     | Motion picture equipment.....   |                             | (X) 127,902                                    | (X)             | 147,969   |                     |
|              | 8 mm and 16 mm:   |                             |  |                 |           |                     |
|              | Cameras:  |                             |  |                 |           |                     |
|              | 16 mm:  |                             |  |                 |           |                     |
| 38613 06     | Aperture set by built-in photoelectric device.....  | No. of units..              | 4,891  | 4,314           | 18,842    | 3,648               |
| 38613 08     | All other.....  | ..do.....                   |  |                 |           |                     |
|              | 8 mm:   |                             |  |                 |           |                     |
| 38613 11     | Aperture set by built-in photoelectric device.....  | ..do.....                   | 585,426  | 25,067          | 1,094,279 | 45,620              |
| 38613 14     | All other.....  | ..do.....                   |  |                 |           |                     |
|              | Projectors (with illumination source rate at 150 watts or more): <sup>4</sup>   |                             |  |                 |           |                     |
| 38613 22     | 16 mm sound.....  | ..do.....                   | 42,217   | 16,316          | 36,723    | 12,183              |
| 38613 32     | 16 mm silent.....   | ..do.....                   | 2,659  | 768             | 9,865     | 1,251               |
| 38613 42     | 8 mm sound.....   | ..do.....                   | 546,844  | 27,779          | 684,606   | 36,082              |
| 38613 44     | 8 mm silent.....  | ..do.....                   |  |                 |           |                     |
| 38613 52     | Projection screens (for motion picture and/or still projection).....  | ..do.....                   | 1,402,015                                      | 13,582          | (NA)      | ( <sup>6</sup> )    |
| 38613 61     | Motion picture processing equipment, all types, including printing machines, developing machines, drying machines (excluding motion picture type equipment used for still picture work, and interchangeable types).....   |                             | (X)  | 8,979           | (X)       | 1,423               |
| 38613 79     | 8 mm and 16 mm motion picture parts, attachments, accessories, and other 8 mm and 16 mm motion picture equipment, including sound recording (including projectors with illumination source rated at less than 150 watts and hand viewers but excluding lenses for sale separately)..... |                             | (X)  | 16,146          | (X)       | <sup>6</sup> 31,909 |
| 38613 81     | 35 mm and over:   |                             |  |                 |           |                     |
|              | Cameras.....  | No. of units..              | 715  | 4,041           | 359       | 1,824               |
|              | Projectors:   |                             |  |                 |           |                     |
| 38613 91     | Standard projector mechanisms, including unit-type projectors.....  |                             | (X)  | 1,116           | (X)       | 11,185              |
| 38613 95     | Sound reproducing equipment.....  |                             |  |                 |           |                     |
| 38613 97     | Arc lamphouses.....   |                             |  |                 |           |                     |
| 38613 98     | 35 mm and over motion picture parts, attachments, accessories, and other 35 mm and over motion picture equipment, including sound recording and studio equipment, excluding lenses for sale separately.....   |                             | (X)  | 9,794           | (X)       |                     |
| 38613 00     | Motion picture equipment, n.s.k.....  |                             | (X)  | -               | (X)       | 2,844               |
| 38615 --     | Photographic sensitized film and plates.....  |                             | (X)  | 604,928         | (X)       | 396,014             |
|              | Still picture black and white film:   |                             |  |                 |           |                     |
|              | X-ray film:   |                             |  |                 |           |                     |
| 38615 41     | Medical.....  | TSFSM(M) <sup>7</sup> ..... | 284,917  | 93,739          | 218,316   | 78,453              |
| 38615 43     | Dental.....   | ..do.....                   | 4,021  | 6,555           |           |                     |
| 38615 45     | Industrial.....   | ..do.....                   | 24,984   | 13,162          |           |                     |
| 38615 64     | Sheet film and pack film other than graphic arts film (more than 25 ft. in length and more than 30 mm in width).....  | ..do.....                   | 43,366   | 32,949          | 26,986    | 18,866              |
| 38615 65     | Graphic arts film (for lithography, rotogravure, photoengraving and silk screen processing).....  | ..do.....                   | 186,781  | 63,033          | 107,141   | 36,229              |
| 38615 66     | Photographic glass plates and slides.....   | ..do.....                   | 1,928  | 4,162           | 2,972     | 3,410               |
| 38615 00     | Other film, including motion picture black and white and color film, amateur roll film, still color film, aerofilm, microfilm, etc. <sup>8 9</sup> .....  | ..do.....                   | 620,535  | 391,056         | 514,293   | 258,157             |
| 38615 99     | Photographic sensitized film and plates, n.s.k.....   |                             | (X)  | 272             | (X)       | 899                 |
| 38616 --     | Sensitized photographic paper and cloth, silver halide type.....  |                             | (X)  | 191,306         | (X)       | 123,963             |
| 38616 12, 16 | Roll form only, designed for continuous-tone reproduction (photofinishing, portraiture, etc.) and line reproduction, recording, graphic arts, etc., other than photocopy process.....   |                             | (NA)   | 72,650          | (NA)      | 123,963             |
| 38616 13, 17 | Sheet form only, designed for continuous-tone reproduction (photofinishing, portraiture, etc.) and line reproduction, recording, graphic arts, etc., other than photocopy process.....  |                             | (NA)   | 32,952          |           |                     |
| 38616 18     | Designed for copying processes (including diffusion transfer, dye transfer, etc.).....  | TSFSM(M) <sup>7</sup> ..... | 1,693,786                                      | 85,704          |           |                     |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure             | Total shipments including interplant transfers |                      |           |                 |
|--------------|---|-----------------------------|--|----------------------|-----------|-----------------|
|              |   |                             | 1963   |                      | 1958      |                 |
|              |   |                             | Quantity                                       | Value (\$1,000)      | Quantity  | Value (\$1,000) |
| 3861- --     | PHOTOGRAPHIC EQUIPMENT AND SUPPLIES—Continued   |                             |  |                      |           |                 |
| 38617 --     | Sensitized photographic paper and cloth, other than silver halide type.....   |                             | (X)  | 128,090              | (X)       | 82,121          |
| 38617 11     | Blueprint type.....   | TSYSM(M) <sup>10</sup> ...  | 83,058   | 5,678                | (NA)      | 8,293           |
|              | Diazotype (including film and plastic sheet):   |                             |  |                      |           |                 |
| 38617 13     | Dry.....  | ...do.....                  | 572,632  | 45,968               | 413,790   | 40,631          |
| 38617 15     | Semimoist.....  | ...do.....                  | 196,655  | 15,641               | 184,439   | 14,381          |
| 38617 21     | Brownprinting type.....   | ...do.....                  | 22,839   | 1,223                | (NA)      | 1,141           |
|              | Sensitized paper for photocopy processes:   |                             |  |                      |           |                 |
| 38617 31     | Electrostatic.....  | TSFSM(M) <sup>7</sup> ..... | 1,281,152                                      | 51,115               | (NA)      | 15,129          |
| 38617 32     | Heat sensitive.....   | ...do.....                  |  |                      |           |                 |
| 38617 39     | Other types (including sensitized paper, film, and cloth for all other processes).....  | ...do.....                  | 43,105   | 7,038                |           |                 |
| 38617 00     | Sensitized photographic paper and cloth other than silver halide type, n.s.k.....   |                             | (X)  | 1,427                | (X)       | 2,546           |
| 38618 11     | Prepared photographic chemicals (developers, fixers, toners, and other chemicals specifically prepared and packaged for use in photography).....  |                             | (X)  | 74,294               | (X)       | 35,854          |
| 38610 00     | Photographic equipment and supplies, n.s.k.....   |                             | (X)  | 78,368               | (X)       | 38,280          |
| 3871- --     | WATCHES, CLOCKS, AND PARTS, EXCEPT WATCHCASES.....  |                             | (X)  | 406,168              | (X)       | 291,524         |
| 38711 --     | Clocks.....   |                             | (X)  | 173,839              | (X)       | 111,385         |
|              | Electric clocks, complete, frequency motor (synchronous or subsynchronous, except as specified below in "Other clocks, complete"):  |                             |  |                      |           |                 |
| 38711 11     | Alarm, excluding clock timers and timing mechanisms.....  | No. of units..              | 6,039,157                                      | 19,587               | 4,045,454 | 13,653          |
| 38711 12     | Household, wall, except alarm.....  | ...do.....                  | 3,615,970                                      | 16,251               | 3,024,279 | 10,499          |
| 38711 13     | Household, all other, except alarm and wall, including chime and strike, occasional, desk, and mantel.....  | ...do.....                  | 1,014,578                                      | 5,828                | 3,056,634 | 11,459          |
| 38711 15     | Commercial, including office, factory, and school.....  | ...do.....                  | 770,003  | 6,715                | 323,454   | 2,333           |
|              | Spring wound and weight operated clocks, except automobile clocks and as specified below in "Other clocks, complete"):  |                             |  |                      |           |                 |
| 38711 21     | Alarm.....  | ...do.....                  | 6,870,306                                      | 21,677               | 7,453,900 | 19,889          |
| 38711 23     | Household and commercial, except alarm, including chime and strike, kitchen, desk, mantel and wall.....   | ...do.....                  |  |                      |           |                 |
| 38711 27     | Automobile clocks, including manual, self-winding, and electric. Timers and switch clocks having hands and dials for telling time of day (including electric and spring wound).....   | ...do.....                  | ( <sup>11</sup> )                              | ( <sup>11</sup> )    | 2,071,469 | 9,444           |
| 38711 28     | Other clocks, complete (tower, street, master, magnet operated secondary clocks, chronometers, etc.).....   | ...do.....                  | 1,440,611                                      | 4,870                | (X)       | 3,082           |
| 38711 31     | Clock movements, complete but not cased for timepiece use, including clocks for clock radios, including electric and spring wound.....  | ...do.....                  | (X)  | <sup>11</sup> 22,564 |           |                 |
| 38711 53     | Timing mechanisms, not for timepiece use, including elapsed time indicators, delay timers, program timers, etc., and mechanisms for recording and controlling instruments, parking meters, driving mechanisms, metronomes and other devices but excluding time recording and time stamp machines: |                             |  |                      |           |                 |
| 38711 61     | Electric.....   | ...do.....                  | 10,002,013                                     | 55,774               | 5,962,794 | 24,592          |
| 38711 75     | Spring wound.....   | ...do.....                  | 3,548,987                                      | 8,621                | (NA)      | 9,812           |
| 38711 00     | Clocks, n.s.k.....  |                             | (X)  | 1,595                | (X)       | 493             |
| 38714 --     | Watches with imported movements.....  |                             | (X)  | 112,793              | (X)       | 83,710          |
|              | Jeweled-lever escapement (excluding battery powered):   |                             |  |                      |           |                 |
|              | Men's wrist:  |                             |  |                      |           |                 |
| 38714 12     | 17 jewels and under.....  | No. of units..              | 2,982,709                                      | 49,771               | 1,821,455 | 39,618          |
| 38714 19     | Over 17 jewels.....   | ...do.....                  | 235,564  | 3,904                |           |                 |
|              | Women's wrist:  |                             |  |                      |           |                 |
| 38714 22     | 17 jewels and under.....  | ...do.....                  | 2,641,441                                      | 49,572               | 1,644,816 | 34,948          |
| 38714 29     | Over 17 jewels.....   | ...do.....                  | 207,768  | 4,421                |           |                 |
| 38714 39     | Other, including pocket, lapel, etc.....  | ...do.....                  |  |                      |           |                 |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | Total shipments including interplant transfers  |   |   |   |         |       |
|--------------|---|-----------------|---|---|---|---|---------|-------|
|              |   |                 | 1963  |   | 1958  |   |         |       |
|              |   |                 | Quantity  | Value (\$1,000)                                 | Quantity  | Value (\$1,000)                                 |         |       |
| 3871- --     | WATCHES, CLOCKS, AND PARTS, EXCEPT WATCHCASES—Continued   |                 |   |   |   |   |         |       |
| 38714 --     | Watches with imported movements—Continued   |                 |   |   |   |   |         |       |
| 38714 62     | Pin-lever escapement-all types (excluding travel and automobile clocks, etc., with watch movements).....  | No. of units..  | 563,236   | 4,532   | 1,117,044                                       | 7,355   |         |       |
| 38714 65     | Battery powered.....  | ..do.....       |   |   |   |   | (NA)    | (NA)  |
| 38714 00     | Watches with imported movements (all types), n.s.k.....   | .....           |   |   |   |   | (X)     | (X)   |
| 38715 --     | Watches with domestic movements and parts for all clock and watches.....  |                 | (X)   | 102,249   | (X)   | 85,331  |         |       |
|              | Jeweled lever escapement type watches (excluding battery powered):  |                 |   |   |   |   |         |       |
|              | Men's wrist:  |                 |   |   |   |   |         |       |
| 38715 12     | 17 jewels and under.....  | No. of units..  | 930,799   | 20,624  | 455,604   | 14,620  |         |       |
| 38715 19     | Over 17 jewels.....   | ..do.....       |   |   |   |   |         |       |
|              | Women's wrist:  |                 |   |   |   |   |         |       |
| 38715 22     | 17 jewels and under.....  | ..do.....       | 814,792   | 27,741  | 719,131   | 21,192  |         |       |
| 38715 29     | Over 17 jewels.....   | ..do.....       |   |   |   |   |         |       |
| 38715 39     | Other, including pocket, lapel, etc.....  | ..do.....       | -   | -   | 22,540  | 1,127   |         |       |
|              | Pin-lever escapement type watches, jeweled and nonjeweled:  |                 |   |   |   |   |         |       |
|              | Wrist:  |                 |   |   |   |   |         |       |
| 38715 53     | Men's.....  | ..do.....       |   |   | 5,823,919                                       | 31,612  |         |       |
| 38715 55     | Women's.....  | ..do.....       |   |   |   |   |         |       |
| 38715 79     | Other, including pocket, lapel, etc. (excluding travel and automobile clocks, etc., with watch movements).....  | ..do.....       | (X)   | 45,996  | 2,386,263                                       | 4,276   |         |       |
| 38715 80     | Battery powered.....  |                 |   |   | (NA)  | (NA)  |         |       |
|              | Clock and watch parts, except watch crystals:   |                 |   |   |   |   |         |       |
| 38715 81     | Clock case and clock parts, excluding timing motors.....  |                 |   |   | (X)   | 3,185   |         |       |
| 38715 87     | Watch movements, complete, for sale separately (excluding those purchased and resold in the same condition) <sup>12</sup> .....   |                 |   |   |   |   |         |       |
| 38715 89     | Watch parts for sale separately, except watchcases, and watch crystals, excluding interplant transfers (excluding those purchased and resold in the same condition) <sup>12</sup> ..... |                 |   |   |   |   | (X)     | 6,723 |
| 38715 00     | Clocks and watch parts, except watch crystals, n.s.k.....   |                 | (X)   | 1,165   | (X)   | 2,628   |         |       |
| 38710 00     | Interplant transfers of clock and watch parts and semifinished components, and watches, clocks and parts, n.s.k.....  |                 | (X)   | 17,287  | (X)   | 11,098  |         |       |
|              |   |                 | 1963  |   | 1958  |   |         |       |
|              |   |                 | Total shipments, including interplant transfers |   | Total shipments, including interplant transfers |   |         |       |
|              |   |                 | Quantity  | Value   | Quantity  | Value   |         |       |
|              |   |                 | (number)  | (\$1,000)                                       | (number)  | (\$1,000)                                       |         |       |
|              |   |                 |   | Produced and consumed at the same establishment |   | Produced and consumed at the same establishment |         |       |
|              |   |                 |   | (number)  |   | (number)  |         |       |
| 3872- --     | WATCHCASES.....   |                 | (X)   | 29,372  | (NA)  | (X)   | 27,798  |       |
| 38720 --     | Watchcases:   |                 |   |   |   |   |         |       |
|              | For jeweled watch movements:  |                 |   |   |   |   |         |       |
|              | Men's wristwatch cases:   |                 |   |   |   |   |         |       |
| 38220 11     | Karat gold and platinum.....  | 127,494         | 2,063   | (NA)  | 162,699   | 2,313   |         |       |
| 38720 13     | Gold filled.....  | 254,526         | 2,137   | (NA)  | 347,762   | 1,855   |         |       |
| 38720 15     | Rolled gold plate and sterling silver, including rolled gold plate with steel back.....   | 2,769,708       | 6,820   | (NA)  | 878,255   | 3,274   |         |       |
| 38720 19     | Other metals.....   |                 |   |   |   |   | 392,877 | 814   |
|              | Women's wristwatch cases:   |                 |   |   |   |   |         |       |
| 38720 21     | Karat gold and platinum.....  | 425,393         | 3,903   | (NA)  | 626,539   | 5,334   |         |       |
| 38720 23     | Gold filled.....  | 170,448         | 964   | (NA)  | 239,796   | 993   |         |       |
| 38720 25     | Rolled gold plate and sterling silver, including rolled gold plate with steel back.....   | 4,752,526       | 7,130   | (NA)  | 1,491,528                                       | 3,787   |         |       |
| 38720 29     | Other metals.....   | 1,007,877       | 1,316   | (NA)  | 60,909  | 197   |         |       |
| 38720 31     | Pocket watch and other watchcases.....  | (14)            | (14)  | (NA)  | (14)  | (14)  |         |       |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | 1963  |                     |  | 1958  |                   |  |
|--------------|---|---|---------------------|--|---|-------------------|--|
|              |   | Total shipments, including interplant transfers |                     | Produced and consumed at the same establishment (number) | Total shipments, including interplant transfers |                   | Produced and consumed at the same establishment (number) |
|              |   | Quantity (number)                               | Value (\$1,000)     |  | Quantity (number)                               | Value (\$1,000)   |  |
| 3872- --     | WATCHCASES—Continued  |   |                     |  |   |                   |  |
| 38720 --     | Watchcases—Continued  |   |                     |  |   |                   |  |
|              | For nonjeweled or pin-lever watch movements:  |   |                     |  |   |                   |  |
|              | Wristwatch cases:   |   |                     |  |   |                   |  |
| 38720 51     | Gold filled, rolled gold plate, and sterling silver, including rolled gold plate with steel back..... | -   | -                   | } (NA)   | 498,660   | 909               | 138,793  |
| 38720 59     | Other metals.....   | 385,591   | 748                 |  |   |                   |  |
| 38720 71     | Pocket and other watchcases (all qualities).....  | <sup>14</sup> 318,555                           | <sup>14</sup> 2,352 | (NA)   | <sup>14</sup> 67,182                            | <sup>14</sup> 306 | 1,309,825  |
| 38720 00     | Watchcases, n.s.k.....  | (X)   | 1,939               | (NA)   | (X)   | 8,016             | (X)  |

- Represents zero. (NA) Not available. n.s.k. Not specified by kind.  
(X) Not applicable.  
<sup>1</sup>Values include stands and attachments shipped with process cameras.  
<sup>2</sup>Product code 3861142 was collected in number of units in 1958.  
<sup>3</sup>In 1958, studio type flash units; exposure meters; and projectors, other than slide film and strip film were included in product code 3861198. Also, 1958 data for code 3861198 excludes projectors with illumination source rated at less than 150 watts.  
<sup>4</sup>1958 data for both still and motion picture projectors include those with illumination source rated at less than 150 watts.  
<sup>5</sup>Quantity figures include heads shipped separately, as well as complete units. Value figures include the value of heads shipped separately, stands shipped separately and complete units shipped.  
<sup>6</sup>In 1958, projection screens were included in product code 3861379. Also, 1958 data for code 3861379 excludes projectors with illumination source rated at less than 150 watts.  
<sup>7</sup>Total square feet of sensitized material (in thousands).  
<sup>8</sup>Motion picture film, amateur roll film, and other film were combined to avoid disclosing figures of individual companies. Motion picture film was reported in linear feet by width and has been converted to TSFSM. Amateur roll film and other film were collected in TSFSM. In 1963, the statistics published for product code 3861500 were collected separately as product codes 3861511, 3861512, 3861513, 3861515, 3861521, 3861522, 3861523, 3861525, 3861531, 3861532, 3861533, 3861535, 3861551, 3861552, 3861553, 3861555, 3861561, 3861562, 3861567, 3861569, 3861571, 3861575, and 3861577.  
<sup>9</sup>Includes and indeterminate amount of duplication resulting from shipments of film between film producers for further manufacturing process.  
<sup>10</sup>Total square yards of sensitized material (in thousands).  
<sup>11</sup>Automobile clocks included with other complete clocks (product code 3871131) for 1963.  
<sup>12</sup>Includes only watch parts and watch movements produced domestically; watch parts and watch movements imported by watch assemblers and resold in the same condition are excluded.  
<sup>13</sup>Does not include a figure of less than 10,000 reported for gold filled women's wristwatch cases (for jeweled watch movement).  
<sup>14</sup>Womens' pocket and other watchcases for jeweled watch movements combined with pocket and other watchcases for nonjeweled or pin-lever watch movements.

TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year   | Indexes (1954 = 100) |            |
|--------------|--|----------------------|------------|
|              |  | Production           | Unit value |
| 3861         | Photographic equipment <sup>1</sup> .....1963..                                  | 179                  | 119        |
|              | .....1958..  | 124                  | 111        |
| 38611        | Still picture equipment.....1963..   | 106                  | 124        |
|              | .....1958..  | 90                   | 117        |
| 38613        | Motion picture equipment.....1963..  | 99                   | 116        |
|              | .....1958..  | 134                  | 102        |
| 38615        | Photographic sensitized film and plates.....1963..                               | 182                  | 112        |
|              | .....1958..  | 125                  | 106        |
| 38617        | Sensitized photographic paper and cloth other than silver halide type.....1963.. | 305                  | 89         |
|              | .....1958..  | 170                  | 102        |
| 387          | Watches, clocks, and watchcases.....1963..                                       | 126                  | 104        |
|              | .....1958..  | 91                   | 107        |
| 3871         | Watches and clocks <sup>2</sup> .....1963..                                      | 130                  | 105        |
|              | .....1958..  | 93                   | 107        |
| 38711        | Clocks.....1963..  | 123                  | 122        |
|              | .....1958..  | 90                   | 110        |
| 38714        | Watches with imported movements.....1963..                                       | 147                  | 79         |
|              | .....1958..  | 89                   | 97         |
| 38715        | Watches with domestic movements and parts for all clocks and watches.....1963..  | 106                  | 119        |
|              | .....1958..  | 90                   | 117        |
| 3872         | Watchcases.....1963..  | 92                   | 91         |
|              | .....1958..  | 72                   | 112        |

<sup>1</sup>Adjusted to include products not included below (product classes 38612, 38616), also products, not specified by kind.

<sup>2</sup>Adjusted to include products not specified by kind.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments, 1947, 1954, 1958 to 1963

(In thousand of dollars)

| Code  | Product class  | 1963      | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958      | 1954    | 1947    |
|-------|--|-----------|-------------------|-------------------|-------------------|-------------------|-----------|---------|---------|
| 3861- | Photographic equipment.....  | 1,631,400 | 1,346,189         | 1,250,286         | 1,206,037         | 1,153,260         | 1,061,317 | 772,919 | 428,531 |
| 38611 | Still picture equipment.....   | 223,639   | 148,700           | 158,952           | 160,012           | (S)               | 179,448   | 170,687 | 86,718  |
| 38612 | Photocopying, microfilming, blue-printing, Vandyke, and white-printing equipment.....                                  | 202,873   | 144,697           | 89,950            | 86,393            | 75,737            | 57,668    | 27,003  | 9,302   |
| 38613 | Motion picture equipment.....  | 127,902   | 127,806           | 136,354           | 151,359           | 145,282           | 147,969   | 108,155 | 89,922  |
| 38615 | Photographic sensitized film and plates.....   | 604,928   | 546,387           | 511,479           | 478,619           | 440,545           | 396,014   | 297,050 | 143,550 |
| 38616 | Sensitized photographic paper and cloth, silver halide type.....   | 191,306   | 183,997           | 166,669           | 155,906           | 146,353           | 123,963   | 78,846  | 39,844  |
| 38617 | Sensitized photographic paper and cloth, other than silver halide type.....  | 128,090   | 120,768           | 119,484           | 112,754           | 98,426            | 82,121    | 47,293  | 18,504  |
| 38618 | Prepared photographic chemicals.....   | 74,294    | 69,809            | 51,249            | 46,421            | 42,987            | 35,854    | 19,755  | 9,096   |
| 38610 | Photographic equipment and supplies, n.s.k.....  | 78,368    | (S)               | (S)               | (S)               | (S)               | 38,280    | 24,130  | 31,415  |
| 3871- | Watches and clocks.....  | 406,168   | 405,595           | 391,055           | 386,706           | 364,554           | 291,524   | 293,353 | 332,520 |
| 38711 | Clocks.....  | 173,839   | 187,972           | 185,124           | 168,046           | 141,077           | 111,385   | 113,601 | 100,779 |
| 38714 | Watches with imported movements.....   | 112,793   | 101,512           | 105,781           | 104,581           | 106,280           | 83,710    | 96,827  | 105,018 |
| 38715 | Watches with domestic movements and parts for all clocks and watches.....  | 102,249   | 97,642            | 84,379            | 95,770            | 96,472            | 85,331    | 81,091  | 98,597  |
| 38710 | Interplant transfers of clocks and watch parts and semi finished components, and watches, clocks and parts, n.s.k..... | 17,287    | (S)               | (S)               | (S)               | (S)               | 11,098    | 1,834   | 28,126  |
| 3872- | Watchcases.....  | 29,372    | 25,640            | 22,661            | 28,056            | (S)               | 27,798    | 34,457  | 40,385  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area  | Value of shipments |         | Product class and geographic area  | Value of shipments |         | Product class and geographic area  | Value of shipments |         |
|--|--------------------|---------|--|--------------------|---------|--|--------------------|---------|
|  | 1963 <sup>1</sup>  | 1958    |  | 1963 <sup>1</sup>  | 1958    |  | 1963 <sup>1</sup>  | 1958    |
| STILL PICTURE EQUIPMENT (38611)  |                    |         | PHOTOGRAPHIC SENSITIZED FILM AND PLATES (38615)                                |                    |         | PREPARED PHOTOGRAPHIC CHEMICALS (38618)—Continued                            |                    |         |
| United States, total.....  | 223,639            | 179,448 | United States, total.....  | 604,928            | 396,014 | North Central.....   |                    | 5,418   |
| New England.....   | 10,216             | 8,874   | Northeast.....   | 597,930            | (2)     | Illinois.....  |                    | 4,789   |
| Middle Atlantic.....   | 124,690            | 97,334  | East North Central.....  | 5,934              | (2)     | South and West.....  |                    | 1,255   |
| New York.....  | 115,904            | 91,070  | South and West.....  | 1,064              | (2)     |  |                    |         |
| North Central.....   | 40,606             | 48,773  | SENSITIZED PHOTOGRAPHIC PAPER AND CLOTH, SILVER HALIDE TYPE (38616)            |                    |         | CLOCKS (38711)   |                    |         |
| Illinois.....  | 21,278             | 19,966  | United States, total.....  | 191,306            | 123,963 | United States, total.....  | 173,839            | 111,385 |
| Wisconsin.....   | 2,679              | (2)     | Middle Atlantic.....   | 166,092            | (2)     | New England.....   | 59,425             | (2)     |
| South.....   | 19,230             | (2)     | All other divisions.....   | 25,214             | (2)     | Massachusetts.....   | 33,749             | (2)     |
| West.....  | 28,897             | (2)     |  |                    |         | Middle Atlantic.....   | 12,828             | (2)     |
|  |                    |         |  |                    |         | New York.....  | 6,892              | 6,505   |
| PHOTOCOPIING, MICROFILMING, BLUEPRINTING, VANDYKE, BROWNPRINTING, AND WHITE-PRINTING EQUIPMENT (38612) |                    |         | SENSITIZED PHOTOGRAPHIC PAPER AND CLOTH, OTHER THAN SILVER HALIDE TYPE (38617) |                    |         | North Central.....   | 75,993             | (2)     |
| United States, total.....  | 202,873            | 57,668  | United States, total.....  | 128,090            | 82,121  | Indiana.....   | 4,570              | (2)     |
| New England.....   | 2,994              | (2)     | Northeast.....   | 42,801             | 42,040  | Illinois.....  | 52,878             | 36,947  |
| Middle Atlantic.....   | 152,114            | (2)     | New York.....  | 15,358             | 19,855  | Michigan.....  | 1,831              | 1,668   |
| North Central.....   | 45,582             | (2)     | New Jersey.....  | 11,580             | (2)     | South and West.....  | 25,593             | (2)     |
| West.....  | 2,183              | (2)     | North Central.....   | 69,986             | (2)     |  |                    |         |
|  |                    |         | Michigan.....  | 3,517              | (2)     | WATCHES WITH IMPORTED MOVEMENTS (38714)                                      |                    |         |
| MOTION PICTURE EQUIPMENT (38613)   |                    |         | West South Central.....  | 2,315              | (2)     | United States, total.....  | 112,793            | 83,710  |
| United States, total.....  | 127,902            | 147,969 | Pacific.....   | 12,988             | (2)     | Northeast.....   | 89,718             | (2)     |
| Northeast.....   | 45,335             | 60,073  | California.....  | 12,988             | 9,297   | East North Central.....  | 19,676             | (2)     |
| New York.....  | 31,327             | 39,323  | PREPARED PHOTOGRAPHIC CHEMICALS (38618)  |                    |         | Illinois.....  | 19,676             | 14,313  |
| North Central.....   | 61,770             | (2)     | United States, total.....  |                    | 74,294  | South and West.....  | 3,399              | (2)     |
| Illinois.....  | 53,107             | 65,056  | Northeast.....   |                    | 67,621  |  |                    |         |
| South and West.....  | 20,797             | (2)     | New York.....  |                    | 59,484  | WATCHES WITH DOMESTIC MOVEMENTS AND PARTS FOR ALL CLOCKS AND WATCHES (38715) |                    |         |
|  |                    |         | New Jersey.....  |                    | 7,534   | United States, total.....  |                    | 102,249 |
|  |                    |         |  |                    |         | Middle Atlantic.....   |                    | 38,798  |
|  |                    |         |  |                    |         | All other divisions.....   |                    | 63,451  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 38611, Massachusetts, Connecticut, New Jersey, Ohio, Michigan, Minnesota, Virginia, South Carolina, Arkansas, Colorado, Oregon, and California; 38612, Massachusetts, New York, Indiana, Illinois, California; 38613, Massachusetts, Connecticut, New York, Pennsylvania, Ohio, Indiana, Michigan, Minnesota, South Carolina, Colorado, and California; 38615, Massachusetts, New York, New Jersey, Ohio, and Illinois; 38616, New Hampshire, Massachusetts, New York, New Jersey, Illinois, Iowa, and Missouri; 38617, Massachusetts, Rhode Island, Pennsylvania, Ohio, Indiana, Illinois, and Texas; 38618, California; 38711, Connecticut, New Jersey, Ohio, Wisconsin, Iowa, North Carolina, Georgia, Kentucky, and Tennessee; 38714, Connecticut, New York, Pennsylvania, and Texas; 38715, Connecticut, New York, New Jersey, Pennsylvania, Illinois, North Carolina, Arkansas, and Texas.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

TABLE 7A. Materials by Kind: 1963 and 1958

| Code                                  | Material   | Unit of measure   | 1963      |                          | 1958     |                          |
|---------------------------------------|--|-------------------|-----------|--------------------------|----------|--------------------------|
|                                       |  |                   | Quantity  | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3861.—PHOTOGRAPHIC EQUIPMENT |  |                   |           |                          |          |                          |
|                                       | Materials, components, parts, containers, and supplies, total..                          |                   | (X)       | 482,707                  | (X)      | 337,895                  |
|                                       | Mill shapes and forms:   |                   |           |                          |          |                          |
| 331001                                | Carbon steel.....  | Short tons.....   | 25,267    | 7,386                    | } (NA)   | 19,000                   |
| 331020                                | Alloy steel, except stainless.....   | ..do.....         | 2,967     | 4,052                    |          |                          |
| 331031                                | Stainless steel.....   | ..do.....         |           |                          |          |                          |
| 335003                                | Copper and copper-base alloy.....  | 1,000 lbs.....    | 940       | 463                      | (NA)     | (NA)                     |
| 333401                                | Aluminum and aluminum-base alloy refinery shape.....                                     |                   | (D)       | (D)                      | (NA)     | (NA)                     |
| 336100                                | Aluminum and aluminum-base alloy castings <sup>2</sup> .....                             | 1,000 lbs.....    | 12,508    | 8,087                    | (NA)     | (NA)                     |
|                                       | Fractional horsepower electric motors (under 1 hp.):                                     |                   |           |                          |          |                          |
| 362110                                | Timing motors, synchronous and subsynchronous.....                                       | 1,000.....        | 570       | 3,630                    | 9        | 139                      |
| 362115                                | Other fractional horsepower motors, excluding timing motors.....                         | 1,000.....        | 352       | 1,811                    | 1,306    | 3,193                    |
| 367010                                | Electron tubes, except x-ray.....  | ..do.....         | 226       | 406                      | (NA)     | (NA)                     |
| 367408                                | Solid state semi-conductors.....   | ..do.....         | 396       | 445                      | (NA)     | (NA)                     |
| 281997                                | Silver nitrate.....  | 1,000 ounces..... | 28,088    | 20,253                   | 19,372   | 10,665                   |
| 383101                                | Photographic and projection lens and prisms.....   |                   | (X)       | 8,602                    | (X)      | 6,369                    |
| 970099                                | All other materials, components, parts, containers, and supplies consumed.....           |                   | (X)       | 373,579                  | (X)      | 286,040                  |
| 976000                                | Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....                    |                   | (X)       | 53,993                   | (X)      | 22,489                   |
| INDUSTRY 3871.—WATCHES AND CLOCKS     |  |                   |           |                          |          |                          |
|                                       | Materials, parts, containers, and supplies, total.....                                   |                   | (X)       | 207,170                  | (X)      | 145,342                  |
|                                       | Fractional horsepower electric motors:   |                   |           |                          |          |                          |
| 362110                                | Timing motors, synchronous and subsynchronous <sup>2</sup> .....                         | Thousands.....    | 1,061     | 2,231                    | 1,259    | 2,026                    |
| 362115                                | Other fractional horsepower electric motors (excluding timing motors) <sup>2</sup> ..... |                   | (D)       | (D)                      | (NA)     | (NA)                     |
|                                       | Watchcases:  |                   |           |                          |          |                          |
|                                       | Mens' wristwatch cases:  |                   |           |                          |          |                          |
| 387200                                | Karat gold and platinum.....   | Number.....       | 149,343   | 2,884                    | } (NA)   | 17,000                   |
| 387201                                | Gold filled.....   | ..do.....         | 446,280   | 2,286                    |          |                          |
| 387202                                | Rolled gold plate and sterling silver (including rolled gold plate with steel back)..... | ..do.....         | 1,005,285 | 2,521                    |          |                          |
| 387203                                | Other metals.....  | ..do.....         | 2,818,639 | 4,828                    |          |                          |
| 387204                                | Karat gold and platinum.....   | ..do.....         | 235,449   | 4,076                    |          |                          |
| 387206                                | Gold filled.....   | ..do.....         | 359,321   | 1,196                    |          |                          |
| 387206                                | Rolled gold plate and sterling silver (including rolled gold plate with steel back)..... | ..do.....         | 2,525,177 | 5,457                    |          |                          |
| 387207                                | Other metals.....  | ..do.....         | 2,712,815 | 2,643                    |          |                          |
| 387208                                | Pocket and other watchcases (all qualities).....   | ..do.....         | 1,153,137 | 489                      |          |                          |
| 387209                                | Imported watch movements.....  |                   | (X)       | 46,196                   | (NA)     | (X)                      |
| 970099                                | All other materials, components, parts, containers, and supplies consumed.....           |                   | (X)       | 103,253                  | (X)      | 117,726                  |
| 976000                                | Materials, parts, containers, and supplies, n.s.k. <sup>3</sup> .....                    |                   | (X)       | 29,110                   | (X)      | 8,590                    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

<sup>1</sup>Represents estimates published in MC58(1)-7 (Supplement), "Selected Materials Consumed," from data collected in a supplemental survey on Form MA-131, "Consumption of Materials, Parts, Containers, and Supplies During 1958." This survey was limited to large establishments in selected chemical, machinery, and equipment industries and resulted in estimates which are subject to greater error than are the figures on materials consumption collected as a regular part of the Census of Manufactures.

<sup>2</sup>Does not include quantities produced and consumed in the same establishment.

<sup>3</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials and "standard forms."



TABLE 7B. Fuels and Electric Energy Consumed, and Horsepower Rating of Power Equipment: 1962

| Item  | 1962                              |                               |                       |
|---|-----------------------------------|-------------------------------|-----------------------|
|   | Photographic equipment (SIC 3861) | Watches and clocks (SIC 3871) | Watchcases (SIC 3872) |
| Total cost of purchased fuels and electric energy.....\$1,000..   | 12,497                            | 2,077                         | 246                   |
| Total cost of purchased fuels.....do....  | 7,830                             | 687                           | 79                    |
| Bituminous coal, lignite, and anthracite:   |                                   |                               |                       |
| Quantity.....1,000 short tons..   | 501                               | (S)                           | (S)                   |
| Cost.....\$1,000..  | 4,397                             | (S)                           | (S)                   |
| Coke and breeze:  |                                   |                               |                       |
| Quantity.....1,000 short tons..   | (S)                               | -                             | -                     |
| Cost.....\$1,000..  | (S)                               | -                             | -                     |
| Fuel oil (distillate and residual):   |                                   |                               |                       |
| Quantity.....1,000 barrels of 42 gallons..  | 322                               | (S)                           | (S)                   |
| Cost.....\$1,000..  | 1,081                             | (S)                           | (S)                   |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |                                   |                               |                       |
| Quantity.....million cu.ft..  | 2,023                             | (S)                           | (S)                   |
| Cost.....\$1,000..  | 1,261                             | (S)                           | (S)                   |
| Other fuels.....do....  | 1,090                             | 111                           | (S)                   |
| Electric energy:  |                                   |                               |                       |
| Purchased:  |                                   |                               |                       |
| Quantity.....million kw. hrs..  | 340                               | 84                            | 8                     |
| Cost.....\$1,000..  | 4,667                             | 1,390                         | 167                   |
| Generated less sold.....million kw. hrs..   | 410                               | (S)                           | -                     |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 318                               | 41                            | 5                     |
| Prime movers, total.....do....  | 169                               | 6                             | 1                     |
| Driving generators.....do....   | 112                               | 6                             | (Z)                   |
| Not driving generators.....do....   | 57                                | (Z)                           | 1                     |
| Electric motors, total.....do....   | 296                               | 35                            | 3                     |
| Driven by purchased energy.....do....   | 149                               | 34                            | 3                     |
| Driven by energy generated at establishment.....do....  | 147                               | 1                             | -                     |
| Aggregate horsepower per 100 production workers.....  | 894                               | 227                           | 249                   |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3861-                          | PHOTOGRAPHIC EQUIPMENT  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 538                     | 64,937         | 498,828           | 39,248             | 77,753            | 251,566         | 1,270,132                                      | 580,544                     | 1,851,213                    | 78,626                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 486                     | 47,694         | 364,727           | 29,808             | 59,107            | 191,289         | 1,059,057                                      | 449,931                     | 1,511,349                    | 65,518                              |
|                                | 75-89% specialization.....  | 15                      | 11,142         | 95,397            | 6,343              | 12,975            | 46,109          | 145,011  | 70,975                      | 216,780                      | 7,472                               |
| 38611                          | Still picture equipment (primary product class of estab.).....  | 82                      | 17,863         | 139,854           | 10,489             | 20,575            | 65,517          | 227,134  | 128,245                     | 350,747                      | 11,920                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 52                      | 3,784          | 24,574            | 2,580              | 5,060             | 13,137          | 45,014   | 27,833                      | 70,362                       | 1,645                               |
|                                | 75-89% specialization.....  | 9                       | 1,387          | 12,241            | 956                | 2,474             | 7,484           | 12,195   | 10,987                      | 22,242                       | 847                                 |
| 38612                          | Photocopying, microfilming, blue-printing, Vandyke, and white-printing equipment (primary product class of estab.)..... | 23                      | 2,763          | 19,567            | 1,680              | 3,516             | 10,135          | 119,510  | 48,297                      | 165,032                      | 3,231                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 14                      | 1,848          | 13,935            | 1,318              | 2,827             | 8,494           | 108,106  | 35,507                      | 140,416                      | 3,068                               |
| 38613                          | Motion picture equipment (primary product class of estab.).....   | 48                      | 7,592          | 50,243            | 5,117              | 9,726             | 26,659          | 69,356   | 57,251                      | 132,545                      | 1,810                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 34                      | 5,732          | 39,018            | 3,766              | 6,911             | 19,526          | 54,235   | 40,757                      | 98,059                       | 1,139                               |
| 38615                          | Photographic sensitized film and plates (primary product class of estab.).....  | 25                      | 26,497         | 230,009           | 15,559             | 30,941            | 116,850         | 626,428  | 203,719                     | 833,382                      | 49,370                              |
| 38616                          | Sensitized photographic paper and cloth, silver halide type (primary product class of estab.)....                       | 10                      | 2,129          | 12,819            | 1,563              | 3,047             | 8,319           | 63,469   | 31,123                      | 94,238                       | 2,503                               |
| 38617                          | Sensitized photographic paper and cloth other than silver halide type (primary product class estab.).....               | 42                      | 4,693          | 26,524            | 2,823              | 5,771             | 14,125          | 104,610  | 80,181                      | 184,482                      | 4,391                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 31                      | 1,782          | 10,473            | 1,214              | 2,535             | 6,269           | 29,190   | 35,508                      | 64,879                       | 1,364                               |
| 38618                          | Prepared photographic chemicals (primary product class of estab.)   | 22                      | 691            | 4,883             | 375                | 791               | 2,072           | 31,012   | 10,883                      | 42,052                       | (D)                                 |
| 3871-                          | WATCHES AND CLOCKS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 167                     | 27,047         | 144,179           | 20,983             | 41,171            | 92,404          | 288,053  | 230,348                     | 511,168                      | 8,730                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 132                     | 9,254          | 49,893            | 6,740              | 13,214            | 29,152          | 95,798   | 92,659                      | 187,135                      | 3,906                               |
|                                | 75-89% specialization.....  | 13                      | 9,032          | 51,375            | 7,346              | 14,493            | 34,225          | 89,795   | 76,660                      | 161,806                      | 2,506                               |
| 38711                          | Clocks (primary product class of estab.).....   | 63                      | 13,810         | 69,844            | 10,825             | 21,454            | 46,881          | 145,640  | 84,199                      | 225,535                      | 5,378                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 42                      | 4,234          | 21,257            | 3,162              | 6,286             | 13,092          | 42,025   | 31,372                      | 71,173                       | 1,725                               |
|                                | 75-89% specialization.....  | 8                       | 1,300          | 6,344             | 1,059              | 2,067             | 4,142           | 10,913   | 8,186                       | 19,386                       | 264                                 |
| 38714                          | Watches with imported movements (primary product class of estab.)   | 19                      | 3,975          | 27,743            | 2,681              | 5,326             | 13,632          | 54,489   | 81,063                      | 133,967                      | 1,491                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 13                      | 1,173          | 8,869             | 624                | 1,312             | 3,178           | 18,886   | 32,063                      | 50,685                       | (D)                                 |
| 38715                          | Watches with domestic movements and parts for all clocks and watches (primary product class of estab.).....             | 19                      | 6,939          | 34,777            | 5,705              | 10,975            | 24,463          | 60,498   | 44,820                      | 103,657                      | 1,079                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 12                      | 882            | 4,598             | 637                | 1,276             | 2,989           | 6,831  | 3,723                       | 10,818                       | 334                                 |

(D) Withheld to avoid disclosing figures for individual companies.



TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations                        | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 3871.—WATCHES AND CLOCKS              |                          |   |         |            |                                       |   |         |            |
| Electroplating and other plating.....          | 24                       | 9   | 9       | 6          | 312                                   | 17  | 88      | 207        |
| Heat treating of metals.....                   | 15                       | 10  | 4       | 1          | 135                                   | 18  | (D)     | (D)        |
| Automatic screw machine department.....        | 19                       | 5   | 6       | 8          | 577                                   | 10  | 69      | 498        |
| Machine Shop.....                              | 25                       | 9   | 8       | 8          | 537                                   | 13  | 67      | 457        |
| Tool and die shop.....                         | 30                       | 10  | 14      | 6          | 420                                   | 15  | 144     | 261        |
| Stamping, blanking, and forming of metals..... | 34                       | 13  | 10      | 11         | 868                                   | 20  | 99      | 749        |
| INDUSTRY 3872.—WATCHCASES                      |                          |   |         |            |                                       |   |         |            |
| Electroplating and other plating.....          | 16                       | 12  | 3       | 1          | 82                                    | 19  | (D)     | (D)        |
| Heat treating of metals.....                   | 10                       | 9   | 1       | -          | 19                                    | (D)                                       | (D)     | -          |
| Automatic screw machine department.....        | 3                        | 1   | 1       | 1          | (D)                                   | (D)                                       | (D)     | (D)        |
| Machine shop.....                              | 8                        | 4   | -       | 4          | 143                                   | 9   | -       | 134        |
| Tool and die shop.....                         | 12                       | 6   | 4       | 2          | 119                                   | 10  | (D)     | (D)        |
| Stamping, blanking, and forming of metals..... | 18                       | 5   | 10      | 3          | 212                                   | 6   | 82      | 124        |

Note: Very small establishments were not requested to report their metalworking operations and in some instances a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production worker employment on the last line of the table below.

| Item  | Watches and clocks (SIC 3871) | Watchcases (SIC 3872) |
|---|-------------------------------|-----------------------|
| Total number of establishments in the industry.....   | 167                           | 53                    |
| Number of establishments which reported one or more of the specified operations.....                          | 45                            | 21                    |
| Percent of industry production workers in these establishments.....   | 80-85                         | 75-80                 |
| Number of establishments which reported "none" of the operations apply.....                                   | 20                            | 3                     |
| Percent of industry production workers in these establishments.....   | 0-5                           | 0-5                   |
| Percent of industry production workers in establishments which completed metalworking operations inquiry..... | 85-90                         | 75-80                 |

- Represents zero. (D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>These size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishments.





## Miscellaneous Manufacturing

- 39A Jewelry, silverware, and plated ware
- 39B Musical instruments and parts; toys, and sporting and athletic goods
- 39C Office supplies, costume jewelry and misc. notions
- 39D Miscellaneous manufacturing industries

Major Group 39 covers establishments primarily engaged in manufacturing products not classified in any other major manufacturing group. Industries in this group fall into the following categories: Jewelry, and silverware and plated ware; musical instruments; toys, and sporting and athletic goods; pens, pencils, and other office and artists' materials; buttons, costume novelties, and miscellaneous notions; brooms and brushes; morticians' goods; and, other miscellaneous manufacturing industries.

For 1953 and earlier years, data for Major Group 19, Ordnance and Accessories, are included with Major Group 39 in table 1.

For 1954 and subsequent years Major Group 19 data are published separately. However, in some tables within these volumes, data for Major Group 19 are given both separately and combined with Major Group 39.

Major Group 19 covers establishments primarily engaged in manufacturing artillery, small arms, and related equipment; ammunition; tanks and specialized tank parts; sighting and fire control equipment; complete guided missiles and research and development on complete guided missiles and, miscellaneous ordnance and accessories, not elsewhere classified.

# MISCELLANEOUS MANUFACTURING: MAJOR GROUP 39

Value Added by Manufacture by State: 1963

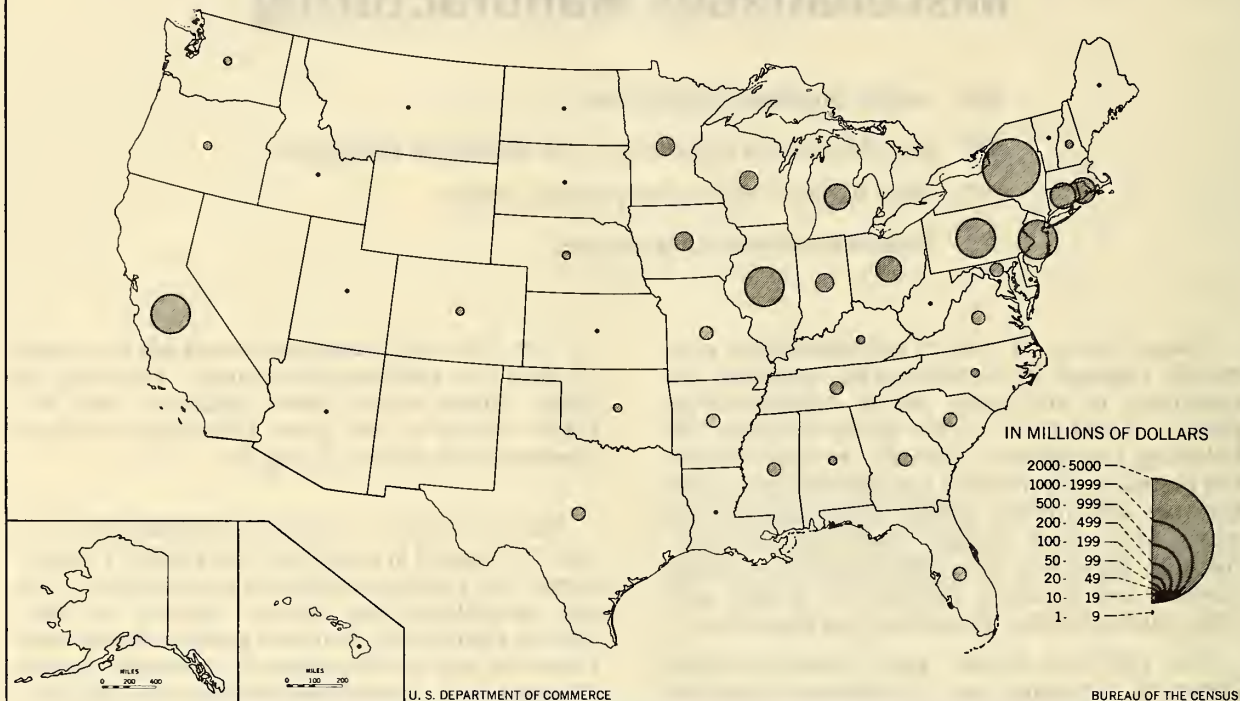




TABLE 1. General Statistics: 1963 and Earlier Years

| Year and item                                   | Establishments |                                    | All employees <sup>1</sup> |                    | Production workers |                   |                 | Value added by manufacture, adjusted <sup>2</sup> | Cost of materials <sup>3</sup> | Value of shipments <sup>3</sup> | Capital expenditures, new <sup>4</sup> |
|---|----------------|------------------------------------|----------------------------|--------------------|--------------------|-------------------|-----------------|---|--------------------------------|---------------------------------|--|
|   | Total (number) | With 20 employees or more (number) | Total (number)             | Payroll (\$1,000)  | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |   |                                |                                 |  |
| <b>ALL MANUFACTURING ESTABLISHMENTS, TOTAL:</b> |                |                                    |                            |                    |                    |                   |                 |   |                                |                                 |  |
| 1963 . . . . .                                  | 14 800         | 3 662                              | 397 638                    | 1 869 648          | 315 017            | 613 227           | 1 253 518       | 3 562 361   | 2 965 024                      | 6 494 830                       | 131 033                                |
| 1958 <sup>6</sup> . . . . .                     | 13 854         | 3 368                              | 370 920                    | 1 515 697          | 291 225            | 558 457           | 1 033 621       | 2 678 314   | (NA)                           | 4 965 475                       | 110 692                                |
| 1954 . . . . .                                  | (NA)           | (NA)                               | 472 445                    | 1 663 953          | 385 420            | 748 078           | 1 148 704       | 2 745 976   | (NA)                           | (NA)                            | 114 963                                |
| <b>ADMINISTRATIVE AND AUXILIARY UNITS:</b>      |                |                                    |                            |                    |                    |                   |                 |   |                                |                                 |  |
| 1963 <sup>5</sup> . . . . .                     | 77             | 44                                 | 6 878                      | 57 544             | (x)                | (x)               | (x)             | (x)   | (x)                            | (x)                             | (x)                                    |
| 1958 . . . . .                                  | 57             | 32                                 | 6 307                      | 48 318             | (x)                | (x)               | (x)             | (x)   | (x)                            | (x)                             | (x)                                    |
| 1954 <sup>8</sup> . . . . .                     | (NA)           | (NA)                               | <sup>8</sup> 5 719         | <sup>8</sup> 8 552 | (x)                | (x)               | (x)             | (x)   | (x)                            | (x)                             | (x)                                    |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                |                                    |                            |                    |                    |                   |                 |   |                                |                                 |  |
| 1963 <sup>6</sup> . . . . .                     | 14 723         | 3 618                              | 390 760                    | 1 812 104          | 315 017            | 613 227           | 1 253 518       | 3 562 361   | 2 965 024                      | 6 494 830                       | 131 033                                |
| 1958 <sup>6</sup> . . . . .                     | 13 797         | 3 336                              | 364 613                    | 1 467 379          | 291 225            | 558 457           | 1 033 621       | 2 678 314   | (NA)                           | 4 965 475                       | 110 692                                |
| 1954 . . . . .                                  | 16 517         | 4 289                              | 466 726                    | 1 625 401          | 385 420            | 748 078           | 1 148 704       | 2 745 976   | (x)                            | (x)                             | 114 963                                |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>  |                |                                    |                            |                    |                    |                   |                 |   |                                |                                 |  |
| 1962 <sup>6</sup> 7 . . . . .                   | (NA)           | (NA)                               | 378 404                    | 1 704 937          | 304 551            | 596 740           | 1 163 243       | 3 329 542   | 2 845 395                      | 6 109 739                       | 129 818                                |
| 1961 <sup>6</sup> 7 . . . . .                   | (NA)           | (NA)                               | 374 766                    | 1 608 335          | 302 515            | 585 364           | 1 096 764       | 3 082 421   | 2 736 258                      | 5 832 740                       | 112 481                                |
| 1960 <sup>6</sup> 7 . . . . .                   | (NA)           | (NA)                               | 373 523                    | 1 655 073          | 300 698            | 587 713           | 1 090 858       | 3 002 545   | (NA)                           | (NA)                            | 111 088                                |
| 1959 <sup>6</sup> 7 . . . . .                   | (NA)           | (NA)                               | 376 309                    | 1 555 999          | 305 041            | 590 706           | 1 083 946       | 2 887 876   | (NA)                           | (NA)                            | 124 324                                |
| 1957 7 . . . . .                                | (NA)           | (NA)                               | 495 157                    | 1 885 511          | 403 379            | 776 315           | 1 313 261       | 3 327 131   | (NA)                           | (NA)                            | 121 779                                |
| 1956 7 . . . . .                                | (NA)           | (NA)                               | 505 879                    | 1 860 809          | 416 651            | 813 933           | 1 323 779       | 3 304 841   | (NA)                           | (NA)                            | 158 077                                |
| 1955 7 . . . . .                                | (NA)           | (NA)                               | 489 262                    | 1 734 175          | 403 870            | 783 468           | 1 224 849       | 3 041 564   | (NA)                           | (NA)                            | 116 462                                |
| 1953 7 9 . . . . .                              | (NA)           | (NA)                               | 843 544                    | 3 232 056          | 686 051            | 1 367 817         | 2 366 408       | 5 271 811   | (NA)                           | (NA)                            | 205 876                                |
| 1952 7 9 . . . . .                              | (NA)           | (NA)                               | 681 858                    | 2 374 738          | 563 959            | 1 102 107         | 1 731 207       | 3 984 218   | (NA)                           | (NA)                            | (NA)                                   |
| 1951 7 9 . . . . .                              | 15 057         | (NA)                               | 519 105                    | 1 711 249          | 431 761            | 862 426           | 1 233 298       | 2 842 259   | (NA)                           | (NA)                            | 116 325                                |
| 1950 7 9 . . . . .                              | 13 764         | (NA)                               | 488 324                    | 1 452 037          | 403 996            | 799 458           | 1 054 672       | 2 534 332   | (NA)                           | (NA)                            | 98 275                                 |
| 1949 7 9 . . . . .                              | (NA)           | (NA)                               | 447 260                    | 1 262 735          | 370 167            | 727 492           | 917 012         | 2 108 682   | (NA)                           | (NA)                            | 77 047                                 |
| 1947 9 . . . . .                                | 14 148         | (NA)                               | 463 390                    | 1 205 212          | 396 002            | 811 288           | 917 572         | 2 066 259   | (NA)                           | (NA)                            | 106 960                                |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The figures for 1939 through 1963 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.

<sup>2</sup>For the period 1954 to 1963, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year.

<sup>3</sup>The total value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry classification. For more information, see Introduction.

<sup>4</sup>The figures for 1958 to 1963 include expenditures for plants under construction and not yet in operation.

<sup>5</sup>In addition to data for operating establishments, figures for employment and payroll

for manufacturing central administrative office and auxiliary units are included in industry group 39 for groups 39 and 19 for the years 1949 to 1953 in the annual survey of manufactures volumes. Data for these units are not available for the years 1955 to 1957, 1959 to 1962, and prior to 1949.

<sup>6</sup>Figures for 1958 to 1963 for operating manufacturing establishments are not strictly comparable with prior years due to revisions of the Standard Industrial Classification System. Prior to 1958, establishments primarily engaged in the manufacture of plastics products, n.e.c., cork products, soda-fountain and bar equipment, and jewelry, instrument and musical instrument cases, were included in these data. Establishments primarily engaged in the manufacture of linoleum and other hard surface floor covering, n.e.c., are excluded in data prior to 1958.

<sup>7</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

<sup>8</sup>In 1954, data for administrative and auxiliary establishments for Major Group 19, "Ordnance and Accessories," are included with Major Group 39, "Miscellaneous Manufactures."

<sup>9</sup>For 1953 and earlier years data includes ordnance and accessories.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Code | Industry group and geographic area | 1963           |                                    |                |                   |                    |                   |                 |  | 1958                                |                        |  |     |
|------|------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|-----|
|      |                                    | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |     |
|      |                                    | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |     |
| 39   | MISCELLANEOUS MANUFACTURING, TOTAL | 14 723         | 3 618                              | 390 760        | 1 812 104         | 315 017            | 613 227           | 1 253 518       | 3 562 361                                      | 131 033                             | 364 613                | 2 678 314                                      | 39  |
|      | NORTHEAST                          | 7 424          | 1 977                              | 214 092        | 970 743           | 175 087            | 339 333           | 684 598         | 1 897 090                                      | 66 850                              | 210 888                | 1 494 539                                      | 39  |
|      | NEW ENGLAND                        | 1 623          | 521                                | 67 079         | 308 719           | 54 365             | 106 020           | 214 102         | 620 500  | 17 456                              | 68 397                 | 463 966  | 39  |
|      | MAINE                              | 47             | 11                                 | 1 055          | 3 821             | 927                | 1 925             | 3 013           | 6 867  | 251                                 | 1 262                  | 7 111  | 39  |
|      | NEW HAMPSHIRE                      | 51             | 13                                 | 1 801          | 6 710             | 1 573              | 3 127             | 5 672           | 12 247   | 757                                 | 2 163                  | 12 545   | 39  |
|      | VERMONT                            | 25             | 8                                  | 487            | 1 607             | 394                | 713               | 1 210           | 3 721  | 842                                 | (D)                    | (D)  | 39  |
|      | MASSACHUSETTS                      | 542            | 189                                | 26 340         | 125 014           | 20 663             | 40 463            | 81 363          | 255 114  | 6 832                               | 25 461                 | 172 935  | 39  |
|      | RHODE ISLAND                       | 697            | 194                                | 21 239         | 84 042            | 17 676             | 33 627            | 59 102          | 152 303  | 3 519                               | (D)                    | (D)  | 39  |
|      | CONNECTICUT                        | 261            | 106                                | 16 157         | 87 525            | 13 132             | 26 165            | 63 742          | 190 248  | 5 255                               | (D)                    | (D)  | 39  |
|      | MIDDLE ATLANTIC                    | 5 801          | 1 456                              | 147 013        | 662 024           | 120 722            | 233 313           | 470 496         | 1 276 590                                      | 49 394                              | 142 491                | 1 030 573                                      | 39  |
|      | NEW YORK                           | 4 355          | 1 000                              | 91 307         | 405 411           | 75 204             | 144 640           | 286 857         | 771 796  | 26 159                              | 90 887                 | 644 462  | 39  |
|      | NEW JERSEY                         | 750            | 258                                | 28 998         | 131 965           | 23 566             | 46 163            | 91 406          | 239 831  | 12 238                              | (D)                    | (D)  | 39  |
|      | PENNSYLVANIA                       | 696            | 198                                | 26 708         | 124 648           | 21 952             | 42 510            | 92 233          | 264 963  | 10 997                              | (D)                    | (D)  | 39  |
|      | NORTH CENTRAL                      | 3 179          | 919                                | 101 132        | 505 961           | 79 000             | 155 768           | 338 131         | 979 773  | 35 209                              | 95 366                 | 762 993  | 39  |
|      | EAST NORTH CENTRAL                 | 2 391          | 712                                | 80 105         | 415 879           | 62 338             | 123 844           | 277 066         | 806 778  | 28 432                              | 77 117                 | 633 213  | 39  |
|      | OHIO                               | 532            | 160                                | 19 574         | 98 021            | 15 081             | 29 527            | 65 281          | 170 956  | 6 743                               | (D)                    | (D)  | 39  |
|      | INDIANA                            | 256            | 69                                 | 8 377          | 47 055            | 6 414              | 13 003            | 31 263          | 91 201   | 3 212                               | (D)                    | (D)  | 39  |
|      | ILLINOIS                           | 880            | 300                                | 31 998         | 165 963           | 25 186             | 50 477            | 110 624         | 310 714  | 11 439                              | 29 882                 | 253 970  | 39  |
|      | MICHIGAN                           | 444            | 106                                | 11 670         | 63 948            | 8 975              | 17 972            | 43 094          | 146 299  | 4 057                               | (D)                    | (D)  | 39  |
|      | WISCONSIN                          | 279            | 77                                 | 8 486          | 40 892            | 6 682              | 12 865            | 26 804          | 87 608   | 2 981                               | (D)                    | (D)  | 39  |
|      | WEST NORTH CENTRAL                 | 788            | 207                                | 21 027         | 90 082            | 16 662             | 31 924            | 61 065          | 172 995  | 6 777                               | 18 249                 | 129 780  | 39  |
|      | MINNESOTA                          | 203            | 63                                 | 6 015          | 26 995            | 4 758              | 9 122             | 18 485          | 50 750   | 2 955                               | (D)                    | (D)  | 39  |
|      | IOWA                               | 151            | 39                                 | 5 428          | 24 576            | 4 211              | 8 029             | 15 534          | 51 310   | 1 364                               | (D)                    | (D)  | 39  |
|      | MISSOURI                           | 253            | 80                                 | 6 865          | 27 483            | 5 485              | 10 396            | 19 218          | 47 639   | 1 301                               | (D)                    | (D)  | 39  |
|      | NORTH DAKOTA                       | 10             | 3                                  | 227            | 924               | 180                | 349               | 648             | 1 438  | 157                                 | 227                    | 1 307  | 39  |
|      | SOUTH DAKOTA                       | 21             | 1                                  | 164            | 604               | 127                | 252               | 412             | 1 083  | 33                                  | (D)                    | (D)  | 39  |
|      | NEBRASKA                           | 66             | 11                                 | 1 570          | 6 005             | 1 307              | 2 572             | 4 341           | 14 092   | 685                                 | (D)                    | (D)  | 39  |
|      | KANSAS                             | 84             | 10                                 | 758            | 3 495             | 594                | 1 204             | 2 427           | 6 683  | 282                                 | (D)                    | (D)  | 39  |
|      | SOUTH                              | 2 046          | 389                                | 43 598         | 171 560           | 36 429             | 70 917            | 123 593         | 349 744  | 13 526                              | 34 023                 | 221 867  | 39  |
|      | SOUTH ATLANTIC                     | 990            | 189                                | 21 482         | 87 284            | 17 841             | 34 590            | 61 911          | 176 913  | 7 366                               | (D)                    | (D)  | 39  |
|      | DELAWARE                           | 20             | 2                                  | 234            | 603               | 203                | 311               | 410             | 741  | 23                                  | (D)                    | (D)  | 39  |
|      | MARYLAND                           | 123            | 33                                 | 3 122          | 14 716            | 2 510              | 4 865             | 10 028          | 24 745   | 1 352                               | (D)                    | (D)  | 39  |
|      | DISTRICT OF COLUMBIA               | 23             | 4                                  | 240            | 1 418             | 173                | 338               | 988             | 1 959  | 82                                  | 186                    | 1 307  | 39  |
|      | VIRGINIA                           | 93             | 23                                 | 3 448          | 15 173            | 2 766              | 5 331             | 10 502          | 32 306   | 854                                 | (D)                    | (D)  | 39  |
|      | WEST VIRGINIA                      | 35             | 5                                  | 825            | 3 393             | 749                | 1 486             | 2 902           | 6 097  | 144                                 | (D)                    | (D)  | 39  |
|      | NORTH CAROLINA                     | 140            | 29                                 | 2 714          | 9 394             | 2 310              | 4 608             | 6 927           | 18 310   | 1 053                               | (D)                    | (D)  | 39  |
|      | SOUTH CAROLINA                     | 56             | 19                                 | 3 178          | 12 275            | 2 724              | 5 418             | 8 756           | 29 716   | 998                                 | 820                    | 4 837  | 39  |
|      | GEORGIA                            | 141            | 32                                 | 4 615          | 18 117            | 3 863              | 7 307             | 12 465          | 40 562   | 1 487                               | (D)                    | (D)  | 39  |
|      | FLORIDA                            | 359            | 42                                 | 3 106          | 12 195            | 2 543              | 4 926             | 8 933           | 22 477   | 1 373                               | (D)                    | (D)  | 39  |
|      | EAST SOUTH CENTRAL                 | 382            | 101                                | 11 616         | 43 716            | 9 907              | 19 415            | 32 403          | 90 063   | 3 649                               | (D)                    | (D)  | 39  |
|      | KENTUCKY                           | 87             | 16                                 | 1 756          | 8 250             | 1 443              | 2 929             | 5 913           | 15 378   | 865                                 | (D)                    | (D)  | 39  |
|      | TENNESSEE                          | 172            | 56                                 | 5 821          | 20 988            | 4 920              | 9 309             | 15 389          | 39 799   | 1 826                               | (D)                    | (D)  | 39  |
|      | ALABAMA                            | 84             | 20                                 | 1 596          | 5 971             | 1 356              | 2 676             | 4 247           | 10 021   | 325                                 | (D)                    | (D)  | 39  |
|      | MISSISSIPPI                        | 39             | 9                                  | 2 443          | 8 507             | 2 188              | 4 501             | 6 854           | 24 865   | 633                                 | 982                    | 5 040  | 39  |
|      | WEST SOUTH CENTRAL                 | 674            | 99                                 | 10 500         | 40 560            | 8 681              | 16 912            | 29 279          | 82 768   | 2 511                               | (D)                    | (D)  | 39  |
|      | ARKANSAS                           | 66             | 17                                 | 3 025          | 11 346            | 2 590              | 5 336             | 8 532           | 23 646   | 575                                 | 1 810                  | 12 023   | 39  |
|      | LOUISIANA                          | 81             | 9                                  | 1 047          | 3 782             | 850                | 1 607             | 2 732           | 6 429  | 176                                 | (D)                    | (D)  | 39  |
|      | OKLAHOMA                           | 102            | 8                                  | 1 092          | 4 427             | 884                | 1 720             | 3 319           | 12 515   | 294                                 | 892                    | 6 025  | 39  |
|      | TEXAS                              | 425            | 65                                 | 5 336          | 21 005            | 4 357              | 8 249             | 14 696          | 40 178   | 1 466                               | (D)                    | (D)  | 39  |
|      | WEST                               | 2 076          | 334                                | 31 986         | 164 019           | 24 559             | 47 202            | 107 261         | 335 025  | 15 384                              | 24 183                 | 198 122  | 39  |
|      | MOUNTAIN                           | 347            | 50                                 | 3 732          | 17 815            | 2 852              | 5 639             | 11 610          | 29 591   | 1 835                               | 3 428                  | 21 315   | 39  |
|      | MONTANA                            | 29             | -                                  | 165            | 876               | 121                | 217               | 593             | 1 964  | 28                                  | (D)                    | (D)  | 39  |
|      | IDAHO                              | 26             | 2                                  | 253            | 959               | 209                | 398               | 687             | 1 720  | 77                                  | (D)                    | (D)  | 39  |
|      | WYOMING                            | 6              | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | 417                    | 2 229  | 39  |
|      | COLORADO                           | 120            | 22                                 | 1 586          | 7 718             | 1 187              | 2 406             | 4 519           | 12 497   | 407                                 | (D)                    | (D)  | 39  |
|      | NEW MEXICO                         | 32             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  | 39  |
|      | ARIZONA                            | 66             | 8                                  | 471            | 2 171             | 355                | 669               | 1 582           | 3 577  | 141                                 | (D)                    | (D)  | 39  |
|      | UTAH                               | 47             | 11                                 | 650            | 3 112             | 522                | 1 062             | 2 267           | 4 864  | 1 009                               | (D)                    | (D)  | 39  |
|      | NEVADA                             | 21             | (D)                                | (D)            | (D)               | (D)                | (D)               | (D)             | (D)  | (D)                                 | (D)                    | (D)  | 39  |
|      | PACIFIC                            | 1 729          | 284                                | 28 254         | 146 204           | 21 707             | 41 563            | 95 651          | 305 434  | 13 549                              | 20 755                 | 176 807  | 39  |
|      | WASHINGTON                         | 192            | 24                                 | 1 796          | 9 268             | 1 433              | 2 632             | 6 642           | 14 896   | 575                                 | (D)                    | (D)  | 39  |
|      | OREGON                             | 126            | 22                                 | 1 493          | 6 927             | 1 176              | 2 114             | 4 673           | 11 488   | 653                                 | (D)                    | (D)  | 39  |
|      | CALIFORNIA                         | 1 365          | 236                                | 24 650         | 129 133           | 18 835             | 36 336            | 83 706          | 277 554  | 12 264                              | 17 761                 | 155 050  | 39  |
|      | ALASKA                             | 9              | -                                  | 19             | 92                | 14                 | 28                | 71              | 233  | 12                                  | 24                     | 176  | 39  |
|      | HAWAII                             | 37             | 2                                  | 296            | 784               | 249                | 453               | 559             | 1 263  | 45                                  | 162                    | 854  | 39  |
| 391  | JEWELRY AND SILVERWARE, TOTAL      | 2 193          | 387                                | 43 151         | 225 659           | 33 506             | 67 690            | 154 112         | 415 747  | 8 115                               | 41 179                 | 317 699  | 391 |
|      | NORTHEAST                          | 1 736          | 321                                | 36 333         | 190 332           | 28 511             | 57 559            | 130 472         | 343 545  | 6 885                               | 34 727                 | 265 698  | 391 |
|      | NEW ENGLAND                        | 438            | 150                                | 19 254         | 96 402            | 15 517             | 31 560            | 67 134          | 170 467  | 4 015                               | 18 391                 | 131 557  | 391 |
|      | MASSACHUSETTS                      | 112            | 46                                 | 7 143          | 38 014            | 5 353              | 10 959            | 22 237          | 61 639   | 1 936                               | 6 514                  | 44 026   | 391 |
|      | RHODE ISLAND                       | 292            | 89                                 | 8 467          | 36 724            | 6 898              | 13 832            | 25 694          | 71 953   | 1 543                               | 7 841                  | 52 350   | 391 |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area       | 1963           |                                    |                |                   |                    |                   |                 | 1958   |                                     |                        |  |
|------|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 391  | JEWELRY AND SILVERWARE—CONTINUED         |                |                                    |                |                   |                    |                   |                 |  |                                     |                        |  |
|      | MIDDLE ATLANTIC . . . . .                | 1 298          | 171                                | 17 079         | 93 930            | 12 994             | 25 999            | 63 338          | 173 078  | 2 870                               | 16 336                 | 134 141  |
|      | NEW YORK . . . . .                       | 1 096          | 122                                | 12 903         | 71 531            | 9 843              | 19 587            | 48 619          | 137 034  | 2 164                               | 11 812                 | 100 953  |
|      | NEW JERSEY . . . . .                     | 124            | 41                                 | 3 637          | 19 825            | 2 754              | 5 629             | 12 949          | 31 062   | 505                                 | 4 015                  | 29 136   |
|      | PENNSYLVANIA . . . . .                   | 78             | 8                                  | 539            | 2 574             | 397                | 783               | 1 770           | 4 982  | 201                                 | 509                    | 4 052  |
|      | NORTH CENTRAL AND SOUTH . . . . .        | 262            | 48                                 | 5 405          | 28 528            | 3 917              | 7 671             | 18 817          | 56 593   | 945                                 | 4 019                  | 32 816   |
|      | OHIO . . . . .                           | 46             | 6                                  | 417            | 2 181             | 329                | 632               | 1 612           | 4 893  | 68                                  | 567                    | 5 084  |
|      | INDIANA . . . . .                        | 20             | 4                                  | 949            | 5 620             | 713                | 1 510             | 3 922           | 12 519   | 220                                 | 793                    | 7 937  |
|      | ILLINOIS . . . . .                       | 54             | 12                                 | 1 167          | 6 098             | 847                | 1 710             | 3 879           | 12 174   | 255                                 | 1 024                  | 7 913  |
|      | MISSOURI . . . . .                       | 10             | 3                                  | 123            | 590               | 82                 | 174               | 409             | 1 032  | 20                                  | 103                    | 817  |
|      | MARYLAND . . . . .                       | 8              | 5                                  | 269            | 1 347             | 203                | 401               | 872             | 1 877  | (0)                                 | 273                    | 1 516  |
|      | OKLAHOMA . . . . .                       | 6              | 2                                  | 113            | 566               | 84                 | 176               | 389             | 1 070  | 10                                  | (0)                    | (0)  |
|      | TEXAS . . . . .                          | 18             | 1                                  | 300            | 1 434             | 210                | 445               | 904             | 2 775  | 28                                  | 461                    | 2 884  |
|      | WEST . . . . .                           | 198            | 20                                 | 1 789          | 8 783             | 1 420              | 2 813             | 6 550           | 18 998   | 332                                 | 1 559                  | 12 538   |
|      | MOUNTAIN . . . . .                       | 33             | 6                                  | 527            | 1 926             | 411                | 819               | 1 382           | 3 113  | 64                                  | 482                    | 2 126  |
|      | NEW MEXICO . . . . .                     | 7              | 2                                  | 202            | 771               | 132                | 259               | 378             | 1 391  | 19                                  | 242                    | 1 039  |
|      | PACIFIC . . . . .                        | 165            | 14                                 | 1 262          | 6 857             | 1 009              | 1 994             | 5 168           | 15 885   | 268                                 | 1 077                  | 10 412   |
|      | OREGON . . . . .                         | 9              | 1                                  | 110            | 622               | 89                 | 176               | 431             | 1 120  | (0)                                 | (0)                    | (0)  |
|      | CALIFORNIA . . . . .                     | 134            | 12                                 | 1 021          | 5 604             | 803                | 1 585             | 4 175           | 13 661   | 209                                 | 932                    | 9 254  |
| 393  | MUSICAL INSTRUMENTS AND PARTS, TOTAL     | 320            | 126                                | 20 095         | 103 029           | 16 664             | 33 600            | 76 471          | 179 035  | 5 779                               | 16 103                 | 120 935  |
| 394  | TOYS AND SPORTING GOODS, TOTAL . . . . . | 2 690          | 887                                | 113 133        | 460 948           | 94 275             | 179 084           | 324 575         | 978 485  | 51 151                              | 98 704                 | 711 798  |
|      | NORTHEAST . . . . .                      | 1 139          | 460                                | 56 534         | 217 941           | 48 118             | 90 629            | 156 806         | 448 457  | 25 367                              | 53 487                 | 362 146  |
|      | NEW ENGLAND . . . . .                    | 216            | 87                                 | 13 443         | 54 247            | 10 800             | 20 004            | 37 455          | 122 935  | 4 607                               | 12 807                 | 78 470   |
|      | NEW HAMPSHIRE . . . . .                  | 18             | 6                                  | 1 003          | 3 315             | 870                | 1 719             | 2 841           | 6 413  | (0)                                 | 1 200                  | 6 835  |
|      | MASSACHUSETTS . . . . .                  | 101            | 47                                 | 7 530          | 30 901            | 5 968              | 10 966            | 20 833          | 79 511   | 2 033                               | 6 950                  | 44 215   |
|      | RHODE ISLAND . . . . .                   | 19             | 7                                  | 1 884          | 6 579             | 1 570              | 2 736             | 4 716           | 14 384   | 482                                 | 1 266                  | 8 272  |
|      | CONNECTICUT . . . . .                    | 53             | 20                                 | 2 457          | 11 479            | 1 915              | 3 639             | 7 576           | 18 980   | 1 382                               | 2 585                  | 15 443   |
|      | MIDDLE ATLANTIC . . . . .                | 923            | 373                                | 43 091         | 163 694           | 37 318             | 70 625            | 119 351         | 325 522  | 20 760                              | 40 680                 | 283 676  |
|      | NEW YORK . . . . .                       | 660            | 252                                | 25 399         | 94 063            | 21 912             | 41 327            | 67 912          | 198 275  | 11 123                              | 27 223                 | 197 794  |
|      | NEW JERSEY . . . . .                     | 128            | 63                                 | 9 690          | 39 532            | 8 333              | 16 196            | 28 080          | 73 614   | 6 440                               | 6 635                  | 43 738   |
|      | PENNSYLVANIA . . . . .                   | 135            | 58                                 | 8 002          | 30 099            | 7 073              | 13 102            | 23 359          | 53 633   | 3 197                               | 6 822                  | 42 144   |
|      | NORTH CENTRAL . . . . .                  | 721            | 253                                | 31 159         | 137 872           | 25 382             | 48 908            | 96 762          | 294 905  | 13 813                              | 28 290                 | 227 016  |
|      | EAST NORTH CENTRAL . . . . .             | 528            | 187                                | 24 554         | 112 537           | 19 854             | 38 301            | 78 063          | 246 540  | 10 449                              | 22 917                 | 194 603  |
|      | OHIO . . . . .                           | 97             | 33                                 | 6 928          | 32 539            | 5 480              | 10 661            | 22 077          | 57 656   | 3 066                               | 6 782                  | 46 621   |
|      | INDIANA . . . . .                        | 42             | 11                                 | 1 212          | 5 332             | 992                | 1 850             | 3 701           | 8 933  | 275                                 | 2 162                  | 15 096   |
|      | ILLINOIS . . . . .                       | 176            | 72                                 | 8 197          | 37 941            | 6 795              | 13 013            | 27 430          | 76 885   | 4 161                               | 6 796                  | 66 996   |
|      | MICHIGAN . . . . .                       | 129            | 41                                 | 5 422          | 26 885            | 4 147              | 8 334             | 17 498          | 84 182   | 2 131                               | 5 117                  | 53 556   |
|      | WISCONSIN . . . . .                      | 84             | 30                                 | 2 795          | 9 840             | 2 440              | 4 443             | 7 357           | 18 884   | 816                                 | 2 060                  | 12 334   |
|      | WEST NORTH CENTRAL . . . . .             | 193            | 66                                 | 6 605          | 25 335            | 5 528              | 10 607            | 18 699          | 48 365   | 3 364                               | 5 373                  | 32 413   |
|      | MINNESOTA . . . . .                      | 65             | 23                                 | 2 214          | 9 222             | 1 945              | 3 809             | 6 907           | 19 628   | 2 092                               | 1 550                  | 10 498   |
|      | IOWA . . . . .                           | 33             | 15                                 | 1 510          | 5 832             | 1 208              | 2 347             | 4 145           | 12 652   | 570                                 | (0)                    | (0)  |
|      | MISSOURI . . . . .                       | 61             | 23                                 | 2 652          | 9 390             | 2 185              | 4 089             | 6 964           | 14 528   | 628                                 | 2 935                  | 16 298   |
|      | KANSAS . . . . .                         | 22             | 3                                  | 138            | 490               | 114                | 226               | 374             | 829  | 31                                  | 103                    | 731  |
|      | SOUTH . . . . .                          | 375            | 93                                 | 13 715         | 51 720            | 11 637             | 22 115            | 37 519          | 105 587  | 4 201                               | 10 141                 | 68 230   |
|      | SOUTH ATLANTIC . . . . .                 | 157            | 41                                 | 6 185          | 24 308            | 5 164              | 9 970             | 17 160          | 50 091   | 2 023                               | 4 601                  | 33 382   |
|      | MARYLAND . . . . .                       | 14             | 5                                  | 603            | 2 680             | 507                | 897               | 1 763           | 5 257  | (0)                                 | 401                    | 2 791  |
|      | WEST VIRGINIA . . . . .                  | 10             | 4                                  | 664            | 2 731             | 624                | 1 224             | 2 445           | 5 015  | 55                                  | (0)                    | (0)  |
|      | NORTH CAROLINA . . . . .                 | 19             | 4                                  | 533            | 1 654             | 451                | 933               | 1 328           | 2 666  | 350                                 | (0)                    | (0)  |
|      | FLORIDA . . . . .                        | 71             | 10                                 | 818            | 2 490             | 731                | 1 360             | 1 962           | 4 693  | 189                                 | 538                    | 3 220  |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area     | 1963           |                                    |                |                   |                    |                   |                 | 1958   |                                     |                        |  |
|------|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 394  | TOYS AND SPORTING GOODS—CONTINUED      |                |                                    |                |                   |                    |                   |                 |  |                                     |                        |  |
|      | EAST SOUTH CENTRAL . . . . .           | 78             | 25                                 | 2 970          | 11 144            | 2 576              | 4 669             | 8 359           | 20 053   | 1 108                               | 2 644                  | 16 876   |
|      | ALABAMA . . . . .                      | 22             | 6                                  | 628            | 2 368             | 543                | 1 090             | 1 632           | 3 855  | 138                                 | 605                    | 4 564  |
|      | WEST SOUTH CENTRAL . . . . .           | 140            | 27                                 | 4 560          | 16 268            | 3 897              | 7 476             | 12 000          | 35 443   | 1 070                               | 2 896                  | 17 972   |
|      | ARKANSAS . . . . .                     | 18             | 6                                  | 1 861          | 7 303             | 1 566              | 3 288             | 5 350           | 15 014   | 477                                 | 1 302                  | 9 477  |
|      | TEXAS . . . . .                        | 89             | 18                                 | 1 967          | 6 492             | 1 693              | 3 005             | 4 676           | 12 230   | 369                                 | 1 118                  | 6 350  |
|      | WEST . . . . .                         | 455            | 81                                 | 11 716         | 53 352            | 9 157              | 17 366            | 33 438          | 128 893  | 7 685                               | 6 786                  | 54 406   |
|      | MOUNTAIN . . . . .                     | 54             | 7                                  | 888            | 3 053             | 760                | 1 554             | 2 339           | 4 088  | 129                                 | 982                    | 4 967  |
|      | COLORADO . . . . .                     | 24             | 5                                  | 589            | 2 102             | 498                | 1 067             | 1 598           | 2 510  | 63                                  | 654                    | 3 478  |
|      | PACIFIC . . . . .                      | 401            | 74                                 | 10 828         | 50 299            | 8 397              | 15 812            | 31 099          | 124 805  | 7 556                               | 5 804                  | 49 439   |
|      | OREGON . . . . .                       | 32             | 7                                  | 560            | 1 958             | 488                | 840               | 1 501           | 3 317  | 206                                 | 299                    | 1 834  |
|      | CALIFORNIA . . . . .                   | 319            | 63                                 | 9 935          | 47 172            | 7 629              | 14 466            | 28 679          | 119 093  | 7 228                               | 5 225                  | 45 631   |
| 395  | PENS., PENCILS, OFFICE SUPPLIES, TOTAL | 1 001          | 266                                | 31 594         | 159 759           | 23 161             | 46 096            | 94 916          | 337 725  | 10 143                              | 29 131                 | 236 997  |
|      | NORTHEAST . . . . .                    | 427            | 132                                | 14 667         | 70 027            | 10 987             | 21 834            | 43 764          | 150 285  | 4 675                               | 14 072                 | 102 626  |
|      | NEW ENGLAND . . . . .                  | 86             | 24                                 | 2 593          | 13 547            | 1 940              | 3 820             | 8 433           | 44 350   | 923                                 | 2 716                  | 20 145   |
|      | MASSACHUSETTS . . . . .                | 46             | 7                                  | 833            | 4 104             | 660                | 1 284             | 3 009           | 13 287   | 338                                 | 690                    | 6 129  |
|      | RHODE ISLAND . . . . .                 | 10             | 3                                  | 400            | 1 791             | 359                | 712               | 3 768           | 52   | (D)                                 | (D)                    | (D)  |
|      | CONNECTICUT . . . . .                  | 26             | 14                                 | 1 355          | 7 625             | 917                | 1 816             | 4 076           | 27 222   | 530                                 | 1 628                  | 12 171   |
|      | MIDDLE ATLANTIC . . . . .              | 341            | 108                                | 12 074         | 56 480            | 9 047              | 18 014            | 35 331          | 105 935  | 3 752                               | 11 356                 | 82 481   |
|      | NEW YORK . . . . .                     | 208            | 65                                 | 6 329          | 29 891            | 4 909              | 9 598             | 18 750          | 55 643   | 2 103                               | 5 753                  | 42 078   |
|      | NEW JERSEY . . . . .                   | 75             | 27                                 | 3 511          | 15 200            | 2 484              | 5 109             | 9 400           | 28 839   | 1 041                               | 3 400                  | 24 321   |
|      | PENNSYLVANIA . . . . .                 | 58             | 16                                 | 2 234          | 11 389            | 1 654              | 3 307             | 7 201           | 21 453   | 608                                 | 2 203                  | 16 082   |
|      | NORTH CENTRAL AND SOUTH . . . . .      | 412            | 102                                | 13 766         | 71 430            | 10 007             | 19 924            | 41 420          | 143 896  | 3 735                               | 2 508                  | 109 316  |
|      | OHIO . . . . .                         | 46             | 10                                 | 1 519          | 8 361             | 918                | 1 794             | 4 223           | 15 865   | 258                                 | 1 610                  | 13 332   |
|      | ILLINOIS . . . . .                     | 77             | 35                                 | 2 369          | 12 821            | 1 741              | 3 544             | 7 809           | 24 774   | 764                                 | 2 025                  | 18 954   |
|      | MICHIGAN . . . . .                     | 30             | 6                                  | 458            | 3 228             | 298                | 636               | 2 018           | 5 304  | 157                                 | 416                    | 3 575  |
|      | MISSOURI . . . . .                     | 22             | 9                                  | 894            | 3 916             | 678                | 1 360             | 2 388           | 6 569  | 135                                 | 584                    | 3 547  |
|      | GEORGIA . . . . .                      | 15             | 6                                  | 1 719          | 7 825             | 1 398              | 2 889             | 4 691           | 19 300   | 466                                 | (D)                    | (D)  |
|      | FLORIDA . . . . .                      | 31             | 1                                  | 1 200          | 587               | 86                 | 167               | 442             | 1 132  | 44                                  | (D)                    | (D)  |
|      | TEXAS . . . . .                        | 29             | 2                                  | 188            | 948               | 123                | 254               | 585             | 2 003  | 103                                 | 222                    | 1 946  |
|      | WEST . . . . .                         | 162            | 32                                 | 3 161          | 18 302            | 2 167              | 4 338             | 9 732           | 43 544   | 1 733                               | 2 551                  | 25 055   |
|      | MOUNTAIN . . . . .                     | 26             | 5                                  | 282            | 2 208             | 135                | 278               | 579             | 3 568  | 57                                  | 278                    | 2 432  |
|      | COLORADO . . . . .                     | 10             | 4                                  | 233            | 1 949             | 115                | 237               | 484             | 3 107  | 33                                  | 204                    | 2 049  |
|      | PACIFIC . . . . .                      | 136            | 27                                 | 2 879          | 16 094            | 2 032              | 4 060             | 9 153           | 39 976   | 1 676                               | 2 273                  | 22 623   |
|      | WASHINGTON . . . . .                   | 12             | 1                                  | 105            | 526               | 63                 | 135               | 307             | 1 011  | 4                                   | (D)                    | (D)  |
|      | CALIFORNIA . . . . .                   | 115            | 25                                 | 2 709          | 15 214            | 1 920              | 3 833             | 8 579           | 38 304   | 1 641                               | 1 924                  | 19 985   |
| 396  | COSTUME JEWELRY AND NOTIONS, TOTAL     | 1 929          | 492                                | 52 483         | 214 061           | 43 894             | 83 919            | 152 518         | 414 812  | 13 029                              | 56 274                 | 338 324  |
|      | NORTHEAST . . . . .                    | 1 513          | 404                                | 43 244         | 179 428           | 35 957             | 68 661            | 126 729         | 324 572  | 9 575                               | 47 734                 | 283 146  |
|      | NEW ENGLAND . . . . .                  | 436            | 144                                | 19 592         | 84 398            | 16 440             | 31 374            | 59 531          | 152 412  | 4 105                               | 22 049                 | 125 925  |
|      | MASSACHUSETTS . . . . .                | 59             | 23                                 | 3 731          | 16 174            | 3 230              | 6 432             | 11 327          | 35 309   | 454                                 | 4 339                  | 29 631   |
|      | CONNECTICUT . . . . .                  | 56             | 35                                 | 6 160          | 32 054            | 5 008              | 9 904             | 22 965          | 59 425   | 2 182                               | 5 169                  | 36 105   |
|      | MIDDLE ATLANTIC . . . . .              | 1 077          | 260                                | 23 652         | 95 030            | 19 517             | 37 287            | 67 198          | 172 160  | 5 470                               | 25 685                 | 157 221  |
|      | NEW YORK . . . . .                     | 961            | 218                                | 18 313         | 71 401            | 15 310             | 29 014            | 51 131          | 132 096  | 3 891                               | 19 999                 | 117 453  |
|      | NEW JERSEY . . . . .                   | 77             | 27                                 | 2 936          | 12 478            | 2 485              | 4 904             | 9 149           | 23 489   | 1 020                               | 2 936                  | 21 432   |
|      | PENNSYLVANIA . . . . .                 | 39             | 15                                 | 2 403          | 11 151            | 1 722              | 3 369             | 6 918           | 16 575   | 559                                 | 2 750                  | 18 336   |
|      | NORTH CENTRAL . . . . .                | 158            | 40                                 | 3 914          | 14 694            | 3 208              | 5 926             | 9 773           | 32 455   | 1 188                               | 4 688                  | 30 827   |
|      | EAST NORTH CENTRAL . . . . .           | 103            | 22                                 | 1 866          | 7 627             | 1 466              | 2 630             | 4 735           | 16 541   | 542                                 | 2 734                  | 20 357   |
|      | OHIO . . . . .                         | 12             | 3                                  | 168            | 734               | 146                | 255               | 559             | 1 444  | 70                                  | 199                    | 2 136  |
|      | ILLINOIS . . . . .                     | 55             | 12                                 | 1 307          | 5 504             | 985                | 1 768             | 3 177           | 11 211   | 334                                 | 1 926                  | 12 515   |
|      | WEST NORTH CENTRAL . . . . .           | 55             | 18                                 | 2 048          | 7 067             | 1 742              | 3 296             | 5 038           | 15 914   | 646                                 | 1 954                  | 10 470   |
|      | MINNESOTA . . . . .                    | 11             | 3                                  | 130            | 305               | 115                | 193               | 234             | 511  | 4                                   | (D)                    | (D)  |
|      | SOUTH . . . . .                        | 126            | 34                                 | 3 975          | 14 096            | 3 586              | 7 064             | 11 791          | 46 803   | 1 938                               | 2 783                  | 18 163   |
|      | MARYLAND . . . . .                     | 12             | 3                                  | 174            | 695               | 152                | 289               | 492             | 1 381  | 111                                 | 300                    | 1 243  |
|      | VIRGINIA . . . . .                     | 10             | 4                                  | 772            | 2 847             | 717                | 1 343             | 2 517           | 4 664  | 170                                 | 503                    | 4 120  |
|      | NORTH CAROLINA . . . . .               | 16             | 4                                  | 501            | 1 680             | 454                | 881               | 1 373           | 4 664  | 207                                 | 188                    | 1 500  |
|      | FLORIDA . . . . .                      | 28             | 4                                  | 219            | 664               | 193                | 350               | 541             | 1 739  | 53                                  | 247                    | 928  |
|      | ALABAMA . . . . .                      | 6              | 4                                  | 243            | 815               | 215                | 452               | 627             | 1 589  | 27                                  | 131                    | 542  |
|      | WEST . . . . .                         | 132            | 14                                 | 1 350          | 5 843             | 1 143              | 2 268             | 4 225           | 10 981   | 328                                 | 1 069                  | 6 188  |
|      | MOUNTAIN . . . . .                     | 26             | 1                                  | 150            | 329               | 122                | 223               | 244             | 815  | 39                                  | (D)                    | (D)  |
|      | PACIFIC . . . . .                      | 106            | 13                                 | 1 200          | 5 514             | 1 021              | 2 045             | 3 981           | 10 166   | 289                                 | (D)                    | (D)  |
|      | CALIFORNIA . . . . .                   | 78             | 13                                 | 1 083          | 5 165             | 919                | 1 870             | 3 672           | 9 555  | 265                                 | 794                    | 4 837  |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code       | Industry group and geographic area          | 1963           |                                    |                |                   |                    |                   |                 |  | 1958                                |                        |  |
|------------|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|            |   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|            |   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 398<br>399 | MISCELLANEOUS MANUFACTURES, TOTAL . . . . . | 6 590          | 1 460                              | 130 304        | 648 648           | 103 517            | 202 938           | 450 926         | 1 236 557                                      | 42 816                              | 123 174                | 952 340  |
|            | NORTHEAST . . . . .                         | 2 501          | 621                                | 59 103         | 291 434           | 48 007             | 93 726            | 210 600         | 596 322  | 18 644                              | 56 487                 | 448 845  |
|            | NEW ENGLAND . . . . .                       | 420            | 107                                | 11 372         | 55 484            | 9 009              | 17 901            | 38 316          | 123 068  | 3 655                               | 11 121                 | 99 524   |
|            | MAINE . . . . .                             | 23             | 4                                  | 461            | 1 762             | 411                | 870               | 1 400           | 3 481  | 152                                 | (D)                    | (D)  |
|            | NEW HAMPSHIRE . . . . .                     | 21             | 4                                  | 576            | 2 474             | 534                | 1 067             | 2 195           | 4 034  | (D)                                 | 568                    | 4 109  |
|            | VERMONT . . . . .                           | 13             | 5                                  | 338            | 1 079             | 270                | 472               | 822             | 2 455  | (D)                                 | (O)                    | (O)  |
|            | MASSACHUSETTS . . . . .                     | 206            | 61                                 | 6 786          | 34 048            | 5 194              | 10 298            | 22 677          | 62 393   | 1 987                               | 6 597                  | 46 704   |
|            | RHODE ISLAND . . . . .                      | 63             | 11                                 | 1 007          | 3 627             | 846                | 1 729             | 2 843           | 6 184  | 134                                 | (O)                    | (O)  |
|            | CONNECTICUT . . . . .                       | 94             | 22                                 | 2 204          | 12 494            | 1 754              | 3 465             | 8 379           | 44 521   | 574                                 | (O)                    | (O)  |
|            | MIDDLE ATLANTIC . . . . .                   | 2 081          | 514                                | 47 731         | 235 950           | 38 998             | 75 825            | 172 284         | 473 254  | 14 989                              | 45 366                 | 349 321  |
|            | NEW YORK . . . . .                          | 1 379          | 325                                | 26 130         | 126 708           | 21 397             | 41 539            | 91 607          | 231 003  | 5 893                               | 24 019                 | 171 264  |
|            | NEW JERSEY . . . . .                        | 329            | 95                                 | 8 894          | 43 475            | 7 241              | 13 796            | 30 738          | 80 508   | 3 188                               | (O)                    | (O)  |
|            | PENNSYLVANIA . . . . .                      | 373            | 94                                 | 12 707         | 65 767            | 10 360             | 20 490            | 49 939          | 161 743  | 5 908                               | (O)                    | (O)  |
|            | NORTH CENTRAL . . . . .                     | 1 752          | 454                                | 42 058         | 218 797           | 32 596             | 64 884            | 144 788         | 392 904  | 13 580                              | 40 656                 | 316 155  |
|            | EAST NORTH CENTRAL . . . . .                | 1 308          | 357                                | 34 109         | 183 730           | 26 431             | 53 197            | 120 790         | 328 846  | 11 731                              | 33 244                 | 264 894  |
|            | OHIO . . . . .                              | 313            | 99                                 | 9 440          | 47 702            | 7 212              | 14 138            | 31 129          | 83 658   | 2 894                               | (D)                    | (D)  |
|            | INDIANA . . . . .                           | 141            | 31                                 | 3 585          | 20 542            | 2 656              | 5 498             | 12 623          | 44 004   | 2 150                               | (D)                    | (D)  |
|            | ILLINOIS . . . . .                          | 472            | 146                                | 14 007         | 76 426            | 11 089             | 22 628            | 50 910          | 129 127  | 4 092                               | 14 206                 | 109 845  |
|            | MICHIGAN . . . . .                          | 239            | 45                                 | 3 893          | 23 405            | 2 957              | 5 846             | 15 403          | 37 623   | 1 479                               | (D)                    | (O)  |
|            | WISCONSIN . . . . .                         | 143            | 36                                 | 3 184          | 15 655            | 2 517              | 5 087             | 10 725          | 34 434   | 1 116                               | (O)                    | (O)  |
|            | WEST NORTH CENTRAL . . . . .                | 444            | 97                                 | 7 949          | 35 067            | 6 165              | 11 687            | 23 998          | 64 058   | 1 849                               | 7 412                  | 51 261   |
|            | MINNESOTA . . . . .                         | 103            | 30                                 | 2 678          | 12 130            | 2 075              | 3 837             | 8 268           | 18 691   | 655                                 | (O)                    | (O)  |
|            | IOWA . . . . .                              | 85             | 12                                 | 1 337          | 5 960             | 1 028              | 1 994             | 4 043           | 13 758   | 256                                 | (D)                    | (O)  |
|            | MISSOURI . . . . .                          | 147            | 40                                 | 2 889          | 12 587            | 2 266              | 4 316             | 8 651           | 23 561   | 458                                 | (O)                    | (O)  |
|            | SOUTH OAKOTA . . . . .                      | 12             | 1                                  | 106            | 393               | 80                 | 154               | 257             | 646  | 20                                  | 56                     | 331  |
|            | KANSAS . . . . .                            | 47             | 5                                  | 430            | 1 895             | 323                | 653               | 1 314           | 3 362  | 234                                 | (D)                    | (D)  |
|            | SOUTH . . . . .                             | 1 261          | 209                                | 16 445         | 67 314            | 13 305             | 25 797            | 47 314          | 123 881  | 5 600                               | 14 547                 | 92 578   |
|            | SOUTH ATLANTIC . . . . .                    | 603            | 100                                | 8 474          | 35 359            | 6 873              | 13 033            | 24 458          | 63 485   | 3 298                               | (D)                    | (O)  |
|            | DELAWARE . . . . .                          | 14             | 1                                  | 195            | 440               | 172                | 253               | 288             | 470  | 13                                  | (D)                    | (D)  |
|            | MARYLAND . . . . .                          | 76             | 18                                 | 1 581          | 7 442             | 1 252              | 2 479             | 4 851           | 12 429   | 777                                 | (O)                    | (O)  |
|            | DISTRICT OF COLUMBIA . . . . .              | 14             | 3                                  | 172            | 1 041             | 133                | 263               | 769             | 1 403  | 53                                  | 119                    | 798  |
|            | VIRGINIA . . . . .                          | 62             | 10                                 | 969            | 4 379             | 788                | 1 528             | 3 099           | 7 666  | 252                                 | (O)                    | (O)  |
|            | WEST VIRGINIA . . . . .                     | 18             | 1                                  | 153            | 644               | 117                | 248               | 439             | 1 010  | 87                                  | (O)                    | (O)  |
|            | NORTH CAROLINA . . . . .                    | 86             | 18                                 | 1 338          | 4 577             | 1 148              | 2 245             | 3 295           | 8 311  | 365                                 | (D)                    | (O)  |
|            | SOUTH CAROLINA . . . . .                    | 35             | 8                                  | 793            | 3 583             | 635                | 1 294             | 2 265           | 8 491  | 259                                 | (O)                    | (O)  |
|            | GEORGIA . . . . .                           | 87             | 14                                 | 1 379          | 5 022             | 1 140              | 1 771             | 3 639           | 9 254  | 413                                 | (D)                    | (D)  |
|            | FLORIDA . . . . .                           | 211            | 27                                 | 1 894          | 8 231             | 1 488              | 2 952             | 5 813           | 14 451   | 1 079                               | (O)                    | (D)  |
|            | EAST SOUTH CENTRAL . . . . .                | 229            | 49                                 | 3 559          | 13 745            | 2 899              | 5 810             | 10 072          | 26 173   | 1 103                               | (O)                    | (O)  |
|            | KENTUCKY . . . . .                          | 56             | 10                                 | 706            | 3 029             | 594                | 1 210             | 2 255           | 5 529  | 177                                 | (O)                    | (D)  |
|            | TENNESSEE . . . . .                         | 99             | 26                                 | 1 907          | 7 116             | 1 520              | 3 065             | 5 203           | 14 699   | 699                                 | (D)                    | (O)  |
|            | ALABAMA . . . . .                           | 51             | 10                                 | 715            | 2 748             | 593                | 1 124             | 1 961           | 4 499  | 159                                 | (O)                    | (O)  |
|            | MISSISSIPPI . . . . .                       | 23             | 3                                  | 231            | 852               | 192                | 411               | 653             | 1 446  | 68                                  | 158                    | 925  |
|            | WEST SOUTH CENTRAL . . . . .                | 429            | 60                                 | 4 412          | 18 210            | 3 533              | 6 954             | 12 784          | 34 223   | 1 199                               | (D)                    | 28 689   |
|            | ARKANSAS . . . . .                          | 40             | 9                                  | 565            | 1 973             | 470                | 989               | 1 416           | 3 855  | 74                                  | 427                    | 2 253  |
|            | LOUISIANA . . . . .                         | 53             | 6                                  | 666            | 2 674             | 540                | 1 052             | 1 912           | 5 086  | 96                                  | (O)                    | (O)  |
|            | OKLAHOMA . . . . .                          | 68             | 5                                  | 537            | 2 186             | 404                | 798               | 1 560           | 3 952  | 127                                 | (D)                    | (D)  |
|            | TEXAS . . . . .                             | 268            | 40                                 | 2 644          | 11 377            | 2 119              | 4 115             | 7 896           | 21 330   | 902                                 | (D)                    | (O)  |
|            | WEST . . . . .                              | 1 078          | 177                                | 12 756         | 71 338            | 9 648              | 18 490            | 48 338          | 123 364  | 5 013                               | 11 374                 | 94 158   |
|            | MOUNTAIN . . . . .                          | 200            | 30                                 | 1 841          | 10 139            | 1 387              | 2 690             | 6 937           | 17 753   | 1 532                               | 1 501                  | 10 816   |
|            | MONTANA . . . . .                           | 17             | -                                  | 113            | 742               | 76                 | 140               | 479             | 1 686  | 14                                  | (D)                    | (D)  |
|            | COLORADO . . . . .                          | 63             | 11                                 | 632            | 3 240             | 469                | 895               | 2 077           | 5 898  | 262                                 | (D)                    | (D)  |
|            | NEW MEXICO . . . . .                        | 20             | 2                                  | 138            | 686               | 113                | 213               | 475             | 985  | 38                                  | (D)                    | (O)  |
|            | ARIZONA . . . . .                           | 36             | 5                                  | 308            | 1 584             | 228                | 439               | 1 161           | 2 632  | 103                                 | (D)                    | (D)  |
|            | UTAH . . . . .                              | 32             | 8                                  | 369            | 2 128             | 289                | 591               | 1 528           | 3 547  | 963                                 | (D)                    | (O)  |
|            | NEVADA . . . . .                            | 11             | 3                                  | 182            | 1 222             | 140                | 274               | 856             | 1 767  | 78                                  | (D)                    | (D)  |
|            | PACIFIC . . . . .                           | 878            | 147                                | 10 915         | 61 199            | 8 261              | 15 800            | 41 401          | 105 611  | 3 481                               | 9 873                  | 83 342   |
|            | WASHINGTON . . . . .                        | 102            | 17                                 | 1 052          | 6 004             | 812                | 1 481             | 4 100           | 8 759  | 408                                 | 948                    | 7 252  |
|            | OREGON . . . . .                            | 70             | 12                                 | 709            | 3 766             | 519                | 940               | 2 331           | 6 089  | 371                                 | 554                    | 4 462  |
|            | CALIFORNIA . . . . .                        | 683            | 116                                | 8 952          | 50 913            | 6 761              | 13 080            | 34 650          | 90 022   | 2 676                               | 8 371                  | 71 628   |
|            | HAWAII . . . . .                            | 19             | 2                                  | 194            | 465               | 163                | 287               | 279             | 632  | 19                                  | -                      | -  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

TABLE 3. Detailed Statistics: 1963

| Item   | Miscellaneous<br>manufacturing<br>(SIC 39) | Jewelry and silver-<br>ware (SIC 391) | Musical instruments<br>and parts (SIC 393) | Toys and sporting<br>goods (SIC 394) | Pens, pencils, and<br>office supplies<br>(SIC 395) | Costume jewelry<br>and notions<br>(SIC 396) | Miscellaneous<br>manufactures (SIC<br>398 and 399) |
|--|--|---------------------------------------|--|--------------------------------------|--|---|--|
| ESTABLISHMENTS, TOTAL . . . . . NUMBER . . . . .                                 | 14 723                                     | 2 193                                 | 320  | 2 690                                | 1 001  | 1 929                                       | 6 590  |
| WITH 1 TO 19 EMPLOYEES . . . . . DO . . . . .                                    | 11 104                                     | 1 806                                 | 194  | 1 803                                | 734  | 1 437                                       | 5 130  |
| WITH 20 TO 99 EMPLOYEES . . . . . DO . . . . .                                   | 2 832                                      | 316                                   | 79   | 627                                  | 199  | 390   | 1 221  |
| WITH 100 EMPLOYEES OR MORE . . . . . DO . . . . .                                | 786  | 71                                    | 47   | 260                                  | 67   | 102   | 239  |
| PROPRIETORS AND WORKING PARTNERS . . . . . DO . . . . .                          | 8 397                                      | 1 422                                 | 133  | 1 314                                | 531  | 1 110                                       | 3 887  |
| ALL EMPLOYEES (AVERAGE FOR THE YEAR) . . . . . DO . . . . .                      | 390 760                                    | 43 151                                | 20 095                                     | 113 133                              | 31 594   | 52 483                                      | 130 304  |
| PAYROLL (ALL EMPLOYEES), TOTAL FOR YEAR . . . . . \$1,000 . . . . .              | 1 812 104                                  | 225 659                               | 103 029                                    | 460 948                              | 159 759  | 214 061                                     | 648 648  |
| PRODUCTION WORKERS:  |  |                                       |  |                                      |  |   |  |
| AVERAGE FOR THE YEAR . . . . . NUMBER . . . . .                                  | 315 017                                    | 33 506                                | 16 664                                     | 94 275                               | 23 161   | 43 894                                      | 103 517  |
| MARCH . . . . . DO . . . . .   | 297 043                                    | 32 796                                | 17 218                                     | 80 807                               | 22 610   | 42 217                                      | 101 395  |
| MAY . . . . . DO . . . . .   | 307 438                                    | 33 130                                | 15 650                                     | 91 437                               | 22 923   | 42 187                                      | 102 111  |
| AUGUST . . . . . DO . . . . .  | 324 297                                    | 33 068                                | 16 226                                     | 101 925                              | 23 204   | 45 238                                      | 104 636  |
| NOVEMBER . . . . . DO . . . . .  | 331 969                                    | 35 096                                | 17 597                                     | 102 972                              | 23 959   | 46 087                                      | 106 258  |
| MAN-HOURS . . . . . 1,000 . . . . .  | 613 227                                    | 67 690                                | 33 600                                     | 179 084                              | 46 096   | 83 919                                      | 202 838  |
| JANUARY-MARCH . . . . . DO . . . . .   | 143 726                                    | 16 754                                | 8 388                                      | 37 655                               | 11 198   | 20 167                                      | 49 564   |
| APRIL-JUNE . . . . . DO . . . . .  | 151 757                                    | 16 761                                | 8 102                                      | 43 918                               | 11 542   | 20 643                                      | 50 791   |
| JULY-SEPTEMBER . . . . . DO . . . . .  | 153 633                                    | 15 942                                | 7 720                                      | 47 890                               | 11 387   | 20 843                                      | 49 851   |
| OCTOBER-DECEMBER . . . . . DO . . . . .  | 164 123                                    | 18 233                                | 9 390                                      | 49 632                               | 11 969   | 22 266                                      | 52 633   |
| WAGES . . . . . \$1,000 . . . . .  | 1 253 518                                  | 154 112                               | 76 471                                     | 324 575                              | 94 916   | 152 518                                     | 450 926  |
| COST OF MATERIALS, ETC., TOTAL <sup>1</sup> . . . . . DO . . . . .               | 2 965 024                                  | 441 822                               | 143 136                                    | 1 864 230                            | 252 046  | 1 347 058                                   | 916 732  |
| MATERIALS, PARTS, CONTAINERS, AND SUPPLIES CONSUMED . . . . . DO . . . . .       | 2 555 720                                  | 370 253                               | 132 015                                    | 736 862                              | 216 072  | 300 237                                     | 800 281  |
| COST OF REALES . . . . . DO . . . . .  | 270 630                                    | 48 353                                | 8 076                                      | 86 423                               | 25 825   | 23 886                                      | 78 067   |
| FUELS CONSUMED . . . . . DO . . . . .  | 17 188                                     | 1 714                                 | 919  | 4 360                                | 1 230  | 1 743                                       | 7 222  |
| ELECTRIC ENERGY:   |  |                                       |  |                                      |  |   |  |
| PURCHASED:   |  |                                       |  |                                      |  |   |  |
| QUANTITY . . . . . MILLION KW.-HRS. . . . .                                      | 1 868                                      | 184                                   | 77   | 582                                  | 146  | 253   | 626  |
| COST . . . . . \$1,000 . . . . .   | 31 346                                     | 3 211                                 | 1 357                                      | 9 370                                | 2 587  | 4 226                                       | 10 595   |
| GENERATED LESS SOLO . . . . . MILLION KW.-HRS. . . . .                           | 4 431                                      | 682                                   | (D)  | 1 398                                | (D)  | 647   | 1 051  |
| CONTRACT WORK . . . . . \$1,000 . . . . .  | 90 123                                     | 18 292                                | 769  | 27 214                               | 6 332  | 16 967                                      | 20 549   |
| VALUE OF SHIPMENTS (INCLUDING REALES), TOTAL <sup>1</sup> . . . . . DO . . . . . | 6 494 830                                  | 857 869                               | 314 407                                    | 1 826 798                            | 589 452  | 1 760 016                                   | 2 146 288  |
| VALUE OF REALES . . . . . DO . . . . .   | 413 356                                    | 64 176                                | 10 848                                     | 133 844                              | 37 464   | 44 520                                      | 122 504  |
| VALUE ADDED BY MANUFACTURE, ADJUSTED . . . . . DO . . . . .                      | 3 562 361                                  | 415 747                               | 179 035                                    | 978 485                              | 337 725  | 414 812                                     | 1 236 557  |
| MANUFACTURERS' INVENTORIES:  |  |                                       |  |                                      |  |   |  |
| BEGINNING OF YEAR, TOTAL . . . . . DO . . . . .                                  | 1 076 627                                  | 189 989                               | 55 295                                     | 334 249                              | 89 634   | 104 223                                     | 303 237  |
| FINISHED PRODUCTS . . . . . DO . . . . .   | 451 780                                    | 92 955                                | 12 252                                     | 158 385                              | 29 100   | 43 255                                      | 115 833  |
| WORK-IN-PROCESS . . . . . DO . . . . .   | 264 392                                    | 50 303                                | 27 515                                     | 69 915                               | 21 184   | 29 744                                      | 65 731   |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO . . . . .                             | 360 454                                    | 46 732                                | 15 528                                     | 105 948                              | 39 350   | 31 223                                      | 121 673  |
| END OF YEAR, TOTAL . . . . . DO . . . . .  | 1 115 703                                  | 193 683                               | 63 719                                     | 349 206                              | 91 289   | 107 352                                     | 310 455  |
| FINISHED PRODUCTS . . . . . DO . . . . .   | 470 726                                    | 93 097                                | 15 669                                     | 169 949                              | 29 380   | 44 054                                      | 118 577  |
| WORK-IN-PROCESS . . . . . DO . . . . .   | 278 179                                    | 50 009                                | 31 862                                     | 74 299                               | 21 222   | 30 799                                      | 69 988   |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO . . . . .                             | 366 793                                    | 50 577                                | 16 188                                     | 104 953                              | 40 686   | 32 499                                      | 121 890  |
| EXPENDITURES FOR PLANT AND EQUIPMENT, TOTAL . . . . . DO . . . . .               | 140 045                                    | 8 694                                 | 6 152                                      | 55 047                               | 10 606   | 13 969                                      | 45 577   |
| NEW, TOTAL . . . . . DO . . . . .  | 131 033                                    | 8 115                                 | 5 779                                      | 51 151                               | 10 143   | 13 029                                      | 42 816   |
| NEW STRUCTURES AND ADDITIONS TO PLANT . . . . . DO . . . . .                     | 34 101                                     | 1 994                                 | 2 551                                      | 13 501                               | 1 123  | 2 419                                       | 12 513   |
| NEW MACHINERY AND EQUIPMENT . . . . . DO . . . . .                               | 96 937                                     | 6 121                                 | 3 228                                      | 37 655                               | 9 020  | 10 610                                      | 30 303   |
| USED PLANT AND EQUIPMENT . . . . . DO . . . . .                                  | 9 010                                      | 579                                   | 373  | 3 893                                | 463  | 940   | 2 762  |
| SELECTED OPERATING RATIOS:   |  |                                       |  |                                      |  |   |  |
| PAYROLL/TOTAL EMPLOYMENT . . . . .   | 4 637                                      | 5 230                                 | 5 127                                      | 4 074                                | 5 057  | 4 079                                       | 4 978  |
| PRODUCTION WORKERS/TOTAL EMPLOYMENT . . . . .                                    | .81  | .78                                   | .83  | .83                                  | .73  | .84   | .79  |
| MAN-HOURS/PRODUCTION WORKERS . . . . .   | 1 947                                      | 2 020                                 | 2 016                                      | 1 900                                | 1 990  | 1 912                                       | 1 959  |
| PRODUCTION WORKER WAGES/MAN-HOURS . . . . .                                      | 2.04                                       | 2.28                                  | 2.28                                       | 1.81                                 | 2.06   | 1.82  | 2.22   |
| COST OF MATERIALS AND PAYROLLS/TOTAL VALUE OF SHIPMENTS . . . . .                | .74  | .78                                   | .78  | .73                                  | .70  | .74   | .73  |
| COST OF MATERIALS/TOTAL VALUE OF SHIPMENTS . . . . .                             | .46  | .52                                   | .46  | .47                                  | .43  | .46   | .43  |
| ADJUSTED VALUE ADDED/TOTAL EMPLOYMENT . . . . .                                  | 9 116                                      | 9 635                                 | 8 909                                      | 8 649                                | 10 690   | 7 904                                       | 9 490  |
| SALARIES AND WAGES/ADJUSTED VALUE ADDED . . . . .                                | .51  | .54                                   | .58  | .47                                  | .47  | .52   | .52  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.



## JEWELRY, SILVERWARE, AND PLATED WARE

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3911—Jewelry, Precious Metal
- 3912—Jewelers' Findings and Materials
- 3913—Lapidary Work and Cutting and Polishing Diamonds
- 3914—Silverware and Plated Ware

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1-4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3911—JEWELRY, PRECIOUS METAL

This industry comprises establishments primarily engaged in manufacturing jewelry and other articles, worn on or carried about the person, made of precious metals with or without stones (including the setting of stones where stones are used), including cigarette cases and lighters, vanity cases and compacts, trimmings for umbrellas and canes, and jewel settings and mountings. Establishments primarily engaged in manufacturing costume jewelry from nonprecious metals and other materials are classified in industry 3961. For a detailed list of products of industry 3911, refer to table 6A, product codes 3911298.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Jewelry, Precious Metal Industry in 1963 totaled \$482 million. This amount included shipments of precious metal jewelry (primary products) valued at \$387 million, shipments of other products (secondary products) valued at \$32 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$63 million.

This industry's shipments of precious metal jewelry in 1963 represented 92 percent of its total product shipments. The industry specialization ratio in 1958 was 95 percent.

Secondary products shipped by this industry in 1963 include costume jewelry and costume novelties, except precious metal (\$12 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 73 percent of the total industry shipments are represented by plants specializing in jewelry made of platinum metals and carat gold and 21 percent in Jewelry made of precious metals, except platinum metals and carat gold.

Shipments of precious metal jewelry by this industry in 1963 represented 97 percent of all shipments of these products (\$400 million) by all industries. In 1958 the coverage ratio was 98 percent. Another industry shipping precious metal jewelry (primary products) was industry 3961, Costume Jewelry \$4 million.

#### 3912--JEWELERS' FINDINGS AND MATERIALS

This industry comprises establishments primarily engaged in manufacturing unassembled jewelry parts and stock shop products such as sheet, wire, and tubing. Establishments primarily engaged in lapidary work are classified in industry 3913. For a detailed list of products of industry 3912, refer to table 6A, product codes 3912011 to 3912051.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Jewelers' Findings and Materials Industry in 1963 totaled \$73 million. This amount included shipments of jewelers' findings and materials (primary products) valued at \$63 million, shipments of other products (secondary products) valued at \$6 million, and miscellaneous receipts at \$4 million.

This industry's shipments of jewelers' findings and materials in 1963 represented 92 percent of its total product shipments. The industry specialization ratio in 1958 was 90 percent.

#### 3913--LAPIDARY WORK AND CUTTING AND POLISHING DIAMONDS

This industry comprises establishments primarily engaged in all types of lapidary work, and cutting and polishing diamonds. This industry also includes establishments primarily engaged in cutting and polishing other precious stones; recutting and setting stones; preparing jewels for instruments, tools, and for watches and chronometers; and preparing real and imitation stones for settings. For a detailed list of products of industry 3913, refer to table 6A, product codes 3913011 to 3913031.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Lapidary Work Industry in 1963 totaled \$65 million. This amount included receipts for lapidary work (primary products) valued at \$55 million, shipments of other products (secondary products) valued at \$4 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$6 million.

This industry's receipts for lapidary work in 1963 represented 93 percent of its total product shipments. The industry specialization ratio in 1958 was 99 percent.

Value of lapidary work by this industry in 1963 represented 81 percent of all shipments of these products (\$68 million) performed by all industries. In 1958 the coverage ratio was 87 percent.



Excluded from the \$68 million value of shipments of lapidary work reported by all industries is the value of lapidary work by establishments classified in other industries (i.e., jewelry, etc.) where (1) this activity is combined with other finishing operations in the production of jewelry or other products or (2) this activity is reported as a receipt for contract work. Contract receipts for lapidary work were not separately reported or tabulated. The relatively small amount of lapidary work done in retail stores is also excluded.

#### 3914—SILVERWARE AND PLATED WARE

This industry comprises establishments primarily engaged in manufacturing flatware (including knives, forks and spoons), hollow ware, toilet ware, ecclesiastical ware, and related products made of sterling silver; of metal plated with silver, gold, or other metal; of nickel silver; of pewter; or of stainless steel.

"Flatware" is defined for purposes of the census as all knives, forks, spoons, etc., made wholly of metal, including stainless steel knives, forks, and spoons, and carving sets with metal handles. Knives, forks, spoons, etc., with handles of materials other than metal are included in industry 3421, Cutlery. For a detailed list of products of industry 3914, refer to table 6A, product codes 3914111 to 3914261.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Silverware and Plated Ware Industry in 1963 totaled \$238 million. This amount included shipments of silverware and plated ware (primary products) valued at \$209 million, shipments of other products (secondary products) valued at \$11 million, and miscellaneous receipts, at \$19 million.

This industry's shipments of silverware and plated ware in 1963 represented 95 percent of its total product shipments. The industry specialization ratio in 1958 was also 95 percent.

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 66 percent of the total industry shipments are represented by plants specializing in jewelry made of platinum metals and karat gold and 21 percent in jewelry made of precious metals, except platinum metals and karat gold.

Shipments of silverware and plated ware by this industry in 1963 represented 98 percent of all shipments of these products (\$212 million) by all industries. In 1958 the coverage ratio was also 98 percent.

**JEWELRY AND SILVERWARE: SIC 391**  
**Value Added by Manufacture by State: 1963**

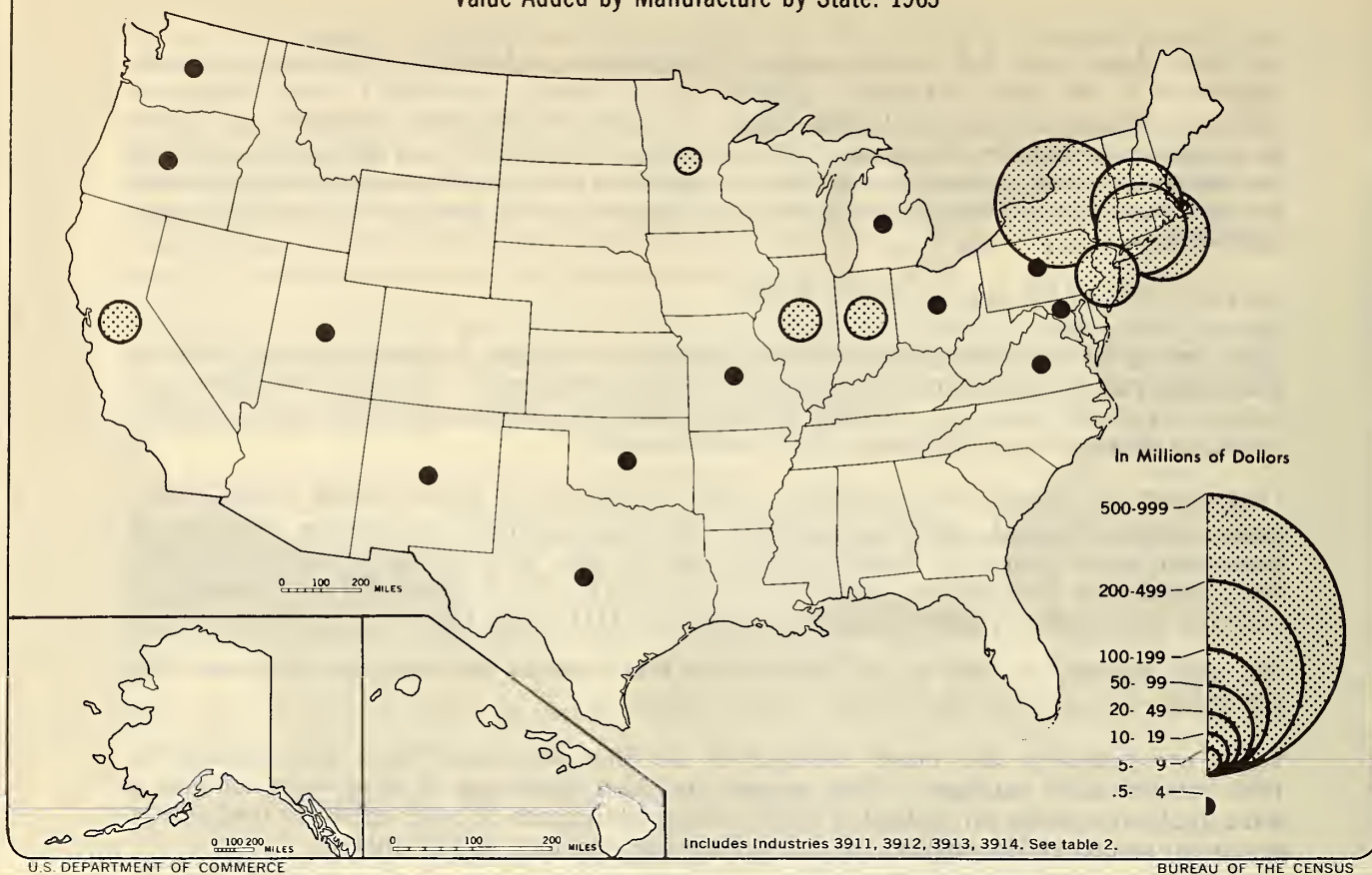




TABLE 1. General Statistics: 1963 and Earlier Years

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3911.—JEWELRY, PRECIOUS METAL          |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                       | 1,428                      | 1,438             | 218  | 23,551            | 125,610              | 17,455             | 35,601               | 79,251             | 234,925  | 248,405                           | 481,943                            | 3,676   | 92  | 97                                       |
| 1962 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 21,740            | 112,888              | 16,092             | 34,617               | 72,533             | 203,942  | 210,974                           | 411,367                            | 1,764   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 21,384            | 106,495              | 15,753             | 33,392               | 67,824             | 189,561  | 198,019                           | 386,492                            | 2,384   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 20,775            | 102,578              | 15,459             | 32,476               | 65,456             | 188,953  | 182,280                           | 362,719                            | 2,424   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 20,596            | 99,136               | 15,510             | 32,137               | 64,107             | 174,567  | 173,512                           | 348,324                            | (2,850)   | (NA)  | (NA)                                     |
| 1958.....                                       | 1,300                      | 1,302             | 183  | 21,196            | 95,134               | 15,924             | 30,749               | 60,726             | 166,579  | 160,480                           | 327,251                            | 3,461   | 95  | 98                                       |
| 1954.....                                       | 1,323                      | 1,327             | 204  | 23,455            | 90,373               | 18,440             | 36,438               | 58,328             | 149,600  | 123,312                           | 273,537                            | 1,836   | 93  | 96                                       |
| 1953 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 21,806            | 89,091               | 17,547             | 35,369               | 62,360             | 148,051  | 129,989                           | 278,040                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                       | 1,342                      | 1,344             | 254  | 25,566            | 76,462               | 20,610             | 42,877               | 54,222             | 140,478  | 107,707                           | 248,185                            | 2,674   | 92  | 95                                       |
| 1939.....                                       | (NA)                       | 886               | (NA)   | 15,058            | 22,388               | (NA)               | 11,358               | 14,243             | 36,822   | 34,597                            | 71,419                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> .....                         | (NA)                       | 789               | (NA)   | (NA)              | (NA)                 | (NA)               | (NA)                 | 14,737             | 36,014   | 33,512                            | 69,526                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3912.—JEWELERS' FINDINGS AND MATERIALS |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                       | 228                        | 228               | 67   | 4,816             | 20,836               | 3,924              | 7,684                | 14,001             | 33,958   | 38,816                            | 72,833                             | 1,308   | 92  | 89                                       |
| 1962 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 4,854             | 21,485               | 3,909              | 7,702                | 13,948             | 38,798   | 37,631                            | 74,834                             | (944)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 4,666             | 19,149               | 3,784              | 7,295                | 12,826             | 34,640   | 32,823                            | 67,743                             | (894)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 4,497             | 18,519               | 3,626              | 7,027                | 12,318             | 37,724   | 31,715                            | 65,843                             | (1,284)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 4,265             | 17,886               | 3,524              | 7,139                | 12,417             | 30,009   | 33,691                            | 64,329                             | (1,247)   | (NA)  | (NA)                                     |
| 1958.....                                       | 248                        | 248               | 55   | 4,227             | 16,380               | 3,496              | 6,776                | 11,479             | 26,787   | 29,947                            | 57,475                             | 637   | 90  | 87                                       |
| 1957 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 6,056             | 22,892               | 4,867              | 9,398                | 15,051             | 36,654   | 42,889                            | 80,817                             | 890   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 6,064             | 22,215               | 5,055              | 9,910                | 14,937             | 42,573   | 44,303                            | 84,307                             | 2,954   | (NA)  | (NA)                                     |
| 1954.....                                       | 234                        | 234               | 61   | 5,371             | 18,911               | 4,542              | 9,281                | 13,414             | 31,439   | 38,686                            | 70,275                             | 1,558   | 92  | 91                                       |
| 1952 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 7,282             | 23,903               | 6,444              | 12,666               | 18,020             | 35,001   | 60,145                            | 95,146                             | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 7,922             | 24,054               | 6,990              | 13,487               | 18,247             | 40,698   | 61,438                            | 102,136                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                       | 180                        | 182               | 62   | 6,056             | 17,350               | 5,203              | 11,001               | 12,389             | 29,714   | 43,816                            | 73,530                             | 2,005   | 92  | 93                                       |
| 1939.....                                       | (NA)                       | 82                | (NA)   | 3,412             | 4,790                | 2,813              | (NA)                 | 2,975              | 7,996  | 14,493                            | 22,489                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                       | (NA)                       | 71                | (NA)   | 2,949             | 4,303                | 2,470              | (NA)                 | 3,002              | 7,110  | 14,574                            | 21,684                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                       | (NA)                       | 73                | (NA)   | 3,099             | 3,865                | 2,663              | (NA)                 | 2,728              | 6,179  | 10,991                            | 17,170                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....                                       | (NA)                       | 60                | (NA)   | 2,115             | 2,113                | 1,811              | (NA)                 | 1,604              | 3,747  | 5,503                             | 9,250                              | (NA)  | (NA)  | (NA)                                     |
| 1931 <sup>2</sup> .....                         | (NA)                       | 99                | (NA)   | (NA)              | (NA)                 | 1,899              | (NA)                 | 2,343              | 4,855  | 7,121                             | 11,976                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3913.—LAPIDARY WORK                    |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                       | 318                        | 318               | 15   | 1,535             | 8,289                | 1,239              | 2,265                | 6,085              | 16,129   | 45,706                            | 65,094                             | 393   | 93  | 81                                       |
| 1962 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | (1,929)           | (8,310)              | (1,721)            | (2,879)              | (5,794)            | (16,473)   | (28,398)                          | (44,852)                           | (329)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | (2,115)           | (8,903)              | (1,877)            | (3,352)              | (6,444)            | (19,869)   | (30,887)                          | (48,284)                           | (480)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | (1,694)           | (7,967)              | (1,458)            | (2,811)              | (5,598)            | (14,735)   | (25,103)                          | (40,043)                           | (S)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | (1,857)           | (8,261)              | (1,594)            | (2,951)              | (5,790)            | (17,661)   | (30,098)                          | (45,745)                           | (S)   | (NA)  | (NA)                                     |
| 1958.....                                       | 326                        | 326               | 18   | 1,904             | 8,061                | 1,625              | 2,985                | 6,154              | 14,605   | 24,853                            | 40,428                             | 253   | 99  | 87                                       |
| 1954.....                                       | 332                        | 333               | 14   | 1,759             | 5,459                | 1,591              | 2,757                | 4,067              | 11,181   | 29,136                            | 40,266                             | 118   | 97  | 91                                       |
| 1947.....                                       | 270                        | 270               | (NA)   | 1,699             | 5,524                | 1,525              | 3,068                | 4,532              | 10,860   | 19,409                            | 30,269                             | 148   | 98  | 98                                       |
| 1939.....                                       | (NA)                       | 90                | (NA)   | 317               | 490                  | 267                | (NA)                 | 391                | 1,374  | 3,755                             | 5,129                              | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                       | (NA)                       | 51                | (NA)   | 271               | 426                  | 217                | (NA)                 | 306                | 1,048  | 3,343                             | 4,391                              | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                       | (NA)                       | 60                | (NA)   | 203               | 295                  | 153                | (NA)                 | 201                | 806  | 1,244                             | 2,050                              | (NA)  | (NA)  | (NA)                                     |
| 1933.....                                       | (NA)                       | 34                | (NA)   | 136               | 154                  | 107                | (NA)                 | 124                | 483  | 823                               | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1931.....                                       | (NA)                       | 53                | (NA)   | (NA)              | (NA)                 | 205                | (NA)                 | 340                | 1,097  | 1,378                             | 2,475                              | (NA)  | (NA)  | (NA)                                     |
| 1929.....                                       | (NA)                       | 100               | (NA)   | 629               | 1,399                | 506                | (NA)                 | 1,002              | 3,707  | 8,235                             | 11,942                             | (NA)  | (NA)  | (NA)                                     |
| 1927.....                                       | (NA)                       | 92                | (NA)   | 681               | 1,587                | 547                | (NA)                 | 1,221              | 3,219  | 9,133                             | 12,352                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....                                       | (NA)                       | 83                | (NA)   | 692               | 1,608                | 589                | (NA)                 | 1,285              | 2,850  | 7,273                             | 10,123                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....                                       | (NA)                       | 87                | (NA)   | 768               | 1,622                | 644                | (NA)                 | 1,286              | 3,243  | 5,887                             | 9,130                              | (NA)  | (NA)  | (NA)                                     |
| 1921.....                                       | (NA)                       | 64                | (NA)   | 516               | 1,112                | 399                | (NA)                 | 738                | 1,505  | 2,840                             | 4,345                              | (NA)  | (NA)  | (NA)                                     |
| 1919.....                                       | (NA)                       | 124               | (NA)   | 1,322             | 3,536                | 1,155              | (NA)                 | 2,838              | 10,688   | 19,363                            | 30,051                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....                                       | (NA)                       | 89                | (NA)   | 688               | 807                  | 584                | (NA)                 | 641                | 1,419  | 3,941                             | 5,360                              | (NA)  | (NA)  | (NA)                                     |
| 1909.....                                       | (NA)                       | 77                | (NA)   | 796               | 1,084                | 627                | (NA)                 | 889                | 2,613  | 6,560                             | 9,173                              | (NA)  | (NA)  | (NA)                                     |
| 1904.....                                       | (NA)                       | 54                | (NA)   | 609               | 766                  | 507                | (NA)                 | 657                | 1,423  | 6,224                             | 7,647                              | (NA)  | (NA)  | (NA)                                     |
| 1899.....                                       | (NA)                       | 60                | (NA)   | 541               | 550                  | 498                | (NA)                 | 499                | 1,130  | 4,656                             | 5,786                              | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3914.—SILVERWARE AND PLATED WARE       |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                       | 201                        | 209               | 87   | 13,249            | 70,924               | 10,888             | 22,140               | 54,775             | 130,735  | 108,895                           | 237,999                            | 2,738   | 95  | 98                                       |
| 1962 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 13,969            | 72,043               | 11,531             | 23,395               | 55,810             | 130,047  | 107,636                           | 235,716                            | 2,391   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 14,101            | 67,980               | 11,631             | 23,081               | 51,979             | 130,231  | 102,721                           | 232,874                            | 2,178   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 14,368            | 68,252               | 11,814             | 23,266               | 51,425             | 123,932  | 100,087                           | 221,652                            | (S)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 14,396            | 68,514               | 11,824             | 23,873               | 52,661             | 121,302  | 98,957                            | 217,348                            | (S)   | (NA)  | (NA)                                     |
| 1958.....                                       | 198                        | 209               | 87   | 13,852            | 62,318               | 11,226             | 21,851               | 47,602             | 109,728  | 85,185                            | 196,055                            | 2,478   | 95  | 98                                       |
| 1957 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 15,358            | 67,244               | 12,690             | 24,605               | 52,407             | 111,458  | 83,386                            | 193,782                            | (NA)  | 89  | 96                                       |
| 1956 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 15,881            | 68,598               | 13,077             | 26,309               | 53,445             | 117,762  | 94,180                            | 212,277                            | 4,025   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                         | (NA)                       | (NA)              | (NA)   | 16,965            | 71,134               | 14,036             | 28,615               | 55,169             | 116,515  | 99,849                            | 211,703                            | 3,987   | (NA)  | (NA)                                     |
| 1954.....                                       | 190                        | 207               | 97   | 17,345            | 68,064               | 14,379             | 28,957               | 53,876             | 109,836  | 105,711                           | 217,183                            | 3,826   | 91  | 97                                       |

See footnotes at end of table.

TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3914.—SILVERWARE AND PLATED WARE—Continued |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1953 <sup>1</sup> .....                             | (NA)                       | (NA)              | (NA)   | 18,087            | 72,524               | 14,782             | 31,006               | 57,128             | 114,832  | 103,089                           | 217,921                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                             | (NA)                       | (NA)              | (NA)   | 19,151            | 71,613               | 15,837             | 32,761               | 55,080             | 118,318  | 100,915                           | 219,233                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                             | (NA)                       | (NA)              | (NA)   | 22,504            | 78,296               | 18,889             | 37,720               | 60,973             | 130,640  | 117,332                           | 247,972                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                             | (NA)                       | (NA)              | (NA)   | 24,192            | 81,795               | 20,184             | 42,810               | 64,353             | 139,487  | 123,085                           | 262,572                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                             | (NA)                       | (NA)              | (NA)   | 23,998            | 77,944               | 20,360             | 42,495               | 61,192             | 124,108  | 103,192                           | 227,300                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....   | 221                        | 236               | (NA)   | 21,848            | 69,149               | 18,791             | 41,723               | 56,363             | 123,311  | 98,273                            | 221,584                            | 5,358   | 98  | 97                                       |
| 1939.....   | (NA)                       | 153               | (NA)   | (NA)              | (NA)                 | 13,166             | (NA)                 | 16,574             | 39,628   | 26,415                            | 66,043                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....   | (NA)                       | 136               | (NA)   | 13,248            | 17,496               | 11,361             | (NA)                 | 13,790             | 34,063   | 22,670                            | 56,733                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....   | (NA)                       | 139               | (NA)   | 11,865            | 14,240               | 10,194             | (NA)                 | 11,078             | 28,074   | 15,298                            | 43,372                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....   | (NA)                       | 126               | (NA)   | 10,340            | 9,911                | 9,177              | (NA)                 | 8,229              | 21,908   | 12,425                            | 34,333                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....   | (NA)                       | 163               | (NA)   | (NA)              | (NA)                 | 11,077             | (NA)                 | 12,713             | 34,023   | 11,792                            | 45,815                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....   | (NA)                       | 179               | (NA)   | 18,697            | 30,278               | 15,735             | (NA)                 | 22,578             | 58,996   | 26,886                            | 85,882                             | (NA)  | (NA)  | (NA)                                     |
| 1927.....   | (NA)                       | 178               | (NA)   | 19,558            | 30,985               | 16,719             | (NA)                 | 23,945             | 56,047   | 31,377                            | 87,424                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....   | (NA)                       | 183               | (NA)   | 19,827            | 30,433               | 16,877             | (NA)                 | 23,844             | 53,685   | 33,177                            | 86,862                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....   | (NA)                       | 181               | (NA)   | 20,182            | 29,691               | 17,090             | (NA)                 | 22,971             | 50,432   | 30,673                            | 81,105                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....   | (NA)                       | 169               | (NA)   | 17,573            | 23,381               | 14,822             | (NA)                 | 17,815             | 36,981   | 21,374                            | 58,355                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....   | (NA)                       | 167               | (NA)   | 18,976            | 24,039               | 15,945             | (NA)                 | 18,273             | 39,934   | 30,827                            | 70,761                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....   | (NA)                       | 180               | (NA)   | 18,344            | 13,303               | 15,787             | (NA)                 | 9,796              | 21,691   | 16,580                            | 38,271                             | (NA)  | (NA)  | (NA)                                     |
| 1909.....   | (NA)                       | 183               | (NA)   | 18,660            | 13,027               | 16,610             | (NA)                 | 10,282             | 23,897   | 18,332                            | 42,229                             | (NA)  | (NA)  | (NA)                                     |
| 1904.....   | (NA)                       | 158               | (NA)   | 16,185            | 10,356               | 14,861             | (NA)                 | 8,625              | 18,381   | 14,459                            | 32,840                             | (NA)  | (NA)  | (NA)                                     |
| 1899.....   | (NA)                       | 169               | (NA)   | 13,334            | 7,988                | 12,205             | (NA)                 | 6,531              | 14,455   | 11,659                            | 26,114                             | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1954 excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1954 excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>No comparable data available for earlier years.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                    | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3911.—JEWELRY, PRECIOUS METAL          |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                      | 1,438          | 218                                | 23,551         | 125,610           | 17,455             | 35,601            | 79,251          | 234,925                              | 248,405           | 481,943            | 3,676                     | 21,196           | 166,579                              |
| New England.....                                | 189            | 63                                 | 7,596          | 38,129            | 5,901              | 12,226            | 23,000          | 65,418                               | 37,725            | 103,712            | 1,378                     | 6,787            | 41,451                               |
| Massachusetts....                               | 59             | 21                                 | 3,949          | 22,565            | 2,825              | 6,056             | 11,909          | 32,146                               | 17,867            | 50,091             | 675                       | 3,293            | 20,014                               |
| Rhode Island.....                               | 120            | 42                                 | 3,610          | 15,363            | 3,049              | 6,111             | 10,936          | 33,077                               | 19,618            | 53,148             | 701                       | 3,448            | 21,132                               |
| Middle Atlantic....                             | 912            | 115                                | 11,184         | 62,356            | 8,130              | 16,283            | 39,394          | 115,909                              | 170,982           | 284,707            | 1,594                     | 10,086           | 85,386                               |
| New York.....                                   | 780            | 85                                 | 8,288          | 46,540            | 6,002              | 11,893            | 29,268          | 92,321                               | 150,404           | 239,780            | 1,210                     | 7,120            | 63,227                               |
| New Jersey.....                                 | 70             | 26                                 | 2,511          | 14,073            | 1,864              | 3,860             | 9,007           | 20,475                               | 17,226            | 38,433             | 356                       | 2,630            | 19,642                               |
| Pennsylvania....                                | 62             | 4                                  | 385            | 1,743             | 264                | 530               | 1,119           | 3,113                                | 3,352             | 6,494              | 28                        | 336              | 2,517                                |
| East North Central.                             | 107            | 17                                 | 1,941          | 11,041            | 1,371              | 2,885             | 7,265           | 23,196                               | 16,144            | 39,181             | 242                       | 1,757            | 16,742                               |
| Ohio.....                                       | 35             | 5                                  | 293            | 1,615             | 221                | 440               | 1,123           | 2,957                                | 2,627             | 5,517              | 55                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Illinois.....                                   | 34             | 4                                  | 475            | 2,618             | 347                | 742               | 1,834           | 5,593                                | 5,248             | 10,853             | 77                        | 391              | 3,782                                |
| Michigan.....                                   | 18             | 6                                  | 356            | 2,181             | 197                | 397               | 1,075           | 4,536                                | 4,075             | 8,420              | 47                        | 277              | 2,618                                |
| West North Central.                             | 21             | 5                                  | 857            | 4,737             | 514                | 1,099             | 2,678           | 10,144                               | 8,675             | 18,816             | 173                       | 756              | 9,242                                |
| South Atlantic....                              | 27             | 2                                  | 134            | 628               | 107                | 226               | 505             | 1,091                                | 960               | 2,067              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| East South Central.                             | 6              | 2                                  | 139            | 470               | 111                | 234               | 388             | 562                                  | 209               | 791                | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West South Central.                             | 23             | 2                                  | 368            | 1,751             | 262                | 557               | 1,158           | 3,350                                | 1,835             | 5,276              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Mountain.....                                   | 21             | 5                                  | 463            | 1,655             | 361                | 718               | 1,147           | 2,539                                | 2,806             | 5,316              | 42                        | 453              | 1,978                                |
| Pacific.....                                    | 132            | 7                                  | 869            | 4,843             | 698                | 1,373             | 3,716           | 12,716                               | 9,069             | 22,077             | 190                       | 845              | 8,650                                |
| California.....                                 | 106            | 6                                  | 712            | 4,086             | 562                | 1,099             | 3,066           | 11,448                               | 8,119             | 19,827             | 174                       | 579              | 6,987                                |
| INDUSTRY 3912.—JEWELERS' FINDINGS AND MATERIALS |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                      | 228            | 67                                 | 4,816          | 20,836            | 3,924              | 7,684             | 14,001          | 33,958                               | 38,816            | 72,833             | 1,308                     | 4,227            | 26,787                               |
| New England.....                                | 137            | 48                                 | 3,463          | 14,431            | 2,864              | 5,589             | 9,783           | 22,571                               | 17,355            | 39,698             | 1,089                     | 3,308            | 19,716                               |
| Rhode Island.....                               | 122            | 39                                 | 3,103          | 12,928            | 2,558              | 4,982             | 8,728           | 20,409                               | 14,448            | 34,556             | 495                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Middle Atlantic....                             | 80             | 19                                 | 1,330          | 6,335             | 1,040              | 2,057             | 4,160           | 11,106                               | 21,310            | 32,702             | 208                       | 865              | 6,749                                |
| New York.....                                   | 56             | 10                                 | 731            | 3,356             | 583                | 1,163             | 2,215           | 5,699                                | 14,619            | 20,573             | 88                        | 335              | 3,052                                |
| North Central, South and West....               | 11             | -                                  | 23             | 70                | 20                 | 38                | 58              | 281                                  | 151               | 433                | 11                        | 54               | 322                                  |
| INDUSTRY 3913.—LAPIDARY WORK                    |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                      | 318            | 15                                 | 1,535          | 8,289             | 1,239              | 2,265             | 6,085           | 16,129                               | 45,706            | 65,094             | 393                       | 1,904            | 14,605                               |
| New England.....                                | 46             | 4                                  | 262            | 810               | 225                | 412               | 603             | 1,828                                | 980               | 3,093              | 41                        | 269              | 1,358                                |
| Middle Atlantic....                             | 223            | 9                                  | 868            | 5,419             | 698                | 1,247             | 4,005           | 10,948                               | 41,435            | 54,787             | 188                       | 1,171            | 11,048                               |
| New York.....                                   | 209            | 8                                  | 803            | 4,971             | 648                | 1,146             | 3,693           | 9,756                                | 32,313            | 44,361             | 173                       | 975              | 9,951                                |
| North Central.....                              | 23             | 2                                  | 330            | 1,743             | 251                | 485               | 1,194           | 2,901                                | 2,865             | 6,076              | 161                       | 232              | 1,015                                |
| South and West....                              | 26             | -                                  | 75             | 317               | 65                 | 121               | 283             | 452                                  | 426               | 1,138              | 3                         | 232              | 1,184                                |
| INDUSTRY 3914.—SILVERWARE AND PLATED WARE       |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                      | 209            | 87                                 | 13,249         | 70,924            | 10,888             | 22,140            | 54,775          | 130,735                              | 108,895           | 237,999            | 2,738                     | 13,852           | 109,728                              |
| New England.....                                | 66             | 35                                 | 7,933          | 43,032            | 6,527              | 13,333            | 33,748          | 80,650                               | 71,853            | 151,007            | 1,507                     | 8,026            | 69,031                               |
| Connecticut.....                                | 21             | 13                                 | 3,542          | 21,273            | 3,185              | 6,601             | 18,943          | 36,492                               | 40,255            | 76,388             | 534                       | 3,947            | 34,621                               |
| Middle Atlantic....                             | 83             | 28                                 | 3,698          | 19,813            | 3,126              | 6,412             | 15,778          | 35,114                               | 25,567            | 60,808             | 880                       | 4,215            | 30,959                               |
| New York.....                                   | 51             | 19                                 | 3,081          | 16,664            | 2,610              | 5,385             | 13,443          | 29,258                               | 21,300            | 50,743             | 693                       | 3,363            | 24,724                               |
| New Jersey.....                                 | 22             | 5                                  | 485            | 2,417             | 404                | 810               | 1,777           | 4,455                                | 3,141             | 7,534              | 24                        | 727              | 5,118                                |
| Pennsylvania....                                | 10             | 4                                  | 132            | 732               | 112                | 217               | 558             | 1,401                                | 1,126             | 2,531              | 163                       | 125              | 1,117                                |
| North Central.....                              | 24             | 11                                 | 862            | 4,317             | 654                | 1,240             | 2,724           | 9,150                                | 7,043             | 16,155             | 193                       | 885              | 6,767                                |
| Illinois.....                                   | 13             | 8                                  | 655            | 3,325             | 474                | 921               | 1,955           | 6,401                                | 5,184             | 11,496             | 173                       | 589              | 3,958                                |
| South Atlantic....                              | 9              | 4                                  | 322            | 1,505             | 248                | 480               | 952             | 2,093                                | 1,862             | 3,951              | 56                        | 379              | 473                                  |
| West.....                                       | 22             | 8                                  | 381            | 1,983             | 295                | 598               | 1,419           | 3,200                                | 2,143             | 5,118              | 93                        | 347              | 2,498                                |
| California.....                                 | 16             | 6                                  | 274            | 1,401             | 210                | 428               | 1,003           | 2,060                                | 1,630             | 3,484              | 31                        | 292              | 2,065                                |
| All other divisions                             | 5              | 1                                  | 53             | 274               | 38                 | 77                | 154             | 528                                  | 427               | 960                | 9                         | -                | -                                    |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State. SIC 3911, Jewelry, Precious Metal: New England—New Hampshire, 3 (1-19); Vermont, 1 (1-19); Connecticut, 6 (20-99); East North Central—Indiana, 13 (784); Wisconsin, 7 (20-99); West North Central—Minnesota, 8 (500-999); Iowa, 1 (1-19); Missouri, 7 (111); South Dakota, 4 (20-99); Nebraska, 1 (1-19); South Atlantic—Maryland, 2 (20-99); District of Columbia, 5 (1-19); Virginia, 1 (1-19); North Carolina, 3 (1-19); Georgia, 7 (1-19); Florida, 9 (20-99); East South Central—Kentucky, 3 (20-99); Tennessee, 3 (100-249); West South Central—Louisiana, 3 (1-19); Oklahoma, 5 (20-99); Texas, 15 (273); Mountain—Montana, 1 (1-19); Idaho, 2 (1-19); Colorado, 5 (1-19); New Mexico, 5 (100-249); Arizona, 5 (20-99); Utah, 3 (216); Pacific—Washington, 13 (20-99); Oregon, 7 (20-99) Alaska, 3 (1-19); Hawaii, 3 (20-99).

Footnotes continued on next page.

## Footnotes for Table 2—39A—Continued

SIC 3912, Jewelers' Findings and Materials: New England—New Hampshire, 1 (20-99); Massachusetts, 14 (250-499); Middle Atlantic—New Jersey, 22 (500-999); Pennsylvania, 2 (1-19); East North Central—Ohio, 1 (1-19); Illinois, 1 (1-19); South Atlantic—North Carolina, 1 (1-19); Florida, 1 (1-19); East South Central—Mississippi, 1 (1-19); Mountain—Colorado, 1 (1-19); New Mexico, 1 (1-19); Pacific—California, 4 (1-19).

SIC 3913, Lapidary Work: New England—Massachusetts, 6 (100-249); Rhode Island, 40 (100-249); Middle Atlantic—New Jersey, 10 (20-99); Pennsylvania, 4 (20-99); East North Central—Ohio, 5 (1-19); Indiana, 3 (114); Illinois, 6 (20-99); Michigan, 4 (20-99); West North Central—Minnesota, 1 (1-19); Missouri, 3 (1-19); North Dakota, 1 (100-249); South Atlantic—Maryland, 1 (1-19); North Carolina, 2 (1-19); Georgia, 1 (1-19); Florida, 2 (1-19); East South Central—Kentucky, 1 (1-19); West South Central—Louisiana, 1 (1-19); Texas, 1 (1-19); Mountain—Colorado, 2 (1-19); New Mexico, 1 (1-19); Arizona, 4 (1-19); Pacific—Washington, 1 (1-19); California, 8 (20-99); Alaska, 1 (1-19).

SIC 3914, Silverware and Plated Ware: New England—Maine, 2 (20-99); Massachusetts, 33 (2,771); Rhode Island, 10 (1,000-2,499); East North Central—Ohio, 5 (111); Indiana, 4 (20-99); Michigan, 2 (1-19); West North Central—Iowa, 1 (20-99); Kansas, 1 (1-19); South Atlantic—Maryland, 5 (205); Virginia, 1 (100-249); North Carolina, 1 (1-19); South Carolina, 1 (1-19); Florida, 1 (1-19); East South Central—Tennessee, 1 (20-99); Alabama, 1 (1-19); West South Central—Oklahoma, 1 (20-99); Texas, 2 (20-99); Mountain—Colorado, 1 (20-99); Arizona, 1 (1-19); Nevada, 1 (1-19); Pacific—Washington, 1 (1-19); Oregon, 2 (20-99).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.



TABLE 3. Detailed Statistics: 1963

| Item   | Jewelry,<br>precious<br>metal<br>(SIC 3911) | Jewelers'<br>findings<br>and<br>materials<br>(SIC 3912) | Lapidary<br>work<br>(SIC 3913) | Silverware and<br>plated ware<br>(SIC 3914) |
|--|---|---|--------------------------------|---|
| Primary product specialization ratio.....                      | .92   | .92   | .93                            | .95   |
| Coverage ratio.....  | .97   | .89   | .81                            | .98   |
| Establishments, total.....number..                             | 1,438                                       | 228   | 318                            | 209   |
| With 1 to 19 employees.....do....                              | 1,220                                       | 161   | 303                            | 122   |
| With 20 to 99 employees.....do....                             | 183   | 58  | 13                             | 62  |
| With 100 employees or more.....do....                          | 35  | 9   | 2                              | 25  |
| Proprietors and working partners.....do....                    | 929   | 107   | 307                            | 79  |
| All employees (average for the year).....do....                | 23,551                                      | 4,816   | 1,535                          | 13,249                                      |
| Payroll (all employees), total for year.....\$1,000..          | 125,610                                     | 20,836  | 8,289                          | 70,924                                      |
| Production workers:  |   |   |                                |   |
| Average for the year.....number..                              | 17,455                                      | 3,924   | 1,239                          | 10,888                                      |
| March.....do....   | 17,016                                      | 3,803   | 1,229                          | 10,748                                      |
| May.....do....   | 17,237                                      | 3,838   | 1,223                          | 10,832                                      |
| August.....do....  | 17,157                                      | 3,993   | 1,236                          | 10,682                                      |
| November.....do....  | 18,456                                      | 4,087   | 1,265                          | 11,288                                      |
| Man-hours.....1,000..  | 35,601                                      | 7,684   | 2,265                          | 22,140                                      |
| January-March.....do....                                       | 8,699                                       | 1,882   | 568                            | 5,605                                       |
| April-June.....do....  | 8,824                                       | 1,909   | 572                            | 5,456                                       |
| July-September.....do....                                      | 8,409                                       | 1,832   | 539                            | 5,162                                       |
| October-December.....do....                                    | 9,669                                       | 2,061   | 586                            | 5,917                                       |
| Wages.....\$1,000..  | 79,251                                      | 14,001  | 6,085                          | 54,775                                      |
| Cost of materials, etc., total.....do....                      | 248,405                                     | 38,816  | 45,706                         | 108,895                                     |
| Materials, parts, containers, and supplies consumed.....do.... | 196,640                                     | 36,601  | 39,559                         | 97,453                                      |
| Cost of resales.....do....                                     | 37,481                                      | 598   | 3,539                          | 6,735                                       |
| Fuels consumed.....do....                                      | 368   | 163   | 78                             | 1,105                                       |
| Electric energy:   |   |   |                                |   |
| Purchased:   |   |   |                                |   |
| Quantity.....million kw.-hrs..                                 | 55  | 14  | 14                             | 101   |
| Cost.....\$1,000..   | 1,097                                       | 308   | 224                            | 1,582                                       |
| Generated less sold.....million kw.-hrs..                      | (D)   | -   | -                              | (D)   |
| Contract work.....\$1,000..                                    | 12,820                                      | 1,146   | 2,306                          | 2,020                                       |
| Value of shipments (including resales), total.....do....       | 481,943                                     | 72,833  | 65,094                         | 237,999                                     |
| Value of resales.....do....                                    | 50,048                                      | 852   | 5,525                          | 7,751                                       |
| Value added by manufacture, adjusted.....do....                | 234,925                                     | 33,958  | 16,129                         | 130,735                                     |
| Manufacturers' inventories:                                    |   |   |                                |   |
| Beginning of year, total.....do....                            | 99,797                                      | 12,448  | 18,652                         | 59,092                                      |
| Finished products.....do....                                   | 49,360                                      | 4,906   | 12,778                         | 25,911                                      |
| Work-in-process.....do....                                     | 22,874                                      | 5,033   | 2,127                          | 20,269                                      |
| Materials, supplies, fuel, etc.....do....                      | 27,564                                      | 2,509   | 3,747                          | 12,912                                      |
| End of year, total.....do....                                  | 105,295                                     | 12,486  | 15,273                         | 60,628                                      |
| Finished products.....do....                                   | 51,038                                      | 5,385   | 9,860                          | 26,814                                      |
| Work-in-process.....do....                                     | 22,583                                      | 4,633   | 1,786                          | 21,007                                      |
| Materials, supplies, fuel, etc.....do....                      | 31,675                                      | 2,468   | 3,627                          | 12,807                                      |
| Expenditures for plant and equipment, total.....do....         | 3,922                                       | 1,364   | 401                            | 3,007                                       |
| New, total.....do....  | 3,676                                       | 1,308   | 393                            | 2,738                                       |
| New structures and additions to plant.....do....               | 1,112                                       | 516   | 39                             | 327   |
| New machinery and equipment.....do....                         | 2,564                                       | 792   | 354                            | 2,411                                       |
| Used plant and equipment.....do....                            | 246   | 56  | 8                              | 269   |
| Selected operating ratios:                                     |   |   |                                |   |
| Payroll/Total employment.....                                  | 5,333                                       | 4,326   | 5,400                          | 5,353                                       |
| Production workers/Total employment.....                       | .74   | .81   | .81                            | .82   |
| Man-hours/Production workers.....                              | 2,039                                       | 1,958   | 1,828                          | 2,033                                       |
| Production worker wages/Man-hours.....                         | 2.23  | 1.82  | 2.69                           | 2.47  |
| Cost of materials and payrolls/Total value of shipments.....   | .78   | .82   | .83                            | .76   |
| Cost of materials/Total value of shipments.....                | .52   | .53   | .70                            | .46   |
| Adjusted value added/Total employment.....                     | 9,975                                       | 7,051   | 10,507                         | 9,867                                       |
| Salaries and wages/Adjusted value added.....                   | .53   | .61   | .51                            | .54   |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3911.—JEWELRY, PRECIOUS METAL          |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 1,438                 | 754                                | 256              | 210                | 128                | 55                 | 25                   | 4                    | 5                    | 1                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 23,551                | 1,312                              | 1,711            | 2,817              | 3,882              | 3,763              | 3,871                | 1,269                | 4,926                | (D)                      | -                        |
| Payroll.....\$1,000..                           | 125,610               | 6,247                              | 8,718            | 14,909             | 20,173             | 19,298             | 19,403               | 6,309                | 30,553               | (D)                      | -                        |
| Value added, adjusted.....do....                | 234,925               | 12,817                             | 15,483           | 24,789             | 37,682             | 35,535             | 42,492               | 10,565               | 55,562               | (D)                      | -                        |
| Value of shipments.....do....                   | 481,943               | 29,839                             | 34,520           | 58,810             | 85,626             | 63,686             | 108,678              | 16,351               | 84,433               | (D)                      | -                        |
| Capital expenditures, new.....do....            | 3,676                 | 251                                | 207              | 374                | 541                | 439                | 973                  | (D)                  | 891                  | (D)                      | -                        |
| INDUSTRY 3912.—JEWELERS' FINDINGS AND MATERIALS |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 228                   | 93                                 | 41               | 27                 | 46                 | 12                 | 7                    | 2                    | -                    | -                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 4,816                 | 176                                | 274              | 372                | 1,427              | 841                | 1,726                | (D)                  | -                    | -                        | -                        |
| Payroll.....\$1,000..                           | 20,836                | 591                                | 1,000            | 1,402              | 6,440              | 3,742              | 7,661                | (D)                  | -                    | -                        | -                        |
| Value added, adjusted.....do....                | 33,958                | 1,397                              | 1,813            | 2,247              | 9,487              | 6,751              | 12,264               | (D)                  | -                    | -                        | -                        |
| Value of shipments.....do....                   | 72,833                | 2,632                              | 3,175            | 4,267              | 17,156             | 22,300             | 23,303               | (D)                  | -                    | -                        | -                        |
| Capital expenditures, new.....do....            | 1,308                 | 68                                 | 114              | 89                 | 299                | 548                | 190                  | (D)                  | -                    | -                        | -                        |
| INDUSTRY 3913.—LAPIDARY WORK                    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 318                   | 246                                | 38               | 19                 | 11                 | 2                  | 2                    | -                    | -                    | -                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 1,535                 | 349                                | 249              | 238                | 283                | 416                | (D)                  | -                    | -                    | -                        | -                        |
| Payroll.....\$1,000..                           | 8,289                 | 1,552                              | 1,467            | 1,017              | 1,878              | 2,375              | (D)                  | -                    | -                    | -                        | -                        |
| Value added, adjusted.....do....                | 16,129                | 2,573                              | 3,205            | 2,730              | 3,129              | 4,492              | (D)                  | -                    | -                    | -                        | -                        |
| Value of shipments.....do....                   | 65,094                | 11,018                             | 22,992           | 7,774              | 10,341             | 12,969             | (D)                  | -                    | -                    | -                        | -                        |
| Capital expenditures, new.....do....            | 393                   | 56                                 | 44               | 63                 | 55                 | 175                | (D)                  | -                    | -                    | -                        | -                        |
| INDUSTRY 3914.—SILVERWARE AND PLATED WARE       |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                     | 209                   | 70                                 | 27               | 25                 | 45                 | 17                 | 11                   | 8                    | 4                    | 2                        | -                        |
| All employees:                                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                                | 13,249                | 119                                | 190              | 343                | 1,373              | 1,181              | 1,593                | 2,632                | 5,818                | (D)                      | -                        |
| Payroll.....\$1,000..                           | 70,924                | 582                                | 852              | 1,587              | 6,563              | 5,950              | 8,159                | 13,336               | 33,895               | (D)                      | -                        |
| Value added, adjusted.....do....                | 130,735               | 1,126                              | 1,414            | 2,748              | 11,867             | 10,745             | 14,633               | 26,604               | 61,598               | (D)                      | -                        |
| Value of shipments.....do....                   | 237,999               | 2,237                              | 2,946            | 5,711              | 21,176             | 18,001             | 24,472               | 48,113               | 115,343              | (D)                      | -                        |
| Capital expenditures, new.....do....            | 2,738                 | 31                                 | 31               | 26                 | 298                | 222                | 432                  | 375                  | 1,323                | (D)                      | -                        |

- Represents zero.  
(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                 | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                |
|-----------|--|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|----------------|
|           |  | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio |
|           |  | Col. B             | Col. B           | Col. C             | Col. D                 | Col. E                               | Col. F                             | Col. G                | Col. H                   | Col. I         |
|           |  | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | (percent)                            | (\$1,000)                          | (\$1,000)             | (\$1,000)                | (percent)      |
|           |  | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I              |
| 3911      | Jewelry, precious metal.....1963..       | 481,943            | 387,312          | 32,070             | 62,561                 | 92                                   | 400,376                            | 387,312               | 13,064                   | 97             |
|           | 1958..                                   | 327,251            | 280,753          | 14,786             | 31,712                 | 95                                   | 287,148                            | 280,753               | 6,395                    | 98             |
| 3912      | Jewelers' findings and materials..1963.. | 72,833             | 62,582           | 5,797              | 4,454                  | 92                                   | 70,476                             | 62,582                | 7,894                    | 89             |
|           | 1958..                                   | 57,475             | 49,171           | 5,523              | 2,781                  | 90                                   | 56,771                             | 49,171                | 7,600                    | 87             |
| 3913      | Lapidary work.....1963..                 | 65,094             | 55,167           | 4,225              | 5,702                  | 93                                   | 67,718                             | 55,167                | 12,551                   | 81             |
|           | 1958..                                   | 40,428             | 37,518           | 520                | 2,390                  | 99                                   | 43,270                             | 37,518                | 5,752                    | 87             |
| 3914      | Silverware and plated ware.....1963..    | 237,999            | 208,613          | 10,884             | 18,502                 | 95                                   | 211,864                            | 208,613               | 3,251                    | 98             |
|           | 1958..                                   | 196,055            | 174,882          | 10,165             | 11,008                 | 95                                   | 178,765                            | 174,882               | 3,883                    | 98             |

note: See Introduction for an explanation of terms used.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c)

miscellaneous receipts: The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code | Class of products and miscellaneous receipts  | All industries | Jewelry, precious metal (SIC 3911)          | Other industries | Prod. class code | Class of products and miscellaneous receipts  | All industries | Lapidary work (SIC 3913)              | Other industries |
|------------------|---|----------------|---|------------------|------------------|---|----------------|---------------------------------------|------------------|
|                  | JEWELRY, PRECIOUS METAL INDUSTRY  |                |   |                  |                  | LAPIDARY WORK INDUSTRY  |                |                                       |                  |
|                  | Total shipments and receipts of the industry.....   | (X)            | 481,943                                     | (X)              |                  | Total shipments and receipts of the industry.....   | (X)            | 65,094                                | (X)              |
|                  | Primary products.....   | 400,376        | 387,312                                     | 13,064           | 39130            | Lapidary work and cutting and polishing diamonds.....                                       | 67,718         | 55,167                                | 12,551           |
| 39111            | Jewelry made of platinum metals and karat gold.....   | 286,265        | 279,558                                     | 16,707           |                  | Secondary products.....   | (X)            | 4,225                                 | (X)              |
| 39112            | Jewelry made of precious metals, except platinum and karat gold..                           | 93,691         | 87,393                                      | 26,298           |                  | Miscellaneous receipts.....   | (X)            | 5,702                                 | (X)              |
| 39110            | Jewelry, precious metal, n.s.k...   | 20,420         | 20,361                                      | 59               |                  | Sales of product bought and resold without further manufacture.....                         | (X)            | 5,525                                 | (X)              |
|                  | Secondary products.....   | (X)            | 32,070                                      | (X)              |                  | Other miscellaneous receipts.....   | (X)            | 177                                   | (X)              |
| 39610            | Costume jewelry.....  | (X)            | 11,876                                      | (X)              |                  |   | All industries | Silverware and plated ware (SIC 3914) | Other industries |
|                  | Other secondary products.....   | (X)            | 20,194                                      | (X)              |                  | SILVERWARE AND PLATED WARE INDUSTRY   |                |                                       |                  |
|                  | Miscellaneous receipts.....   | (X)            | 62,561                                      | (X)              |                  | Total shipments and receipts of the industry.....   | (X)            | 237,999                               | (X)              |
|                  | Contract and commission work....  | (X)            | 6,068                                       | (X)              |                  | Primary products.....   | 211,864        | 208,613                               | 3,251            |
|                  | Sales of scrap.....   | (X)            | 3,524                                       | (X)              |                  | Silverware, plated ware and stainless steel ware.....                                       | 93,876         | 90,801                                | 3,075            |
|                  | Sales of products bought and sold without further manufacture.....                          | (X)            | 50,048                                      | (X)              | 39141            | Flatware.....   | 113,196        | 113,020                               | 176              |
|                  | Other miscellaneous receipts.....   | (X)            | 2,921                                       | (X)              | 39140            | Silverware and plated ware, n.s.k..   | 4,792          | 4,792                                 | (X)              |
|                  |   | All industries | Jewelers' findings and materials (SIC 3912) | Other industries |                  | Secondary products.....   | (X)            | 410,884                               | (X)              |
|                  | JEWELERS' FINDINGS AND MATERIALS INDUSTRY   |                |   |                  |                  | Miscellaneous receipts.....   | (X)            | 18,502                                | (X)              |
|                  | Total shipments and receipts of the industry.....   | (X)            | 72,833                                      | (X)              |                  | Contract work.....  | (X)            | 1,952                                 | (X)              |
| 39120            | Jewelers' findings and materials...   | 70,476         | 62,582                                      | 7,894            |                  | Sales of products bought and resold without further manufacture, processing, or assembly... | (X)            | 7,759                                 | (X)              |
|                  | Secondary products.....   | (X)            | 5,797                                       | (X)              |                  | Other miscellaneous receipts.....   | (X)            | 8,793                                 | (X)              |
|                  | Miscellaneous receipts.....   | (X)            | 4,454                                       | (X)              |                  |   |                |                                       |                  |
|                  | Contract work.....  | (X)            | 1,666                                       | (X)              |                  |   |                |                                       |                  |
|                  | Sales of products bought and resold without further manufacture, processing, or assembly... | (X)            | 852   | (X)              |                  |   |                |                                       |                  |
|                  | Miscellaneous receipts.....   | (X)            | 1,936                                       | (X)              |                  |   |                |                                       |                  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

<sup>1</sup>The following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing figures for individual companies: 3871, Watches and Clocks.

<sup>2</sup>Includes \$4.4 million shipped by industry 3961, Costume Jewelry.

<sup>3</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 27530, Engraving and plate printing; and 39130, Lapidary work and diamond cutting and polishing.

<sup>4</sup>Includes the following product class which totaled \$2 million or more but is withheld to avoid disclosing individual company figures: 34211, Cutlery, scissors, shears, trimmers and snips.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product  | Value of shipments including interplant transfers (\$1,000) |         |
|--------------|--|---|---------|
|              |  | 1963  | 1958    |
| 3911- --     | JEWELRY, PRECIOUS METAL, TOTAL.....  | 400,376   | 287,148 |
| 39111 --     | Jewelry made of platinum metals and karat gold, total.....   | 286,265   | 195,234 |
|              | Rings and ring mountings:  |   |         |
|              | Rings (complete):  |   |         |
| 39111 12     | Wedding rings.....   | 37,489  | 28,380  |
| 39111 13     | Other rings.....   | 102,896   | 56,788  |
| 39111 15     | Rings mountings, for sale separately.....  | 20,949  | 21,752  |
| 39111 31     | Women's and children's jewelry, such as necklaces, bracelets, brooches, pins, clips, earrings, lockets, etc. (excluding watch attachments).....  | 55,963  | 39,839  |
| 39111 41     | Watch attachments (bracelets for watches).....   | 10,291  | 6,020   |
| 39111 51     | Organizational jewelry, including fraternal, college and school jewelry and emblems, military insignias, (excluding rings).....  | 14,764  | 9,082   |
| 39111 98     | Other jewelry worn or carried about the person, such as men's jewelry (collar and cuff buttons, studs, watch chains, etc.); religious jewelry (rosaries, chaplets, crosses, etc.); cigar and cigarette cases and lighters, compacts, vanity cases, etc.....                    | 24,055  | 12,475  |
| 39111 00     | Jewelry made of platinum metals and karat gold, n.s.k.....   | 19,858  | 20,898  |
| 39112 --     | Jewelry made of precious metals, except platinum metals, and karat gold, total.....  | 93,691  | 74,265  |
|              | Jewelry made of gold filled, rolled gold plate, palladium filled, rolled palladium plate, and sterling silver:   |   |         |
| 39112 11     | Rings and ring mountings.....  | 7,118   | 5,604   |
| 39112 21     | Men's jewelry, such as collar and cuff buttons, studs, watch chains, money clips, identification bracelets, scarf pins, tie and collar holders, etc. (excluding watch attachments).....  | 6,901   | 7,037   |
| 39112 31     | Women's and children's jewelry, such as necklaces, bracelets, brooches, pins, clips, earrings, lockets, etc. (excluding watch attachments).....  | 23,171  | 21,723  |
| 39112 41     | Watch attachments (bracelets for watches).....   | 27,620  | 24,844  |
| 39112 98     | Other jewelry worn or carried about the person, such as fraternal, college and school jewelry and emblems, excluding rings; military insignia; religious jewelry (rosaries, chaplets, crosses, etc.); cigar and cigarette cases and lighters; compacts, vanity cases, etc..... | 21,077  | 9,855   |
| 39112 00     | Jewelry made of precious metals, except platinum metals, and karat gold, n.s.k.....  | 7,804   | 5,202   |
| 39110 00     | Jewelry (precious metal), n.s.k.....   | 20,420  | 17,649  |
| 3912- --     | JEWELERS' FINDINGS AND MATERIALS, TOTAL.....   | 70,476  | 56,771  |
| 39120 11     | Jewelers' findings, such as joints, pins, clasps, spring rings, ring blanks, and other unassembled parts.....  | 36,508  | 24,027  |
| 39120 31     | Machine chain.....   | 13,175  | 10,900  |
| 39120 51     | Stock shop products, such as flat stock, wire, and tubing.....   | 14,592  | 12,683  |
| 39120 00     | Jewelers' findings and materials, n.s.k.....   | 6,201   | 9,161   |
| 3913- --     | LAPIDARY WORK AND CUTTING AND POLISHING DIAMONDS, TOTAL.....   | 167,718   | 143,270 |
|              | Stones cut or polished from materials owned by the manufacturing establishment, excluding the setting of stones in jewelry:  |   |         |
| 39130 11     | Diamonds for jewelry purposes.....   | 36,246  | 20,840  |
| 39130 15     | Diamonds for industrial purposes.....  | 12,041  | 4,858   |
| 39130 31     | Other natural precious and semiprecious stones and synthetic stones, including the drilling of pearls  | 4,711   | 2,532   |
| 39130 00     | Lapidary work and cutting and polishing diamonds, n.s.k.....   | 114,720   | 115,040 |

See footnotes at end of table.



TABLE 6A. **Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued**

| Product code | Product   | Total shipments including interplant transfers |                    |                            |                    |
|--------------|---|--|--------------------|----------------------------|--------------------|
|              |   | 1963   |                    | 1958                       |                    |
|              |   | Quantity<br>(1,000 pieces)                     | Value<br>(\$1,000) | Quantity<br>(1,000 pieces) | Value<br>(\$1,000) |
| 3914- --     | SILVERWARE AND PLATED WARE, TOTAL.....  | (X)  | 211,864            | (X)                        | 178,765            |
| 39141 --     | Silverware, plated ware, and stainless steel ware.....  | (X)  | 93,876             | (X)                        | 74,288             |
|              | Hollow ware (including toilet ware, ecclesiastical ware, novelties, trophies, baby goods, and other plated ware): |  |                    |                            |                    |
| 39141 11     | Sterling silver.....  | (X)  | 20,723             | (X)                        | 19,554             |
| 39141 31     | Electrosilver plated.....   | (X)  | 37,627             | (X)                        | 31,206             |
| 39141 51     | Stainless steel.....  | (X)  | 4,272              | (X)                        | 2,401              |
| 39141 61     | Unplated hollow ware of other metals and hollow ware plated with metals other than silver.....                    | (X)  | 29,474             | (X)                        | 21,127             |
| 39141 00     | Silverware, plated ware, and stainless steelware, n.s.k.....  | (X)  | 1,780              | (X)                        | -                  |
| 39142 --     | Flatware (including all knives, forks, spoons, and carving sets made wholly of metal).....                        | (X)  | 113,196            | (X)                        | 97,075             |
| 39142 11     | Sterling silver.....  | 9,718  | 38,485             | 11,737                     | 37,356             |
|              | Electrosilver plated:   |  |                    |                            |                    |
| 39142 31     | Hotel patterns.....   | 58,601   | 23,389             | 72,947                     | 27,559             |
| 39142 35     | Commercial patterns.....  |  |                    |                            |                    |
|              | Stainless steel:  |  |                    |                            |                    |
| 39142 53     | Hotel patterns.....   | 58,698   | 9,378              | 146,132                    | 31,189             |
| 39142 55     | Commercial patterns.....  | 196,377  | 40,447             |                            |                    |
| 39142 61     | Unplated flatware of other metals and flatware plated with metals other than silver.....                          | (X)  | 1,147              | (X)                        | 971                |
| 39142 00     | Flatware, n.s.k.....  | (X)  | 350                | (X)                        | -                  |
| 39140 00     | Silverware and plated ware, n.s.k.....  | (X)  | 4,792              | (X)                        | 7,402              |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

<sup>1</sup>Includes lapidary work done on materials owned by others for which type of stone was not reported.

TABLE 6B. **Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958**

(not applicable to this report)

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class  | 1963    | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958    | 1954    | 1947    |
|-------|--|---------|-------------------|-------------------|-------------------|-------------------|---------|---------|---------|
| 3911- | Jewelry, precious metal.....   | 400,376 | 340,532           | 317,202           | 302,995           | 295,547           | 287,148 | 238,526 | 231,453 |
| 39111 | Jewelry made of platinum metals and karat gold.....                  | 286,265 | 229,257           | 214,592           | 203,987           | 202,046           | 195,234 | 155,476 | 133,254 |
| 39112 | Jewelry made of precious metals, except platinum and karat gold..... | 93,691  | 91,654            | 85,639            | 81,740            | 77,505            | 74,265  | 72,635  | 81,539  |
| 39110 | Jewelry, precious metals, n.s.k.....                                 | 20,420  | (19,621)          | (16,971)          | (17,268)          | (15,996)          | 17,649  | 10,415  | 16,660  |
| 39120 | Jewelers' findings and materials.....                                | 70,476  | 80,252            | 73,925            | 71,779            | 65,435            | 56,771  | 68,092  | 71,260  |
| 39130 | Lapidary work.....   | 67,718  | 48,487            | 48,329            | 46,000            | 52,068            | 43,270  | 35,641  | 30,138  |
| 3914- | Silverware and plated ware.....                                      | 211,864 | 215,404           | 207,295           | 203,634           | 199,695           | 178,765 | 188,095 | 220,407 |
| 39141 | Silverware, plated ware, and stainless steel ware.....               | 93,876  | 85,171            | 85,098            | 83,583            | 80,228            | 74,288  | 188,095 | 220,407 |
| 39142 | Flatware.....  | 113,196 | 122,241           | 113,490           | 111,541           | 112,143           | 97,075  |         |         |
| 39140 | Silverware and plated ware, n.s.k.....                               | 4,792   | (7,992)           | (8,707)           | (8,510)           | (7,324)           | 7,402   |         |         |

n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area                      | Value of shipments |                  | Product class and geographic area   | Value of shipments |                  | Product class and geographic area                                   | Value of shipments |                  |
|--|--------------------|------------------|---|--------------------|------------------|---|--------------------|------------------|
|  | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958             |
| JEWELRY MADE OF PLATINUM METALS AND KARAT GOLD (39111) |                    |                  | JEWELRY MADE OF PRECIOUS METAL, EXCEPT PLATINUM METALS AND KARAT GOLD (39112) |                    |                  | SILVERWARE, PLATED WARE, AND STAINLESS STEEL WARE (39141)—Continued |                    |                  |
| United States, total.....                              | 286,265            | 195,234          | United States, total.....   | 93,691             | 74,265           | New England.....  | 52,710             | ( <sup>2</sup> ) |
| New England.....                                       | 39,637             | 25,429           | New England.....  | 55,897             | ( <sup>2</sup> ) | Massachusetts.....  | 24,242             | 17,420           |
| Massachusetts.....                                     | 26,639             | 16,535           | Massachusetts.....  | 18,280             | 11,991           | New York.....   | 27,377             | ( <sup>2</sup> ) |
| Middle Atlantic.....                                   | 189,071            | 129,467          | Rhode Island.....   | 37,451             | 26,878           | New Jersey.....   | 19,937             | 17,375           |
| New York.....  | 163,591            | 110,046          | Middle Atlantic.....  | 31,425             | ( <sup>2</sup> ) | Pennsylvania.....   | 5,240              | 6,743            |
| New Jersey.....  | 21,098             | 16,196           | New York.....   | 18,830             | 15,891           | Pennsylvania.....   | 2,200              | ( <sup>2</sup> ) |
| Pennsylvania.....                                      | 4,382              | 3,225            | New Jersey.....   | 11,773             | 12,014           | North Central.....  | 9,257              | ( <sup>2</sup> ) |
| East North Central.....                                | 27,253             | ( <sup>2</sup> ) | North Central and South.....  | 2,821              | ( <sup>2</sup> ) | Illinois.....   | 6,667              | 5,107            |
| Illinois.....  | 8,699              | 6,476            | Mountain.....   | 2,000              | ( <sup>2</sup> ) | South.....  | 1,888              | ( <sup>2</sup> ) |
| Michigan.....  | 5,790              | 2,709            | Pacific.....  | 1,548              | ( <sup>2</sup> ) | West.....   | 2,644              | ( <sup>2</sup> ) |
| West North Central.....                                | 9,092              | ( <sup>2</sup> ) | California.....   | 1,184              | 1,333            | FLATWARE (39142)  |                    |                  |
| South.....   | 4,029              | ( <sup>2</sup> ) | United States, total.....   | 93,876             | 74,288           | United States, total.....   | 113,196            | 97,075           |
| West.....  | 17,183             | ( <sup>2</sup> ) | SILVERWARE, PLATED WARE, AND STAINLESS STEEL WARE (39141)                     |                    |                  | New England.....  | 78,556             | ( <sup>2</sup> ) |
| California.....  | 14,404             | 8,987            | United States, total.....   | 93,876             | 74,288           | Connecticut.....  | 45,772             | 41,863           |
|  |                    |                  |   |                    |                  | Middle Atlantic.....  | 30,137             | ( <sup>2</sup> ) |
|  |                    |                  |   |                    |                  | South Atlantic.....   | 2,513              | ( <sup>2</sup> ) |
|  |                    |                  |   |                    |                  | Pacific.....  | 1,740              | ( <sup>2</sup> ) |
|  |                    |                  |   |                    |                  | All other divisions.....  | 4,112              | ( <sup>2</sup> ) |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 39111, Rhode Island, Ohio, Indiana, Minnesota, Oklahoma, Texas, Utah; 39141, Rhode Island, Connecticut, Ohio, California; 39142, Massachusetts, Rhode Island, New York, Illinois, Maryland, Oregon.

<sup>2</sup>Shipments of over \$1 million were reported but exact figures are withheld to avoid disclosure of individual company figures.



TABLE 7A. Materials by Kind: 1963 and 1958

| Code                                      | Material  | Unit of measure | 1963     |                          | 1958     |                          |       |       |
|---|---|-----------------|----------|--------------------------|----------|--------------------------|-------|-------|
|   |   |                 | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |       |       |
| INDUSTRY 3914.—SILVERWARE AND PLATED WARE |   |                 |          |                          |          |                          |       |       |
|   | Materials, components, parts, containers, and supplies, total..                                   |                 | (X)      | 97,453                   | (X)      | 77,700                   |       |       |
|   | Mill shapes and forms:  |                 |          |                          |          |                          |       |       |
| 331001                                    | Carbon steel.....   | Short tons..... | 1,361    | 286                      | (NA)     | 1,081                    |       |       |
| 331020                                    | Alloy steel.....  | .....do.....    | } 20,583 | 17,484                   | (NA)     | 156                      |       |       |
| 331031                                    | Stainless steel.....  | .....do.....    |          |                          | (D)      | (D)                      | 9,021 | 8,980 |
| 335208                                    | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....  |          |                          | (D)      | (D)                      | (NA)  | (NA)  |
| 335003                                    | Copper and copper-base alloy.....   | .....do.....    | 20,497   | 13,415                   | 8,341    | 5,535                    |       |       |
|   | Castings rough and semi-finished:   |                 |          |                          |          |                          |       |       |
| 336100                                    | Aluminum and aluminum-base alloy <sup>1</sup> .....   |                 | (D)      | (D)                      | (NA)     | (NA)                     |       |       |
| 336200                                    | Copper and copper-base alloy <sup>1</sup> .....   | 1,000 lbs.....  | 637      | 446                      | 795      | 518                      |       |       |
| 333903                                    | Precious metals all forms (including ingot, sheet, strip, solder, plating, electrodes, etc.)..... |                 | (X)      | 24,520                   | (NA)     | (NA)                     |       |       |
| 970099                                    | All other materials and components, parts, containers, and supplies consumed.....                 |                 | (X)      | 34,384                   | (X)      | 55,562                   |       |       |
| 976000                                    | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....                             |                 | (X)      | 6,918                    | (X)      | 5,868                    |       |       |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

<sup>1</sup>Does not include castings produced and consumed in the same establishment.

<sup>2</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item   | Jewelry,<br>precious<br>metal<br>(SIC 3911) | Jewelers'<br>findings and<br>materials<br>(SIC 3912) | Lapidary<br>work<br>(SIC 3913) | Silverware<br>and plated<br>ware<br>(SIC 3914) |
|--|---|--|--------------------------------|--|
| Total cost of purchased fuels and electric energy.....\$1,000..  | 1,471                                       | 689  | 142                            | 2,546  |
| Total cost of purchased fuels.....do....   | 459   | 213  | 72                             | 1,155  |
| Bituminous coal, lignite, and anthracite:  |   |  |                                |  |
| Quantity.....1,000 short tons..  | (S)   | -  | -                              | (S)  |
| Cost.....\$1,000..   | (S)   | -  | -                              | (S)  |
| Coke and breeze:   |   |  |                                |  |
| Quantity.....1,000 short tons..  | -   | -  | -                              | -  |
| Cost.....\$1,000..   | -   | -  | -                              | -  |
| Fuel oil (distillate and residual):  |   |  |                                |  |
| Quantity.....1,000 barrels of 42 gallons..   | 36  | (S)  | (S)                            | 229  |
| Cost.....\$1,000..   | 137   | (S)  | (S)                            | 584  |
| Gas (natural, manufactured, still, blast furnace,<br>and coke oven):   |   |  |                                |  |
| Quantity.....million cu.ft..   | 143   | (S)  | (S)                            | 346  |
| Cost.....\$1,000..   | 113   | (S)  | (S)                            | 351  |
| Other fuels.....do....   | 207   | 32   | (S)                            | (S)  |
| Electric energy:   |   |  |                                |  |
| Purchased:   |   |  |                                |  |
| Quantity.....million kw.-hrs..   | 49  | 26   | 4                              | 95   |
| Cost.....\$1,000..   | 1,012                                       | 476  | 70                             | 1,391  |
| Generated less sold.....million kw.-hrs..  | -   | -  | -                              | 16   |
| Aggregate horsepower of prime movers and electric motors<br>driven by purchased energy (December 31), total.....1,000 hp.. | 29  | 18   | -                              | 68   |
| Prime movers, total.....do....   | (Z)   | (Z)  | -                              | 11   |
| Driving generators.....do....  | (Z)   | (Z)  | -                              | 9  |
| Not driving generators.....do....  | -   | (Z)  | -                              | 2  |
| Electric motors, total.....do....  | 29  | 18   | -                              | 58   |
| Driven by purchased energy.....do....  | 29  | 18   | -                              | 57   |
| Driven by energy generated at establishment.....do....   | -   | -  | -                              | 1  |
| Aggregate horsepower per 100 production workers.....   | 180   | 393  | -                              | 590  |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.



**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization   | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3911                           | JEWELRY, PRECIOUS METAL  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 1,438                   | 23,551         | 125,610           | 17,455             | 35,601            | 79,251          | 234,925  | 248,405                     | 481,943                      | 3,676                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 1,300                   | 18,774         | 102,642           | 13,750             | 28,333            | 64,548          | 180,152  | 175,553                     | 357,465                      | 2,686                               |
|                                | 75-89% specialization.....   | 41                      | 1,656          | 7,227             | 1,389              | 2,777             | 5,319           | 21,127   | 10,405                      | 31,602                       | 434                                 |
| 39111                          | Jewelry made of platinum metals and karat gold (primary product class of estab.).....                        | 864                     | 15,055         | 87,135            | 10,618             | 21,832            | 52,900          | 159,980  | 194,707                     | 352,216                      | 1,936                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 755                     | 9,575          | 54,034            | 6,995              | 13,753            | 35,237          | 98,650   | 113,069                     | 212,218                      | 1,284                               |
|                                | 75-89% specialization.....   | 51                      | 3,483          | 22,843            | 2,219              | 5,254             | 11,741          | 35,996   | 21,100                      | 57,710                       | 348                                 |
| 39112                          | Jewelry made of precious metals except platinum metals and karat gold (primary product class of estab.)..... | 228                     | 7,149          | 32,390            | 5,824              | 11,575            | 21,786          | 63,595   | 38,283                      | 102,253                      | 1,474                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 154                     | 3,202          | 14,400            | 2,552              | 5,236             | 9,420           | 25,421   | 19,087                      | 44,642                       | 737                                 |
|                                | 75-89% specialization.....   | 20                      | 1,463          | 6,450             | 1,236              | 2,458             | 4,542           | 19,544   | 8,681                       | 28,330                       | 360                                 |
| 3914                           | SILVERWARE AND PLATED WARE   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 209                     | 13,249         | 70,924            | 10,888             | 22,140            | 54,775          | 130,735  | 108,895                     | 237,999                      | 2,738                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..   | 185                     | 11,100         | 60,043            | 9,272              | 18,830            | 46,941          | 108,743  | 90,822                      | 198,631                      | 2,235                               |
| 39141                          | Silverware, plated ware, and stainless steel ware (primary product class of estab.).....                     | 108                     | 4,732          | 24,284            | 4,024              | 8,183             | 18,896          | 43,860   | 31,828                      | 74,370                       | 875                                 |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 94                      | 4,025          | 20,837            | 3,439              | 7,074             | 16,318          | 37,796   | 27,000                      | 63,473                       | 653                                 |
| 39142                          | Flatware (primary product class of estab.).....  | 36                      | 8,108          | 44,868            | 6,534              | 13,308            | 34,495          | 83,925   | 74,733                      | 158,147                      | 1,793                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 20                      | 2,602          | 14,418            | 2,333              | 4,830             | 12,696          | 23,774   | 25,411                      | 49,821                       | 435                                 |





## MUSICAL INSTRUMENTS AND PARTS; TOYS, AND SPORTING AND ATHLETIC GOODS

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3931—Musical Instruments and Parts
- 3941—Games and Toys, Except Dolls and Children's Vehicles
- 3942—Dolls
- 3943—Children's Vehicles, Except Bicycles
- 3949—Sporting and Athletic Goods, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3931—MUSICAL INSTRUMENTS AND PARTS

This industry comprises establishments primarily engaged in manufacturing pianos, with or without player attachments; organs; other musical instruments; and parts and materials for musical instruments. For a detailed list of products of industry 3931, refer to table 6A, product codes 3931111 to 3931498.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Musical Instruments and Parts Industry totaled \$314 million. This amount included shipments of musical instruments and parts (primary products) valued at \$294 million, shipments of other products (secondary products) valued at \$8 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$13 million.

This industry's shipments of musical instruments and parts represented 97 percent of its total product shipments. The industry specialization ratio in 1958 was 98 percent.

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 31 percent of the total industry shipments are represented by plants specializing in organs; 30 percent in pianos; and 28 percent in other musical instruments.

Shipments of musical instruments and parts by this industry represented 92 percent of all shipments of these products (\$319 million) by all industries. In 1958 the coverage ratio was 91 percent.

The production index for the primary products of the industry increased to 190 in 1963 from the 1958 level of 141. The unit value index for 1963 was 99 compared to 102 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3941—GAMES AND TOYS, EXCEPT DOLLS AND CHILDREN'S VEHICLES

This industry comprises establishments primarily engaged in indoor games and game sets for adults and children, and mechanical and nonmechanical toys. Important products of this industry include games such as chess, checkers, dominoes, puzzles, and other indoor games; and toys, such as toy furniture, doll carriages and carts, construction sets, mechanical trains, toy guns and air rifles, and other mechanical games and toys. Establishments primarily engaged in manufacturing dolls are classified in industry 3942; children's outdoor wheel goods and vehicles, except bicycles, in industry 3943; and sporting and athletic goods for children and adults, in industry 3949. For a detailed list of products of industry 3941, refer to table 6A, product codes 3941011 to 3941097.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Games and Toys Industry totaled \$797 million. This amount included shipments of games and toys (primary products) valued at \$694 million, shipments of other products (secondary products) valued at \$62 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$41 million.

This industry's shipments of toys and games represented 92 percent of its total product shipments. The industry specialization ratio in 1958 was 93 percent. Secondary products shipped by this industry in 1963 include miscellaneous plastic products (\$10 million) and baby carriages and children's vehicles (\$3 million).

Shipments of games and toys by this industry represented 91 percent of all shipments of these products (\$764 million) by all industries. In 1958 the coverage ratio was 92 percent. Other industries shipping games and toys include industry 3079, Plastics Products, N.E.C., \$18 million; and industry 3943, Children's Vehicles, \$4 million.

#### 3942—DOLLS

This industry comprises establishments primarily engaged in manufacturing dolls, doll parts, and doll clothing. Establishments primarily engaged in manufacturing stuffed toy animals are also included in this industry. For a detailed list of products of industry 3942, refer to table 6A, product codes 3942006 to 3942055.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Dolls Industry totaled \$248 million. This amount includes shipments of dolls (primary products) valued at \$165 million.

This industry's shipments of dolls represented between 80 and 85 percent of its total product shipments. The industry specialization ratio in 1958 was 98 percent.

Shipments of dolls by this industry represented 87 percent of all shipments of these products (\$190 million) by all industries. In 1958 the coverage ratio was 94 percent.



The production index for the primary products of the industry increased to 124 in 1963 from the 1958 level of 113. The unit value index for 1963 was 119 compared to 109 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3943—CHILDREN'S VEHICLES, EXCEPT BICYCLES

This industry comprises establishments primarily engaged in manufacturing baby carriages, strollers, and gocarts; children's velocipedes and tricycles, coaster wagons, play cars, sleds, and other children's outdoor wheel goods and vehicles, except bicycles. For a detailed list of products of industry 3943, refer to table 6A, product codes 3943011 to 3943098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Children's Vehicles Industry totaled \$78 million. This amount included shipments of children's vehicles (primary products) valued at \$54 million, shipments of other products (secondary products) valued at \$22 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$1 million.

This industry's shipments of children's vehicles represented 71 percent of its total product shipments. The industry specialization ratio in 1958 was 84 percent. Secondary products shipped by this industry in 1963 include games and toys (\$4 million), and metal household furniture (\$2 million).

Shipments of children's vehicles by this industry represented 65 percent of all shipments of these products (\$83 million) by all industries. In 1958 the coverage ratio was 78 percent.

The production index for the primary products of the industry increased to 116 in 1963 from the 1958 level of 99. The unit value index for 1963 was 110 compared to 114 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3949—SPORTING AND ATHLETIC GOODS, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing sporting and athletic goods, not elsewhere classified, such as fishing tackle; golf and tennis goods; baseball, football, basketball, and boxing equipment; roller skates and ice skates; gymnasium and playground equipment; billard and pool tables; and bowling alleys and equipment. Establishments primarily engaged in manufacturing athletic apparel are classified in Major Group 23, small arms ammunition in industry 1961, and firearms in industry 1951. For a detailed list of products of industry 3949, refer to table 6A, product codes 3949114 to 3949298.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Sporting and Athletic Goods Industry totaled \$705 million. This amount included shipments of sporting and athletic goods (primary products) valued at \$598 million. Shipments of other products (secondary products) valued at \$47 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$60 million.

This industry's shipments of sporting and athletic goods represented 93 percent of its total product shipments. The industry specialization ratio in 1958 was 88 percent. Secondary products shipped by this industry in 1963 included miscellaneous plastic products (\$3 million).

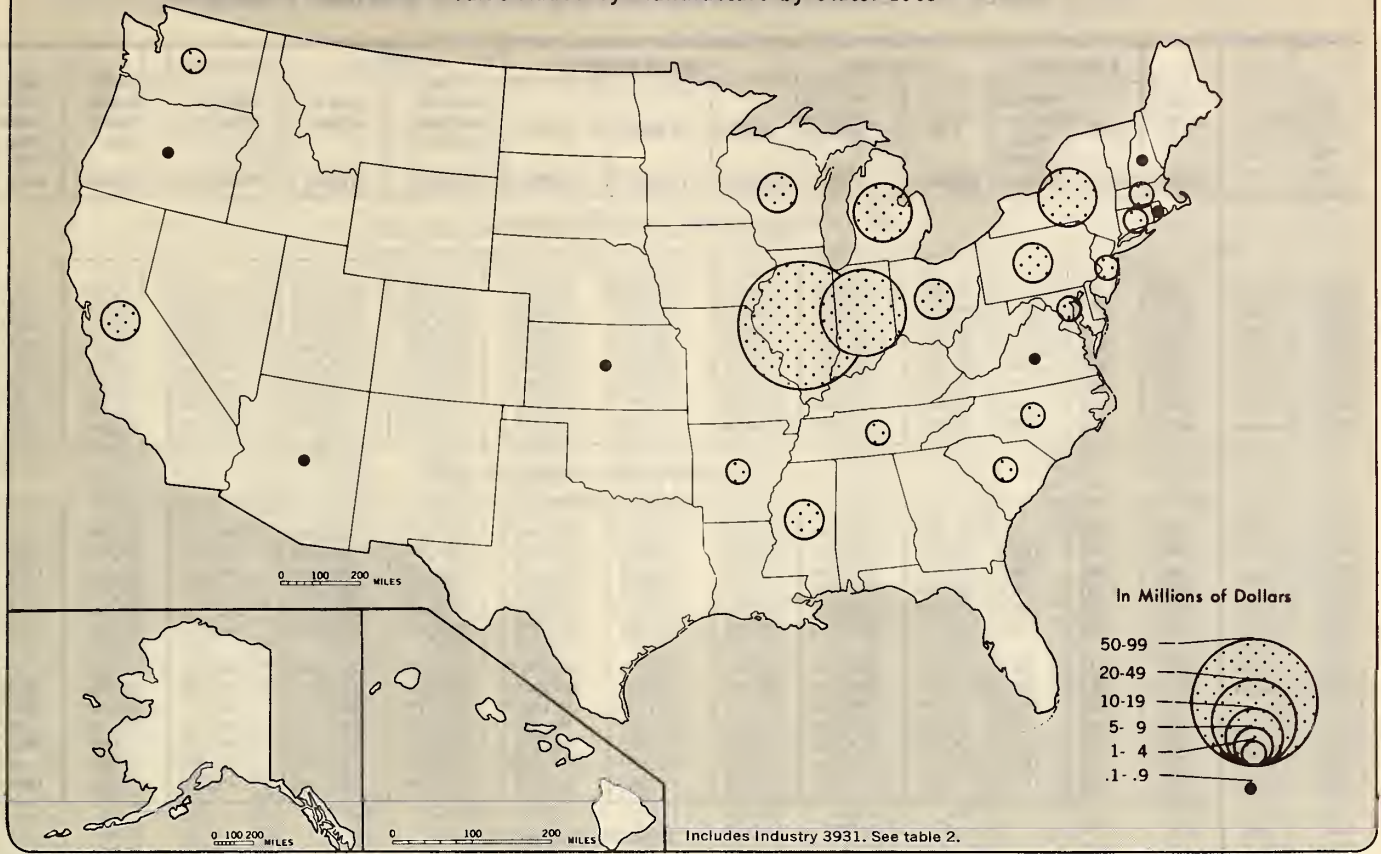
Shipments of sporting and athletic goods by this industry represented 91 percent of all shipments of these products (\$656 million) by all industries. In 1958 the coverage ratio was also 91 percent. Other industries shipping sporting and athletic goods includes industry 3069, Rubber Products, N.E.C., \$15 million.

The production index for the primary products of the industry increased to 196 in 1963 from the 1958 level of 158. The unit value index for 1963 was 110 compared to 109 in 1958. Both indexes were computed on a basis of 1954 = 100.



# MUSICAL INSTRUMENTS AND PARTS: SIC 393

Value Added by Manufacture by State: 1963



# TOYS AND SPORTING GOODS: SIC 394

Value Added by Manufacture by State: 1963

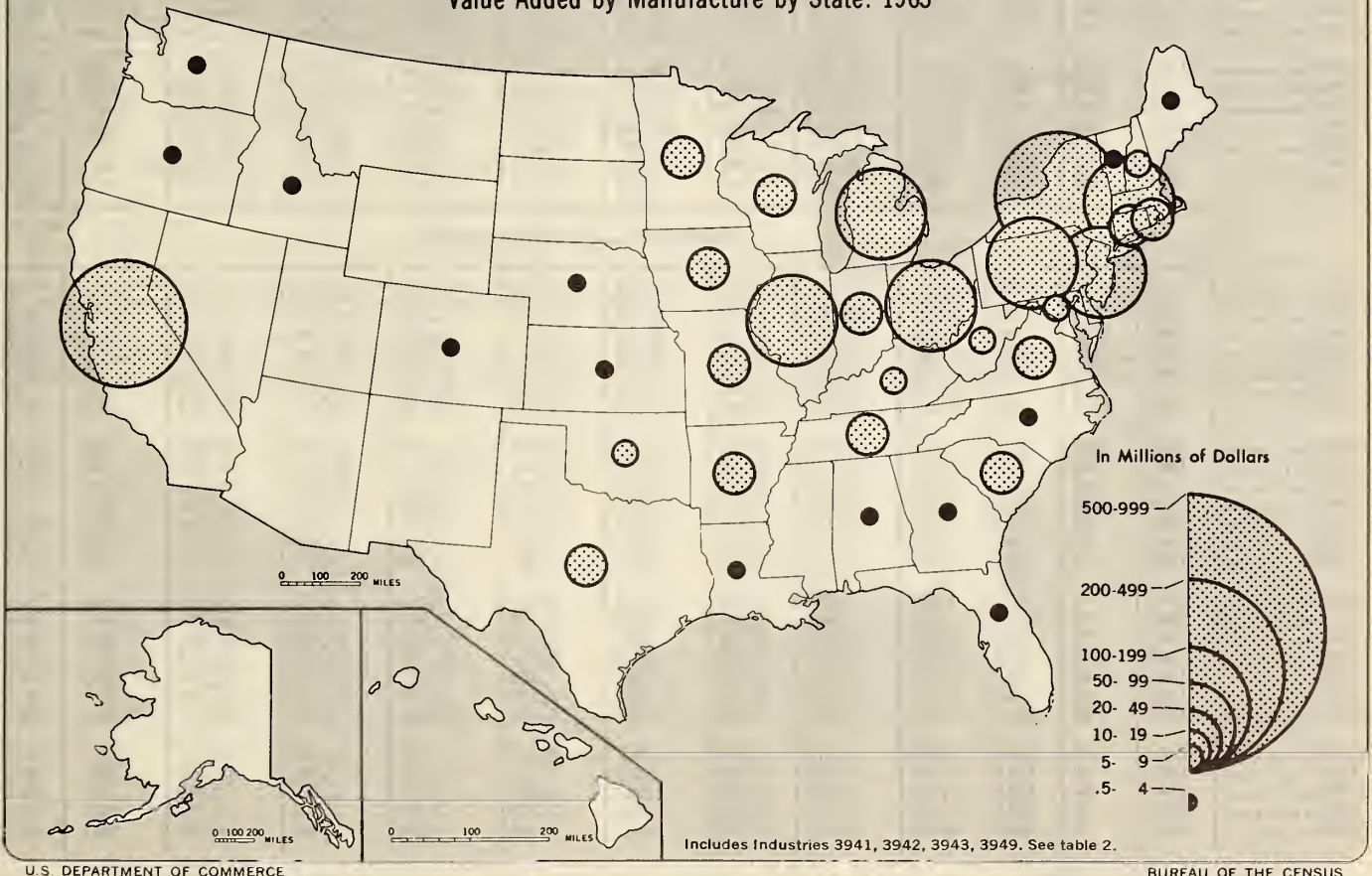


TABLE 1. General Statistics: 1963 and Earlier Years

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expendi-<br>tures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3931.—MUSICAL INSTRUMENTS AND PARTS |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                    | 288                        | 320               | 126  | 20,095            | 103,029              | 16,664             | 33,600               | 76,471             | 179,035  | 143,136                           | 314,407                            | 5,779   | 97  | 92                                       |
| 1962 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 20,828            | 100,992              | 17,089             | 33,738               | 74,542             | 144,910  | 153,547                           | 293,127                            | 3,940   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 19,403            | 91,370               | 15,698             | 30,575               | 66,210             | 133,136  | 144,843                           | 276,963                            | 3,706   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 20,206            | 93,719               | 16,489             | 32,087               | 69,939             | 132,784  | 145,941                           | 274,584                            | 4,230   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 18,631            | 88,250               | 15,382             | 30,541               | 66,525             | 154,908  | 150,765                           | 297,044                            | (4,931)   | (NA)  | (NA)                                     |
| 1958.....                                    | 252                        | 273               | 116  | 16,103            | 74,650               | 13,090             | 25,568               | 55,793             | 120,935  | 114,336                           | 236,750                            | 4,561   | 98  | 91                                       |
| 1954.....                                    | (NA)                       | 242               | 111  | 15,406            | 61,218               | 13,229             | 26,327               | 48,240             | 94,213   | 79,502                            | 173,385                            | 1,922   | 96  | 96                                       |
| 1947 <sup>2</sup> .....                      | (NA)                       | 260               | (NA)   | 16,889            | 46,808               | 14,814             | 31,269               | 38,198             | 71,356   | 48,179                            | 118,689                            | 2,445   | (NA)  | (NA)                                     |
| INDUSTRY 3941.—GAMES AND TOYS                |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                    | 767                        | 797               | 351  | 51,835            | 206,744              | 44,031             | 84,425               | 145,243            | 444,101  | 362,235                           | 796,631                            | 27,728  | 92  | 91                                       |
| 1962 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 47,956            | 185,629              | 39,279             | 77,689               | 129,260            | 406,076  | 325,630                           | 715,015                            | 18,082  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 50,395            | 183,266              | 41,370             | 78,156               | 126,003            | 411,339  | 336,063                           | 736,507                            | 14,863  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 45,697            | 164,022              | 37,569             | 72,385               | 113,204            | 342,536  | 302,002                           | 635,322                            | 14,675  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 45,358            | 159,171              | 37,049             | 69,753               | 110,848            | 308,411  | 284,256                           | 595,306                            | (18,047)  | (NA)  | (NA)                                     |
| 1958.....                                    | 832                        | 854               | 367  | 42,972            | 149,725              | 35,999             | 68,007               | 106,577            | 288,863  | 258,215                           | 544,056                            | 16,513  | 93  | 92                                       |
| 1957 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 43,540            | 138,585              | 37,508             | 65,296               | 103,961            | 238,695  | 210,349                           | 448,940                            | (S)   | 93  | 88                                       |
| 1956 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 44,748            | 140,593              | 38,578             | 69,663               | 104,433            | 252,389  | 221,810                           | 469,131                            | 13,221  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 43,809            | 130,660              | 37,326             | 67,474               | 95,162             | 247,798  | 214,079                           | 456,064                            | 10,648  | (NA)  | (NA)                                     |
| 1954.....                                    | 872                        | 886               | 308  | 38,242            | 113,208              | 32,789             | 60,813               | 83,227             | 206,706  | 180,870                           | 391,323                            | 8,358   | 95  | 89                                       |
| 1953 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 41,639            | 117,082              | 36,062             | 64,663               | 89,617             | 190,535  | 168,573                           | 359,108                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                    | 830                        | 837               | (NA)   | 27,140            | 60,554               | 24,174             | 47,093               | 47,403             | 105,414  | 76,525                            | 181,939                            | (NA)  | 92  | 90                                       |
| 1939 <sup>2</sup> .....                      | (NA)                       | 294               | (NA)   | (NA)              | (NA)                 | 13,778             | (NA)                 | 11,098             | 27,364   | 21,744                            | 49,108                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3942.—DOLLS                         |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                    | 404                        | 410               | 160  | 16,213            | 58,991               | 13,934             | 24,361               | 41,751             | 138,100  | 114,418                           | 247,942                            | 6,276   | 80-85   | 87                                       |
| 1962 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 18,335            | 62,325               | 16,932             | 28,534               | 46,707             | 148,864  | 130,770                           | 273,577                            | 9,510   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 16,227            | 51,115               | 15,543             | 24,521               | 36,948             | 97,278   | 98,094                            | 194,685                            | 2,178   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 14,704            | 47,084               | 12,947             | 23,209               | 34,639             | 85,775   | 94,323                            | 178,302                            | (2,101)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 14,219            | 43,789               | 12,483             | 22,686               | 33,161             | 82,088   | 85,639                            | 168,225                            | (2,882)   | (NA)  | (NA)                                     |
| 1958.....                                    | 482                        | 485               | 162  | 13,860            | 43,984               | 12,196             | 22,709               | 33,877             | 77,149   | 85,094                            | 161,924                            | 5,469   | 98  | 94                                       |
| 1957 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 20,657            | 59,783               | 18,550             | 37,119               | 46,560             | 100,248  | 102,791                           | 203,141                            | (S)   | 92  | 94                                       |
| 1956 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 19,761            | 54,589               | 17,694             | 34,592               | 43,452             | 103,104  | 101,946                           | 201,799                            | 2,523   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 16,541            | 44,081               | 15,071             | 27,975               | 35,256             | 75,037   | 84,769                            | 158,820                            | 2,658   | (NA)  | (NA)                                     |
| 1954.....                                    | 484                        | 484               | 165  | 15,119            | 38,938               | 13,792             | 24,618               | 30,657             | 66,351   | 78,489                            | 145,210                            | 2,247   | 92  | 97                                       |
| 1953 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 17,061            | 44,634               | 15,718             | 27,981               | 35,330             | 70,509   | 101,330                           | 171,839                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                    | 374                        | 377               | (NA)   | 9,797             | 21,847               | 8,886              | 17,386               | 17,739             | 37,577   | 32,209                            | 69,786                             | (NA)  | 89  | 98                                       |
| 1939 <sup>2</sup> .....                      | (NA)                       | 136               | (NA)   | (NA)              | (NA)                 | 4,890              | (NA)                 | 4,405              | 8,874  | 9,608                             | 18,482                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3943.—CHILDREN'S VEHICLES           |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                    | 60                         | 64                | 31   | 4,542             | 19,436               | 3,796              | 7,595                | 14,275             | 35,304   | 41,609                            | 77,507                             | 1,858   | 71  | 65                                       |
| 1962 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 4,386             | 19,241               | 3,717              | 8,222                | 14,576             | 31,824   | 43,832                            | 75,550                             | 1,327   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 4,321             | 19,888               | 3,668              | 8,113                | 15,442             | 31,250   | 36,726                            | 67,354                             | 2,547   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 4,846             | 21,442               | 4,118              | 8,532                | 16,655             | 33,968   | 41,469                            | 75,191                             | 1,222   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 5,022             | 22,023               | 4,272              | 8,341                | 17,175             | 34,031   | 45,463                            | 78,742                             | (1,807)   | (NA)  | (NA)                                     |
| 1958.....                                    | 56                         | 58                | 33   | 4,708             | 19,625               | 3,946              | 7,712                | 14,932             | 31,727   | 38,461                            | 70,438                             | 831   | 84  | 78                                       |
| 1957 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 6,458             | 24,893               | 5,274              | 9,363                | 17,823             | 37,489   | 43,454                            | 81,449                             | 863   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 6,643             | 26,283               | 5,521              | 10,014               | 19,099             | 41,693   | 45,238                            | 85,266                             | 938   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                      | (NA)                       | (NA)              | (NA)   | 6,707             | 26,482               | 5,522              | 10,451               | 19,149             | 38,580   | 43,515                            | 81,652                             | 987   | (NA)  | (NA)                                     |
| 1954.....                                    | 58                         | 60                | 37   | 6,278             | 24,308               | 5,454              | 10,553               | 19,354             | 35,461   | 40,629                            | 77,213                             | 1,325   | 76  | 90                                       |
| 1947.....                                    | 119                        | 120               | (NA)   | 8,783             | 24,735               | 7,773              | 15,972               | 19,423             | 44,204   | 41,627                            | 85,831                             | (NA)  | 81  | 79                                       |
| 1939.....                                    | (NA)                       | 44                | (NA)   | 4,952             | 6,172                | 4,319              | (NA)                 | 4,713              | 9,177  | 9,940                             | 19,117                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                    | (NA)                       | 54                | (NA)   | 5,731             | 6,537                | 5,218              | (NA)                 | 5,415              | 9,695  | 9,960                             | 19,655                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                    | (NA)                       | 55                | (NA)   | 5,456             | 5,411                | 4,918              | (NA)                 | 4,360              | 8,079  | 7,432                             | 15,511                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....                                    | (NA)                       | 46                | (NA)   | 4,280             | 3,290                | 3,971              | (NA)                 | 2,877              | 5,314  | 5,671                             | 10,985                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....                                    | (NA)                       | 59                | (NA)   | (NA)              | (NA)                 | 4,159              | (NA)                 | 4,479              | 9,678  | 7,091                             | 16,769                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....                                    | (NA)                       | 79                | (NA)   | 7,894             | 10,274               | 7,002              | (NA)                 | 8,313              | 15,303   | 13,515                            | 28,818                             | (NA)  | (NA)  | (NA)                                     |
| 1927.....                                    | (NA)                       | 89                | (NA)   | 7,788             | 9,571                | 7,030              | (NA)                 | 7,814              | 14,773   | 13,895                            | 28,668                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....                                    | (NA)                       | 86                | (NA)   | 7,706             | 9,659                | 6,926              | (NA)                 | 7,923              | 16,621   | 13,553                            | 30,174                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....                                    | (NA)                       | 100               | (NA)   | 9,174             | 10,557               | 8,324              | (NA)                 | 8,856              | 18,237   | 15,936                            | 34,173                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....                                    | (NA)                       | 89                | (NA)   | 6,156             | 6,996                | 5,460              | (NA)                 | 5,578              | 12,200   | 9,517                             | 21,717                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....                                    | (NA)                       | 103               | (NA)   | 7,448             | 7,973                | 6,686              | (NA)                 | 6,229              | 12,807   | 11,700                            | 24,507                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....                                    | (NA)                       | 92                | (NA)   | 6,434             | 3,927                | 5,900              | (NA)                 | 3,181              | 6,070  | 5,682                             | 11,752                             | (NA)  | (NA)  | (NA)                                     |
| 1909.....                                    | (NA)                       | 84                | (NA)   | 5,719             | 2,707                | 5,300              | (NA)                 | 2,217              | 4,676  | 4,129                             | 8,805                              | (NA)  | (NA)  | (NA)                                     |
| 1904.....                                    | (NA)                       | 78                | (NA)   | 4,327             | 2,124                | 4,003              | (NA)                 | 1,783              | 3,531  | 2,840                             | 6,371                              | (NA)  | (NA)  | (NA)                                     |
| 1899.....                                    | (NA)                       | 77                | (NA)   | 2,898             | 1,249                | 2,726              | (NA)                 | 1,090              | 2,294  | 1,996                             | 4,290                              | (NA)  | (NA)  | (NA)                                     |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year                                       | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3949.—SPORTING AND ATHLETIC GOODS |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                  | 1,361                      | 1,419             | 345  | 40,543            | 175,777              | 32,514             | 62,703               | 123,306            | 360,980  | 345,968                           | 704,718                            | 15,289  | 93  | 91                                       |
| 1962 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 36,724            | 165,020              | 29,427             | 56,892               | 107,087            | 358,578  | 345,731                           | 697,790                            | 18,709  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 38,714            | 162,128              | 31,106             | 58,500               | 107,788            | 369,700  | 378,749                           | 773,471                            | 15,150  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 39,941            | 167,999              | 31,889             | 60,635               | 110,330            | 384,193  | 368,375                           | 726,761                            | (12,833)  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 38,043            | 161,026              | 31,310             | 61,647               | 110,394            | 332,208  | 329,660                           | 649,494                            | (17,527)  | (NA)  | (NA)                                     |
| 1958.....                                  | 1,169                      | 1,210             | 302  | 37,164            | 148,477              | 29,735             | 57,370               | 104,342            | 314,059  | 269,509                           | 577,815                            | 15,106  | 88  | 91                                       |
| 1957 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 30,609            | 110,285              | 25,008             | 48,296               | 81,054             | 230,728  | 166,693                           | 389,497                            | 5,222   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 32,363            | 106,416              | 27,301             | 51,415               | 80,478             | 214,296  | 160,795                           | 361,592                            | 7,997   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 28,634            | 92,235               | 24,141             | 46,082               | 68,914             | 174,429  | 131,716                           | 303,536                            | 7,877   | (NA)  | (NA)                                     |
| 1954.....                                  | 1,007                      | 1,031             | 254  | 28,919            | 89,681               | 24,439             | 46,101               | 66,087             | 159,852  | 146,961                           | 308,824                            | 5,662   | 90  | 86                                       |
| 1953 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 26,622            | 78,829               | 22,936             | 42,161               | 60,215             | 140,323  | 105,953                           | 246,276                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 25,703            | 71,469               | 22,927             | 45,075               | 56,593             | 127,517  | 117,170                           | 244,687                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                    | (NA)                       | (NA)              | (NA)   | 24,954            | 65,501               | 22,178             | 43,310               | 50,741             | 125,256  | 101,208                           | 226,464                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                  | 843                        | 863               | 228  | 29,756            | 66,675               | 26,381             | 51,990               | 53,768             | 107,449  | 94,854                            | 202,303                            | 7,351   | 94  | 90                                       |
| 1939.....                                  | (NA)                       | 350               | (NA)   | 16,633            | 19,813               | 13,816             | (NA)                 | 14,221             | 38,064   | 26,690                            | 64,754                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>3</sup> .....                    | (NA)                       | 247               | (NA)   | (NA)              | (NA)                 | 12,178             | (NA)                 | 12,542             | 27,519   | 24,555                            | 52,074                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                  | (NA)                       | 213               | (NA)   | 11,667            | 12,421               | 9,979              | (NA)                 | 9,308              | 20,229   | 17,780                            | 38,009                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....                                  | (NA)                       | 193               | (NA)   | 9,859             | 8,604                | 8,622              | (NA)                 | 6,751              | 15,306   | 11,084                            | 26,390                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....                                  | (NA)                       | 249               | (NA)   | (NA)              | (NA)                 | 10,768             | (NA)                 | 11,832             | 31,525   | 21,494                            | 53,019                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....                                  | (NA)                       | 282               | (NA)   | 14,227            | 19,958               | 12,183             | (NA)                 | 14,998             | 39,389   | 27,721                            | 67,110                             | (NA)  | (NA)  | (NA)                                     |
| 1927.....                                  | (NA)                       | 222               | (NA)   | 12,630            | 17,078               | 10,873             | (NA)                 | 13,145             | 30,267   | 21,788                            | 52,055                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....                                  | (NA)                       | 214               | (NA)   | 11,120            | 15,034               | 9,761              | (NA)                 | 11,616             | 28,589   | 19,655                            | 48,244                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....                                  | (NA)                       | 202               | (NA)   | 12,185            | 15,106               | 10,559             | (NA)                 | 11,841             | 27,312   | 20,721                            | 48,033                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....                                  | (NA)                       | 188               | (NA)   | 9,227             | 11,017               | 7,988              | (NA)                 | 8,457              | 20,400   | 18,779                            | 39,179                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....                                  | (NA)                       | 237               | (NA)   | 9,631             | 10,055               | 8,513              | (NA)                 | 8,178              | 21,503   | 18,070                            | 39,573                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....                                  | (NA)                       | 216               | (NA)   | 7,948             | 4,837                | 7,055              | (NA)                 | 3,755              | 8,689  | 9,440                             | 18,129                             | (NA)  | (NA)  | (NA)                                     |
| 1909.....                                  | (NA)                       | 234               | (NA)   | 7,566             | 4,145                | 7,049              | (NA)                 | 3,176              | 7,997  | 8,933                             | 16,930                             | (NA)  | (NA)  | (NA)                                     |
| 1904.....                                  | (NA)                       | 200               | (NA)   | 5,533             | 2,612                | 5,056              | (NA)                 | 2,142              | 5,355  | 3,900                             | 9,255                              | (NA)  | (NA)  | (NA)                                     |
| 1899.....                                  | (NA)                       | 217               | (NA)   | 2,934             | 1,360                | 2,678              | (NA)                 | 1,088              | 2,746  | 2,531                             | 5,277                              | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1954 excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1954 excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>No comparable figures are available for earlier years.

<sup>3</sup>The figures for 1937-1963 are not entirely comparable with those for earlier years because they include data for establishments primarily engaged in the manufacture of playground equipment. Value added by manufacture for 1937, excluding data for these establishments, amounted to \$26.3 million.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                 | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3931.—MUSICAL INSTRUMENTS AND PARTS |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                   | 320            | 126                                | 20,095         | 103,029           | 16,664             | 33,600            | 76,471          | 179,035                              | 143,136           | 314,407            | 5,779                     | 16,103           | 120,935                              |
| New England.....                             | 27             | 9                                  | 825            | 4,641             | 659                | 1,361             | 3,233           | 7,268                                | 3,241             | 10,270             | 151                       | 1,313            | 8,345                                |
| Massachusetts....                            | 18             | 5                                  | 317            | 1,773             | 258                | 524               | 1,280           | 2,975                                | 995               | 3,832              | 84                        | 371              | 2,230                                |
| Middle Atlantic....                          | 81             | 30                                 | 3,386          | 16,940            | 2,848              | 5,563             | 12,994          | 26,641                               | 21,177            | 47,499             | 1,553                     | 3,068            | 23,733                               |
| New York.....                                | 51             | 18                                 | 2,233          | 11,817            | 1,833              | 3,575             | 8,858           | 17,745                               | 15,017            | 32,657             | 985                       | 2,081            | 14,920                               |
| New Jersey.....                              | 17             | 5                                  | 330            | 1,455             | 269                | 529               | 1,090           | 2,319                                | 2,969             | 5,239              | 44                        | 210              | 3,433                                |
| Pennsylvania....                             | 13             | 7                                  | 823            | 3,668             | 746                | 1,459             | 3,046           | 6,577                                | 3,191             | 9,603              | 524                       | 777              | 5,380                                |
| East North Central.                          | 120            | 61                                 | 10,337         | 58,494            | 8,278              | 17,074            | 42,223          | 107,600                              | 77,118            | 179,773            | 3,069                     | 9,439            | 74,660                               |
| Ohio.....                                    | 18             | 9                                  | 1,102          | 6,504             | 996                | 2,047             | 5,681           | 7,440                                | 4,860             | 13,222             | 387                       | 2,491            | 13,024                               |
| Indiana.....                                 | 31             | 17                                 | 2,199          | 13,667            | 1,722              | 3,528             | 9,855           | 22,252                               | 18,946            | 40,584             | 444                       | 1,553            | 13,442                               |
| Illinois.....                                | 46             | 23                                 | 4,951          | 27,173            | 3,729              | 7,814             | 17,419          | 56,543                               | 39,364            | 93,388             | 1,833                     | 3,905            | 37,747                               |
| Michigan.....                                | 15             | 7                                  | 1,472          | 7,961             | 1,324              | 2,663             | 6,909           | 14,172                               | 10,122            | 22,465             | 232                       | 971              | 6,710                                |
| Wisconsin.....                               | 10             | 5                                  | 613            | 3,189             | 507                | 1,022             | 2,359           | 7,193                                | 3,826             | 10,114             | 173                       | 519              | 3,737                                |
| West North Central.                          | 7              | 1                                  | 120            | 778               | 99                 | 206               | 500             | 1,039                                | 375               | 1,426              | 13                        | 154              | 1,086                                |
| South.....                                   | 34             | 15                                 | 4,213          | 15,775            | 3,756              | 7,469             | 12,543          | 27,242                               | 33,866            | 59,486             | 700                       | 1,471            | 8,364                                |
| Mountain.....                                | 8              | 1                                  | 44             | 160               | 37                 | 75                | 129             | 254                                  | 116               | 362                | 14                        | 658              | 4,747                                |
| Pacific.....                                 | 43             | 9                                  | 1,170          | 6,241             | 987                | 1,852             | 4,849           | 8,991                                | 7,243             | 15,591             | 279                       | 515              | 3,715                                |
| California.....                              | 36             | 7                                  | 950            | 5,065             | 803                | 1,502             | 3,951           | 6,919                                | 5,542             | 11,894             | 245                       | 515              | 3,715                                |
| INDUSTRY 3941.—GAMES AND TOYS                |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                   | 797            | 351                                | 51,835         | 206,744           | 44,031             | 84,425            | 145,243         | 444,101                              | 362,235           | 796,631            | 27,728                    | 42,972           | 288,863                              |
| New England.....                             | 82             | 36                                 | 6,429          | 26,067            | 5,150              | 9,614             | 16,868          | 65,073                               | 32,240            | 95,131             | 2,727                     | 5,998            | 40,780                               |
| New Hampshire....                            | 10             | 4                                  | 784            | 2,572             | 679                | 1,372             | 2,240           | 5,173                                | 2,299             | 7,253              | (D)                       | 997              | 5,640                                |
| Massachusetts....                            | 37             | 20                                 | 2,487          | 10,502            | 1,992              | 3,788             | 6,354           | 35,160                               | 16,046            | 51,485             | 654                       | 2,410            | 17,404                               |
| Connecticut.....                             | 20             | 7                                  | 1,421          | 6,925             | 1,024              | 1,924             | 3,886           | 11,506                               | 6,139             | 15,385             | 1,044                     | 1,417            | 9,981                                |
| Middle Atlantic....                          | 343            | 170                                | 25,969         | 100,849           | 22,307             | 42,869            | 71,527          | 209,178                              | 186,861           | 392,750            | 14,817                    | 19,595           | 126,873                              |
| New York.....                                | 221            | 96                                 | 12,427         | 48,150            | 10,473             | 20,812            | 32,823          | 110,449                              | 91,614            | 200,906            | 7,055                     | 10,526           | 70,466                               |
| New Jersey.....                              | 73             | 44                                 | 8,030          | 31,576            | 6,975              | 13,226            | 22,463          | 62,027                               | 51,614            | 112,266            | 5,734                     | 4,546            | 30,472                               |
| Pennsylvania....                             | 49             | 30                                 | 5,512          | 21,123            | 4,859              | 8,831             | 16,241          | 36,702                               | 43,633            | 79,578             | 2,028                     | 4,523            | 25,935                               |
| East North Central.                          | 157            | 81                                 | 10,180         | 42,493            | 8,763              | 16,710            | 30,672          | 93,564                               | 84,810            | 177,415            | 4,867                     | 9,185            | 61,586                               |
| Illinois.....                                | 72             | 39                                 | 4,090          | 17,360            | 3,633              | 6,854             | 13,140          | 37,165                               | 40,348            | 76,344             | 2,088                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West North Central.                          | 34             | 14                                 | 1,651          | 7,141             | 1,417              | 2,649             | 5,096           | 16,425                               | 11,259            | 26,836             | 2,114                     | 1,600            | 10,185                               |
| Minnesota.....                               | 11             | 5                                  | 1,031          | 4,507             | 928                | 1,724             | 3,211           | 10,215                               | 7,233             | 16,686             | 1,720                     | 893              | 5,291                                |
| Missouri.....                                | 15             | 7                                  | 515            | 2,149             | 398                | 751               | 1,528           | 3,790                                | 3,521             | 7,299              | 370                       | 586              | 3,898                                |
| South Atlantic....                           | 27             | 10                                 | 1,403          | 5,050             | 1,258              | 2,453             | 4,208           | 8,820                                | 8,894             | 17,414             | 351                       | 1,464            | 9,053                                |
| East South Central.                          | 15             | 9                                  | 939            | 3,067             | 819                | 1,504             | 2,100           | 6,587                                | 5,823             | 12,446             | 545                       | 806              | 4,382                                |
| Tennessee.....                               | 8              | 6                                  | 613            | 1,960             | 524                | 908               | 1,302           | 4,403                                | 3,441             | 7,923              | 363                       | 496              | 3,152                                |
| West South Central.                          | 26             | 7                                  | 1,926          | 7,233             | 1,671              | 3,390             | 5,295           | 14,900                               | 11,161            | 24,815             | 429                       | 1,377            | 10,067                               |
| West.....                                    | 113            | 24                                 | 3,338          | 14,844            | 2,646              | 5,236             | 9,477           | 29,554                               | 21,187            | 49,824             | 1,878                     | 2,947            | 25,937                               |
| Oregon.....                                  | 4              | 3                                  | 248            | 730               | 226                | 377               | 572             | 1,700                                | 1,447             | 3,166              | 102                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                              | 93             | 21                                 | 3,037          | 13,945            | 2,374              | 4,769             | 8,760           | 27,399                               | 19,473            | 45,943             | 1,747                     | 2,757            | 24,968                               |
| INDUSTRY 3942.—DOLLS                         |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                   | 410            | 160                                | 16,213         | 58,991            | 13,934             | 24,361            | 41,751          | 138,100                              | 114,418           | 247,942            | 6,276                     | 13,860           | 77,149                               |
| New England.....                             | 27             | 13                                 | 1,233          | 3,210             | 1,133              | 1,802             | 2,554           | 5,655                                | 3,468             | 9,042              | 218                       | 1,019            | 5,149                                |
| Middle Atlantic....                          | 311            | 122                                | 9,608          | 32,910            | 8,575              | 15,132            | 25,814          | 65,018                               | 60,618            | 125,433            | 3,241                     | 11,708           | 66,435                               |
| New York.....                                | 286            | 109                                | 8,362          | 27,822            | 7,503              | 12,855            | 21,921          | 57,674                               | 54,744            | 112,138            | 2,784                     | 9,614            | 54,321                               |
| New Jersey.....                              | 12             | 6                                  | 658            | 3,173             | 525                | 1,300             | 2,190           | 4,133                                | 3,742             | 8,010              | 359                       | 1,571            | 9,252                                |
| Pennsylvania....                             | 13             | 7                                  | 588            | 1,915             | 547                | 977               | 1,703           | 3,211                                | 2,132             | 5,285              | 98                        | 523              | 2,862                                |
| North Central.....                           | 20             | 8                                  | 757            | 2,032             | 643                | 1,126             | 1,651           | 3,082                                | 2,775             | 5,924              | 301                       | 299              | 1,358                                |
| South and West....                           | 52             | 17                                 | 4,615          | 20,839            | 3,583              | 6,301             | 11,732          | 64,345                               | 47,557            | 107,543            | 2,516                     | 834              | 4,207                                |
| Georgia.....                                 | 6              | 5                                  | 437            | 1,474             | 391                | 728               | 1,112           | 2,210                                | 1,825             | 4,052              | 63                        | 380              | 2,243                                |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>               | 1963           |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     | 1958                   |  |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|------------------------|--|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |                        |  |
| INDUSTRY 3943.—CHILDREN'S VEHICLES         |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| Total.....                                 | 64             | 31                                 | 4,542          | 19,436            | 3,796              | 7,595             | 14,275          | 35,304   | 41,609                      | 77,507                       | 1,858                               | 4,708                  | 31,727   |
| New England.....                           | 7              | 3                                  | 417            | 1,811             | 317                | 601               | 1,242           | 2,673  | 3,571                       | 6,219                        | 219                                 | 853                    | 4,230  |
| Middle Atlantic....                        | 21             | 12                                 | 1,225          | 4,009             | 1,099              | 2,166             | 3,091           | 6,934  | 5,882                       | 12,870                       | 498                                 | 741                    | 4,040  |
| New York.....                              | 13             | 7                                  | 795            | 2,834             | 715                | 1,358             | 2,157           | 4,894  | 4,016                       | 8,943                        | 451                                 | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| North Central.....                         | 21             | 11                                 | 2,311          | 10,991            | 1,926              | 3,918             | 8,297           | 20,440   | 25,611                      | 46,386                       | 918                                 | 2,539                  | 18,771   |
| South and West.....                        | 15             | 5                                  | 589            | 2,625             | 454                | 910               | 1,645           | 5,257  | 6,545                       | 12,032                       | 223                                 | 575                    | 4,686  |
| INDUSTRY 3949.—SPORTING AND ATHLETIC GOODS |                |                                    |                |                   |                    |                   |                 |  |                             |                              |                                     |                        |  |
| Total.....                                 | 1,419          | 345                                | 40,543         | 175,777           | 32,514             | 62,703            | 123,306         | 360,980  | 345,968                     | 704,718                      | 15,289                              | 37,164                 | 314,059  |
| New England.....                           | 100            | 35                                 | 5,364          | 23,159            | 4,200              | 7,987             | 16,791          | 49,534   | 37,753                      | 82,389                       | 1,443                               | 4,937                  | 28,311   |
| Maine.....                                 | 12             | 4                                  | 404            | 1,289             | 336                | 663               | 981             | 2,248  | 1,829                       | 3,969                        | 42                                  | 643                    | 2,816  |
| Massachusetts....                          | 44             | 17                                 | 3,755          | 16,560            | 2,845              | 5,344             | 11,605          | 37,942   | 26,984                      | 60,498                       | 1,027                               | 3,037                  | 18,878   |
| Connecticut.....                           | 27             | 9                                  | 828            | 3,765             | 709                | 1,371             | 3,086           | 6,261  | 5,798                       | 11,622                       | 314                                 | 880                    | 4,428  |
| Middle Atlantic....                        | 248            | 69                                 | 6,289          | 25,926            | 5,337              | 10,458            | 18,919          | 44,392   | 58,167                      | 102,652                      | 2,204                               | 8,636                  | 86,328   |
| New York.....                              | 140            | 40                                 | 3,815          | 15,257            | 3,221              | 6,302             | 11,011          | 25,258   | 33,029                      | 58,963                       | 833                                 | ( <sup>2</sup> )       | ( <sup>2</sup> )                               |
| East North Central.                        | 351            | 99                                 | 12,530         | 61,220            | 9,539              | 18,598            | 40,645          | 136,499  | 130,600                     | 271,067                      | 4,837                               | 11,592                 | 116,412  |
| Ohio.....                                  | 60             | 17                                 | 3,685          | 18,562            | 2,782              | 5,338             | 12,779          | 25,601   | 30,623                      | 57,319                       | 1,345                               | 4,024                  | 28,683   |
| Indiana.....                               | 31             | 8                                  | 676            | 2,720             | 552                | 1,040             | 1,959           | 5,257  | 5,547                       | 10,874                       | 253                                 | 388                    | 2,766  |
| Illinois.....                              | 98             | 30                                 | 3,183          | 15,879            | 2,413              | 4,713             | 10,827          | 29,560   | 46,259                      | 76,336                       | 1,496                               | 2,463                  | 36,839   |
| Michigan.....                              | 102            | 28                                 | 3,623          | 19,207            | 2,631              | 5,300             | 11,756          | 66,912   | 39,119                      | 108,173                      | 1,433                               | 3,685                  | 43,006   |
| Wisconsin.....                             | 60             | 16                                 | 1,363          | 4,852             | 1,161              | 2,207             | 3,324           | 9,169  | 9,052                       | 18,365                       | 310                                 | 1,032                  | 5,118  |
| West North Central.                        | 138            | 40                                 | 3,739          | 14,058            | 3,117              | 5,973             | 10,639          | 25,609   | 30,502                      | 56,421                       | 866                                 | 3,075                  | 18,704   |
| Minnesota.....                             | 48             | 14                                 | 934            | 3,902             | 809                | 1,680             | 3,111           | 8,315  | 8,863                       | 17,187                       | 187                                 | 582                    | 4,764  |
| Iowa.....                                  | 25             | 11                                 | 1,132          | 4,580             | 871                | 1,706             | 3,091           | 8,759  | 7,580                       | 16,678                       | 446                                 | 636                    | 3,787  |
| Missouri.....                              | 37             | 10                                 | 1,462          | 4,762             | 1,263              | 2,257             | 3,823           | 7,170  | 12,817                      | 19,953                       | 174                                 | 1,727                  | 9,320  |
| South Atlantic....                         | 111            | 22                                 | 3,723          | 15,534            | 2,979              | 5,819             | 10,412          | 35,028   | 22,206                      | 57,165                       | 1,477                               | 2,637                  | 21,602   |
| South Carolina...                          | 8              | 5                                  | 972            | 3,757             | 816                | 1,651             | 2,659           | 8,337  | 4,506                       | 12,261                       | 448                                 | 368                    | 2,158  |
| Florida.....                               | 61             | 8                                  | 678            | 1,960             | 606                | 1,128             | 1,601           | 3,553  | 3,356                       | 6,961                        | 126                                 | 430                    | 2,316  |
| East South Central.                        | 57             | 14                                 | 1,793          | 7,000             | 1,573              | 2,797             | 5,596           | 11,510   | 13,052                      | 24,579                       | 479                                 | 1,538                  | 10,576   |
| Tennessee.....                             | 25             | 9                                  | 1,047          | 3,204             | 956                | 1,595             | 2,943           | 5,503  | 6,876                       | 12,309                       | 407                                 | 798                    | 4,041  |
| West South Central.                        | 109            | 19                                 | 2,592          | 8,939             | 2,148              | 4,038             | 6,454           | 20,321   | 19,927                      | 39,067                       | 629                                 | 1,501                  | 7,887  |
| Texas.....                                 | 65             | 12                                 | 960            | 3,372             | 749                | 1,301             | 2,107           | 6,757  | 6,991                       | 13,578                       | 238                                 | 360                    | 2,716  |
| Mountain.....                              | 41             | 7                                  | 835            | 2,881             | 713                | 1,464             | 2,190           | 3,631  | 3,884                       | 7,279                        | 95                                  | 914                    | 4,587  |
| Colorado.....                              | 18             | 5                                  | 567            | 2,033             | 479                | 1,031             | 1,538           | 2,251  | 2,801                       | 4,794                        | 51                                  | 630                    | 3,293  |
| Pacific.....                               | 264            | 40                                 | 3,678          | 17,060            | 2,908              | 5,569             | 11,660          | 34,456   | 29,877                      | 64,099                       | 3,259                               | 2,334                  | 19,652   |
| Washington.....                            | 38             | 4                                  | 296            | 1,073             | 253                | 458               | 848             | 2,222  | 1,622                       | 3,916                        | 110                                 | 246                    | 1,874  |
| California.....                            | 197            | 32                                 | 3,075          | 14,765            | 2,397              | 4,654             | 9,885           | 30,620   | 26,228                      | 56,495                       | 3,049                               | 1,925                  | 16,570   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State. SIC 3931, Musical Instruments and Parts: New England—New Hampshire, 1 (20-99); Vermont, 1 (1-19); Rhode Island, 2 (20-99); Connecticut, 5 (407); West North Central—Minnesota, 1 (1-19); Iowa, 3 (1-19); Nebraska, 1 (1-19); Kansas, 2 (20-99); South Atlantic—Maryland, 6 (458); Virginia, 2 (20-99); North Carolina, 5 (284); South Carolina, 1 (250-499); Florida, 5 (1-19); East South Central—Kentucky, 2 (1-19); Tennessee, 5 (500-999); Mississippi, 3 (1,000-2,499); West South Central—Arkansas, 2 (500-999); Louisiana, 1 (1-19); Texas, 2 (1-19); Mountain—Colorado, 3 (1-19); New Mexico, 1 (1-19); Arizona, 1 (20-99); Utah, 3 (1-19); Pacific—Washington, 4 (164); Oregon, 2 (20-99); Hawaii, 1 (1-19). SIC 3941, Games and Toys: New England—Maine, 5 (20-99); Vermont, 3 (20-99); Rhode Island, 7 (1,647); East North Central—Ohio, 32 (2,737); Indiana, 10 (500-999); Michigan, 23 (1,665); Wisconsin, 20 (1,000-2,499); West North Central—Iowa, 3 (20-99); South Dakota, 1 (1-19); Nebraska, 1 (1-19); Kansas, 3 (1-19); South Atlantic—Maryland, 5 (250-499); Virginia, 1 (1-19); West Virginia, 6 (638); North Carolina, 6 (387); South Carolina, 1 (1-19); Georgia, 3 (1-19); Florida, 5 (20-99); East South Central—Kentucky, 2 (100-249); Alabama, 3 (100-249); Mississippi, 2 (1-19); West South Central—Arkansas, 2 (500-999); Louisiana, 2 (1-19); Oklahoma, 2 (1-19); Texas, 20 (500-999); Mountain—Montana, 1 (1-19); Colorado, 4 (20-99); Arizona, 1 (1-19); Nevada, 3 (20-99); Pacific—Washington, 7 (1-19). SIC 3942, Dolls: New England—New Hampshire, 6 (100-249); Vermont, 2 (20-99); Massachusetts, 14 (500-999); Connecticut, 5 (100-249); East North Central—Ohio, 2 (20-99); Illinois, 2 (1-19); Michigan, 1 (1-19); Wisconsin, 1 (1-19); West North Central—Minnesota, 4 (100-249); Iowa, 3 (250-499); Missouri, 6 (100-249); South Atlantic—Maryland, 1 (1-19); North Carolina, 2 (20-99); South Carolina, 2 (250-499); Florida, 5 (20-99); East South Central—Tennessee, 5 (20-99); West South Central—Louisiana, 1 (1-19); Texas, 4 (20-99); Mountain—Montana, 1 (1-19); Pacific—Washington, 2 (1-19); Oregon, 1 (1-19); California, 21 (3,469); Hawaii, 1 (1-19). SIC 3943, Children's Vehicles: New England—Massachusetts, 6 (250-499); Connecticut, 1 (1-19); Middle Atlantic—New Jersey, 2 (100-249); Pennsylvania, 6 (250-499); East North Central—Ohio, 3 (250-499); Indiana, 2 (20-99); Illinois, 4 (500-999); Michigan, 3 (100-249); Wisconsin, 3 (282); West North Central—Minnesota, 1 (20-99); Iowa, 2 (1-19); Missouri, 2 (250-499); Nebraska, 1 (1-19); South Atlantic—Maryland, 1 (1-19); Virginia, 1 (20-99); Georgia, 1 (1-19); East South Central—Alabama, 1 (100-249); Mountain—Colorado, 2 (1-19); Utah, 1 (1-19); Pacific—California, 8 (354). SIC 3949, Sporting and Athletic Goods: New England—New Hampshire, 2 (100-249); Vermont, 3 (20-99); Rhode Island, 12 (237); Middle Atlantic—New Jersey, 41 (500-999); Pennsylvania, 67 (1,000-2,499); West North Central—North Dakota, 2 (1-19); Nebraska, 7 (20-99); Kansas, 19 (124); South Atlantic—Maryland, 7 (320); Virginia, 5 (1,000-2,499); West Virginia, 4 (20-99); North Carolina, 11 (20-99); Georgia, 15 (468); East South Central—Kentucky, 9 (250-499); Alabama, 18 (236); Mississippi, 5 (20-99); West South Central—Arkansas, 16 (500-999); Louisiana, 14 (320); Oklahoma, 14 (250-499); Mountain—Montana, 5 (20-99); Idaho, 6 (173); New Mexico, 1 (1-19); Arizona, 4 (20-99); Utah, 4 (1-19); Nevada, 3 (1-19); Pacific—Oregon, 27 (250-499); Hawaii, 2 (1-19).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.



TABLE 3. Detailed Statistics: 1963

| Item   | Musical instruments and parts (SIC 3931) | Games and toys (SIC 3941) | Dolls (SIC 3942) | Children's vehicles (SIC 3943) | Sporting and athletic goods (SIC 3949) |
|--|--|---------------------------|------------------|--------------------------------|--|
| Primary product specialization ratio <sup>1</sup> .....        | .97                                      | .92                       | .80-.85          | .71                            | .93                                    |
| Coverage ratio <sup>2</sup> .....                              | .92                                      | .91                       | .87              | .65                            | .91                                    |
| Establishments, total.....number..                             | 320                                      | 797                       | 410              | 64                             | 1,419                                  |
| With 1 to 19 employees.....do....                              | 194                                      | 446                       | 250              | 33                             | 1,074                                  |
| With 20 to 99 employees.....do....                             | 79                                       | 230                       | 131              | 16                             | 250                                    |
| With 100 employees or more.....do....                          | 47                                       | 121                       | 29               | 15                             | 95                                     |
| Proprietors and working partners.....do....                    | 133                                      | 303                       | 213              | 17                             | 781                                    |
| All employees (average for the year).....do....                | 20,095                                   | 51,835                    | 16,213           | 4,542                          | 40,543                                 |
| Payroll (all employees), total for year.....\$1,000..          | 103,029                                  | 206,744                   | 58,991           | 19,436                         | 175,777                                |
| Production workers:  |  |                           |                  |                                |  |
| Average for the year.....number..                              | 16,664                                   | 44,031                    | 13,934           | 3,796                          | 32,514                                 |
| March.....do....   | 17,218                                   | 34,886                    | 10,298           | 3,522                          | 32,101                                 |
| May.....do....   | 15,650                                   | 40,274                    | 13,434           | 4,224                          | 33,505                                 |
| August.....do....  | 16,226                                   | 49,950                    | 16,178           | 3,902                          | 31,895                                 |
| November.....do....  | 17,597                                   | 51,018                    | 15,852           | 3,545                          | 32,557                                 |
| Man-hours.....1,000..  | 33,600                                   | 84,425                    | 24,361           | 7,595                          | 62,703                                 |
| January-March.....do....                                       | 8,388                                    | 16,290                    | 4,271            | 1,666                          | 15,428                                 |
| April-June.....do....  | 8,102                                    | 19,553                    | 5,892            | 2,190                          | 16,283                                 |
| July-September.....do....                                      | 7,720                                    | 23,606                    | 7,144            | 1,911                          | 15,229                                 |
| October-December.....do....                                    | 9,390                                    | 24,976                    | 7,054            | 1,839                          | 15,763                                 |
| Wages.....\$1,000..  | 76,471                                   | 145,243                   | 41,751           | 14,275                         | 123,306                                |
| Cost of materials, etc., total.....do....                      | 143,136                                  | 362,235                   | 114,418          | 41,609                         | 345,968                                |
| Materials, parts, containers, and supplies consumed.....do.... | 132,015                                  | 325,133                   | 79,382           | 38,987                         | 293,360                                |
| Cost of resales.....do....                                     | 8,076                                    | 20,523                    | 24,841           | 871                            | 40,188                                 |
| Fuels consumed.....do....                                      | 919                                      | 1,677                     | 316              | 321                            | 2,046                                  |
| Electric energy:   |  |                           |                  |                                |  |
| Purchased:   |  |                           |                  |                                |  |
| Quantity.....million kw.-hrs..                                 | 77                                       | 296                       | 66               | 22                             | 198                                    |
| Cost.....\$1,000..   | 1,357                                    | 4,556                     | 1,042            | 381                            | 3,391                                  |
| Generated less sold.....million kw.-hrs..                      | (D)                                      | (D)                       | -                | -                              | (D)                                    |
| Contract work.....\$1,000..                                    | 769                                      | 10,345                    | 8,837            | 1,049                          | 6,983                                  |
| Value of shipments (including resales), total.....do....       | 314,407                                  | 796,631                   | 247,942          | 77,507                         | 704,718                                |
| Value of resales.....do....                                    | 10,848                                   | 32,737                    | 48,047           | 1,071                          | 51,989                                 |
| Value added by manufacture, adjusted.....do....                | 179,035                                  | 444,101                   | 138,100          | 35,304                         | 360,980                                |
| Manufacturers' inventories:                                    |  |                           |                  |                                |  |
| Beginning of year, total.....do....                            | 55,295                                   | 124,625                   | 21,270           | 12,692                         | 175,662                                |
| Finished products.....do....                                   | 12,252                                   | 58,471                    | 10,589           | 4,396                          | 84,929                                 |
| Work-in-process.....do....                                     | 27,515                                   | 24,676                    | 2,081            | 3,083                          | 40,075                                 |
| Materials, supplies, fuel, etc.....do....                      | 15,528                                   | 41,477                    | 8,600            | 5,213                          | 50,658                                 |
| End of year, total.....do....                                  | 63,719                                   | 135,267                   | 27,186           | 11,692                         | 175,061                                |
| Finished products.....do....                                   | 15,669                                   | 68,686                    | 15,331           | 4,454                          | 81,478                                 |
| Work-in-process.....do....                                     | 31,862                                   | 24,167                    | 1,915            | 2,431                          | 45,786                                 |
| Materials, supplies, fuel, etc.....do....                      | 16,188                                   | 42,414                    | 9,940            | 4,807                          | 47,792                                 |
| Expenditures for plant and equipment, total.....do....         | 6,152                                    | 30,441                    | 6,509            | 1,970                          | 16,127                                 |
| New, total.....do....  | 5,779                                    | 27,728                    | 6,276            | 1,858                          | 15,289                                 |
| New structures and additions to plant.....do....               | 2,551                                    | 6,391                     | 1,823            | 95                             | 5,192                                  |
| New machinery and equipment.....do....                         | 3,228                                    | 21,337                    | 4,453            | 1,763                          | 10,102                                 |
| Used plant and equipment.....do....                            | 373                                      | 2,713                     | 233              | 112                            | 835                                    |
| Selected operating ratios:                                     |  |                           |                  |                                |  |
| Payroll/Total employment.....                                  | 5,127                                    | 3,989                     | 3,638            | 4,279                          | 4,336                                  |
| Production workers/Total employment.....                       | .83                                      | .85                       | .86              | .84                            | .80                                    |
| Man-hours/Production workers.....                              | 2,016                                    | 1,917                     | 1,748            | 2,001                          | 1,928                                  |
| Production worker wages/Man-hours.....                         | 2.28                                     | 1.72                      | 1.71             | 1.88                           | 1.97                                   |
| Cost of materials and payrolls/Total value of shipments.....   | .78                                      | .71                       | .70              | .79                            | .74                                    |
| Cost of materials/Total value of shipments.....                | .46                                      | .45                       | .46              | .54                            | .49                                    |
| Adjusted value added/Total employment.....                     | 8,909                                    | 8,568                     | 8,518            | 7,773                          | 8,904                                  |
| Salaries and wages/Adjusted value added.....                   | .58                                      | .47                       | .43              | .55                            | .49                                    |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item   | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|--|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|  |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3931.—MUSICAL INSTRUMENTS AND PARTS |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                  | 320                   | 124                                | 39               | 31                 | 45                 | 34                 | 23                   | 17                   | 6                    | 1                        | -                        |
| All employees:                               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                             | 20,095                | 242                                | 287              | 445                | 1,523              | 2,465              | 3,848                | 5,894                | <u>5,391</u>         | (D)                      | -                        |
| Payroll.....\$1,000..                        | 103,029               | 920                                | 1,278            | 1,897              | 7,265              | 12,277             | 19,682               | 31,523               | <u>28,187</u>        | (D)                      | -                        |
| Value added, adjusted.....do....             | 179,035               | 1,660                              | 1,889            | 2,951              | 12,611             | 18,583             | 34,774               | 51,195               | <u>55,372</u>        | (D)                      | -                        |
| Value of shipments.....do....                | 314,407               | 3,780                              | 3,940            | 5,093              | 21,198             | 35,120             | 63,129               | 94,288               | <u>87,859</u>        | (D)                      | -                        |
| Capital expenditures, new...do....           | 5,779                 | 127                                | 59               | 188                | 578                | 518                | 1,503                | 1,622                | <u>1,184</u>         | (D)                      | -                        |
| INDUSTRY 3941.—GAMES AND TOYS                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                  | 797                   | 267                                | 80               | 99                 | 153                | 77                 | 67                   | 35                   | 13                   | 6                        | -                        |
| All employees:                               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                             | 51,835                | 429                                | 541              | 1,422              | 4,910              | 5,261              | 9,866                | 11,936               | 9,309                | 8,161                    | -                        |
| Payroll.....\$1,000..                        | 206,744               | 1,516                              | 2,103            | 5,343              | 17,768             | 20,064             | 37,055               | 46,119               | 41,544               | 35,232                   | -                        |
| Value added, adjusted.....do....             | 444,101               | 14,195                             | 4,803            | 11,257             | 38,152             | 42,703             | 73,040               | 92,061               | 90,192               | 77,698                   | -                        |
| Value of shipments.....do....                | 796,631               | 18,277                             | 9,350            | 22,595             | 73,868             | 85,433             | 134,901              | 169,251              | 153,437              | 129,519                  | -                        |
| Capital expenditures, new...do....           | 27,728                | 559                                | 452              | 851                | 3,107              | 2,590              | 5,207                | 4,830                | 5,967                | 4,165                    | -                        |
| INDUSTRY 3942.—DOLLS                         |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                  | 410                   | 109                                | 55               | 86                 | 86                 | 45                 | 19                   | 9                    | -                    | -                        | 1                        |
| All employees:                               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                             | 16,213                | 188                                | 378              | 1,190              | 2,617              | 3,133              | 2,646                | 6,061                | -                    | -                        | (D)                      |
| Payroll.....\$1,000..                        | 58,991                | 546                                | 1,186            | 3,580              | 8,178              | 10,280             | 9,204                | <u>26,017</u>        | -                    | -                        | (D)                      |
| Value added, adjusted.....do....             | 138,100               | 1,302                              | 2,205            | 6,757              | 14,992             | 21,342             | 15,020               | <u>76,282</u>        | -                    | -                        | (D)                      |
| Value of shipments.....do....                | 247,942               | 3,168                              | 4,274            | 12,757             | 29,584             | 39,375             | 29,864               | <u>128,920</u>       | -                    | -                        | (D)                      |
| Capital expenditures, new...do....           | 6,276                 | 351                                | 369              | 592                | 611                | 1,205              | 664                  | <u>2,484</u>         | -                    | -                        | (D)                      |
| INDUSTRY 3943.—CHILDREN'S VEHICLES           |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                  | 64                    | 21                                 | 5                | 7                  | 6                  | 10                 | 9                    | 6                    | -                    | -                        | -                        |
| All employees:                               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                             | 4,542                 | 22                                 | 31               | <u>282</u>         | (D)                | 710                | 1,618                | 1,879                | -                    | -                        | -                        |
| Payroll.....\$1,000..                        | 19,436                | 73                                 | 109              | <u>1,037</u>       | (D)                | 2,951              | 7,177                | 8,089                | -                    | -                        | -                        |
| Value added, adjusted.....do....             | 35,304                | 111                                | 195              | <u>1,288</u>       | (D)                | 5,232              | 10,774               | 17,704               | -                    | -                        | -                        |
| Value of shipments.....do....                | 77,507                | 277                                | 530              | <u>3,070</u>       | (D)                | 10,837             | 24,970               | 37,823               | -                    | -                        | -                        |
| Capital expenditures, new...do....           | 1,858                 | 25                                 | 25               | <u>89</u>          | (D)                | 535                | 282                  | 902                  | -                    | -                        | -                        |
| INDUSTRY 3949.—SPORTING AND ATHLETIC GOODS   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                  | 1,419                 | 676                                | 201              | 197                | 177                | 73                 | 60                   | 26                   | 7                    | 2                        | -                        |
| All employees:                               |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                             | 40,543                | 1,075                              | 1,303            | 2,773              | 5,505              | 5,102              | 9,548                | 8,757                | 6,480                | (D)                      | -                        |
| Payroll.....\$1,000..                        | 175,777               | 3,415                              | 4,896            | 10,511             | 21,524             | 21,736             | 37,772               | 41,923               | <u>34,000</u>        | (D)                      | -                        |
| Value added, adjusted.....do....             | 360,980               | 7,161                              | 9,320            | 22,290             | 39,417             | 36,715             | 67,134               | 83,472               | <u>95,471</u>        | (D)                      | -                        |
| Value of shipments.....do....                | 704,718               | 15,345                             | 20,529           | 42,866             | 82,703             | 81,280             | 138,463              | 148,160              | <u>175,372</u>       | (D)                      | -                        |
| Capital expenditures, new...do....           | 15,289                | 520                                | 693              | 851                | 1,355              | 2,141              | 2,783                | 4,804                | <u>2,142</u>         | (D)                      | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

TABLE 5A. **Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958**

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                 | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B:C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |  | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3931      | Musical instruments and parts.....1963.. | 314,407            | 293,516          | 8,324              | 12,567                 | 97                                   | 319,363                            | 293,516               | 25,847                   | 92                            |
|           | 1958..                                   | 236,750            | 221,093          | 5,157              | 10,500                 | 98                                   | 242,144                            | 221,093               | 21,051                   | 91                            |
| 3941      | Games and toys.....1963..                | 796,631            | 693,914          | 61,822             | 40,895                 | 92                                   | 763,917                            | 693,914               | 70,003                   | 91                            |
|           | 1958..                                   | 544,056            | 482,947          | 35,395             | 25,714                 | 93                                   | 522,031                            | 482,947               | 39,084                   | 92                            |
| 3942      | Dolls.....1963..                         | 247,942            | 164,943          | (D)                | (D)                    | 80-85                                | 190,403                            | 164,943               | 25,460                   | 87                            |
|           | 1958..                                   | 161,924            | 152,561          | 3,099              | 6,264                  | 98                                   | 161,893                            | 152,561               | 9,332                    | 94                            |
| 3943      | Children's vehicles.....1963..           | 77,507             | 53,972           | 22,041             | 1,494                  | 71                                   | 82,656                             | 53,972                | 28,684                   | 65                            |
|           | 1958..                                   | 70,438             | 57,011           | 10,530             | 2,897                  | 84                                   | 72,914                             | 57,011                | 15,903                   | 78                            |
| 3949      | Sporting and athletic goods.....1963..   | 704,718            | 597,554          | 46,973             | 60,191                 | 93                                   | 655,542                            | 597,554               | 57,988                   | 91                            |
|           | 1958..                                   | 577,815            | 472,655          | 67,301             | 37,859                 | 88                                   | 519,920                            | 472,655               | 47,265                   | 91                            |

Note: See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available.  
(X) Not applicable.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c)

miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                              | Class of products and miscellaneous receipts                      | All industries | Musical instruments and parts (SIC 3931) | Other industries |
|---|---|----------------|--|------------------|
| <b>MUSICAL INSTRUMENTS AND PARTS INDUSTRY</b> |   |                |  |                  |
|   | Total shipments and receipts of the industry.....                 | (X)            | 314,407                                  | (X)              |
|   | Primary Products.....   | 319,363        | 293,516                                  | 25,847           |
| 39311   | Pianos.....   | 87,705         | 87,705                                   | -                |
| 39312   | Organs.....   | 107,292        | 90,217                                   | 17,075           |
| 39313   | Piano and organ parts.....  | 42,284         | 36,999                                   | 25,285           |
| 39314   | Other musical instruments and parts.....                          | 77,669         | 75,438                                   | 2,231            |
| 39310   | Musical instruments and parts, n.s.k.....                         | 4,413          | 3,157                                    | 1,256            |
|   | Secondary products, total.....                                    | (X)            | 8,324                                    | (X)              |
| 25112   | Other wood living room, library, sunroom, and hall furniture..... | (X)            | 2,164                                    | (X)              |
|   | Other secondary products.....                                     | (X)            | 36,160                                   | (X)              |
|   | Miscellaneous receipts, total.....                                | (X)            | 12,567                                   | (X)              |
|   | Contract and commission work.....                                 | (X)            | 403                                      | (X)              |
|   | Sales of products bought and resold.....                          | (X)            | 10,848                                   | (X)              |
|   | Other miscellaneous receipts.....                                 | (X)            | 1,316                                    | (X)              |
| <b>GAMES AND TOYS INDUSTRY</b>                |   |                |  |                  |
|   | Total shipments and receipts of the industry.....                 | (X)            | 796,631                                  | (X)              |
| 39410   | Games and toys, except dolls and children's vehicles.....         | 763,917        | 693,914                                  | 448,904          |
|   | Secondary products.....   | (X)            | 61,822                                   | (X)              |
| 3079-   | Miscellaneous plastics products.....                              | (X)            | 9,853                                    | (X)              |
| 39430   | Baby carriages and children's vehicles, except bicycles.....      | (X)            | 2,773                                    | (X)              |
|   | Other secondary products.....                                     | (X)            | 549,196                                  | (X)              |
|   | Miscellaneous receipts.....                                       | (X)            | 40,895                                   | (X)              |
|   | Contract work.....  | (X)            | 6,375                                    | (X)              |
|   | Sales of products bought and resold.....                          | (X)            | 32,737                                   | (X)              |
|   | Other miscellaneous receipts.....                                 | (X)            | 1,783                                    | (X)              |
| <b>DOLLS INDUSTRY</b>                         |   |                |  |                  |
|   | Total shipments and receipts of the industry.....                 | (X)            | 247,942                                  | (X)              |
| 39420   | Dolls and stuffed toy animals.....                                | 190,403        | 164,943                                  | 625,460          |
|   | Secondary products.....   | (X)            | (D)                                      | (X)              |
|   | Miscellaneous receipts.....                                       | (X)            | (D)                                      | (X)              |
| <b>CHILDREN'S VEHICLES INDUSTRY</b>           |   |                |  |                  |
|   | Total shipments and receipts of the industry.....                 | (X)            | 77,507                                   | (X)              |
| 39430   | Baby carriages and children's vehicles, except bicycles.....      | 82,656         | 53,972                                   | 728,684          |
|   | Secondary products.....   | (X)            | 22,041                                   | (X)              |
| 25144   | Other metal household furniture.....                              | (X)            | 2,088                                    | (X)              |
| 39410   | Games and toys, except dolls and children's vehicles.....         | (X)            | 3,523                                    | (X)              |
|   | Other secondary products.....                                     | (X)            | 816,430                                  | (X)              |
|   | Miscellaneous receipts.....                                       | (X)            | 1,494                                    | (X)              |
|   | Sales of products bought and resold.....                          | (X)            | 1,071                                    | (X)              |
|   | Other miscellaneous receipts.....                                 | (X)            | 423                                      | (X)              |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code                     | Class of products and miscellaneous receipts      | All industries | Sporting and athletic goods (SIC 3949) | Rubber products, n.e.c. (SIC 3069) | Other industries |
|--------------------------------------|---|----------------|--|------------------------------------|------------------|
| SPORTING AND ATHLETIC GOODS INDUSTRY |   |                |  |                                    |                  |
|                                      | Total shipments and receipts of the industry..... | (X)            | 704,718                                | (X)                                | (X)              |
|                                      | Primary products.....                             | 655,542        | 597,554                                | 15,198                             | 42,790           |
| 39491                                | Fishing tackle and equipment.....                 | 96,870         | 94,626                                 | (X)                                | 2,244            |
| 39492                                | Other sporting and athletic goods.....            | 525,444        | 471,322                                | 15,198                             | 938,922          |
| 39490                                | Sporting and athletic goods, n.s.k.....           | 33,228         | 31,606                                 | (X)                                | 1,622            |
|                                      | Secondary products.....                           | (X)            | 46,973                                 | (X)                                | (X)              |
| 3079-                                | Miscellaneous plastics products.....              | (X)            | 2,580                                  | (X)                                | (X)              |
|                                      | Other secondary products.....                     | (X)            | 1044,393                               | (X)                                | (X)              |
|                                      | Miscellaneous receipts.....                       | (X)            | 60,191                                 | (X)                                | (X)              |
|                                      | Contract work.....                                | (X)            | 3,988                                  | (X)                                | (X)              |
|                                      | Sales of products bought and resold.....          | (X)            | 51,989                                 | (X)                                | (X)              |
|                                      | Other miscellaneous receipts.....                 | (X)            | 4,214                                  | (X)                                | (X)              |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>The following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3651, Radio and TV Receiving Sets; and 3662, Radio, TV Communications Equipment.

<sup>2</sup>The following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing figures for individual companies: 3651, Radio and TV Receiving Sets.

<sup>3</sup>Includes the following product class which totaled \$2 million or more but is withheld to avoid disclosing individual company figures: 36513, "Recorders, audio amplifiers, phonographs, tuners, speaker systems, and other audio equipment and accessories."

<sup>4</sup>Includes \$2,148 thousand shipped by industry 3069, Rubber Products, N.E.C. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 2731, Books, Publishing and Printing; 3461, Metal Stampings; and 3631, Household Cooking Equipment.

<sup>5</sup>Includes the following product classes which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 31610, Suitcases, briefcases, bags, and musical instrument cases; 39420, Dolls and stuffed toy animals; and 39492, Other sporting and athletic goods.

<sup>6</sup>The following industry had shipments which totaled \$2 million or more but is withheld to avoid disclosing figures for individual companies: 3941, Games and Toys.

<sup>7</sup>Includes \$2,773 thousand shipped by industry 3941, Games and Toys. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3522, Farm Machinery and Equipment; and 3751, Motorcycles, Bicycles, and Parts.

<sup>8</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 25116, Infants' and children's wood furniture; 37510, Bicycles, motorcycles, motorbikes, scooters and parts; 37992, Other transportation equipment; and 39492, Other sporting and athletic goods.

<sup>9</sup>Includes \$2,440 thousand shipped by industry 3141, Shoes, Except Rubber. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 3079, Plastics Products, N.E.C.; 3161, Luggage; 3534, Elevators and Moving Stairways; 3941, Games and Toys; and 3943, Children's Vehicles.

<sup>10</sup>Includes the following product classes which totaled \$2 million or more but are withheld to avoid disclosing individual company figures: 23292, Men's, youths' and boy's outerwear, n.e.c. (made from woven or purchased knit fabrics); 30115, Tread rubber, tire sundries, and repair materials; 35225, Harvesting machinery; and 37291, Other aircraft parts and auxiliary equipment.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product  | Total shipments including interplant transfers |                    |   |                    |
|--------------|--|--|--------------------|---|--------------------|
|              |  | 1963   |                    | 1958  |                    |
|              |  | Quantity<br>(number)                           | Value<br>(\$1,000) | Quantity<br>(number)                              | Value<br>(\$1,000) |
| 3931- --     | MUSICAL INSTRUMENTS AND PARTS, TOTAL.....  | (X)  | 319,363            | (X)   | 242,144            |
| 39311 --     | Pianos, total.....   | (X)  | 87,705             | (X)   | 63,674             |
| 39311 11     | Verticals, uprights, or consoles, 37 inches or less in height.....   | 115,489  | 38,605             | 83,940  | 29,915             |
| 39311 15     | Verticals, uprights, or consoles, over 37 inches in height.....  | 92,819   | 40,296             | 71,769  | 28,963             |
| 39311 51     | Grand pianos.....  | 5,487  | 8,804              | 3,210   | 4,796              |
| 39312 --     | Organs, total.....   | (X)  | 107,292            | (X)   | 79,375             |
| 39312 11     | Pipe and reed.....   | (NA)   | 13,683             | (NA)  | 14,125             |
| 39312 51     | Electronic.....  | 141,874  | 93,609             | 88,559  | 65,250             |
| 39313 --     | Piano and organ parts, total.....  | (X)  | 42,284             | (X)   | 51,145             |
| 39313 11     | Piano parts and materials (actions, attachments, strings, tuning pins, etc.), except benches.....  | (X)  | 33,594             | (X)   | 23,244             |
| 39313 51     | Organ parts and materials, except benches.....   | (X)  | 8,690              | (X)   | 27,901             |
| 39314 --     | Other musical instruments and parts, total.....  | (X)  | 77,669             | (X)   | 47,950             |
|              | Wind instruments, except organs and accordians:  |  |                    |   |                    |
| 39314 13     | Wood winds.....  | 177,735  | 13,033             | } 261,485   | 19,812             |
| 39314 15     | Brass winds.....   | 198,058  | 17,386             |   |                    |
| 39314 21     | Fretted and string instruments (nonelectronic), except pianos and harps (such as guitars, violins, etc.).....                                    | (NA)   | 11,685             | (X)   | ( <sup>1</sup> )   |
| 39314 31     | Accessories and parts, sold separately, such as reed mouthpieces, music stands, drummers traps, etc., except instrument cases and benches.....   | (X)  | 10,516             | (X)   | 6,282              |
| 39314 51     | Electronic musical instruments, other than electronic organs.....  | (X)  | 9,689              | } (X)   | 118,756            |
| 39314 98     | Other nonelectronic musical instruments, including harps, accordians, and percussion instruments, such as drums, vibes, etc.....                 | (NA)   | 11,195             |   |                    |
| 39314 00     | Other musical instruments and parts, n.s.k.....  | (X)  | 4,165              | (X)   | 3,100              |
| 39310 00     | Musical instruments and parts, n.s.k.....  | (X)  | 4,413              | (X)   | -                  |
|              | Product  |  |                    | Value of shipments interplant transfers (\$1,000) |                    |
|              |  |  |                    | 1963  | 1958               |
| 3941- --     | GAMES AND TOYS, EXCEPT DOLLS AND CHILDREN'S VEHICLES, TOTAL.....   |  |                    | 763,917   | 522,031            |
| 39410 11     | Doll carriages and doll carts.....   |  |                    | } 210,104   | } 28,063           |
| 39410 23     | Toy trains and equipment (mechanical and electric) made to scale at the ratio of larger than 1 to 85 (S, O gages, etc.).....                     |  |                    |   |                    |
| 39410 25     | Other trains and equipment (HO gage, etc.).....  |  |                    | } 12,713  | } 25,926           |
| 39410 31     | Mechanical toys, except trains (propelled by springs or electricity, gear driven) including miniature engines for toy aircraft or toy boats..... |  |                    |   |                    |
| 39410 41     | Structural toy sets.....   |  |                    | 62,681  | 33,754             |
| 39410 51     | Model construction sets (airplanes, ships, trains, etc.).....  |  |                    | 6,731   | 6,197              |
| 39410 61     | Metal toys, other than those listed above.....   |  |                    | 42,642  | 18,809             |
| 39410 71     | Wooden toys, other than those listed above.....  |  |                    | 81,245  | 72,448             |
|              | Plastic toys, other than those listed above:   |  |                    |   |                    |
| 39410 83     | Molded, extruded or vacuum formed.....   |  |                    | 46,043  | 38,582             |
| 39410 85     | Vinyl heat sealed.....   |  |                    | 194,458   | 114,537            |
| 39410 95     | Other toys, not listed above.....  |  |                    | 16,644  |                    |
| 39410 97     | Games, complete (include chess, checkers, etc.).....   |  |                    | 121,970   | 124,883            |
| 39410 91     | Parts for toys and games.....  |  |                    | 100,573   |                    |
| 39410 00     | Games and toys, except dolls and children's vehicles, n.s.k.....   |  |                    | 12,264  | 5,252              |
|              |  |  |                    | 51,495  | 73,580             |
|              | Product  | Total shipments including interplant transfers |                    |   |                    |
|              |  | 1963   |                    | 1958  |                    |
|              |  | Quantity<br>(1,000 units)                      | Value<br>(\$1,000) | Quantity<br>(1,000 units)                         | Value<br>(\$1,000) |
| 3942- --     | DOLLS AND STUFFED TOY ANIMALS, TOTAL.....  | (X)  | 190,403            | (X)   | 161,893            |
|              | Dolls:   |  |                    |   |                    |
| 39420 06     | Dolls, complete, made of rubber, plastic or similar materials (except stuffed dolls):  |  |                    | } 332,166   | } 362,139          |
| 39420 07     | Regular size, 12-1/2" and over.....  | 25,710   | 63,361             |   |                    |
| 39420 08     | Miniature, 12" and under.....  | 13,471   | 19,232             |   |                    |
|              | Stuffed dolls.....   | 6,578  | 13,822             |   |                    |

See footnotes at end of table.





TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                 |          |                      |
|--------------|---|-----------------|--|-----------------|----------|----------------------|
|              |   |                 | 1963   |                 | 1958     |                      |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000)      |
| 39492 --     | Other sporting and athletic goods—Continued   |                 |  |                 |          |                      |
| 39492 94     | Tennis, badminton, and related equipment, including tennis balls, rackets, and frames, shuttle cocks, squash equipment, and other supplies.....   | .....           | (X)  | 9,663           | (X)      | (8)                  |
| 39492 91     | Archery equipment.....  | .....           | (X)  | 12,441          | (X)      | (8)                  |
| 39492 98     | Other sporting and athletic goods, including boxing gloves, table tennis goods, water skiing equipment (except skis) wading pools, etc., but excluding athletic clothing and shoes..... | .....           | (X)  | 70,525          | (X)      | <sup>8</sup> 115,062 |
| 39492 00     | Other sporting and athletic goods, n.s.k.....   | .....           | (X)  | 14,951          | (X)      | -                    |
| 39490 00     | Sporting and athletic goods, n.s.k.....   | .....           | (X)  | 33,228          | (X)      | 45,399               |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.s.k. Not specified by kind.

<sup>1</sup>1958 data for fretted and string instruments are included with data for "Other musical instruments," code 3931498.

<sup>2</sup>2,538 thousand units were shipped in 1963 and 2,397 thousand in 1958.

<sup>3</sup>The quantity figure relates to a value of \$53,874 thousand. In addition, \$8,265 thousand were reported without quantity.

<sup>4</sup>The quantity figure relates to a value of \$33,650 thousand. In addition, \$5,906 thousand were reported without quantity.

<sup>5</sup>In 1958, data for children's pedal driven automobiles and tractors (product code 3943033) were included with other children's vehicles (product code 3943098).

<sup>6</sup>In 1958, product code 3949225 was combined with product code 3949229, "Other bowling alley playing supplies," to avoid disclosing figures for individual companies.

<sup>7</sup>Some products, e.g., pin setters, are not sold but are leased. The values reported for such products represents the valuation placed on them for tax, insurance, and similar purposes.

<sup>8</sup>In 1958, data for product codes 3949249, 88, 86, 92, 87, 93, 94, and 91 are included with "Other sporting and athletic goods," product code 3949298.

TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year                                 | Indexes (1954 = 100) |            |
|--------------|--|----------------------|------------|
|              |  | Production           | Unit value |
| 393          | Musical instruments and parts <sup>1</sup> ..... | 1963..               | 99         |
|              |  | 1958..               | 102        |
| 3931         | Musical instruments and parts <sup>1</sup> ..... | 1963..               | 99         |
|              |  | 1958..               | 102        |
| 39311        | Pianos.....                                      | 1963..               | 116        |
|              |  | 1958..               | 115        |
| 39312        | Organs.....                                      | 1963..               | 73         |
|              |  | 1958..               | 81         |
| 39314        | Other musical instruments and parts.....         | 1963..               | 105        |
|              |  | 1958..               | 98         |
| 3942         | Dolls.....                                       | 1963..               | 119        |
|              |  | 1958..               | 109        |
| 3943         | Children's vehicles.....                         | 1963..               | 110        |
|              |  | 1958..               | 114        |
| 3949         | Sporting and athletic goods.....                 | 1963..               | 110        |
|              |  | 1958..               | 109        |
| 39491        | Fishing tackle and equipment.....                | 1963..               | 103        |
|              |  | 1958..               | 105        |
| 39492        | Other sporting and athletic goods.....           | 1963..               | 112        |
|              |  | 1958..               | 110        |

<sup>1</sup>Adjusted to include piano and organ parts (product class 39313).

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments, 1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class  | 1963    | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958    | 1954    | 1947    |
|-------|--|---------|-------------------|-------------------|-------------------|-------------------|---------|---------|---------|
| 3931- | Musical instruments and parts.....                           | 319,363 | 310,664           | 294,976           | 288,905           | 309,186           | 242,144 | 168,633 | 120,674 |
| 39311 | Pianos.....  | 87,705  | 91,732            | 84,726            | 81,579            | 80,825            | 63,674  | 56,695  | 51,621  |
| 39312 | Organs.....  | 107,292 | 92,805            | 92,541            | (89,647)          | 112,463           | 79,375  | 37,454  | 14,453  |
| 39313 | Piano and organ parts.....                                   | 42,284  | 62,362            | 59,891            | 58,821            | 63,833            | 51,145  | 38,123  | 22,947  |
| 39314 | Other musical instruments and parts.....                     | 77,669  | 63,765            | 57,818            | 58,858            | 52,065            | 47,950  | 36,361  | 31,653  |
| 39310 | Musical instruments and parts, n.s.k.....                    | 4,413   | -                 | -                 | -                 | -                 | -       | -       | -       |
| 39410 | Games and toys, except dolls and children's vehicles.....    | 763,917 | 693,943           | 664,366           | 568,460           | 555,382           | 522,031 | 400,378 | 185,928 |
| 39420 | Dolls and stuffed toy animals.....                           | 190,403 | 218,220           | 214,152           | 198,335           | 179,475           | 161,893 | 131,932 | 63,199  |
| 39430 | Baby carriages and children's vehicles, except bicycles..... | 82,656  | 70,040            | 70,898            | 78,132            | 82,569            | 72,914  | 64,547  | 86,458  |
| 3949- | Sporting and athletic goods, n.e.c.....                      | 655,542 | 655,594           | 742,747           | 661,870           | 577,085           | 519,920 | 302,674 | 209,970 |
| 39491 | Fishing tackle and equipment.....                            | 96,870  | 78,184            | 78,373            | 74,306            | 76,228            | 75,759  | 67,449  | 57,778  |
| 39492 | Other sporting and athletic goods.....                       | 525,444 | 557,410           | 626,155           | 553,231           | 456,054           | 398,762 | 219,180 | 138,532 |
| 39490 | Sporting and athletic goods, n.s.k.....                      | 33,228  | (20,000)          | (38,219)          | (34,333)          | (44,803)          | 45,399  | 16,045  | 13,660  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area           | Value of shipments |                  | Product class and geographic area                              | Value of shipments |                  | Product class and geographic area              | Value of shipments |                  |
|---|--------------------|------------------|--|--------------------|------------------|--|--------------------|------------------|
|   | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |  | 1963 <sup>1</sup>  | 1958             |
| ORGANS (39312)                              |                    |                  |  |                    |                  | FISHING TACKLE AND EQUIPMENT (39491)—Continued |                    |                  |
| United States, total.....                   | 107,292            | 79,375           | BABY CARRIAGES AND CHILDREN'S VEHICLES EXCEPT BICYCLES (39430) |                    |                  | Pacific.....                                   | 9,848              | 4,857            |
| New England.....                            | 2,672              | 3,581            | United States, total....                                       | 82,656             | 72,914           | Washington.....                                | 1,959              | (Z)              |
| Middle Atlantic.....                        | 10,082             | 11,946           | New England.....   | 5,979              | 8,843            | California.....                                | 7,095              | 3,911            |
| North Central.....                          | 68,227             | 55,525           | Middle Atlantic.....   | 13,264             | 8,736            | OTHER SPORTING AND ATHLETIC GOODS (39492)      |                    |                  |
| Ohio.....                                   | 2,072              | ( <sup>2</sup> ) | New York.....  | 9,167              | 6,749            | United States, total....                       | 525,444            | 398,762          |
| Illinois.....                               | 56,875             | 38,959           | East North Central.....  | 30,947             | 33,226           | New England.....                               | 75,743             | 57,278           |
| South and West.....                         | 26,311             | 8,323            | Ohio.....  | 6,055              | 8,482            | Maine.....                                     | 2,270              | 2,153            |
| OTHER MUSICAL INSTRUMENTS AND PARTS (39314) | 1963 <sup>1</sup>  |                  | Illinois.....  | 15,821             | ( <sup>2</sup> ) | Massachusetts.....                             | 51,558             | 38,773           |
| United States, total.....                   |                    | 77,669           | West North Central.....  | 4,473              | 4,456            | Connecticut.....                               | 12,242             | 9,745            |
| New England.....                            |                    | 2,340            | South.....   | 21,976             | ( <sup>2</sup> ) | Middle Atlantic.....                           | 84,646             | 101,174          |
| Massachusetts.....                          |                    | 1,989            | West.....  | 6,017              | ( <sup>2</sup> ) | New York.....                                  | 45,535             | 70,574           |
| Middle Atlantic.....                        |                    | 11,182           | FISHING TACKLE AND EQUIPMENT (39491)                           |                    |                  | New Jersey.....                                | 13,458             | 8,104            |
| New York.....                               |                    | 5,470            | United States, total....                                       | 96,870             | 75,759           | Pennsylvania.....                              | 25,653             | 22,496           |
| North Central.....                          |                    | 55,587           | New England.....   | 2,825              | 1,881            | East North Central.....                        | 203,379            | 148,245          |
| Ohio.....                                   |                    | 5,235            | Connecticut.....   | 1,185              | (Z)              | Ohio.....                                      | 46,613             | 54,439           |
| Indiana.....                                |                    | 18,904           | Middle Atlantic.....   | 15,469             | 13,916           | Indiana.....                                   | 8,689              | 3,637            |
| Illinois.....                               |                    | 18,744           | New York.....  | 9,187              | 8,277            | Illinois.....                                  | 56,184             | 47,287           |
| Wisconsin.....                              |                    | 7,828            | New Jersey.....  | 1,255              | (Z)              | Michigan.....                                  | 81,074             | 36,359           |
| South and West.....                         |                    | 8,560            | Pennsylvania.....  | 5,027              | ( <sup>2</sup> ) | Wisconsin.....                                 | 10,819             | 6,523            |
| California.....                             |                    | 7,149            | East North Central.....  | 30,482             | 31,568           | West North Central.....                        | 39,417             | 25,061           |
| DOLLS, AND STUFFED TOY ANIMALS (39420)      |                    |                  | Ohio.....  | 5,373              | 6,270            | Minnesota.....                                 | 13,454             | 3,947            |
| United States, total.....                   |                    | 190,403          | Indiana.....   | 2,161              | 1,169            | Iowa.....                                      | 7,832              | 4,090            |
| New England.....                            |                    | 8,617            | Illinois.....  | 2,018              | 2,100            | Missouri.....                                  | 16,366             | 16,181           |
| Massachusetts.....                          |                    | 5,698            | Michigan.....  | 15,995             | 17,617           | South Atlantic.....                            | 34,446             | 16,732           |
| Connecticut.....                            |                    | 1,843            | Wisconsin.....   | 4,935              | 4,412            | Georgia.....                                   | 6,294              | ( <sup>2</sup> ) |
| Middle Atlantic.....                        |                    | 142,359          | West North Central.....  | 8,120              | 6,583            | Florida.....                                   | 1,984              | (Z)              |
| New York.....                               |                    | 122,766          | Minnesota.....   | 3,492              | 3,024            | East South Central.....                        | 28,401             | 22,346           |
| New Jersey.....                             |                    | 14,766           | South.....   | 24,618             | ( <sup>2</sup> ) | Tennessee.....                                 | 12,851             | ( <sup>2</sup> ) |
| Pennsylvania.....                           |                    | 4,827            | Florida.....   | 3,986              | 1,794            | Alabama.....                                   | 4,348              | 5,777            |
| North Central.....                          |                    | 3,330            | Texas.....   | 1,868              | (Z)              | West South Central.....                        | 17,949             | 8,965            |
| South.....                                  |                    | 11,311           | Mountain.....  | 5,508              | 6,102            | Arkansas.....                                  | 6,456              | ( <sup>2</sup> ) |
| Georgia.....                                |                    | 4,042            |  |                    |                  | Texas.....                                     | 7,455              | ( <sup>2</sup> ) |
| Pacific.....                                |                    | 24,786           |  |                    |                  | Mountain.....                                  | 1,207              | (Z)              |
|   |                    |                  |  |                    |                  | Pacific.....                                   | 40,256             | (Z)              |
|   |                    |                  |  |                    |                  | Oregon.....                                    | 2,010              | (Z)              |
|   |                    |                  |  |                    |                  | California.....                                | 37,158             | 17,012           |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$1 million reported.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 39312, Connecticut, New York, New Jersey, Pennsylvania, Indiana, Maryland, Mississippi, Arkansas, and California; 39314, New Jersey, Pennsylvania, and Michigan; 39430, Massachusetts, New Jersey, Pennsylvania, Indiana, Michigan, Wisconsin, Missouri, Tennessee, Alabama, Mississippi, and California; 39420, South Carolina and California; 39491, Iowa, Virginia, South Carolina, Oklahoma, Idaho, and Colorado; 39492, New Hampshire, Rhode Island, Maryland, Virginia, South Carolina, Kentucky, Mississippi, Louisiana, and Washington.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

TABLE 7A. Materials by Kind: 1963

| Code   | Material  | Unit of measure  | 1963  |                             |
|--|---|------------------|---|-----------------------------|
|  |   |                  | Quantity                                      | Delivered cost<br>(\$1,000) |
|  |   |                  | INDUSTRY 3941.—GAMES<br>AND TOYS              |                             |
| Materials, components, parts, containers, and supplies, total..... |   |                  | (X)   | 325,133                     |
| Mill shapes and forms:   |   |                  |   |                             |
| 331001   | Carbon steel.....   | Short tons.....  | 52,957  | 12,716                      |
| 331020   | Alloy steel.....  | ..do.....        | (NA)  | 3,286                       |
| 331031   | Stainless steel.....  | ..do.....        |   |                             |
| 335208   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....   | 312   | 199                         |
| 335003   | Copper and copper-base alloy.....   | ..do.....        | 597   | 431                         |
| 282130   | Thermoplastic resins.....   | ..do.....        | 184,293                                       | 36,521                      |
| 282140   | Thermosetting resins.....   | ..do.....        | 13,118  | 2,727                       |
| 220123   | Broadwoven fabrics (cotton, wool, man-made fiber fabrics, etc.).....                | 1,000 lin. yds.. | 2,509   | 1,240                       |
| 311100   | Leather, finished.....  | 1,000 lbs.....   | 3,423   | 864                         |
| 265011   | Paperboard containers and boxes.....  | .....            | (X)   | 38,769                      |
| 362115   | Fractional horsepower electric motors (under 1 hp. ) (excluding timing motors)..... | 1,000.....       | 7,397   | 2,573                       |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....   | .....            | -   | 183,550                     |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....               | .....            | (X)   | 42,257                      |
|  |   |                  | INDUSTRY 3942.—DOLLS                          |                             |
| Materials, components, parts, containers, and supplies, total..... |   |                  | (X)   | 79,382                      |
| Mill shapes and forms:   |   |                  |   |                             |
| 331001   | Carbon steel.....   | Short tons.....  | 1,537   | 394                         |
| 331020   | Alloy steel.....  | ..do.....        |   |                             |
| 331031   | Stainless steel.....  | ..do.....        | -   | -                           |
| 335208   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....   | (D)   | (D)                         |
| 335003   | Copper and copper-base alloy.....   | ..do.....        | (D)   | (D)                         |
| 282130   | Thermoplastic resins.....   | 1,000 lbs.....   | 15,644  | 4,945                       |
| 282140   | Thermosetting resins.....   | ..do.....        | (D)   | (D)                         |
| 220123   | Broadwoven fabrics (cotton, wool, man-made fiber fabrics, etc.).....                | 1,000 lin. yds.. | 11,506  | 8,180                       |
| 265011   | Paperboard containers and boxes.....  | .....            | (X)   | 6,387                       |
| 362115   | Fractional horsepower electric motors (under 1 hp.) (excluding timing motors).....  | 1,000.....       | (D)   | (D)                         |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....   | .....            | (X)   | 35,244                      |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....               | .....            | (X)   | 24,232                      |
|  |   |                  | INDUSTRY 3943.—CHILDREN'S VEHICLES            |                             |
| Materials, components, parts, containers, and supplies, total..... |   |                  | (X)   | 38,987                      |
| Mill shapes and forms:   |   |                  |   |                             |
| 331001   | Carbon steel.....   | Short tons.....  | 38,090  | 7,667                       |
| 331020   | Alloy steel.....  | ..do.....        |   |                             |
| 331031   | Stainless steel.....  | ..do.....        |   |                             |
| 335208   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....   | (D)   | (D)                         |
| 282130   | Thermoplastic resins.....   | ..do.....        | (D)   | (D)                         |
| 220123   | Broadwoven fabrics (cotton, wool, man-made fiber fabrics, etc.).....                | 1,000 lin. yds.. | 1,328   | 755                         |
| 331100   | Leather, finished.....  | 1,000 lbs.....   | (D)   | (D)                         |
| 265001   | Paperboard containers and boxes.....  | .....            | (X)   | 1,606                       |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....   | .....            | (X)   | 19,901                      |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....               | .....            | (X)   | 9,058                       |
|  |   |                  | INDUSTRY 3949.—SPORTING<br>AND ATHLETIC GOODS |                             |
| Materials, components, parts, containers, and supplies, total..... |   |                  | (X)   | 293,360                     |
| Mill shapes and forms:   |   |                  |   |                             |
| 331001   | Carbon steel.....   | Short tons.....  | 78,125  | 15,683                      |
| 331020   | Alloy steel.....  | ..do.....        | 5,507   | 4,347                       |
| 331031   | Stainless steel.....  | ..do.....        | 1,528   | 1,901                       |
| 335208   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....   | 9,357   | 5,048                       |
| 335003   | Copper and copper-base alloy.....   | ..do.....        | 2,433   | 1,955                       |

See footnotes at end of table.



TABLE 7A. **Materials by Kind: 1963**—Continued

| Code   | Material   | Unit of measure  | 1963  |                             |
|--|--|------------------|---|-----------------------------|
|  |  |                  | Quantity  | Delivered cost<br>(\$1,000) |
| Materials, components, parts, containers, and supplies—Continued |  |                  | INDUSTRY 3949.—SPORTING AND<br>ATHLETIC GOODS—Continued |                             |
| 282130   | Thermoplastic resins.....  | 1,000 lbs.....   | 11,511  | 14,557                      |
| 282140   | Thermosetting resins.....  | ...do.....       | 6,441   | 12,276                      |
| 220123   | Broadwoven fabrics (cotton, wool, man-made fiber fabrics, etc.).....               | 1,000 lin. yds.. | 17,519  | 9,006                       |
| 311100   | Leather, finished.....   | 1,000 lbs.....   | 8,159   | 14,276                      |
| 265011   | Paperboard containers and boxes.....   | .....            | (X)   | 9,002                       |
| 362115   | Fractional horsepower electric motors (under 1 hp.) (excluding timing motors)..... | 1,000.....       | 69  | 2,088                       |
| 970099   | All other materials and components, parts, containers, and supplies consumed.....  | .....            | (X)   | 175,645                     |
| 976000   | Materials, parts, containers, and supplies, n.s.k. <sup>2</sup> .....              | .....            | (X)   | 47,576                      |

Note: No comparable data for materials consumed was collected in 1958.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

n.s.k Not specified by kind.

<sup>1</sup>Estimates for 1958 for selected materials were published in MC58(1)-7 (Supplement), "Selected Materials Consumed," from data collected in a supplemental survey on Form MA-131, "Consumption of Materials, Parts, Containers and Supplies During 1958." This survey was limited to large establishments in selected chemical, machinery and equipment industries and resulted in estimates which are subject to greater error than are the figures on materials consumption collected as a regular part of the census of manufactures. Estimates for these industries are as follows:

| Industry | Materials                           | Delivered cost<br>(million dollars) |
|----------|-------------------------------------|-------------------------------------|
| 3941     | Iron and steel shapes and forms.... | 17                                  |
|          | Plastics and resins materials.....  | 27                                  |
|          | Paperboard containers and boxes.... | 34                                  |
| 3949     | Plastics and resins materials.....  | 8                                   |

<sup>2</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Musical instruments and parts (SIC 3931) | Games and toys (SIC 3941) | Dolls (SIC 3942) | Children's vehicles (SIC 3943) | Sporting and athletic goods (SIC 3949) |
|---|--|---------------------------|------------------|--------------------------------|--|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 2,050                                    | 5,881                     | 1,333            | 746                            | 6,711                                  |
| Total cost of purchased fuels.....do....  | 787                                      | 1,991                     | 443              | 397                            | 2,904                                  |
| Bituminous coal, lignite, and anthracite:   |  |                           |                  |                                |  |
| Quantity.....1,000 short tons..   | 23                                       | 7                         | (S)              | (S)                            | 27                                     |
| Cost.....\$1,000..  | 191                                      | 63                        | (S)              | (S)                            | 250                                    |
| Coke and breeze:  |  |                           |                  |                                |  |
| Quantity.....1,000 short tons..   | (S)                                      | -                         | -                | -                              | -                                      |
| Cost.....\$1,000..  | (S)                                      | -                         | -                | -                              | -                                      |
| Fuel oil (distillate and residual):   |  |                           |                  |                                |  |
| Quantity.....1,000 barrels of 42 gallons..  | 62                                       | 194                       | 29               | (S)                            | 283                                    |
| Cost.....\$1,000..  | 235                                      | 692                       | 113              | (S)                            | 1,266                                  |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |  |                           |                  |                                |  |
| Quantity.....million cu.ft..  | 437                                      | 1,093                     | (S)              | 358                            | 1,364                                  |
| Cost.....\$1,000..  | 254                                      | 717                       | (S)              | 223                            | 916                                    |
| Other fuels.....do....  | (S)                                      | 519                       | 229              | 58                             | 472                                    |
| Electric energy:  |  |                           |                  |                                |  |
| Purchased:  |  |                           |                  |                                |  |
| Quantity.....million kw.-hrs..  | 70                                       | 247                       | 47               | 20                             | 275                                    |
| Cost.....\$1,000..  | 1,263                                    | 3,890                     | 890              | 349                            | 3,807                                  |
| Generated less sold.....million kw.-hrs..   | (S)                                      | -                         | -                | -                              | (S)                                    |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 50                                       | 131                       | 22               | 16                             | 141                                    |
| Prime movers, total.....do....  | 3  | 4                         | -                | 3                              | 10                                     |
| Driving generators.....do....   | 1  | 1                         | -                | 2                              | 2                                      |
| Not driving generators.....do....   | 2  | 3                         | -                | 1                              | 8                                      |
| Electric motors, total.....do....   | 47                                       | 128                       | 23               | 13                             | 132                                    |
| Driven by purchased energy.....do....   | 47                                       | 128                       | 22               | 13                             | 131                                    |
| Driven by energy generated at establishment.....do....  | (Z)                                      | -                         | -                | -                              | 2                                      |
| Aggregate horsepower per 100 production workers.....  | 271                                      | 334                       | 130              | 430                            | 479                                    |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.



**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization                     | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3931-                          | MUSICAL INSTRUMENTS AND PARTS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 320                     | 20,095         | 103,029           | 16,664             | 33,600            | 76,471          | 179,035  | 143,136                     | 314,407                      | 5,779                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.....  | 301                     | 18,522         | 94,282            | 15,284             | 30,824            | 69,440          | 164,665  | 135,450                     | 293,194                      | 5,597                               |
|                                | 75-89% specialization.....   | 4                       | 541            | 3,264             | 468                | 933               | 2,631           | 4,851  | 2,337                       | 7,138                        | 64                                  |
| 39311                          | Pianos (primary product class of estab.).....                              | 23                      | 5,435          | 27,459            | 4,608              | 9,035             | 21,494          | 42,253   | 52,332                      | 93,602                       | 1,551                               |
| 39312                          | Organs (primary product class of estab.).....                              | 32                      | 5,713          | 28,021            | 4,462              | 8,973             | 18,408          | 58,908   | 41,404                      | 96,626                       | 1,396                               |
| 39313                          | Pianos and organ parts (primary product class of estab.).....              | 32                      | 2,694          | 12,565            | 2,340              | 4,814             | 9,705           | 20,516   | 12,680                      | 32,484                       | 661                                 |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 27                      | 2,387          | 10,976            | 2,067              | 4,280             | 8,414           | 17,763   | 10,778                      | 27,887                       | 636                                 |
| 39314                          | Other musical instruments and parts (primary product class of estab.)..... | 172                     | 5,998          | 34,023            | 5,043              | 10,356            | 26,100          | 55,514   | 35,236                      | 88,396                       | 2,052                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 162                     | 4,749          | 26,964            | 3,949              | 8,143             | 20,437          | 44,952   | 29,703                      | 72,783                       | 1,948                               |
| 3943-                          | CHILDREN'S VEHICLES  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 64                      | 4,542          | 19,436            | 3,796              | 7,595             | 14,275          | 35,304   | 41,609                      | 77,507                       | 1,858                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.....  | 41                      | 920            | 3,850             | 784                | 1,621             | 2,821           | 4,949  | 6,936                       | 12,543                       | 399                                 |
|                                | 75-89% specialization.....   | 12                      | 2,029          | 9,776             | 1,671              | 3,222             | 7,250           | 18,924   | 19,124                      | 37,621                       | 960                                 |
| 3949-                          | SPORTING AND ATHLETIC GOODS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....   | 1,419                   | 40,543         | 175,777           | 32,514             | 62,703            | 123,306         | 360,980  | 345,968                     | 704,718                      | 15,289                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.....  | 1,317                   | 32,046         | 138,465           | 25,990             | 49,920            | 99,027          | 292,250  | 289,795                     | 576,917                      | 11,202                              |
|                                | 75-89% specialization.....   | 24                      | 2,615          | 10,262            | 2,019              | 3,829             | 6,507           | 13,928   | 12,266                      | 30,861                       | 497                                 |
| 39491                          | Fishing tackle and equipment (primary product class of estab.)             | 380                     | 8,527          | 33,118            | 6,899              | 13,479            | 22,260          | 65,910   | 49,397                      | 114,447                      | 2,804                               |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 342                     | 6,641          | 25,733            | 5,423              | 10,527            | 17,613          | 50,991   | 40,458                      | 90,761                       | 1,896                               |
|                                | 75-89% specialization.....   | 10                      | 570            | 2,139             | 471                | 924               | 1,516           | 4,590  | 2,618                       | 6,946                        | 199                                 |
| 39492                          | Other sporting and athletic goods (primary product class of estab.)        | 604                     | 29,365         | 134,110           | 23,377             | 44,895            | 94,170          | 278,366  | 280,189                     | 556,406                      | 11,422                              |
|                                | Establishments with--  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization...  | 524                     | 22,465         | 102,785           | 18,129             | 34,642            | 73,889          | 222,157  | 229,621                     | 446,502                      | 8,141                               |
|                                | 75-89% specialization.....   | 32                      | 2,078          | 8,356             | 1,626              | 3,049             | 5,286           | 9,482  | 11,472                      | 25,822                       | 201                                 |





## OFFICE SUPPLIES, COSTUME JEWELRY, AND MISCELLANEOUS NOTIONS

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3951—Pens, Pen Points, Fountain Pens, Ball Point Pens, Mechanical Pencils and Parts
- 3952—Lead Pencils, Crayons, and Artists' Materials
- 3953—Marking Devices
- 3955—Carbon Paper and Inked Ribbons
- 3961—Costume Jewelry and Costume Novelties, Except Precious Metal
- 3962—Feathers, Plumes, and Artificial Flowers
- 3963—Buttons
- 3964—Needles, Pins, Hooks and Eyes, and Similar Notions

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3951—PENS, PEN POINTS, FOUNTAIN PENS, BALL POINT PENS, MECHANICAL PENCILS AND PARTS

This industry comprises establishments primarily engaged in manufacturing pens, pen points, fountain pens, ball point pens, refill cartridges, and parts for pens and mechanical pencils. For a detailed list of products of industry 3951, refer to table 6A, product codes 3951001 to 3951071.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Pens and Mechanical Pencils Industry totaled \$185 million. This amount included shipments of pens and mechanical pencils (primary products) valued at \$165 million, shipments of other products (secondary products) valued at \$18 million, and miscellaneous receipts (mainly products bought and resold) at \$3 million.

This industry's shipments of pens and mechanical pencils represented 90 percent of its total product shipments. The industry specialization ratio in 1958 was 93 percent. Secondary products shipped by this industry in 1963 include artists' materials (\$2 million).

Shipments of pens and mechanical pencils by this industry represented 93 percent of all shipments of these products (\$178 million) by all industries. In 1958 the coverage ratio was also 93 percent. Other industries shipping pens and mechanical pencils include industry 3952, Lead Pencils and Art Goods, \$6 million.

The production index for the primary products of the industry increased to 216 in 1963 from the 1958 level of 141. The unit value index for 1963 was 63 compared to 83 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3952—LEAD PENCILS, CRAYONS, AND ARTISTS' MATERIALS

This industry comprises establishments primarily engaged in manufacturing lead pencils, pencil leads, and crayons; materials and equipment for art work such as airbrushes, drawing tables and boards, palettes, sketchboxes, pantographs, artists' colors and waxes, pyrography goods, drawing inks, and drafting materials. Establishments primarily engaged in manufacturing mechanical pencils are classified in industry 3951, and drafting instruments in industry 3811. For a detailed list of products of industry 3952, refer to table 6A, product codes 3952111 to 3952211.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Lead Pencils and Art Goods Industry totaled \$122 million. This amount included shipments of lead pencils and art goods (primary products) valued at \$97 million, shipments of other products (secondary products) valued at \$14 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$11 million.

This industry's shipments of lead pencils and art goods represented 87 percent of its total product shipments. The industry specialization ratio in 1958 was 88 percent. Secondary products shipped by this industry in 1963 include pens and mechanical pencils (\$6 million).

Shipments of lead pencils and art goods by this industry represented 90 percent of all shipments of these products (\$108 million) by all industries. In 1958 the coverage ratio was 92 percent. Other industries shipping lead pencils and art goods include industry 3951, Pens and Mechanical Pencils, \$2 million.

#### 3953—MARKING DEVICES

This industry comprises establishments primarily engaged in manufacturing rubber and metal hand stamps, dies, and seals; steel letters and figures; and stencils for use in painting or marking. For a detailed list of products of industry 3953, refer to table 6A, product codes 3953011 to 3953098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.



Value of shipments and other receipts of the Marking Devices Industry totaled \$127 million. This amount included shipments of marking devices (primary products) valued at \$96 million, shipments of other products (secondary products) valued at \$19 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$12 million.

This industry's shipments of marking devices represented 84 percent of its total product shipments. The industry specialization ratio in 1958 was 96 percent.

Shipments of marking devices by this industry represented 90 percent of all shipments of these products (\$107 million) by all industries. In 1958 the coverage ratio was 86 percent.

#### 3955—CARBON PAPER AND INKED RIBBONS

This industry comprises establishments primarily engaged in manufacturing carbon paper for business machines, sales books, etc.; spirit or gelatin process and other stencil paper; and inked ribbons for business machines. For a detailed list of products of industry 3955, refer to table 6A, product codes 3955011 to 3955098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Carbon Paper and Inked Ribbons Industry totaled \$156 million. This amount included shipments of carbon paper and inked ribbons (primary products) valued at \$133 million, shipments of other products (secondary products) valued at \$7 million, and miscellaneous receipts (mainly products bought and resold) at \$15 million.

This industry's shipments of carbon paper and inked ribbons represented 95 percent of its total product shipments. The industry specialization ratio in 1958 was 91 percent.

Shipments of carbon paper and inked ribbons by this industry represented 83 percent of all shipments of these products (\$161 million) by all industries. In 1958 the coverage ratio was 89 percent. Other industries shipping carbon paper and inked ribbons include industry 3579, Office Machines, N.E.C., \$14 million.

The production index for the primary products of the industry increased to 160 in 1963 from the 1958 level of 130. The unit value index for 1963 was 110 compared to 100 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3961—COSTUME JEWELRY AND COSTUME NOVELTIES, EXCEPT PRECIOUS METAL

This industry comprises establishments primarily engaged in manufacturing costume jewelry, costume novelties, and ornaments made of all materials, except precious metal, precious or semiprecious stones, and rolled gold plate and gold filled materials (industry 3911). For a detailed list of products of industry 3961, refer to table 6A, product codes 3961011 to 3961098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Costume Jewelry Industry totaled \$280 million. This amount included shipments of costume jewelry (primary products) valued at \$243 million, shipments of other products (secondary products) valued at \$13 million, and miscellaneous receipts (mainly products bought and resold) at \$25 million.

This industry's shipments of costume jewelry represented 95 percent of its total product shipments. The industry specialization ratio in 1958 was also 95 percent. Secondary products shipped by this industry in 1963 include jewelry made of precious metals, except platinum and carat gold (\$5 million).

Shipments of costume jewelry by this industry represented 95 percent of all shipments of these products (\$257 million) by all industries. In 1958 the coverage ratio was 96 percent. Other industries shipping costume jewelry include industry 3911, Jewelry, Precious Metal, \$11 million.

#### 3962--FEATHERS, PLUMES, AND ARTIFICIAL FLOWERS

This industry comprises establishments primarily engaged in manufacturing artificial flowers, fruits, and foliage made from all materials, except glass (industry 3231); in producing fancy feathers, plumes, and articles made principally of feathers and plumes; and curling, dyeing, and renovating ostrich feathers for the trade. For a detailed list of products of industry 3962, refer to table 6A, product code 3962011.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Artificial Flowers Industry totaled \$60 million. This amount included shipments of artificial flowers (primary products) valued at \$53 million, shipments of other products (secondary products) valued at \$2 million, and miscellaneous receipts (mainly products bought and resold) at \$6 million.

This industry's shipments of artificial flowers represented 97 percent of its total product shipments. The industry specialization ratio in 1958 was 98 percent.

Shipments of artificial flowers by this industry represented 87 percent of all shipments of these products (\$59 million) by all industries. In 1958 the coverage ratio was 98 percent.

#### 3963--BUTTONS

This industry comprises establishments primarily engaged in manufacturing buttons, button parts, and button blanks and molds, of all materials except precious metal and precious or semiprecious stones (industry 3911). For a detailed list of products of industry 3963, refer to table 6A, product codes 3963011 to 3963098.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Buttons Industry totaled \$82 million. This amount included shipments of buttons (primary products) valued at \$71 million, shipments of other products (secondary products) valued at \$3 million, and miscellaneous receipts (mainly products bought and resold) at \$7 million.

This industry's shipments of buttons represented 96 percent of its total product shipments. The industry specialization ratio in 1958 was 98 percent. Secondary products shipped by this industry in 1963 include needles, pins, fasteners (except slide), and similar notions (\$2 million).

Shipments of buttons by this industry represented 87 percent of all shipments of these products (\$82 million) by all industries. In 1958 the coverage ratio was 88 percent. Other industries shipping buttons include industry 3079, Plastics Products, N.E.C., \$4 million; and industry 3964, Needles, Pins, and Fasteners, \$2 million.



### 3964—NEEDLES, PINS, HOOKS AND EYES, AND SIMILAR NOTIONS

This industry comprises establishments primarily engaged in manufacturing notions, such as machine and hand needles, pins, hooks and eyes, eyelets, buckles, and slide and snap fasteners. For a detailed list of products of industry 3964, refer to table 6A, product codes 3964111 to 3964289.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Needles, Pins, and Fasteners Industry totaled \$337 million. This amount included shipments of needles, pins, and fasteners (primary products) valued at \$290 million, shipments of other products (secondary products) valued at \$29 million, and miscellaneous receipts (mainly products bought and resold) at \$18 million.

This industry's shipments of needles, pins, and fasteners represented 91 percent of its total product shipments. The industry specialization ratio in 1958 was 93 percent. Secondary products shipped by this industry in 1963 include hardware n.e.c. (\$7 million), and buttons (\$2 million).

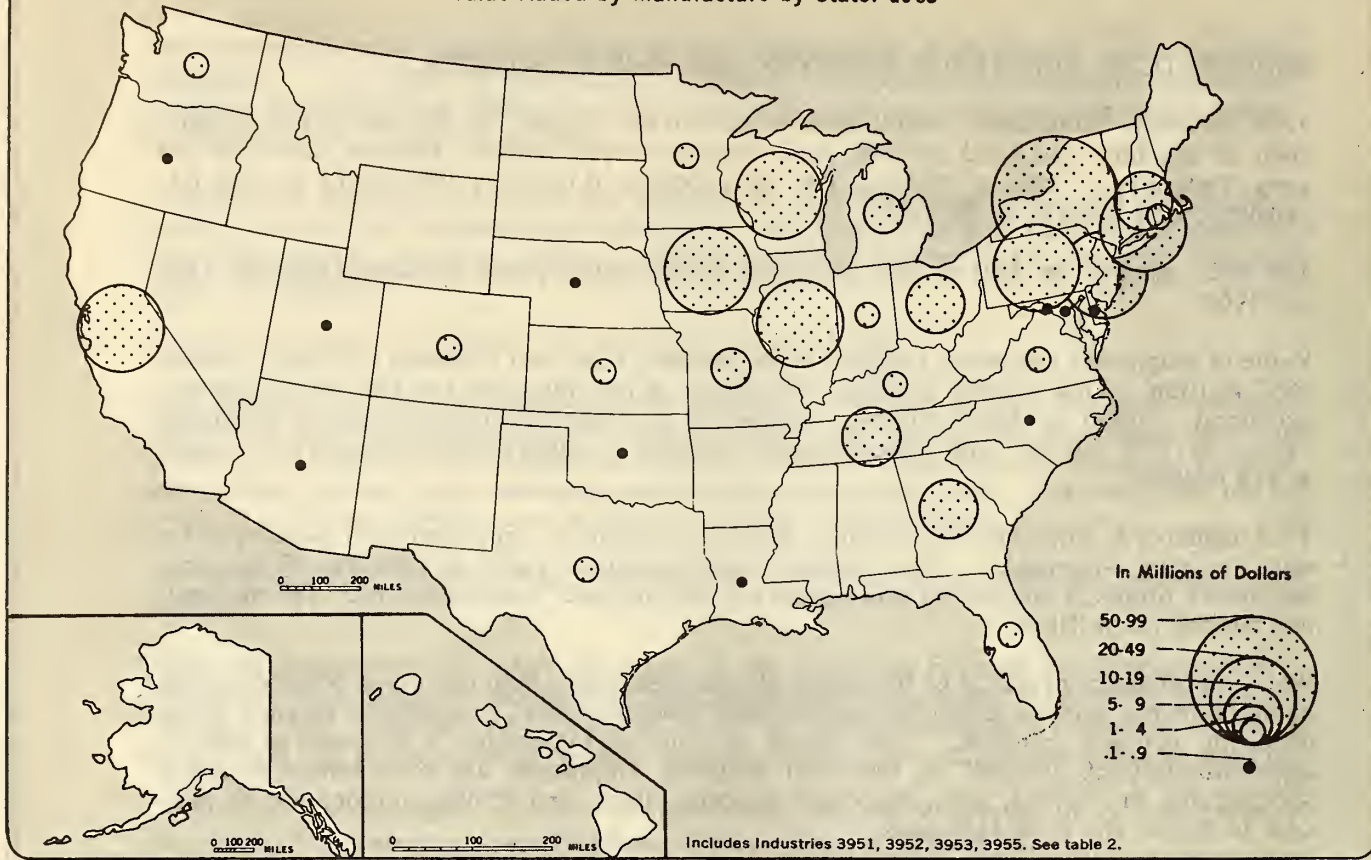
While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 50 percent of the total industry shipments are represented by plants specializing in needles, pins, fasteners (except slide); and similar notions and 45 percent in zipper and slide fasteners.

Shipments of needles, pins, and fasteners by this industry represented 92 percent of all shipments of these products (\$315 million) by all industries. In 1958 the coverage ratio was 89 percent. Other industries shipping needles, pins, and fasteners include industry 3963, Buttons, \$2 million.

The coverage ratio for individual product classes varies significantly from that for the 4-digit industry for the following product classes of industry 3964, e.g., zipper and slide fasteners, 99 percent; needles, pins, fasteners (except slide), and similar notions, 85 percent.

The production index for the primary products of the industry increased to 168 in 1963 from the 1958 level of 128. The unit value index for 1963 was 105 compared to 98 in 1958. Both indexes were computed on a basis of 1954 = 100.

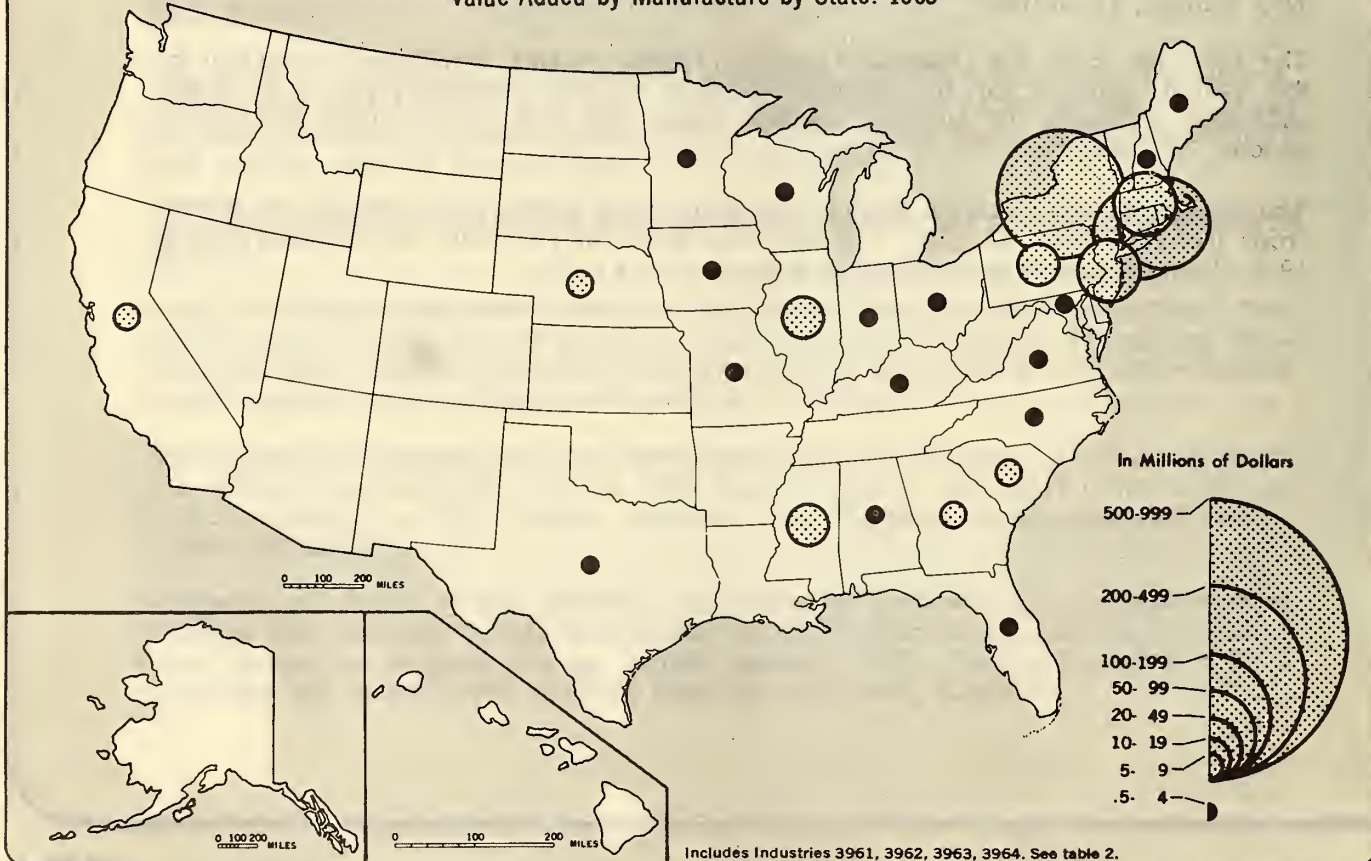
**PENS, PENCILS AND OFFICE SUPPLIES: SIC 395**  
 Value Added by Manufacture by State: 1963



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

**COSTUME JEWELRY AND NOTIONS: SIC 396**  
 Value Added by Manufacture by State: 1963



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS



TABLE 1. General Statistics: 1963 and Earlier Years

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3951.—PENS AND MECHANICAL PENCILS    |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 122                        | 139               | 67   | 11,562            | 54,968               | 9,065              | 17,937               | 33,944             | 119,069  | 66,615                            | 185,464                            | 4,068   | 90  | 93                                       |
| 1962 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,509            | 48,629               | 8,083              | 15,721               | 29,035             | 109,846  | 70,208                            | 180,906                            | (6,144)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,174            | 44,434               | 7,782              | 15,222               | 27,082             | 96,692   | 70,020                            | 169,642                            | (5,529)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 11,060            | 46,082               | 8,722              | 17,386               | 29,016             | 94,841   | 62,001                            | 158,516                            | 3,841   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,868            | 44,154               | 8,554              | 16,699               | 27,627             | 92,894   | 60,079                            | 152,813                            | 2,911   | (NA)  | (NA)                                     |
| 1958.....                                     | 141                        | 147               | 66   | 11,179            | 45,856               | 8,519              | 16,234               | 27,869             | 90,197   | 58,012                            | 150,279                            | 3,829   | 93  | 93                                       |
| 1954.....                                     | 138                        | 140               | 61   | 10,879            | 44,123               | 8,089              | 16,428               | 25,191             | 84,121   | 45,855                            | 129,975                            | 3,054   | 89  | 95                                       |
| 1952 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 11,128            | 39,351               | 8,163              | 15,368               | 24,019             | 77,282   | 43,588                            | 120,870                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 11,160            | 37,691               | 8,647              | 16,588               | 23,776             | 80,937   | 46,775                            | 127,712                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 10,845            | 33,529               | 8,244              | 16,015               | 22,391             | 77,137   | 41,078                            | 118,215                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 11,563            | 32,327               | 9,094              | 17,815               | 20,438             | 63,923   | 39,162                            | 103,085                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                     | 180                        | 184               | 80   | 15,553            | 40,606               | 12,527             | 24,705               | 28,207             | 89,897   | 57,471                            | 147,368                            | 3,865   | 93  | 95                                       |
| 1939.....                                     | (NA)                       | 70                | (NA)   | 6,323             | 7,860                | 4,463              | (NA)                 | 4,329              | 16,181   | 8,700                             | 24,881                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> .....                       | (NA)                       | 55                | (NA)   | (NA)              | (NA)                 | 5,703              | (NA)                 | 5,356              | 16,732   | 9,238                             | 25,970                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3952.—LEAD PENCILS AND ART GOODS     |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 140                        | 144               | 57   | 6,868             | 31,944               | 5,020              | 9,831                | 18,394             | 64,731   | 56,807                            | 121,630                            | 1,594   | 87  | 90                                       |
| 1962 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 5,963             | 26,470               | 4,544              | 9,483                | 16,146             | 57,200   | 52,378                            | 107,582                            | 1,797   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 6,274             | 25,971               | 4,778              | 9,623                | 15,971             | 54,226   | 48,806                            | 102,842                            | 1,302   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 6,387             | 26,627               | 4,824              | 9,814                | 15,716             | 54,440   | 54,614                            | 108,845                            | 1,734   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 7,102             | 27,331               | 5,199              | 10,089               | 15,812             | 53,899   | 53,460                            | 107,000                            | (1,044)   | (NA)  | (NA)                                     |
| 1958 <sup>3</sup> .....                       | 138                        | 146               | 54   | 6,687             | 26,183               | 4,711              | 9,366                | 14,746             | 47,909   | 49,098                            | 98,494                             | 2,049   | 88  | 92                                       |
| 1954.....                                     | (NA)                       | 155               | 53   | 6,942             | 23,720               | 5,261              | 10,650               | 14,835             | 42,277   | 42,379                            | 84,189                             | 2,163   | (NA)  | (NA)                                     |
| 1947.....                                     | (NA)                       | 110               | 45   | 7,639             | 17,946               | 6,187              | 12,732               | 12,353             | 29,601   | 28,734                            | 58,335                             | 1,370   | (NA)  | (NA)                                     |
| 1939.....                                     | (NA)                       | 82                | (NA)   | 5,591             | 6,939                | 4,176              | (NA)                 | 3,898              | 10,631   | 9,299                             | 19,930                             | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>2</sup> .....                       | (NA)                       | 73                | (NA)   | (NA)              | (NA)                 | 4,788              | (NA)                 | 4,615              | 11,776   | 9,295                             | 21,071                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3953.—MARKING DEVICES                |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 581                        | 616               | 90   | 7,625             | 41,367               | 5,257              | 10,657               | 24,950             | 85,572   | 41,670                            | 126,845                            | 2,204   | 84  | 90                                       |
| 1962 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 6,847             | 34,635               | 4,548              | 9,430                | 20,451             | 58,765   | 31,680                            | 89,929                             | (2,331)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 6,031             | 29,635               | 4,144              | 8,581                | 18,067             | 49,615   | 24,587                            | 73,920                             | 1,521   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 5,801             | 30,200               | 3,962              | 8,225                | 18,491             | 49,440   | 25,185                            | 74,400                             | (1,264)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 5,703             | 28,934               | 3,953              | 7,930                | 18,142             | 48,504   | 23,381                            | 71,961                             | (1,292)   | (NA)  | (NA)                                     |
| 1958.....                                     | 497                        | 525               | 70   | 5,447             | 24,775               | 3,875              | 7,357                | 15,603             | 39,940   | 20,016                            | 59,923                             | 1,360   | 96  | 86                                       |
| 1957 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 5,458             | 22,031               | 3,579              | 7,193                | 12,948             | 37,602   | 16,697                            | 53,817                             | 868   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 5,854             | 24,381               | 4,221              | 8,421                | 15,296             | 42,776   | 20,263                            | 58,940                             | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 5,760             | 22,523               | 4,121              | 8,365                | 14,173             | 37,331   | 16,987                            | 51,649                             | (S)   | (NA)  | (NA)                                     |
| 1954.....                                     | 444                        | 453               | 68   | 5,654             | 21,857               | 4,056              | 8,123                | 13,764             | 34,763   | 19,258                            | 54,289                             | 1,060   | 90  | 89                                       |
| 1952 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 4,466             | 18,216               | 3,141              | 6,855                | 11,836             | 21,424   | 9,837                             | 31,261                             | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 4,179             | 16,623               | 2,943              | 6,233                | 10,534             | 21,617   | 10,175                            | 31,792                             | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                     | 415                        | 425               | 62   | 4,556             | 12,483               | 3,362              | 7,406                | 8,426              | 19,486   | 7,973                             | 27,459                             | 924   | 89  | 89                                       |
| 1939.....                                     | (NA)                       | 289               | (NA)   | 3,333             | 4,697                | 2,211              | (NA)                 | 2,615              | 7,607  | 3,205                             | 10,812                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                     | (NA)                       | 266               | (NA)   | 3,284             | 4,793                | 2,375              | (NA)                 | 2,929              | 7,339  | 3,047                             | 10,386                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                     | (NA)                       | 277               | (NA)   | 3,118             | 4,145                | 2,255              | (NA)                 | 2,532              | 6,588  | 2,750                             | 9,338                              | (NA)  | (NA)  | (NA)                                     |
| 1933.....                                     | (NA)                       | 256               | (NA)   | 2,866             | 2,990                | 2,196              | (NA)                 | 2,062              | 5,782  | 1,855                             | 7,637                              | (NA)  | (NA)  | (NA)                                     |
| 1931.....                                     | (NA)                       | 288               | (NA)   | (NA)              | (NA)                 | 2,496              | (NA)                 | 3,371              | 7,650  | 2,395                             | 10,045                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....                                     | (NA)                       | 332               | (NA)   | 3,901             | 6,428                | 2,971              | (NA)                 | 4,081              | 11,225   | 3,811                             | 15,036                             | (NA)  | (NA)  | (NA)                                     |
| 1927.....                                     | (NA)                       | 293               | (NA)   | 3,743             | 6,240                | 2,668              | (NA)                 | 3,842              | 10,422   | 3,734                             | 14,156                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....                                     | (NA)                       | 323               | (NA)   | 4,077             | 6,624                | 2,930              | (NA)                 | 4,015              | 11,251   | 4,070                             | 15,321                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....                                     | (NA)                       | 255               | (NA)   | 3,214             | 4,865                | 2,312              | (NA)                 | 3,035              | 8,028  | 3,103                             | 11,131                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....                                     | (NA)                       | 234               | (NA)   | 2,786             | 4,186                | 2,068              | (NA)                 | 2,657              | 6,293  | 2,786                             | 9,079                              | (NA)  | (NA)  | (NA)                                     |
| 1919.....                                     | (NA)                       | 382               | (NA)   | 2,964             | 3,666                | 2,136              | (NA)                 | 2,261              | 6,188  | 3,149                             | 9,337                              | (NA)  | (NA)  | (NA)                                     |
| 1914.....                                     | (NA)                       | 384               | (NA)   | 2,338             | 1,734                | 1,767              | (NA)                 | 1,149              | 3,059  | 1,426                             | 4,485                              | (NA)  | (NA)  | (NA)                                     |
| 1909.....                                     | (NA)                       | 361               | (NA)   | 2,164             | 1,384                | 1,651              | (NA)                 | 952                | 2,546  | 1,127                             | 3,673                              | (NA)  | (NA)  | (NA)                                     |
| 1904.....                                     | (NA)                       | 327               | (NA)   | 1,786             | 1,021                | 1,506              | (NA)                 | 797                | 2,074  | 737                               | 2,811                              | (NA)  | (NA)  | (NA)                                     |
| 1899.....                                     | (NA)                       | 360               | (NA)   | 1,641             | 837                  | 1,470              | (NA)                 | 696                | 1,948  | 663                               | 2,611                              | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3955.—CARBON PAPER AND INKED RIBBONS |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                     | 91                         | 102               | 52   | 5,539             | 31,480               | 3,819              | 7,671                | 17,628             | 68,353   | 86,954                            | 155,513                            | 2,277   | 95  | 83                                       |
| 1962 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 6,468             | 34,545               | 4,414              | 8,823                | 18,660             | 73,060   | 93,994                            | 165,899                            | (4,245)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 6,423             | 32,762               | 4,269              | 8,238                | 17,261             | 70,441   | 89,015                            | 158,236                            | 2,152   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 6,529             | 33,282               | 4,376              | 8,354                | 17,045             | 69,307   | 79,944                            | 148,003                            | 1,924   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                       | (NA)                       | (NA)              | (NA)   | 6,141             | 30,150               | 4,055              | 8,144                | 15,962             | 63,846   | 71,591                            | 136,379                            | 1,681   | (NA)  | (NA)                                     |
| 1958.....                                     | 97                         | 103               | 61   | 5,818             | 27,614               | 3,922              | 7,854                | 15,098             | 58,951   | 68,017                            | 126,013                            | 2,654   | 91  | 89                                       |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3955.—CARBON PAPER AND INKED RIBBONS—Continued |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1957 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 5,576             | 24,943               | 3,791              | 7,232                | 13,361             | 52,696   | 55,506                            | 105,645                            | 1,986   | 94  | 86                                       |
| 1956 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 5,334             | 24,002               | 3,596              | 7,161                | 12,399             | 48,639   | 50,707                            | 98,716                             | 1,851   | (NA)  | (NA)                                     |
| 1954.....   | 80                         | 84                | 43   | 4,742             | 19,344               | 3,255              | 6,671                | 10,757             | 39,749   | 46,137                            | 85,666                             | 1,120   | 93  | 83                                       |
| 1950 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 4,037             | 11,907               | 2,995              | 5,361                | 7,023              | 30,098   | 27,402                            | 57,500                             | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 3,735             | 11,570               | 2,806              | 5,641                | 7,212              | 28,818   | 25,652                            | 54,470                             | (NA)  | (NA)  | (NA)                                     |
| 1947.....   | 63                         | 67                | 34   | 3,681             | 10,622               | 2,558              | 5,677                | 6,264              | 23,615   | 25,021                            | 48,636                             | 940   | 90  | 90                                       |
| 1939.....   | (NA)                       | 58                | (NA)   | 3,014             | 4,970                | 1,741              | (NA)                 | 2,132              | 10,620   | 10,157                            | 20,777                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....   | (NA)                       | 50                | (NA)   | 2,119             | 3,361                | 1,627              | (NA)                 | 1,991              | 8,682  | 9,178                             | 17,860                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....   | (NA)                       | 56                | (NA)   | 1,954             | 3,011                | 1,425              | (NA)                 | 1,629              | 7,193  | 7,502                             | 14,695                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....   | (NA)                       | 47                | (NA)   | 1,608             | 1,988                | 1,171              | (NA)                 | 1,243              | 6,068  | 5,157                             | 11,225                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....   | (NA)                       | 54                | (NA)   | (NA)              | (NA)                 | 1,198              | (NA)                 | 1,463              | 7,442  | 6,034                             | 13,476                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....   | (NA)                       | 57                | (NA)   | 1,760             | 3,233                | 1,251              | (NA)                 | 1,702              | 9,304  | 7,991                             | 17,295                             | (NA)  | (NA)  | (NA)                                     |
| 1927 <sup>2</sup> .....                                 | (NA)                       | 49                | (NA)   | 1,499             | 2,628                | 1,078              | (NA)                 | 1,514              | 7,773  | 6,020                             | 13,793                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3961.—COSTUME JEWELRY                          |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....   | 910                        | 912               | 204  | 21,655            | 85,268               | 18,225             | 34,535               | 59,760             | 150,999  | 132,422                           | 280,478                            | 3,825   | 95  | 95                                       |
| 1962 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 22,340            | 81,142               | 18,519             | 34,672               | 52,644             | 136,204  | 119,316                           | 253,167                            | 1,408   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 21,904            | 79,682               | 18,190             | 34,733               | 51,519             | 132,198  | 124,102                           | 253,183                            | 1,541   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 22,089            | 78,453               | 18,672             | 35,552               | 52,330             | 132,400  | 115,892                           | 245,708                            | (2,213)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 24,285            | 80,681               | 20,733             | 38,227               | 55,761             | 134,224  | 111,837                           | 245,146                            | (3,132)   | (NA)  | (NA)                                     |
| 1958.....   | 1,046                      | 1,051             | 255  | 25,286            | 83,201               | 21,297             | 39,994               | 58,347             | 138,043  | 116,037                           | 253,809                            | 5,788   | 95  | 96                                       |
| 1957 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 24,292            | 76,770               | 21,041             | 39,304               | 54,693             | 115,009  | 97,125                            | 209,368                            | (S)   | 93  | 94                                       |
| 1956 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 27,635            | 83,830               | 23,756             | 44,290               | 60,103             | 130,148  | 118,120                           | 246,458                            | (S)   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 29,418            | 85,004               | 25,439             | 47,875               | 60,613             | 127,585  | 116,420                           | 239,374                            | (S)   | (NA)  | (NA)                                     |
| 1954.....   | 1,123                      | 1,127             | 283  | 27,744            | 79,017               | 24,269             | 46,679               | 58,445             | 131,791  | 117,625                           | 249,560                            | 3,621   | 95  | 95                                       |
| 1950 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 26,752            | 70,847               | 23,235             | 44,834               | 53,831             | 120,617  | 79,747                            | 200,364                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....   | 855                        | 859               | 212  | 25,371            | 59,487               | 22,266             | 46,532               | 45,979             | 107,224  | 63,070                            | 170,294                            | 3,146   | 90  | 91                                       |
| 1939 <sup>2</sup> .....                                 | (NA)                       | 299               | (NA)   | (NA)              | (NA)                 | 12,228             | (NA)                 | 10,118             | 23,439   | 15,322                            | 38,761                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3962.—ARTIFICIAL FLOWERS                       |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....   | 367                        | 384               | 70   | 4,958             | 16,338               | 4,266              | 7,609                | 12,113             | 29,194   | 30,639                            | 60,418                             | 736   | 97  | 87                                       |
| 1962 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 5,231             | 15,637               | 4,407              | 7,878                | 10,609             | 28,178   | 31,638                            | 59,830                             | (4)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 5,890             | 16,909               | 5,176              | 9,532                | 12,033             | 28,954   | 34,365                            | 63,514                             | (4)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 6,622             | 19,597               | 5,834              | 10,480               | 13,935             | 32,028   | 33,333                            | 65,323                             | (600)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 6,959             | 19,733               | 5,969              | 10,987               | 14,400             | 34,726   | 33,253                            | 67,395                             | (446)   | (NA)  | (NA)                                     |
| 1958.....   | 428                        | 431               | 101  | 6,770             | 19,021               | 5,932              | 11,038               | 14,377             | 34,650   | 30,465                            | 64,969                             | 886   | 98  | 98                                       |
| 1954.....   | 466                        | 471               | 103  | 7,306             | 17,299               | 6,690              | 12,009               | 13,446             | 29,924   | 23,293                            | 52,968                             | (4)   | 97  | 98                                       |
| 1947.....   | 443                        | 445               | 91   | 7,130             | 13,448               | 6,569              | 12,348               | 10,713             | 23,813   | 15,650                            | 39,463                             | 515   | 97  | 99                                       |
| 1939.....   | (NA)                       | 314               | (NA)   | 7,723             | 6,522                | 6,650              | (NA)                 | 4,582              | 11,080   | 7,424                             | 18,504                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....   | (NA)                       | 250               | (NA)   | 6,780             | 5,511                | 6,216              | (NA)                 | 4,330              | 9,329  | 7,369                             | 16,698                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....   | (NA)                       | 171               | (NA)   | 2,915             | 2,138                | 2,660              | (NA)                 | 1,832              | 4,572  | 2,708                             | 7,280                              | (NA)  | (NA)  | (NA)                                     |
| 1929.....   | (NA)                       | 230               | (NA)   | 3,960             | 4,912                | 3,473              | (NA)                 | 3,527              | 9,653  | 5,914                             | 15,567                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....   | (NA)                       | 336               | (NA)   | 6,639             | 7,373                | 5,947              | (NA)                 | 5,966              | 12,927   | 10,148                            | 23,075                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....   | (NA)                       | 440               | (NA)   | 8,627             | 9,022                | 7,642              | (NA)                 | 7,147              | 17,822   | 13,699                            | 31,521                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....   | (NA)                       | 456               | (NA)   | 10,358            | 5,274                | 9,291              | (NA)                 | 3,979              | 9,756  | 9,309                             | 19,065                             | (NA)  | (NA)  | (NA)                                     |
| 1909.....   | (NA)                       | 412               | (NA)   | 11,063            | 5,134                | 10,016             | (NA)                 | 3,974              | 10,354   | 13,627                            | 23,981                             | (NA)  | (NA)  | (NA)                                     |
| 1899.....   | (NA)                       | 224               | (NA)   | 5,616             | 1,853                | 5,331              | (NA)                 | 1,561              | 3,530  | 2,763                             | 6,293                              | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3963.—BUTTONS                                  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....   | 282                        | 290               | 69   | 5,599             | 23,024               | 4,728              | 9,133                | 16,520             | 43,751   | 37,930                            | 81,835                             | 1,040   | 96  | 87                                       |
| 1962 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 5,401             | 20,523               | 4,672              | 9,495                | 15,809             | 38,456   | 33,534                            | 73,867                             | 1,824   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 5,644             | 20,081               | 4,868              | 9,842                | 15,111             | 37,511   | 32,097                            | 71,558                             | 686   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 5,621             | 20,418               | 4,807              | 9,559                | 15,311             | 37,529   | 31,650                            | 70,813                             | 825   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 6,438             | 21,082               | 5,532              | 10,483               | 16,093             | 41,478   | 32,690                            | 74,526                             | (1,694)   | (NA)  | (NA)                                     |
| 1958.....   | 347                        | 356               | 87   | 6,462             | 21,526               | 5,504              | 10,425               | 15,817             | 37,967   | 30,618                            | 68,609                             | 1,414   | 98  | 88                                       |
| 1957 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 7,037             | 20,993               | 6,237              | 11,404               | 16,147             | 37,063   | 23,357                            | 59,104                             | (S)   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 8,586             | 25,382               | 7,574              | 13,994               | 19,392             | 40,407   | 25,052                            | 65,309                             | (S)   | (NA)  | (NA)                                     |
| 1954.....   | 395                        | 409               | 109  | 8,471             | 23,235               | 7,430              | 14,123               | 17,483             | 38,219   | 31,078                            | 69,117                             | 1,139   | 92  | 89                                       |
| 1947.....   | 412                        | 454               | 122  | 10,564            | 22,077               | 9,556              | 19,055               | 17,745             | 34,695   | 24,838                            | 59,533                             | 1,131   | 93  | 94                                       |
| 1939.....   | (NA)                       | 316               | (NA)   | 12,418            | 11,764               | 10,972             | (NA)                 | 8,623              | 17,344   | 12,473                            | 29,817                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....   | (NA)                       | 291               | (NA)   | 13,081            | 11,574               | 12,026             | (NA)                 | 9,256              | 17,713   | 13,578                            | 31,291                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....   | (NA)                       | 200               | (NA)   | 10,454            | 7,661                | 9,888              | (NA)                 | 6,706              | 13,798   | 8,614                             | 22,412                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....   | (NA)                       | 242               | (NA)   | 9,928             | 11,256               | 9,034              | (NA)                 | 8,814              | 17,477   | 11,501                            | 28,978                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....   | (NA)                       | 346               | (NA)   | 10,794            | 10,824               | 9,686              | (NA)                 | 8,511              | 16,128   | 10,406                            | 26,534                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....   | (NA)                       | 557               | (NA)   | 17,183            | 17,122               | 15,577             | (NA)                 | 13,773             | 25,095   | 16,745                            | 41,840                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....   | (NA)                       | 517               | (NA)   | 15,760            | 8,075                | 14,511             | (NA)                 | 6,424              | 12,010   | 8,702                             | 20,712                             | (NA)  | (NA)  | (NA)                                     |
| 1909.....   | (NA)                       | 444               | (NA)   | 17,485            | 8,088                | 16,427             | (NA)                 | 6,789              | 13,167   | 9,541                             | 22,708                             | (NA)  | (NA)  | (NA)                                     |
| 1899.....   | (NA)                       | 238               | (NA)   | 9,024             | 3,123                | 8,685              | (NA)                 | 2,826              | 4,893  | 2,803                             | 7,696                              | (NA)  | (NA)  | (NA)                                     |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3964.—NEEDLES, PINS, AND FASTENERS |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 314                        | 343               | 149  | 20,271            | 89,431               | 16,675             | 32,642               | 64,125             | 190,868  | 146,067                           | 337,285                            | 7,428   | 91  | 92                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 20,701            | 86,979               | 17,101             | 31,858               | 62,809             | 188,004  | 135,699                           | 319,005                            | 7,227   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 18,445            | 78,177               | 15,038             | 28,564               | 54,985             | 161,047  | 122,058                           | 283,533                            | (6,119)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 18,298            | 75,890               | 14,827             | 28,163               | 53,132             | 154,211  | 105,092                           | 255,052                            | 7,233   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 18,677            | 76,081               | 15,159             | 29,105               | 52,871             | 147,037  | 106,751                           | 251,511                            | (4,456)   | (NA)  | (NA)                                     |
| 1958.....                                   | 340                        | 367               | 128  | 17,756            | 69,873               | 14,251             | 26,723               | 47,957             | 127,664  | 93,645                            | 220,517                            | 4,276   | 93  | 89                                       |
| 1957 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 20,207            | 82,096               | 16,263             | 31,349               | 57,300             | 137,590  | 104,471                           | 243,436                            | 6,935   | 82  | 93                                       |
| 1956 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 22,357            | 87,738               | 18,065             | 35,530               | 62,571             | 140,729  | 112,398                           | 253,726                            | 6,146   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 23,645            | 87,368               | 19,606             | 38,895               | 63,545             | 139,601  | 103,264                           | 239,118                            | 5,506   | (NA)  | (NA)                                     |
| 1954.....                                   | 349                        | 357               | 130  | 23,152            | 80,846               | 18,893             | 35,935               | 56,674             | 118,378  | 84,194                            | 206,602                            | 4,981   | 82  | 91                                       |
| 1953 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 26,468            | 90,251               | 22,056             | 43,365               | 66,716             | 124,284  | 95,320                            | 219,604                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 17,817            | 57,541               | 15,084             | 28,241               | 41,927             | 90,842   | 48,439                            | 139,281                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 20,320            | 63,768               | 17,456             | 33,281               | 48,453             | 104,339  | 64,579                            | 168,918                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 22,220            | 68,753               | 18,647             | 38,102               | 51,700             | 123,545  | 66,005                            | 189,550                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                   | 273                        | 277               | 115  | 22,959            | 58,791               | 19,341             | 39,309               | 44,328             | 97,292   | 49,929                            | 147,221                            | 5,578   | 91  | 89                                       |
| 1939.....                                   | (NA)                       | 79                | (NA)   | (NA)              | (NA)                 | 11,139             | (NA)                 | 12,428             | 27,267   | 14,609                            | 41,876                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                   | (NA)                       | 52                | (NA)   | 11,211            | 13,665               | 9,580              | (NA)                 | 10,154             | 25,949   | 10,291                            | 36,240                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                   | (NA)                       | 50                | (NA)   | 11,294            | 12,474               | 10,104             | (NA)                 | 9,494              | 23,447   | 9,383                             | 32,830                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....                                   | (NA)                       | 45                | (NA)   | 7,044             | 7,132                | 6,412              | (NA)                 | 5,768              | 16,940   | 5,818                             | 22,758                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....                                   | (NA)                       | 46                | (NA)   | (NA)              | (NA)                 | 5,354              | (NA)                 | 5,667              | 15,500   | 4,842                             | 20,342                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....                                   | (NA)                       | 43                | (NA)   | 7,014             | 8,587                | 6,242              | (NA)                 | 6,566              | 15,843   | 6,188                             | 22,031                             | (NA)  | (NA)  | (NA)                                     |
| 1927.....                                   | (NA)                       | 45                | (NA)   | 6,328             | 7,964                | 5,606              | (NA)                 | 6,098              | 14,402   | 5,923                             | 20,325                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....                                   | (NA)                       | 48                | (NA)   | 6,463             | 7,357                | 5,850              | (NA)                 | 5,856              | 12,248   | 5,926                             | 18,174                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....                                   | (NA)                       | 49                | (NA)   | 7,660             | 8,720                | 6,834              | (NA)                 | 6,703              | 14,351   | 7,796                             | 22,147                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....                                   | (NA)                       | 68                | (NA)   | 7,358             | 7,350                | 6,542              | (NA)                 | 5,542              | 12,733   | 6,163                             | 18,896                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....                                   | (NA)                       | 92                | (NA)   | 10,350            | 11,316               | 9,294              | (NA)                 | 8,810              | 19,078   | 10,227                            | 29,305                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....                                   | (NA)                       | 49                | (NA)   | 5,730             | 3,105                | 5,339              | (NA)                 | 2,507              | 4,649  | 3,242                             | 7,891                              | (NA)  | (NA)  | (NA)                                     |
| 1909.....                                   | (NA)                       | 49                | (NA)   | 4,951             | 2,458                | 4,638              | (NA)                 | 2,064              | 4,365  | 2,329                             | 6,694                              | (NA)  | (NA)  | (NA)                                     |
| 1904.....                                   | (NA)                       | 46                | (NA)   | 4,065             | 1,849                | 3,965              | (NA)                 | 1,596              | 3,167  | 1,584                             | 4,751                              | (NA)  | (NA)  | (NA)                                     |
| 1899.....                                   | (NA)                       | 52                | (NA)   | 2,761             | 1,215                | 2,653              | (NA)                 | 1,067              | 2,010  | 1,228                             | 3,238                              | (NA)  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>No comparable figures are available for earlier years.

<sup>3</sup>The 1957 Standard Industrial Classification combined in this industry two industries which were separate in the 1945 Standard Industrial Classification. These were: 3952, Lead Pencils and industry 3954, Artists' Materials. The data for 1954 and earlier years for these two industries have been combined.

<sup>4</sup>Less than \$500 thousand.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>                  | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3951.—PENS AND MECHANICAL PENCILS    |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 139            | 67                                 | 11,562         | 54,968            | 9,065              | 17,937            | 33,944          | 119,069                              | 66,615            | 185,464            | 4,068                     | 11,179           | 90,197                               |
| New England.....                              | 7              | 5                                  | 669            | 3,154             | 534                | 1,059             | 1,956           | 15,477                               | 3,327             | 18,798             | 53                        | 644              | 3,270                                |
| Middle Atlantic....                           | 86             | 37                                 | 3,922          | 14,653            | 3,276              | 6,420             | 10,602          | 25,728                               | 28,596            | 54,574             | 1,387                     | 3,948            | 23,455                               |
| New York.....                                 | 66             | 27                                 | 2,294          | 7,374             | 2,065              | 3,878             | 5,663           | 12,821                               | 18,237            | 31,070             | 697                       | 2,282            | 10,891                               |
| East North Central.                           | 11             | 6                                  | 1,945          | 12,861            | 1,230              | 2,361             | 6,477           | 27,475                               | 10,585            | 38,705             | 932                       | 2,102            | 20,781                               |
| West North Central.                           | 9              | 5                                  | 2,213          | 11,069            | 1,671              | 3,306             | 6,448           | 20,910                               | 6,853             | 27,775             | 332                       | 1,721            | 16,657                               |
| South.....                                    | 9              | 6                                  | 1,647          | 7,099             | 1,376              | 2,809             | 4,411           | 15,917                               | 7,029             | 22,525             | 397                       | 1,730            | 13,888                               |
| West.....                                     | 17             | 8                                  | 1,166          | 6,132             | 978                | 1,982             | 4,050           | 13,562                               | 10,225            | 23,087             | 967                       | 1,034            | 12,146                               |
| INDUSTRY 3952.—LEAD PENCILS AND ART GOODS     |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 144            | 57                                 | 6,868          | 31,944            | 5,020              | 9,831             | 18,394          | 64,731                               | 56,807            | 121,630            | 1,594                     | 6,687            | 47,909                               |
| New England.....                              | 10             | 4                                  | 588            | 3,727             | 369                | 724               | 1,699           | 8,199                                | 6,083             | 14,523             | 365                       | 902              | 5,968                                |
| Middle Atlantic....                           | 69             | 27                                 | 3,366          | 15,425            | 2,459              | 4,764             | 9,354           | 31,486                               | 27,273            | 58,729             | 851                       | 2,569            | 18,093                               |
| New York.....                                 | 41             | 15                                 | 1,239          | 5,663             | 932                | 1,812             | 3,352           | 11,295                               | 11,676            | 22,807             | 255                       | 632              | 4,398                                |
| New Jersey.....                               | 18             | 7                                  | 890            | 3,804             | 596                | 1,149             | 2,282           | 7,223                                | 6,377             | 13,567             | 762                       | 762              | 4,173                                |
| Pennsylvania....                              | 10             | 5                                  | 1,237          | 5,958             | 931                | 1,803             | 3,720           | 12,968                               | 9,220             | 22,355             | 419                       | 1,175            | 9,522                                |
| North Central and South.....                  | 48             | 22                                 | 2,745          | 11,890            | 2,064              | 4,096             | 6,759           | 23,205                               | 22,452            | 45,544             | 342                       | 3,039            | 21,704                               |
| Ohio.....                                     | 8              | 4                                  | 623            | 3,081             | 368                | 698               | 1,428           | 5,658                                | 5,633             | 11,363             | 53                        | 788              | 5,420                                |
| Tennessee.....                                | 11             | 8                                  | 1,173          | 4,930             | 932                | 1,901             | 2,840           | 8,755                                | 9,728             | 18,098             | 172                       | 1,069            | 7,758                                |
| West.....                                     | 17             | 4                                  | 169            | 902               | 128                | 247               | 582             | 1,841                                | 999               | 2,834              | 36                        | 177              | 2,144                                |
| INDUSTRY 3953.—MARKING DEVICES                |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 616            | 90                                 | 7,625          | 41,367            | 5,257              | 10,657            | 24,950          | 85,572                               | 41,670            | 126,845            | 2,204                     | 5,447            | 39,940                               |
| New England.....                              | 61             | 8                                  | 810            | 4,140             | 615                | 1,212             | 2,972           | 10,815                               | 5,422             | 15,894             | 283                       | 440              | 3,196                                |
| Massachusetts....                             | 37             | 4                                  | 590            | 2,859             | 460                | 893               | 2,115           | 8,840                                | 4,687             | 13,177             | 237                       | 285              | 2,105                                |
| Connecticut.....                              | 14             | 3                                  | 157            | 909               | 107                | 225               | 562             | 1,406                                | 520               | 1,933              | 27                        | 111              | 772                                  |
| Middle Atlantic....                           | 143            | 21                                 | 2,023          | 11,233            | 1,449              | 2,994             | 7,006           | 17,785                               | 8,434             | 26,309             | 502                       | 1,945            | 13,379                               |
| New York.....                                 | 76             | 9                                  | 934            | 5,089             | 666                | 1,353             | 3,077           | 8,869                                | 3,889             | 12,833             | 321                       | 848              | 5,898                                |
| East North Central.                           | 130            | 30                                 | 1,973          | 11,459            | 1,372              | 2,790             | 7,001           | 19,210                               | 12,921            | 31,966             | 515                       | 1,428            | 10,895                               |
| Illinois.....                                 | 53             | 19                                 | 1,209          | 6,934             | 874                | 1,787             | 4,270           | 11,894                               | 9,522             | 21,269             | 313                       | 753              | 5,593                                |
| West North Central.                           | 41             | 10                                 | 636            | 3,172             | 431                | 889               | 1,968           | 6,517                                | 3,323             | 9,770              | 208                       | 323              | 3,206                                |
| Minnesota.....                                | 11             | 4                                  | 245            | 1,054             | 179                | 359               | 716             | 2,766                                | 1,126             | 3,798              | 58                        | 78               | 1,253                                |
| Missouri.....                                 | 14             | 5                                  | 289            | 1,648             | 183                | 387               | 960             | 2,845                                | 1,781             | 4,646              | 78                        | 128              | 921                                  |
| South Atlantic....                            | 72             | 6                                  | 538            | 2,519             | 377                | 764               | 1,618           | 6,438                                | 2,388             | 8,776              | 175                       | 330              | 2,311                                |
| Georgia.....                                  | 10             | 3                                  | 211            | 933               | 163                | 322               | 617             | 3,531                                | 979               | 4,470              | 45                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| East South Central.                           | 23             | 1                                  | 241            | 805               | 202                | 428               | 616             | 1,656                                | 978               | 2,638              | 15                        | 123              | 588                                  |
| Tennessee.....                                | 11             | 1                                  | 199            | 624               | 182                | 387               | 533             | 1,278                                | 776               | 2,060              | 11                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West South Central.                           | 36             | 2                                  | 158            | 728               | 103                | 214               | 459             | 1,466                                | 653               | 2,108              | 26                        | 165              | 1,253                                |
| Texas.....                                    | 23             | 1                                  | 104            | 513               | 69                 | 145               | 318             | 1,007                                | 397               | 1,401              | 15                        | 114              | 921                                  |
| West.....                                     | 110            | 12                                 | 1,246          | 7,311             | 708                | 1,366             | 3,310           | 21,685                               | 7,551             | 29,384             | 480                       | 693              | 5,112                                |
| California.....                               | 70             | 8                                  | 956            | 5,568             | 545                | 1,025             | 2,505           | 18,650                               | 5,973             | 24,838             | 416                       | 452              | 3,510                                |
| INDUSTRY 3955.—CARBON PAPER AND INKED RIBBONS |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 102            | 52                                 | 5,539          | 31,480            | 3,819              | 7,671             | 17,628          | 68,353                               | 86,954            | 155,513            | 2,277                     | 5,818            | 58,951                               |
| New England.....                              | 8              | 7                                  | 526            | 2,526             | 422                | 825               | 1,806           | 9,859                                | 9,179             | 18,637             | 222                       | 730              | 7,711                                |
| Middle Atlantic....                           | 43             | 23                                 | 2,763          | 15,169            | 1,863              | 3,836             | 8,369           | 30,936                               | 39,531            | 70,903             | 1,012                     | 2,894            | 27,554                               |
| New York.....                                 | 25             | 14                                 | 1,862          | 10,605            | 1,246              | 2,555             | 5,478           | 22,658                               | 28,474            | 51,124             | 830                       | 1,991            | 20,891                               |
| New Jersey.....                               | 11             | 7                                  | 699            | 3,582             | 460                | 971               | 2,235           | 6,248                                | 8,189             | 14,826             | 134                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pennsylvania....                              | 7              | 2                                  | 202            | 982               | 157                | 310               | 656             | 2,030                                | 2,868             | 4,953              | 48                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| North Central.....                            | 23             | 12                                 | 1,501          | 8,903             | 1,066              | 2,018             | 5,076           | 19,024                               | 24,919            | 43,878             | 642                       | 1,325            | 15,947                               |
| Illinois.....                                 | 11             | 3                                  | 580            | 3,041             | 430                | 889               | 1,904           | 7,135                                | 10,059            | 17,025             | 262                       | 533              | 7,428                                |
| South.....                                    | 10             | 2                                  | 169            | 925               | 115                | 249               | 587             | 2,078                                | 4,168             | 6,297              | 151                       | 222              | 2,086                                |
| West.....                                     | 18             | 8                                  | 580            | 3,957             | 353                | 743               | 1,790           | 6,456                                | 9,157             | 15,798             | 250                       | 647              | 5,653                                |
| California.....                               | 14             | 5                                  | 426            | 2,636             | 276                | 593               | 1,463           | 4,324                                | 5,791             | 10,274             | 227                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                | 1963              |                                       |                   |                      |                    |                      |                    |   |                                |                                 | 1958                                   |                           |   |
|---|-------------------|---------------------------------------|-------------------|----------------------|--------------------|----------------------|--------------------|---|--------------------------------|---------------------------------|--|---------------------------|---|
|   | Establishments    |                                       | All employees     |                      | Production workers |                      |                    | Value added by manufacture, adjusted<br>(\$1,000) | Cost of materials<br>(\$1,000) | Value of shipments<br>(\$1,000) | Capital expenditures, new<br>(\$1,000) | All employees<br>(number) | Value added by manufacture, adjusted<br>(\$1,000) |
|   | Total<br>(number) | With 20 employees or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                |                                 |  |                           |   |
| INDUSTRY 3961.—COSTUME JEWELRY              |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                  | 912               | 204                                   | 21,655            | 85,268               | 18,225             | 34,535               | 59,760             | 150,999   | 132,422                        | 280,478                         | 3,825                                  | 25,286                    | 138,043   |
| New England.....                            | 345               | 98                                    | 12,680            | 50,587               | 10,876             | 20,588               | 35,628             | 87,621  | 67,968                         | 154,637                         | 1,651                                  | 14,860                    | 77,971  |
| Massachusetts....                           | 33                | 16                                    | 3,213             | 13,934               | 2,789              | 5,577                | 9,573              | 30,407  | 16,938                         | 46,254                          | 365                                    | 3,674                     | 24,885  |
| Rhode Island.....                           | 300               | 78                                    | 8,187             | 30,273               | 6,992              | 12,776               | 21,196             | 47,653  | 42,793                         | 90,599                          | 1,078                                  | 10,878                    | 50,986  |
| Middle Atlantic....                         | 430               | 92                                    | 7,833             | 30,156               | 6,382              | 12,118               | 20,727             | 54,367  | 57,505                         | 110,052                         | 1,791                                  | 8,780                     | 50,158  |
| New York.....                               | 400               | 87                                    | 7,140             | 27,486               | 5,808              | 10,987               | 18,819             | 49,772  | 53,084                         | 101,453                         | 1,650                                  | 8,116                     | 46,869  |
| New Jersey.....                             | 21                | 5                                     | 683               | 2,638                | 565                | 1,114                | 1,879              | 4,487   | 4,348                          | 8,419                           | 134                                    | 596                       | 2,921   |
| East North Central.                         | 26                | 5                                     | 257               | 1,040                | 216                | 386                  | 826                | 2,366   | 1,480                          | 3,794                           | 91                                     | 550                       | 4,057   |
| Illinois.....                               | 19                | 3                                     | 149               | 509                  | 119                | 221                  | 377                | 1,472   | 918                            | 2,344                           | 34                                     | 463                       | 2,557   |
| West North Central.                         | 11                | 1                                     | 99                | 411                  | 77                 | 139                  | 277                | 482   | 323                            | 794                             | 6                                      | 111                       | 574   |
| South.....                                  | 35                | 2                                     | 293               | 990                  | 257                | 517                  | 758                | 1,984   | 1,878                          | 3,719                           | 67                                     | 338                       | 1,304   |
| Mountain.....                               | 16                | -                                     | 68                | 147                  | 52                 | 93                   | 103                | 385   | 299                            | 668                             | 26                                     | 89                        | 493   |
| Pacific.....                                | 49                | 6                                     | 425               | 1,937                | 365                | 694                  | 1,441              | 3,794   | 2,969                          | 6,814                           | 193                                    | 557                       | 3,483   |
| California.....                             | 38                | 6                                     | 386               | 1,803                | 333                | 635                  | 1,341              | 3,553   | 2,821                          | 6,407                           | 173                                    | 520                       | 3,278   |
| INDUSTRY 3962.—ARTIFICIAL FLOWERS           |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                  | 384               | 70                                    | 4,958             | 16,338               | 4,266              | 7,609                | 12,113             | 29,194  | 30,639                         | 60,418                          | 736                                    | 6,770                     | 34,650  |
| Northeast.....                              | 212               | 41                                    | 3,319             | 11,638               | 2,845              | 5,111                | 8,525              | 20,414  | 21,957                         | 42,893                          | 458                                    | 5,079                     | 27,291  |
| New York.....                               | 168               | 29                                    | 2,218             | 7,855                | 1,903              | 3,382                | 5,775              | 13,767  | 13,439                         | 27,616                          | 299                                    | 3,465                     | 19,707  |
| Pennsylvania....                            | 18                | 9                                     | 611               | 2,252                | 522                | 986                  | 1,569              | 3,525   | 5,636                          | 9,352                           | 96                                     | 718                       | 3,385   |
| East North Central.                         | 51                | 9                                     | 444               | 1,458                | 373                | 668                  | 986                | 2,468   | 2,608                          | 5,088                           | 105                                    | 720                       | 3,562   |
| Wisconsin.....                              | 16                | 2                                     | 138               | 292                  | 120                | 224                  | 232                | 424   | 398                            | 826                             | 32                                     | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| West North Central.                         | 23                | 7                                     | 328               | 809                  | 298                | 473                  | 677                | 1,528   | 1,490                          | 2,883                           | 33                                     | 246                       | 871   |
| Missouri.....                               | 6                 | 3                                     | 150               | 406                  | 141                | 215                  | 361                | 915   | 843                            | 1,639                           | (D)                                    | 101                       | 429   |
| South Atlantic.....                         | 28                | 7                                     | 307               | 844                  | 265                | 466                  | 654                | 1,507   | 1,610                          | 3,160                           | 54                                     | 24                        | 2,006   |
| Florida.....                                | 9                 | 3                                     | 119               | 349                  | 100                | 170                  | 246                | 572   | 412                            | 988                             | 23                                     | 528                       | 2,006   |
| East South Central.                         | 5                 | 2                                     | 82                | 250                  | 71                 | 144                  | 186                | 489   | 622                            | 1,094                           | 24                                     | 23                        | 2,006   |
| West South Central.                         | 16                | 2                                     | 164               | 471                  | 147                | 284                  | 396                | 1,210   | 556                            | 1,804                           | 35                                     | 197                       | 920   |
| West.....                                   | 49                | 2                                     | 314               | 868                  | 267                | 463                  | 689                | 1,578   | 1,796                          | 3,496                           | 28                                     | 197                       | 920   |
| INDUSTRY 3963.—BUTTONS                      |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                  | 290               | 69                                    | 5,599             | 23,024               | 4,728              | 9,133                | 16,520             | 43,751  | 37,930                         | 81,835                          | 1,040                                  | 6,462                     | 37,967  |
| Northeast.....                              | 240               | 54                                    | 4,421             | 18,621               | 3,745              | 7,285                | 13,368             | 34,634  | 28,698                         | 63,574                          | 716                                    | 4,488                     | 28,106  |
| New York.....                               | 197               | 36                                    | 2,877             | 11,634               | 2,416              | 4,746                | 8,309              | 22,637  | 18,228                         | 41,013                          | 439                                    | 3,172                     | 20,097  |
| New Jersey.....                             | 17                | 8                                     | 464               | 1,971                | 418                | 749                  | 1,477              | 3,371   | 4,733                          | 8,209                           | 40                                     | 675                       | 3,944   |
| North Central.....                          | 22                | 9                                     | 677               | 2,527                | 526                | 965                  | 1,579              | 4,555   | 4,589                          | 9,067                           | 63                                     | 1,131                     | 5,615   |
| Iowa.....                                   | 11                | 8                                     | 550               | 1,972                | 431                | 790                  | 1,181              | 3,525   | 4,013                          | 7,491                           | 60                                     | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| South Atlantic.....                         | 14                | 5                                     | 417               | 1,617                | 382                | 736                  | 1,345              | 3,924   | 4,409                          | 8,320                           | (D)                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| West South Central.                         | 5                 | -                                     | 14                | 33                   | 13                 | 26                   | 31                 | 91  | 32                             | 124                             | (D)                                    | ( <sup>2</sup> )          | ( <sup>2</sup> )                                  |
| Pacific.....                                | 9                 | 1                                     | 70                | 226                  | 62                 | 121                  | 197                | 547   | 202                            | 750                             | 6                                      | 89                        | 433   |
| INDUSTRY 3964.—NEEDLES, PINS, AND FASTENERS |                   |                                       |                   |                      |                    |                      |                    |   |                                |                                 |  |                           |   |
| Total.....                                  | 343               | 149                                   | 20,271            | 89,431               | 16,675             | 32,642               | 64,125             | 190,868   | 146,067                        | 337,285                         | 7,428                                  | 17,756                    | 127,664   |
| New England.....                            | 61                | 38                                    | 5,710             | 28,963               | 4,552              | 8,843                | 20,392             | 56,164  | 34,198                         | 90,921                          | 2,196                                  | 6,017                     | 41,563  |
| Rhode Island.....                           | 8                 | 4                                     | 891               | 3,859                | 654                | 1,200                | 2,343              | 5,957   | 4,930                          | 10,728                          | 190                                    | 887                       | 5,602   |
| Connecticut.....                            | 39                | 27                                    | 4,266             | 22,611               | 3,421              | 6,704                | 16,057             | 44,618  | 27,176                         | 72,642                          | 1,794                                  | 4,446                     | 31,118  |
| Middle Atlantic....                         | 225               | 81                                    | 9,281             | 39,463               | 7,557              | 14,716               | 28,089             | 71,373  | 65,681                         | 137,104                         | 2,763                                  | 8,509                     | 58,054  |
| New York.....                               | 196               | 66                                    | 6,078             | 24,426               | 5,183              | 9,899                | 18,228             | 45,920  | 48,970                         | 94,663                          | 1,503                                  | 5,246                     | 30,780  |
| North Central.....                          | 25                | 9                                     | 2,109             | 8,449                | 1,718              | 3,295                | 5,428              | 21,056  | 14,898                         | 36,360                          | 890                                    | 1,910                     | 16,148  |
| Illinois.....                               | 9                 | 6                                     | 922               | 4,010                | 683                | 1,221                | 2,155              | 7,979   | 5,835                          | 13,901                          | 279                                    | 1,062                     | 7,788   |
| South.....                                  | 23                | 16                                    | 2,698             | 9,891                | 2,451              | 4,891                | 8,421              | 37,598  | 27,793                         | 64,777                          | 1,504                                  | 1,183                     | 11,040  |
| West.....                                   | 9                 | 5                                     | 473               | 2,665                | 397                | 897                  | 1,795              | 4,677   | 3,497                          | 8,123                           | 75                                     | 137                       | 859   |

Footnotes on next page.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

Footnotes for Table 2-39C

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3951, Pens and Mechanical Pencils: New England—Rhode Island, 4 (342); Connecticut, 3 (327); Middle Atlantic—New Jersey, 18 (1,000-2,499); Pennsylvania, 2 (20-99); East North Central—Ohio, 2 (1-19); Illinois, 5 (411); Michigan, 2 (1-19); Wisconsin, 2 (1,000-2,499); West North Central—Minnesota, 2 (20-99); Iowa, 2 (1,000-2,499); Missouri, 3 (491); Nebraska, 1 (1-19); Kansas, 1 (1-19); South Atlantic—Virginia, 3 (240); Georgia, 1 (1,000-2,499); Florida, 1 (1-19); East South Central—Kentucky, 2 (100-249); Tennessee, 1 (1-19); West South Central—Oklahoma, 1 (1-19); Mountain—Colorado, 1 (1-19); Pacific—Washington, 1 (1-19); California, 15 (1,000-2,499).

SIC 3952, Lead Pencils and Art Goods: New England—Massachusetts, 5 (567); Connecticut, 5 (567); East North Central—Indiana, 3 (279); Illinois, 8 (100-249); Michigan, 1 (1-19); Wisconsin, 2 (1-19); West North Central—Minnesota, 1 (1-19); Missouri, 4 (100-249); Nebraska, 1 (1-19); Kansas, 2 (20-99); South Atlantic—Georgia, 2 (100-249); Florida, 1 (1-19); East South Central—Kentucky, 1 (100-249); Alabama, 1 (1-19); West South Central—Arkansas, 1 (1-19); Texas, 1 (1-19); Mountain—Colorado, 1 (1-19); Pacific—California, 16 (100-249).

SIC 3953, Marking Devices: New England—Maine, 2 (1-19); New Hampshire, 2 (1-19); Rhode Island, 6 (20-99); Middle Atlantic—New Jersey, 28 (250-499); Pennsylvania, 39 (500-999); East North Central—Ohio, 29 (329); Indiana, 12 (20-99); Michigan, 25 (294); Wisconsin, 11 (20-99); West North Central—Iowa, 7 (20-99); South Dakota, 1 (1-19); Nebraska, 4 (20-99); Kansas, 4 (1-19); South Atlantic—Delaware, 2 (1-19); Maryland, 7 (20-99); District of Columbia, 3 (20-99); Virginia, 7 (20-99); West Virginia, 4 (1-19); North Carolina, 7 (20-99); South Carolina, 3 (1-19); Florida, 29 (100-249); East South Central—Kentucky, 3 (20-99); Alabama, 3 (1-19); Mississippi, 1 (1-19); West South Central—Arkansas, 3 (1-19); Louisiana, 4 (20-99); Oklahoma, 6 (1-19); Mountain—Montana, 1 (1-19); Idaho, 2 (1-19); Colorado, 6 (20-99); New Mexico, 2 (1-19); Arizona, 7 (1-19); Utah, 3 (20-99); Nevada, 1 (1-19); Pacific—Washington, 10 (100-249); Oregon, 5 (20-99); Alaska, 1 (1-19); Hawaii, 2 (1-19).

SIC 3955, Carbon Paper and Inked Ribbons: New England—Massachusetts, 4 (222); Connecticut, 4 (304); East North Central—Ohio, 7 (500-999); Michigan, 2 (100-249); West North Central—Iowa, 1 (100-249); Missouri, 1 (1-19); Nebraska, 1 (1-19); South Atlantic—District of Columbia, 1 (1-19); Georgia, 2 (20-99); East South Central—Tennessee, 1 (1-19); West South Central—Louisiana, 1 (1-19); Texas, 5 (20-99); Mountain—Colorado, 2 (100-249); Pacific—Washington, 1 (1-19); Oregon, 1 (20-99).

SIC 3961, Costume Jewelry: New England—Maine, 1 (1-19); New Hampshire, 2 (1-19); Connecticut, 9 (1,275); Middle Atlantic—Pennsylvania, 9 (1-19); East North Central—Ohio, 4 (20-99); Indiana, 1 (1-19); Michigan, 1 (1-19); Wisconsin, 1 (1-19); West North Central—Minnesota, 2 (1-19); Iowa, 1 (1-19); Missouri, 2 (20-99); South Dakota, 3 (1-19); Nebraska, 3 (1-19); South Atlantic—Maryland, 4 (1-19); Virginia, 2 (1-19); West Virginia, 1 (1-19); North Carolina, 1 (1-19); South Carolina, 1 (1-19); Georgia, 2 (1-19); Florida, 14 (20-99); East South Central—Kentucky, 2 (1-19); Tennessee, 1 (1-19); Alabama, 3 (100-249); Mississippi, 1 (1-19); West South Central—Texas, 3 (20-99); Mountain—Wyoming, 1 (1-19); Colorado, 5 (1-19); New Mexico, 1 (1-19); Arizona, 7 (20-99); Nevada, 2 (1-19); Pacific—Washington, 2 (1-19); Oregon, 1 (1-19); Hawaii, 8 (20-99).

SIC 3962, Artificial Flowers: New England—Maine, 1 (1-19); New Hampshire, 1 (1-19); Massachusetts, 5 (1-19); Rhode Island, 2 (250-499); Middle Atlantic—New Jersey, 17 (121); East North Central—Ohio, 6 (20-99); Indiana, 6 (20-99); Illinois, 18 (100-249); Michigan, 5 (20-99); West North Central—Minnesota, 9 (100-249); Iowa, 5 (20-99); Kansas, 3 (1-19); South Atlantic—Delaware, 1 (20-99); Maryland, 1 (20-99); Virginia, 3 (1-19); West Virginia, 2 (1-19); North Carolina, 12 (134); East South Central—Tennessee, 1 (1-19); Alabama, 3 (20-99); Mississippi, 1 (1-19); West South Central—Louisiana, 1 (1-19); Oklahoma, 4 (20-99); Texas, 11 (144); Mountain—Montana, 3 (1-19); Colorado, 4 (20-99); Utah, 1 (1-19); Pacific—Washington, 10 (20-99); Oregon, 6 (20-99); California, 24 (100-249); Hawaii, 1 (1-19).

SIC 3963, Buttons: New England—Maine, 1 (20-99); Vermont, 1 (20-99); Massachusetts, 10 (20-99); Rhode Island, 1 (1-19); Connecticut, 8 (619); Middle Atlantic—Pennsylvania, 5 (247); East North Central—Illinois, 9 (100-249); West North Central—Missouri, 1 (1-19); North Dakota, 1 (1-19); South Atlantic—Delaware, 3 (1-19); Maryland, 6 (20-99); Virginia, 3 (261); Florida, 2 (20-99); West South Central—Arkansas, 2 (1-19); Texas, 3 (1-19); Pacific—California, 9 (20-99).

SIC 3964, Needles, Pins, and Fasteners: New England—New Hampshire, 2 (100-249); Vermont, 1 (1-19); Massachusetts, 11 (425); Middle Atlantic—New Jersey, 22 (1,668); Pennsylvania, 7 (1,535); East North Central—Ohio, 2 (1-19); Michigan, 3 (1-19); Wisconsin, 3 (100-249); West North Central—Iowa, 1 (1-19); Missouri, 4 (20-99); Nebraska, 1 (500-999); Kansas, 2 (1-19); South Atlantic—Maryland, 1 (20-99); Virginia, 2 (250-499); North Carolina, 3 (250-499); South Carolina, 4 (500-999); Georgia, 4 (500-999); Florida, 3 (1-19); East South Central—Kentucky, 1 (100-249); Mississippi, 2 (250-499); West South Central—Oklahoma, 1 (1-19); Texas, 2 (20-99); Mountain—Colorado, 2 (20-99); Pacific—California, 7 (250-499).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.



TABLE 3. Detailed Statistics: 1963

| Item  | Pens and mechanical pencils (SIC 3951) | Lead pencils and art goods (SIC 3952) | Marking devices (SIC 3953) | Carbon paper and inked ribbons (SIC 3955) | Costume jewelry (SIC 3961) | Artificial flowers (SIC 3962) | Buttons (SIC 3963) | Needles, pins, and fasteners (SIC 3964) |
|---|--|---------------------------------------|----------------------------|---|----------------------------|-------------------------------|--------------------|---|
| Primary product specialization ratio <sup>1</sup> .....         | .90                                    | .87                                   | .84                        | .95                                       | .95                        | .97                           | .96                | .91                                     |
| Coverage ratio <sup>2</sup> .....                               | .93                                    | .90                                   | .90                        | .83                                       | .95                        | .87                           | .87                | .92                                     |
| Establishments, total..... number..                             | 139                                    | 144                                   | 616                        | 102                                       | 912                        | 384                           | 290                | 343                                     |
| With 1 to 19 employees..... do....                              | 72                                     | 87                                    | 525                        | 50  | 708                        | 314                           | 221                | 194                                     |
| With 20 to 99 employees..... do....                             | 41                                     | 39                                    | 82                         | 37  | 162                        | 63                            | 60                 | 105                                     |
| With 100 employees or more..... do....                          | 26                                     | 18                                    | 8                          | 15  | 42                         | 7                             | 9                  | 44                                      |
| Proprietors and working partners..... do....                    | 40                                     | 63                                    | 409                        | 19  | 552                        | 249                           | 174                | 135                                     |
| All employees (average for the year)..... do....                | 11,562                                 | 6,868                                 | 7,625                      | 5,539                                     | 21,655                     | 4,958                         | 5,599              | 20,271                                  |
| Payroll (all employees), total for year..... \$1,000..          | 54,968                                 | 31,944                                | 41,367                     | 31,480                                    | 85,268                     | 16,338                        | 23,024             | 89,431                                  |
| Production workers:   |  |                                       |                            |   |                            |                               |                    |   |
| Average for the year..... number..                              | 9,065                                  | 5,020                                 | 5,257                      | 3,819                                     | 18,225                     | 4,266                         | 4,728              | 16,675                                  |
| March..... do....   | 8,532                                  | 4,997                                 | 5,250                      | 3,831                                     | 16,789                     | 3,903                         | 4,775              | 16,750                                  |
| May..... do....   | 8,865                                  | 5,017                                 | 5,242                      | 3,799                                     | 17,052                     | 3,578                         | 4,671              | 16,886                                  |
| August..... do....  | 9,093                                  | 5,094                                 | 5,199                      | 3,818                                     | 19,218                     | 4,362                         | 4,743              | 16,915                                  |
| November..... do....  | 9,783                                  | 4,981                                 | 5,364                      | 3,831                                     | 19,912                     | 5,275                         | 4,759              | 16,141                                  |
| Man-hours..... 1,000..  | 17,937                                 | 9,831                                 | 10,657                     | 7,671                                     | 34,535                     | 7,609                         | 9,133              | 32,642                                  |
| January-March..... do....                                       | 4,163                                  | 2,425                                 | 2,671                      | 1,939                                     | 7,920                      | 1,710                         | 2,300              | 8,237                                   |
| April-June..... do....  | 4,415                                  | 2,490                                 | 2,714                      | 1,923                                     | 8,209                      | 1,641                         | 2,293              | 8,500                                   |
| July-September..... do....                                      | 4,429                                  | 2,467                                 | 2,608                      | 1,883                                     | 8,797                      | 1,949                         | 2,234              | 7,863                                   |
| October-December..... do....                                    | 4,930                                  | 2,449                                 | 2,664                      | 1,926                                     | 9,609                      | 2,309                         | 2,306              | 8,042                                   |
| Wages..... \$1,000..  | 33,944                                 | 18,394                                | 24,950                     | 17,628                                    | 59,760                     | 12,113                        | 16,520             | 64,125                                  |
| Cost of materials, etc., total..... do....                      | 66,615                                 | 56,807                                | 41,670                     | 86,954                                    | 132,422                    | 30,639                        | 37,930             | 146,067                                 |
| Materials, parts, containers, and supplies consumed..... do.... | 62,240                                 | 48,209                                | 33,150                     | 72,473                                    | 109,015                    | 26,812                        | 33,301             | 131,109                                 |
| Cost of resales..... do....                                     | 1,483                                  | 6,522                                 | 7,025                      | 10,795                                    | 9,176                      | 3,163                         | 2,871              | 8,676                                   |
| Fuels consumed..... do....                                      | 201                                    | 457                                   | 245                        | 327                                       | 493                        | 166                           | 261                | 823                                     |
| Electric energy:  |  |                                       |                            |   |                            |                               |                    |   |
| Purchased:  |  |                                       |                            |   |                            |                               |                    |   |
| Quantity..... million kw.-hrs..                                 | 56                                     | 34                                    | 26                         | 30  | 70                         | 17                            | 34                 | 132                                     |
| Cost..... \$1,000..   | 837                                    | 563                                   | 528                        | 659                                       | 1,303                      | 294                           | 659                | 1,970                                   |
| Generated less sold..... million kw.-hrs..                      | (D)                                    | (D)                                   | (D)                        | -   | (D)                        | -                             | (D)                | (D)                                     |
| Contract work..... \$1,000..                                    | 1,854                                  | 1,056                                 | 722                        | 2,700                                     | 12,434                     | 204                           | 838                | 3,491                                   |
| Value of shipments (including resales), total..... do....       | 185,464                                | 121,630                               | 126,845                    | 155,513                                   | 280,478                    | 60,418                        | 81,835             | 337,285                                 |
| Value of resales..... do....                                    | 2,008                                  | 10,552                                | 10,423                     | 14,481                                    | 18,424                     | 5,243                         | 5,610              | 15,243                                  |
| Value added by manufacture, adjusted..... do....                | 119,069                                | 64,731                                | 85,572                     | 68,353                                    | 150,999                    | 29,194                        | 43,751             | 190,868                                 |
| Manufacturers' inventories:                                     |  |                                       |                            |   |                            |                               |                    |   |
| Beginning of year, total..... do....                            | 27,845                                 | 26,177                                | 11,596                     | 24,016                                    | 31,067                     | 10,175                        | 12,052             | 50,929                                  |
| Finished products..... do....                                   | 7,404                                  | 10,813                                | 4,460                      | 6,423                                     | 11,528                     | 5,041                         | 6,896              | 19,790                                  |
| Work-in-process..... do....                                     | 9,851                                  | 4,662                                 | 1,345                      | 5,326                                     | 9,233                      | 592                           | 2,211              | 17,708                                  |
| Materials, supplies, fuel, etc..... do....                      | 10,590                                 | 10,702                                | 5,791                      | 12,267                                    | 10,305                     | 4,542                         | 2,945              | 13,431                                  |
| End of year, total..... do....                                  | 29,476                                 | 26,369                                | 12,119                     | 23,325                                    | 34,176                     | 9,610                         | 11,798             | 51,768                                  |
| Finished products..... do....                                   | 7,182                                  | 10,624                                | 4,967                      | 6,607                                     | 13,629                     | 4,546                         | 6,517              | 19,362                                  |
| Work-in-process..... do....                                     | 10,293                                 | 4,758                                 | 1,235                      | 4,936                                     | 10,075                     | 502                           | 2,436              | 17,786                                  |
| Materials, supplies, fuel, etc..... do....                      | 12,001                                 | 10,986                                | 5,917                      | 11,782                                    | 10,472                     | 4,562                         | 2,845              | 14,620                                  |
| Expenditures for plant and equipment, total..... do....         | 4,277                                  | 1,615                                 | 2,298                      | 2,416                                     | 4,074                      | 779                           | 1,130              | 7,986                                   |
| New, total..... do....  | 4,068                                  | 1,594                                 | 2,204                      | 2,277                                     | 3,825                      | 736                           | 1,040              | 7,428                                   |
| New structures and additions to plant..... do....               | 205                                    | 281                                   | 380                        | 257                                       | 971                        | 223                           | 262                | 963                                     |
| New machinery and equipment..... do....                         | 3,863                                  | 1,313                                 | 1,824                      | 2,020                                     | 2,854                      | 513                           | 778                | 6,465                                   |
| Used plant and equipment..... do....                            | 209                                    | 21                                    | 94                         | 139                                       | 249                        | 43                            | 90                 | 558                                     |
| Selected operating ratios:                                      |  |                                       |                            |   |                            |                               |                    |   |
| Payroll/Total employment.....                                   | 4,754                                  | 4,658                                 | 5,425                      | 5,683                                     | 3,938                      | 3,295                         | 4,112              | 4,411                                   |
| Production workers/Total employment.....                        | .78                                    | .73                                   | .69                        | .69                                       | .84                        | .86                           | .84                | .82                                     |
| Man-hours/Production workers.....                               | 1,979                                  | 1,958                                 | 2,027                      | 2,009                                     | 1,895                      | 1,784                         | 1,932              | 1,958                                   |
| Production worker wages/Man-hours.....                          | 2.09                                   | 1.87                                  | 2.34                       | 2.30                                      | 1.73                       | 1.59                          | 1.81               | 1.96                                    |
| Cost of materials and payrolls/Total value of shipments.....    | .66                                    | .73                                   | .65                        | .76                                       | .78                        | .78                           | .74                | .70                                     |
| Cost of materials/Total value of shipments.....                 | .36                                    | .47                                   | .33                        | .56                                       | .47                        | .51                           | .46                | .43                                     |
| Adjusted value added/Total employment.....                      | 10,298                                 | 9,425                                 | 11,223                     | 12,340                                    | 6,973                      | 5,888                         | 7,814              | 9,416                                   |
| Salaries and wages/Adjusted value added.....                    | .46                                    | .49                                   | .48                        | .46                                       | .56                        | .56                           | .53                | .47                                     |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of- |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3951.—PENS AND MECHANICAL PENCILS    |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 139                   | 43                                 | 11               | 18                 | 22                 | 19                 | 17                   | 5                    | 1                    | 3                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 11,562                | 80                                 | 73               | 229                | 681                | 1,339              | 2,547                | 2,230                | (D)                  | 4,383                    | -                        |
| Payroll.....\$1,000..                         | 54,968                | 310                                | 218              | 871                | 2,652              | 4,693              | 11,139               | 9,482                | (D)                  | 25,603                   | -                        |
| Value added, adjusted.....do....              | 119,069               | 805                                | 442              | 1,969              | 4,996              | 9,440              | 30,471               | 16,935               | (D)                  | 54,011                   | -                        |
| Value of shipments.....do....                 | 185,464               | 2,027                              | 1,264            | 4,270              | 11,408             | 22,548             | 47,655               | 27,757               | (D)                  | 68,535                   | -                        |
| Capital expenditures, new...do....            | 4,068                 | 53                                 | 25               | 56                 | 169                | 373                | 1,093                | 909                  | (D)                  | 1,390                    | -                        |
| INDUSTRY 3952.—LEAD PENCILS AND ART GOODS     |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 144                   | 53                                 | 18               | 16                 | 27                 | 12                 | 10                   | 7                    | 1                    | -                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 6,868                 | 86                                 | 125              | 224                | 893                | 934                | 1,500                | 3,106                | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                         | 31,944                | 478                                | 623              | 917                | 4,140              | 4,318              | 5,423                | 16,045               | (D)                  | -                        | -                        |
| Value added, adjusted.....do....              | 64,731                | 1,016                              | 1,054            | 2,466              | 8,971              | 8,788              | 10,341               | 32,095               | (D)                  | -                        | -                        |
| Value of shipments.....do....                 | 121,630               | 1,887                              | 2,391            | 4,726              | 18,837             | 17,589             | 19,511               | 56,689               | (D)                  | -                        | -                        |
| Capital expenditures, new...do....            | 1,594                 | 28                                 | 43               | 46                 | 231                | 245                | 172                  | 829                  | (D)                  | -                        | -                        |
| INDUSTRY 3953.—MARKING DEVICES                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 616                   | 308                                | 122              | 96                 | 59                 | 23                 | 6                    | 2                    | -                    | -                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 7,625                 | 474                                | 823              | 1,324              | 1,672              | 1,589              | 1,743                | (D)                  | -                    | -                        | -                        |
| Payroll.....\$1,000..                         | 41,367                | 2,516                              | 4,106            | 6,940              | 9,664              | 8,906              | 9,235                | (D)                  | -                    | -                        | -                        |
| Value added, adjusted.....do....              | 85,572                | 6,004                              | 7,216            | 12,011             | 16,088             | 14,993             | 29,260               | (D)                  | -                    | -                        | -                        |
| Value of shipments.....do....                 | 126,845               | 8,995                              | 10,605           | 16,974             | 23,320             | 25,369             | 41,582               | (D)                  | -                    | -                        | -                        |
| Capital expenditures, new...do....            | 2,204                 | 193                                | 208              | 362                | 363                | 315                | 763                  | (D)                  | -                    | -                        | -                        |
| INDUSTRY 3955.—CARBON PAPER AND INKED RIBBONS |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 102                   | 21                                 | 14               | 15                 | 20                 | 17                 | 10                   | 4                    | 1                    | -                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 5,539                 | 44                                 | 100              | 214                | 677                | 1,237              | 1,479                | 1,788                | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                         | 31,480                | 235                                | 519              | 1,173              | 3,792              | 7,259              | 8,395                | 10,107               | (D)                  | -                        | -                        |
| Value added, adjusted.....do....              | 68,353                | 286                                | 961              | 2,342              | 7,483              | 15,181             | 20,166               | 21,934               | (D)                  | -                        | -                        |
| Value of shipments.....do....                 | 155,513               | 801                                | 2,606            | 5,977              | 18,432             | 33,740             | 45,355               | 48,602               | (D)                  | -                        | -                        |
| Capital expenditures, new...do....            | 2,277                 | 9                                  | 28               | 145                | 291                | 655                | 569                  | 580                  | (D)                  | -                        | -                        |
| INDUSTRY 3961.—COSTUME JEWELRY                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 912                   | 375                                | 171              | 162                | 113                | 49                 | 30                   | 6                    | 5                    | 1                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 21,655                | 694                                | 1,169            | 2,181              | 3,487              | 3,500              | 4,100                | 2,216                | 4,308                | (D)                      | -                        |
| Payroll.....\$1,000..                         | 85,268                | 2,240                              | 3,843            | 7,292              | 13,027             | 13,284             | 16,466               | 10,536               | 18,580               | (D)                      | -                        |
| Value added, adjusted.....do....              | 150,999               | 5,520                              | 6,902            | 14,491             | 24,016             | 23,043             | 23,835               | 16,283               | 36,909               | (D)                      | -                        |
| Value of shipments.....do....                 | 280,478               | 10,135                             | 14,009           | 27,124             | 52,314             | 47,343             | 46,213               | 26,894               | 56,446               | (D)                      | -                        |
| Capital expenditures, new...do....            | 3,825                 | 477                                | 437              | 527                | 670                | 577                | 376                  | 244                  | 517                  | (D)                      | -                        |
| INDUSTRY 3962.—ARTIFICIAL FLOWERS             |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 384                   | 166                                | 80               | 68                 | 56                 | 7                  | 6                    | 1                    | -                    | -                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 4,958                 | 325                                | 523              | 912                | 1,664              | 471                | 1,063                | (D)                  | -                    | -                        | -                        |
| Payroll.....\$1,000..                         | 16,338                | 858                                | 1,725            | 3,047              | 5,651              | 1,715              | 3,342                | (D)                  | -                    | -                        | -                        |
| Value added, adjusted.....do....              | 29,194                | 2,195                              | 3,425            | 5,546              | 8,729              | 3,148              | 6,151                | (D)                  | -                    | -                        | -                        |
| Value of shipments.....do....                 | 60,418                | 4,521                              | 7,898            | 11,037             | 18,821             | 5,452              | 12,689               | (D)                  | -                    | -                        | -                        |
| Capital expenditures, new...do....            | 736                   | 53                                 | 94               | 113                | 216                | 98                 | 162                  | (D)                  | -                    | -                        | -                        |

See footnotes at end of table.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963—Continued

| Item  | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3963.—BUTTONS                      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 290                   | 93                                 | 67               | 61                 | 40                 | 20                 | 9                    | -                    | -                    | -                        | -                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 5,599                 | 188                                | 428              | 833                | 1,232              | 1,463              | 1,455                | -                    | -                    | -                        | -                        |
| Payroll.....\$1,000..                       | 23,024                | 620                                | 1,463            | 2,938              | 4,602              | 5,742              | 7,659                | -                    | -                    | -                        | -                        |
| Value added, adjusted.....do....            | 43,751                | 1,266                              | 2,845            | 5,415              | 7,093              | 13,045             | 14,087               | -                    | -                    | -                        | -                        |
| Value of shipments.....do....               | 81,835                | 2,015                              | 4,474            | 9,777              | 14,432             | 23,944             | 27,193               | -                    | -                    | -                        | -                        |
| Capital expenditures, new.....do....        | 1,040                 | 18                                 | 58               | 170                | 144                | 239                | 411                  | -                    | -                    | -                        | -                        |
| INDUSTRY 3964.—NEEDLES, PINS, AND FASTENERS |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 343                   | 80                                 | 52               | 62                 | 77                 | 28                 | 27                   | 9                    | 7                    | 1                        | -                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 20,271                | 153                                | 342              | 829                | 2,405              | 2,031              | 4,644                | 3,059                | 6,808                | (D)                      | -                        |
| Payroll.....\$1,000..                       | 89,431                | 602                                | 1,213            | 3,056              | 9,294              | 9,492              | 19,221               | 13,791               | 32,762               | (D)                      | -                        |
| Value added, adjusted.....do....            | 190,868               | 1,509                              | 2,826            | 5,878              | 21,172             | 19,583             | 55,128               | 27,552               | 57,220               | (D)                      | -                        |
| Value of shipments.....do....               | 337,285               | 3,406                              | 7,090            | 12,000             | 43,352             | 37,138             | 96,681               | 46,890               | 90,728               | (D)                      | -                        |
| Capital expenditures, new.....do....        | 7,428                 | 94                                 | 192              | 202                | 755                | 773                | 1,900                | 836                  | 2,676                | (D)                      | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                 | Value of shipments |                  |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|--------------------|------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total              | Primary products | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | (\$1,000)          | (\$1,000)        | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B-C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |  | A                  | B                | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3951      | Pens and mechanical pencils.....1963..   | 185,464            | 164,658          | 17,557             | 3,249                  | 90                                   | 177,726                            | 164,658               | 13,068                   | 93                            |
|           | 1958..                                   | 150,279            | 135,938          | 10,841             | 3,500                  | 93                                   | 147,232                            | 137,330               | 9,902                    | 93                            |
| 3952      | Lead pencils and art goods.....1963..    | 121,630            | 96,511           | 14,385             | 10,734                 | 87                                   | 107,522                            | 96,511                | 11,011                   | 90                            |
|           | 1958..                                   | 98,494             | 82,368           | 10,855             | 5,271                  | 88                                   | 89,451                             | 82,368                | 7,083                    | 92                            |
| 3953      | Marking devices.....1963..               | 126,845            | 96,035           | 18,849             | 11,961                 | 84                                   | 107,102                            | 96,035                | 11,067                   | 90                            |
|           | 1958..                                   | 59,923             | 50,499           | 2,027              | 7,397                  | 96                                   | 58,652                             | 50,499                | 8,153                    | 86                            |
| 3955      | Carbon paper and inked ribbons....1963.. | 155,513            | 133,308          | 7,072              | 15,133                 | 95                                   | 161,263                            | 133,308               | 27,955                   | 83                            |
|           | 1958..                                   | 126,013            | 106,328          | 9,958              | 9,727                  | 91                                   | 119,112                            | 106,328               | 12,784                   | 89                            |
| 3961      | Costume jewelry.....1963..               | 280,478            | 243,114          | 12,671             | 24,693                 | 95                                   | 256,682                            | 243,114               | 13,568                   | 95                            |
|           | 1958..                                   | 253,809            | 227,970          | 12,727             | 13,112                 | 95                                   | 236,250                            | 227,970               | 8,280                    | 96                            |
| 3962      | Artificial flowers.....1963..            | 60,418             | 52,553           | 1,828              | 6,037                  | 97                                   | 59,256                             | 52,553                | 6,703                    | 87                            |
|           | 1958..                                   | 64,969             | 58,199           | 1,343              | 5,427                  | 98                                   | 59,494                             | 58,199                | 1,295                    | 98                            |
| 3963      | Buttons.....1963..                       | 81,835             | 71,121           | 3,290              | 7,424                  | 96                                   | 81,855                             | 71,121                | 10,734                   | 87                            |
|           | 1958..                                   | 68,609             | 62,131           | 1,332              | 5,146                  | 98                                   | 70,830                             | 62,131                | 8,699                    | 88                            |
| 3964      | Needles, pins, and fasteners.....1963..  | 337,285            | 289,966          | 28,892             | 18,427                 | 91                                   | 315,198                            | 289,966               | 25,232                   | 92                            |
|           | 1958..                                   | 220,517            | 197,357          | 14,919             | 8,241                  | 93                                   | 220,845                            | 197,357               | 23,488                   | 89                            |

Note: See Introduction for an explanation of terms used.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars except for ranges (shown in parentheses) which are expressed in millions of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous

receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                            | Class of products and miscellaneous receipts   | All industries | Pens and mechanical pencils (SIC 3951) | Other industries | Prod. class code                | Class of products and miscellaneous receipts  | All industries | Marking devices (SIC 3953)                | Other industries |
|---|--|----------------|--|------------------|---------------------------------|---|----------------|---|------------------|
| <b>PENS AND MECHANICAL PENCILS INDUSTRY</b> |  |                |  |                  | <b>MARKING DEVICES INDUSTRY</b> |   |                |   |                  |
|   | Total shipments and receipts of the industry.....  | (X)            | 185,464                                | (X)              |                                 | Total shipments and receipts of the industry.....   | (X)            | 126,845                                   | (X)              |
| 39510                                       | Pens, mechanical pencils, and pen points.....  | 177,726        | 164,658                                | 13,068           | 39530                           | Hand stamps, stencils and other marking devices.....  | 107,102        | 96,035                                    | 11,067           |
|   | Secondary products.....  | (X)            | 17,557                                 | (X)              |                                 | Secondary products, total.....  | (X)            | 18,849                                    | (X)              |
| 39522                                       | Artists' materials.....  | (X)            | (X)                                    | 2,228            | 28913                           | Glue and gelatin.....   | (X)            | (2-5)                                     | (X)              |
|   | Other secondary products.....  | (X)            | 15,329                                 | (X)              | 30798                           | Consumer and commercial plastics products, n.e.c.....   | (X)            | (5-10)                                    | (X)              |
| 28993                                       | Essential oils, fireworks and pyrotechnics, chemical and chemical preparations, n.e.c..  | (X)            | (over 2)                               | (X)              |                                 | Miscellaneous receipts, total.....  | (X)            | 11,961                                    | (X)              |
| 39530                                       | Hand stamps, stencils, and other marking devices.....  | (X)            | (over 2)                               | (X)              |                                 | Contract and commission work.....   | (X)            | 1,256                                     | (X)              |
| 39993                                       | Other miscellaneous fabricated products.....   | (X)            | (5-10)                                 | (X)              |                                 | Sales of products bought and resold.....  | (X)            | 10,423                                    | (X)              |
|   | Miscellaneous receipts, total.....   | (X)            | 3,249                                  | (X)              |                                 | Other miscellaneous receipts.....   | (X)            | 282                                       | (X)              |
|   | Contract and commission work....   | (X)            | 434                                    | (X)              | 39530                           | Listing of other industries with over \$2 million shipments of each primary product class:<br>3951 Pens, and mechanical pencils | (X)            | (X)                                       | (over 2)         |
|   | Sales of products bought and resold.....   | (X)            | 2,008                                  | (X)              |                                 |   | All industries | Carbon paper and inked ribbons (SIC 3955) | Other industries |
|   | Other miscellaneous receipts.....  | (X)            | 807                                    | (X)              |                                 |   |                |   |                  |
| 39510                                       | Listing of other industries with over \$2 million shipments of each primary product class:<br>3952 Lead pencils and art goods. | (X)            | (X)                                    | 5,535            |                                 |   |                |   |                  |
|   |  | All industries | Lead pencils and art goods (SIC 3952)  | Other industries |                                 | <b>CARBON PAPER AND INKED RIBBONS INDUSTRY</b>  |                |   |                  |
|   |  |                |  |                  |                                 | Total shipments and receipts of the industry.....   | (X)            | 155,513                                   | (X)              |
|   |  |                |  |                  | 39550                           | Carbon paper, stencil paper, and inked ribbons.....   | 161,263        | 133,308                                   | 27,955           |
|   |  |                |  |                  |                                 | Secondary products.....   | (X)            | 7,072                                     | (X)              |
|   |  |                |  |                  |                                 | Miscellaneous receipts, total.....  | (X)            | 15,133                                    | (X)              |
|   |  |                |  |                  |                                 | Sales of products bought and resold.....  | (X)            | 14,481                                    | (X)              |
|   |  |                |  |                  |                                 | Other miscellaneous receipts.....   | (X)            | 652                                       | (X)              |
|   |  |                |  |                  | 39550                           | Listing of other industries with over \$2 million shipments of each primary product class:<br>3579 Office machines, n.e.c.....  | (X)            | (X)                                       | 14,128           |
|   |  |                |  |                  |                                 | 2752 Printing, lithographic.....  | (X)            | (X)                                       | (2-5)            |
|   |  |                |  |                  |                                 | 3571 Computing and related machines.....  | (X)            | (X)                                       | (over 2)         |
|   |  |                |  |                  |                                 | 3572 Typewriters.....   | (X)            | (X)                                       | (over 2)         |
|   |  |                |  |                  |                                 |   | All industries | Costume jewelry (SIC 3961)                | Other industries |
|   |  |                |  |                  |                                 |   |                |   |                  |
|   |  |                |  |                  |                                 | <b>COSTUME JEWELRY INDUSTRY</b>   |                |   |                  |
|   |  |                |  |                  |                                 | Total shipments and receipts of the industry.....   | (X)            | 280,478                                   | (X)              |
| 39521                                       | Listing of other industries with over \$2 million shipments of each primary product class:<br>3951 Pens and mechanical pencils | (X)            | (X)                                    | 2,228            | 39610                           | Costume jewelry and costume novelties, except precious metal...   | 256,682        | 243,114                                   | 13,568           |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963—Continued

| Prod. class code | Class of products and miscellaneous receipts   | All industries | Costume jewelry (SIC 3961)    | Other industries | Prod. class code | Class of products and miscellaneous receipts   | All industries | Buttons (SIC 3963)                      | Other industries |
|------------------|--|----------------|-------------------------------|------------------|------------------|--|----------------|---|------------------|
|                  | <b>COSTUME JEWELRY INDUSTRY—Con.</b>   |                |                               |                  |                  | <b>BUTTONS INDUSTRY—Continued</b>  |                |   |                  |
| 39112            | Secondary products, total.....   | (X)            | 12,671                        | (X)              |                  | Miscellaneous receipts, total.....   | (X)            | 7,424                                   | (X)              |
|                  | Jewelry, made of precious metals, except platinum and carat gold..                         | (X)            | 5,327                         | (X)              |                  | Contract and commission work.....  | (X)            | 1,707                                   | (X)              |
| 39642            | Other secondary products.....  | 7,344          | (X)                           | (X)              |                  | Sales of products bought and resold.....   | (X)            | 5,610                                   | (X)              |
|                  | Needles, pins, fasteners (except slide) and similar notions.....                           | (X)            | (2-5)                         | (X)              |                  | Other miscellaneous receipts.....  | (X)            | 107                                     | (X)              |
|                  | Miscellaneous receipts, total.....   | (X)            | 24,693                        | (X)              |                  | Listing of other industries with over \$2 million shipments of each primary product class: |                |   |                  |
|                  | Contract and commission work.....  | (X)            | 5,165                         | (X)              | 39630            | 3079 Plastics products, n.e.c....  | (X)            | (X)                                     | 3,904            |
|                  | Sales of products bought and resold.....   | (X)            | 18,424                        | (X)              |                  | 3964 Needles, pins, and fasteners  | (X)            | (X)                                     | 2,364            |
|                  | Other miscellaneous receipts.....  | (X)            | 1,104                         | (X)              |                  |  |                |   |                  |
| 39610            | Listing of other industries with over \$2 million shipments of each primary product class: | (X)            | (X)                           | 11,410           |                  |  | All industries | Needles, pins, and fasteners (SIC 3964) | Other industries |
|                  | 3911 Jewelry, precious metal....   |                |                               |                  |                  |  |                |   |                  |
|                  |  | All industries | Artificial flowers (SIC 3962) | Other industries |                  |  |                |   |                  |
|                  | <b>ARTIFICIAL FLOWERS INDUSTRY</b>   |                |                               |                  |                  | <b>NEEDLES, PINS, AND FASTENERS INDUSTRY</b>   |                |   |                  |
|                  | Total shipments and receipts of the industry.....  | (X)            | 60,418                        | (X)              | 39641            | Total shipments and receipts of the industry.....  | (X)            | 337,285                                 | (X)              |
| 39620            | Feathers, plumes and artificial flowers.....   | 59,256         | 52,553                        | 6,703            | 39642            | Primary products.....  | 315,198        | 289,966                                 | 25,232           |
|                  | Secondary products.....  | (X)            | 1,828                         | (X)              | 39640            | Zipper and slide fasteners.....  | 143,230        | 142,246                                 | 984              |
|                  | Miscellaneous receipts, total.....   | (X)            | 6,037                         | (X)              |                  | Needles, pins, fasteners (except slide) and similar notions.....                           | 155,672        | 131,586                                 | 24,086           |
|                  | Sales of products bought and resold.....   | (X)            | 5,243                         | (X)              |                  | Needles, pins, and fasteners, n.s.k.   | 16,296         | 16,134                                  | 162              |
|                  | Other miscellaneous receipts.....  | (X)            | 794                           | (X)              | 3429-29630       | Secondary products.....  | (X)            | 28,892                                  | (X)              |
|                  |  |                |                               |                  |                  | Hardware, n.e.c.....   | (X)            | 6,586                                   | (X)              |
|                  |  |                |                               |                  |                  | Buttons, and parts, except of precious or semiprecious metals and stones.....              | (X)            | 2,364                                   | (X)              |
|                  |  |                |                               |                  |                  | Other secondary products.....  | (X)            | 19,942                                  | (X)              |
|                  |  |                |                               |                  | 23890            | Apparel, n.e.c.....  | (X)            | (2-5)                                   | (X)              |
|                  |  |                |                               |                  | 34618            | Other stamped and pressed metal end products.....  | (X)            | (2-5)                                   | (X)              |
|                  |  |                |                               |                  | 34990            | Fabricated metal products, n.e.c.....  | (X)            | (2-5)                                   | (X)              |
|                  |  |                |                               |                  |                  | Miscellaneous receipts, total.....   | (X)            | 18,427                                  | (X)              |
|                  | <b>BUTTONS INDUSTRY</b>  |                |                               |                  |                  | Contract and commission work.....  | (X)            | 1,432                                   | (X)              |
| 39630            | Total shipments and receipts of the industry.....  | (X)            | 81,835                        | (X)              |                  | Sales of products bought and resold.....   | (X)            | 15,243                                  | (X)              |
|                  | Buttons and parts, except of precious or semiprecious metals and stones.....               | 81,855         | 71,121                        | 10,734           | 39642            | Other miscellaneous receipts.....  | (X)            | 1,752                                   | (X)              |
| 39642            | Secondary products.....  | (X)            | 3,290                         | (X)              |                  | Listing of other industries with over \$2 million shipments of each primary product class: |                |   |                  |
|                  | Needles, pins, fasteners (except slide) and similar notions.....                           | (X)            | 2,174                         | (X)              |                  | 3963 Buttons.....  | (X)            | (X)                                     | 2,174            |
|                  | Other secondary products.....  | (X)            | 1,116                         | (X)              |                  | 3452 Bolts, nuts, rivets, and washers.....   | (X)            | (X)                                     | (5-10)           |
|                  |  |                |                               |                  |                  | 3461 Metal stampings.....  | (X)            | (X)                                     | (over 2)         |
|                  |  |                |                               |                  |                  | 3961 Costume jewelry.....  | (X)            | (X)                                     | (2-5)            |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                 |          |                 |
|--------------|---|-----------------|--|-----------------|----------|-----------------|
|              |   |                 | 1963   |                 | 1958     |                 |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 3951- --     | PENS, PEN POINTS, FOUNTAIN PENS, BALL POINT PENS, MECHANICAL PENCILS AND PARTS.....   |                 | (X)  | 177,726         | (X)      | 147,232         |
|              | Pens:   |                 |  |                 |          |                 |
|              | Fountain pens, complete (all types, except ball point): <sup>1</sup>  |                 |  |                 |          |                 |
| 39510 01     | \$1.00 each and under (retail price).....   | 1,000 units...  | 42,818   | 8,346           | 13,377   | 3,878           |
| 39510 05     | \$1.01 to \$5.00 each (retail price).....   | ...do.....      | 6,547  | 8,257           | 13,812   | 28,995          |
| 39510 06     | Over \$5.00 each (retail price).....  | ...do.....      | 2,461  | 9,478           |          |                 |
|              | Ball point type pens, complete: <sup>1</sup>  |                 |  |                 |          |                 |
| 39510 13     | \$.25 each and under (retail price).....  | ...do.....      | 505,728  | 30,622          | 297,998  | 31,478          |
| 39510 14     | \$.26 to \$.50 each (retail price).....   | ...do.....      | 168,470  | 24,645          |          |                 |
| 39510 18     | Over \$.50 each (retail price).....   | ...do.....      | 63,272   | 26,168          |          |                 |
| 39510 19     | Desk pen sets, including fountain pen type, ball point type, and inkwell reservoir (dip) type.....  | ...do.....      | 5,020  | 2,847           | 2,756    | 4,603           |
|              | Mechanical pencils: <sup>1</sup>  |                 |  |                 |          |                 |
| 39510 53     | \$.50 each and under (retail price).....  | ...do.....      | 35,747   | 5,453           | 38,823   | 5,813           |
| 39510 55     | Over \$.50 each (retail price).....   | ...do.....      | 18,172   | 9,168           | 18,435   | 9,301           |
| 39510 63     | Miscellaneous pen and mechanical pencil parts, for sale separately, such as pen holders, pen points (all types), renewal parts, etc.....  |                 | (X)  | 24,536          | (X)      | 16,321          |
| 39510 71     | Refill ink cartridges for ball point pens.....  |                 | (X)  | 20,385          | (X)      | 15,551          |
| 39510 00     | Pens, pen points, fountain pens, ball point pens, mechanical pencils and parts, n.s.k.....  |                 | (X)  | 7,821           | (X)      | 7,034           |
| 3952- --     | LEAD PENCILS, CRAYONS, AND ARTISTS' MATERIALS.....  |                 | (X)  | 107,522         | (X)      | 89,451          |
| 39521 --     | Lead pencils and crayons, total.....  |                 | (X)  | 69,155          | (X)      | 65,317          |
|              | Nonmechanical pencils, and pencil leads:  |                 |  |                 |          |                 |
|              | Pencils:  |                 |  |                 |          |                 |
| 39521 11     | Black lead.....   | 1,000 gross...  | 11,062   | 31,275          | 9,239    | 28,888          |
| 39521 15     | Other (indelible, colored, etc.).....   | ...do.....      | 1,354  | 8,998           | 1,542    | 10,724          |
| 39521 23     | Pencil leads, including refill leads for mechanical pencils, for sale separately.....   |                 | (X)  | 6,963           | (X)      | 10,820          |
| 39521 53     | Crayons, including chalk, except artists' and tailors'.....   |                 | (X)  | 21,653          | (X)      | 13,794          |
| 39521 00     | Lead pencils and crayons, n.s.k.....  |                 | (X)  | 266             | (X)      | 1,091           |
| 39522 11     | Artists' materials, including airbrushes, drawing tables and boards, palettes, sketch boxes, pantographs, artists' colors and waxes, pyrography goods, drawing inks, and materials..... |                 | (X)  | 36,424          | (X)      | 24,134          |
| 39520 00     | Lead pencils, crayons, and artists' materials, n.s.k.....   |                 | (X)  | 1,943           | (X)      | (NA)            |
| 3953- --     | HAND STAMPS, STENCILS AND OTHER MARKING DEVICES.....  |                 | (X)  | 107,102         | (X)      | 58,652          |
| 39530 11     | Rubber stamps.....  |                 | (X)  | 19,201          | (X)      | 12,305          |
| 39530 31     | Metal stamps, marking dies, and seals, including hand presses for seals and marking dies.....   |                 | (X)  | 22,345          | (X)      | 13,977          |
| 39530 41     | Felt-tipped markers.....  |                 | (X)  | 12,885          | (X)      | 17,264          |
| 39530 98     | Other marking devices, such as stencils, letters, figures and numerals, stamp pads, branding irons, etc.....  |                 | (X)  | 37,136          |          |                 |
| 39530 00     | Hand stamps, stencils, and other marking devices, n.s.k.....  |                 | (X)  | 15,535          | (X)      | 15,106          |
| 3955- --     | CARBON PAPER AND INKED RIBBONS.....   |                 | (X)  | 161,263         | (X)      | 119,112         |
|              | Inked ribbons:  |                 |  |                 |          |                 |
| 39550 11     | Typewriter (all types).....   | 1,000 doz....   | 3,481  | 23,952          | 3,040    | 19,108          |
| 39550 19     | Other inked ribbons (all types).....  | ...do.....      | 1,448  | 16,973          | 1,656    | 11,020          |
|              | Coated carbon paper (in roll and sheet):  |                 |  |                 |          |                 |
| 39550 31     | One time.....   |                 | (X)  | 36,531          | (X)      | 22,801          |
| 39550 35     | Other than one time.....  |                 | (X)  | 36,444          | (X)      | 29,013          |
|              | Stencil paper:  |                 |  |                 |          |                 |
| 39550 61     | Spirit and gelatin process master copies (include master sets)..  |                 | (X)  | 19,040          | (X)      | 18,180          |
| 39550 98     | All other, including mimeograph stencil paper.....  |                 | (X)  | 25,580          | (X)      | 14,201          |
| 39550 00     | Carbon paper and inked ribbons, n.s.k.....  |                 | (X)  | 2,743           | (X)      | 4,789           |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Value of shipments including interplant transfers (\$1,000) |                 |          |                     |
|--------------|---|---|-----------------|----------|---------------------|
|              |   | 1963  | 1958            |          |                     |
| 3961- --     | COSTUME JEWELRY AND COSTUME NOVELTIES, EXCEPT PRECIOUS METAL.....   | 256,682   | 236,250         |          |                     |
|              | Base metal, whether or not electroplated with gold, silver, chromium, etc:  |   |                 |          |                     |
| 39610 11     | Rings and ring mountings.....   | 2,065   | 4,071           |          |                     |
| 39610 21     | Men's jewelry (excluding watch attachments).....  | 33,461  | 28,434          |          |                     |
| 39610 31     | Women's and children's jewelry and costume novelties (excluding watch attachments).....   | 97,852  | 100,640         |          |                     |
| 39610 41     | Watch attachments (bracelets for watches).....  | 14,565  | 8,961           |          |                     |
| 39610 51     | Fraternal, college, and school jewelry and emblems, including military insignia (excluding rings)...                                    | 10,300  | 4,130           |          |                     |
| 39610 61     | Religious jewelry, such as rosaries, chaplets, religious medals, crosses, etc.....  | 5,531   | 4,147           |          |                     |
| 39610 71     | Other jewelry worn or carried about the person, except cigar and cigarette cases and lighters, compacts, and vanity cases.....          | 6,001   | 9,202           |          |                     |
| 39610 81     | Imitation pearls (including necklaces) made of glass, plastic or other materials.....   | 21,284  | 13,807          |          |                     |
| 39610 91     | Compacts and vanity cases, except precious metals and all leather.....  | 9,500   | 18,736          |          |                     |
| 39610 98     | Other costume jewelry and costume novelties made of plastics, wood, leather, etc.....   | 21,050  |                 |          |                     |
| 39610 00     | Costume jewelry and costume novelties, except precious metal, n.s.k.....  | 35,073  | 44,122          |          |                     |
|              |   | Total shipments including interplant transfers              |                 |          |                     |
|              |   | 1963  |                 | 1958     |                     |
| Product      |   | Quantity  | Value (\$1,000) | Quantity | Value (\$1,000)     |
|              |   | Unit of measure   |                 |          |                     |
| 39620 11     | FEATHERS, PLUMES, AND ARTIFICIAL FLOWERS (EXCEPT GLASS).....  | (X)   | 59,256          | (X)      | 59,494              |
| 3963- --     | BUTTONS.....  | (X)   | 81,855          | (X)      | 70,830              |
|              | Buttons and parts, except of precious or semiprecious metals and precious or semiprecious stones:                                       |   |                 |          |                     |
|              | Metal:  |   |                 |          |                     |
| 39630 11     | Sew-on type.....  | (NA)  | 7,980           | (NA)     | 5,825               |
| 39630 15     | Other metal buttons, including mechanically applied types, etc.....   | (NA)  | 4,622           | (NA)     | 3,272               |
|              | Plastic:  |   |                 |          |                     |
| 39630 21     | Casein and casein compound.....   | 1,000 gross...  | 3,766           | (NA)     | 4,935               |
|              | Other plastics:   |   |                 |          |                     |
| 39630 23     | Thermosetting.....  | ..do.....   | 81,214          | 57,061   | 19,655              |
| 39630 25     | Thermoplastic.....  | ..do.....   | 16,250          | (NA)     | 6,537               |
|              | Pearl or shell:   |   |                 |          |                     |
| 39630 31     | Fresh water.....  | ..do.....   | (NA)            | 2,282    | 3,184               |
| 39630 35     | Ocean.....  | ..do.....   | 456             | (NA)     | 4,733               |
| 39630 61     | Button blanks or molds, backs, and parts for sale as such.....  | (X)   | 11,038          | (X)      | 8,737               |
| 39630 98     | Other buttons, fabric covered, wood, bone, and hoof, vegetable ivory, leather, etc.....   | (X)   | 4,619           | (X)      | 4,712               |
| 39630 00     | Buttons, n.s.k.....   | (X)   | 10,639          | (X)      | 9,240               |
| 3964- --     | NEEDLES, PINS, AND FASTENERS.....   | (X)   | 315,198         | (X)      | 220,845             |
| 39641 11     | Zippers or slide fasteners (each 12 inches is one unit when sold in continuous chain).....  | Million units.  | 2,223           | 1,473    | 87,251              |
| 39642 --     | Needles, pins, fasteners (except slide), and similar notions.....   | (X)   | 155,672         | (X)      | 112,037             |
|              | Snap fasteners:   |   |                 |          |                     |
| 39642 11     | Sew-on type.....  | (NA)  | 1,035           | (NA)     | 1,023               |
| 39642 19     | Other snap fasteners (such as 4-part, riveted, or mechanically applied type, etc.).....   | (NA)  | 18,620          | (NA)     | 18,558              |
| 39642 21     | Metal buckles for wearing apparel, including those covered with fabric or other material, but excluding costume jewelry.....            | (X)   | 14,749          | (X)      | 13,070              |
| 39642 31     | Other fasteners, buckles (except shoe) and apparel trimming (hooks and eyes, rivets and burrs, trimming, plastic buckles, etc.).....    | (X)   | 28,691          | (X)      | 19,803              |
| 39642 41     | Tape (hook and eye and snap) fasteners.....   | Gross yards...  | 193,831         | 187,332  | 5,586               |
| 39642 51     | Hair curlers (except rubber, and except those designed for beauty parlor use).....  | (NA)  | 31,613          | (NA)     | 10,368              |
|              | Needles, except hypodermic, phonograph, and styli:  |   |                 |          |                     |
|              | Knitting machines:  |   |                 |          |                     |
| 39642 63     | Spring-beard.....   | Thousand.....   | -               | (X)      | ( <sup>2</sup> )    |
| 39642 61     | Latch.....  | ..do.....   | 201,428         | 13,462   | 149,673             |
| 39642 65     | Sewing machine (household and industrial dry-thread).....   |   |                 |          |                     |
| 39642 69     | Other needles, except phonograph needles and styli (including shoe machine, hand sewing, hand knitting, crocheting, darning, etc.)..... | (X)   | 8,817           | (X)      | <sup>2</sup> 10,316 |

See footnotes at end of table.

TABLE 6A. **Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued**

| Product code | Product   | Unit of measure | Total shipments including interplant transfers |                 |          |                  |
|--------------|---|-----------------|--|-----------------|----------|------------------|
|              |   |                 | 1963   |                 | 1958     |                  |
|              |   |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000)  |
|              | NEEDLES, PINS, AND FASTENERS—Continued  |                 |  |                 |          |                  |
|              | Needles, pins, fasteners (except slide), and similar notions—Con.                                       |                 |  |                 |          |                  |
|              | Pins (except jewelry):  |                 |  |                 |          |                  |
| 39642 81     | Common or toilet, including dressmakers' pins.....  | 1,000 pounds..  | 2,736  | 5,029           | 2,373    | 3,702            |
| 39642 83     | Hair pins, metal, "bobby" type.....   | do.....         | 7,134  | 7,941           | 9,369    | 12,119           |
| 39642 87     | Safety pins.....  | 1,000 gross...  | 10,765   | 3,371           | 9,161    | 2,989            |
| 39642 89     | Other pins, hat pins, glasshead pins, plastic, and metal hairpins other than metal bobby type, etc..... | .....           | (X)  | 5,177           | (X)      | 3,219            |
| 39642 00     | Needles, pins, fasteners (except slide) and similar notions, n.s.k.....                                 | .....           | (X)  | 10,182          | (X)      | ( <sup>4</sup> ) |
| 39640 00     | Needles, pins, fasteners, n.s.k.....  | .....           | (X)  | 16,296          | (X)      | 421,557          |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

<sup>1</sup>Manufacturers of fountain pens, ball point pens, and mechanical pencils classified their shipments by categories based on retail selling price. However, the reported values represent the new selling values, f.o.b. plant. New selling values exclude discounts, allowances, freight charges and excise taxes.

<sup>2</sup>In 1958, latch and spring-beard knitting machine needles are included with "other needles."

<sup>3</sup>Includes \$617 thousand of "metal hairpins, other than bobby type."

<sup>4</sup>In 1958, product code 3964200 has been included with code 3964000.

TABLE 6B. **Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958**

| Product code | Product and year  | Indexes (1954 = 100) |                  |
|--------------|---|----------------------|------------------|
|              |   | Production           | Unit value       |
| 395--        | Pens, pencils and office supplies.....1963..  | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | .....1958..   | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 3951-        | Pens, pen points, fountain pens, ball point pens, mechanical pencils and parts.....1963.. | 216                  | 63               |
|              | .....1958..   | 141                  | 83               |
| 3952-        | Lead pencils and art goods.....1963..   | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
|              | .....1958..   | ( <sup>1</sup> )     | ( <sup>1</sup> ) |
| 39521        | Lead pencils and crayons.....1963..   | 152                  | 88               |
|              | .....1958..   | 99                   | 129              |
| 3955-        | Carbon paper and inked ribbons.....1963..   | 160                  | 110              |
|              | .....1958..   | 130                  | 100              |
| 396--        | Costume jewelry and notions.....1963..  | ( <sup>2</sup> )     | ( <sup>2</sup> ) |
|              | .....1958..   | ( <sup>2</sup> )     | ( <sup>2</sup> ) |
| 3964-        | Needles, pins, and fasteners.....1963..   | 168                  | 105              |
|              | .....1958..   | 128                  | 98               |
| 39641        | Zipper or slide fasteners.....1963..  | 193                  | 100              |
|              | .....1958..   | 128                  | 92               |
| 39642        | Needles, pins, fasteners, (except slide) and similar notions.....1963..                   | 140                  | 116              |
|              | .....1958..   | 106                  | 113              |

<sup>1</sup>Not shown because comparable quantity data were not obtained for hand stamps, stencils and other marking devices (products of industry 3953) and artists' materials (product class 39522).

<sup>2</sup>Not shown because comparable quantity data were not obtained for costume jewelry and costume novelties, except precious metal (products of industry 3961), artificial flowers (products of industry 3962) and a significant portion of buttons (products of industry 3963).



**TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments, 1947, 1954, 1958 to 1963**

(In thousands of dollars)

| Code  | Product class  | 1963    | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958    | 1954    | 1947    |
|-------|--|---------|-------------------|-------------------|-------------------|-------------------|---------|---------|---------|
| 39510 | Pens, mechanical pencils, and pen points.....                                | 177,726 | 164,747           | 162,787           | 160,891           | 144,864           | 147,232 | 118,110 | 137,574 |
| 3952- | Lead pencils and art goods.....  | 107,522 | 96,847            | 100,317           | 103,463           | 97,204            | 89,451  | 76,918  | 59,521  |
| 39521 | Lead pencils and crayons.....  | 69,155  | 72,963            | 68,282            | 77,509            | 71,938            | 65,317  | 50,986  | 45,492  |
| 39522 | Artists' materials.....  | 36,424  | 23,884            | 32,035            | 25,954            | 25,266            | 24,134  | 25,932  | 14,029  |
| 39520 | Lead pencils and art goods, n.s.k.....                                       | 1,943   | -                 | -                 | -                 | -                 | -       | -       | -       |
| 39530 | Hand stamps, stencils, and other marking devices.....                        | 107,102 | 86,874            | 79,682            | 78,501            | 71,378            | 58,652  | 47,720  | 26,868  |
| 39550 | Carbon paper, stencil paper, and inked ribbons.....                          | 161,263 | 169,943           | 155,516           | 137,403           | 123,799           | 119,112 | 90,990  | 49,068  |
| 39610 | Costume jewelry and costume novelties, except precious metal.....            | 256,682 | 229,112           | 238,502           | 229,611           | 226,451           | 236,250 | 235,232 | (NA)    |
| 39620 | Feathers, plumes, and artificial flowers.....                                | 59,256  | 53,121            | 58,708            | 60,205            | 61,605            | 59,494  | 48,603  | 38,291  |
| 39630 | Buttons and parts, except of precious or semiprecious metals and stones..... | 81,855  | 76,768            | 73,595            | 73,468            | 77,530            | 70,830  | 63,983  | 57,662  |
| 3964- | Needles, pins, and fasteners.....  | 315,198 | 292,810           | 259,345           | 234,771           | 230,823           | 220,845 | 176,981 | 147,137 |
| 39641 | Zipper and slide fasteners.....  | 143,230 | 105,744           | 88,041            | 78,542            | 100,522           | 87,251  | 74,421  | 57,630  |
| 39642 | Needles, pins, fasteners (except slide), and similar notions.....            | 155,672 | 160,907           | 144,516           | 130,141           | (S)               | 112,037 | 93,877  | 82,022  |
| 39640 | Needles, pins, and fasteners, n.s.k.....                                     | 16,296  | (26,159)          | (26,788)          | (26,088)          | (S)               | 21,557  | 8,683   | 7,485   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind. (S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

**TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958**

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area | Value of shipments |        | Product class and geographic area                                    | Value of shipments |         | Product class and geographic area   | Value of shipments |        |
|-----------------------------------|--------------------|--------|--|--------------------|---------|-------------------------------------|--------------------|--------|
|                                   | 1963 <sup>1</sup>  | 1958   |  | 1963 <sup>1</sup>  | 1958    |                                     | 1963 <sup>1</sup>  | 1958   |
| LEAD PENCILS AND CRAYONS (39521)  |                    |        | NEEDLES, PINS, FASTENERS (EXCEPT SLIDE), AND SIMILAR NOTIONS (39642) |                    |         | ZIPPERS AND SLIDE FASTENERS (39641) |                    |        |
| United States, total...           | 69,155             | 65,317 | United States, total...  | 155,672            | 112,037 | United States, total...             | 143,230            | 87,251 |
| Middle Atlantic.....              | 29,646             | 22,771 | Northeast.....   | 82,018             | 60,721  | Northeast.....                      | 6,535              | (2)    |
| New York.....                     | 5,366              | 3,944  | Massachusetts.....   | 12,502             | 11,381  | Middle Atlantic.....                | 80,194             | (2)    |
| New Jersey.....                   | 9,630              | 6,954  | Connecticut.....   | 62,359             | 42,267  | New York.....                       | 53,387             | 30,459 |
| Pennsylvania.....                 | 14,650             | 11,873 | Middle Atlantic.....   | 36,236             | 30,726  | South.....                          | 52,927             | 18,241 |
| East North Central.....           | 6,213              | (2)    | New York.....  | 23,807             | 17,840  | All other divisions.....            | 3,574              | (2)    |
| West North Central.....           | 3,447              | (2)    | North Central.....   | 26,467             | (2)     |                                     |                    |        |
| South.....                        | 19,094             | (2)    | South and West.....  | 10,951             | (2)     |                                     |                    |        |
| All other divisions.....          | 10,755             | (2)    |  |                    |         |                                     |                    |        |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (2) Less than \$1 million reported.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 39521, Connecticut, Ohio, Missouri, Kansas, Georgia, Kentucky, and Tennessee; 39641, Rhode Island, Connecticut, New Jersey, Pennsylvania, Missouri, Virginia, North Carolina, South Carolina, Georgia, Mississippi, Texas, and California; 39642, Rhode Island, New Jersey, Pennsylvania, Illinois, Wisconsin, Nebraska, South Carolina, Kentucky, and California.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

TABLE 7A. Materials by Kind: 1963 and 1958

| Code  | Material  | Unit of measure | 1963     |                          |          |                          |
|---|---|-----------------|----------|--------------------------|----------|--------------------------|
|   |   |                 | Quantity | Delivered cost (\$1,000) |          |                          |
| INDUSTRY 3963.—BUTTONS                      |   |                 |          |                          |          |                          |
|   | Materials, components, parts, containers and supplies, total.....                 |                 | (X)      | 33,301                   |          |                          |
|   | Mills shapes and forms:   |                 |          |                          |          |                          |
| 331001                                      | Carbon steel.....   | Short tons..... | 1,451    | 429                      |          |                          |
| 331020                                      | Alloy steel.....  | ..do.....       | 170      | 238                      |          |                          |
| 331031                                      | Stainless steel.....  | ..do.....       | (NA)     | 330                      |          |                          |
| 335208                                      | Aluminum and aluminum-base alloy.....   |                 | (D)      | (D)                      |          |                          |
| 335003                                      | Copper and copper-base alloy.....   | 1,000 lbs.....  |          |                          |          |                          |
| 970099                                      | All other materials and components, parts, containers, and supplies consumed..... |                 | (X)      | 20,553                   |          |                          |
| 976000                                      | Materials, etc., n.s.k.....   |                 | (X)      | <sup>1</sup> 11,751      |          |                          |
| Code  | Material  | Unit of measure | 1963     |                          | 1958     |                          |
|   |   |                 | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 3964.—NEEDLES, PINS, AND FASTENERS |   |                 |          |                          |          |                          |
|   | Materials, components, parts, containers and supplies, total.....                 |                 | (X)      | 131,109                  | (X)      | 84,503                   |
|   | Mills shapes and forms:   |                 |          |                          |          |                          |
| 331001                                      | Carbon steel.....   | Short tons..... | 27,974   | 8,576                    | (NA)     | <sup>2</sup> 11,000      |
| 331020                                      | Alloy steel.....  | ..do.....       | 4,399    | 1,178                    |          |                          |
| 331031                                      | Stainless steel.....  | ..do.....       | 720      | 1,203                    |          |                          |
| 335208                                      | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....  | 11,025   | 6,707                    | (NA)     | (NA)                     |
| 335003                                      | Copper and copper-base alloy.....   | ..do.....       | 18,778   | 11,743                   | 27,829   | 14,095                   |
| 970099                                      | All other materials and components, parts, containers, and supplies consumed..... |                 | (X)      | 79,791                   | (X)      | 43,728                   |
| 976000                                      | Materials, etc., n.s.k. <sup>1</sup> .....  |                 | (X)      | 21,911                   | (X)      | 15,680                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.s.k. Not specified by kind.

<sup>1</sup>Represents (a) total cost of materials for small establishments reporting on "short forms" when separate figures for individual materials consumed were not requested and (b) total costs of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

<sup>2</sup>Represents estimates published in MC58(1)-7 (Supplement), "Selected Materials Consumed," from data collected in a supplemental survey on Form MA-131, "Consumption of Materials, Parts, Containers and Supplies During 1958." This survey was limited to large establishments in selected chemical, machinery and equipment industries and resulted in estimates which are subject to greater error than are the figures on materials consumption collected as a regular part of the census of manufactures.



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item  | Pens and mechanical pencils (SIC 3951) | Lead pencils and art goods (SIC 3952) | Marking devices (SIC 3953) | Carbon paper and inked ribbons (SIC 3955) | Costume jewelry (SIC 3961) | Artificial flowers (SIC 3962) | Buttons (SIC 3963) | Needles, pins, and fasteners (SIC 3964) |
|---|--|---------------------------------------|----------------------------|---|----------------------------|-------------------------------|--------------------|---|
| Total cost of purchased fuels and electric energy.....\$1,000..   | 1,239                                  | 1,095                                 | 781                        | 1,139                                     | 1,839                      | 645                           | 1,050              | 2,611                                   |
| Total cost of purchased fuels.....do....  | 283                                    | 461                                   | 290                        | 413                                       | 729                        | 222                           | 302                | 884                                     |
| Bituminous coal, lignite, and anthracite:   |  |                                       |                            |   |                            |                               |                    |   |
| Quantity.....1,000 short tons..   | (S)                                    | 15                                    | -                          | (S)                                       | -                          | (S)                           | (S)                | (S)                                     |
| Cost.....\$1,000..  | (S)                                    | 132                                   | -                          | (S)                                       | -                          | (S)                           | (S)                | (S)                                     |
| Coke and breeze:  |  |                                       |                            |   |                            |                               |                    |   |
| Quantity.....1,000 short tons..   | -                                      | -                                     | -                          | -   | -                          | (S)                           | -                  | (S)                                     |
| Cost.....\$1,000..  | -                                      | -                                     | -                          | -   | -                          | (S)                           | -                  | (S)                                     |
| Fuel oil (distillate and residual):   |  |                                       |                            |   |                            |                               |                    |   |
| Quantity.....1,000 barrels of 42 gallons..  | 14                                     | 58                                    | 7                          | 61  | 57                         | (S)                           | 36                 | 113                                     |
| Cost.....\$1,000..  | 73                                     | 204                                   | 29                         | 165                                       | 248                        | (S)                           | 159                | 347                                     |
| Gas (natural, manufactured, still, blast furnace, and coke oven):   |  |                                       |                            |   |                            |                               |                    |   |
| Quantity.....million cu.ft..  | 187                                    | 137                                   | 96                         | 181                                       | 62                         | (S)                           | (S)                | 405                                     |
| Cost.....\$1,000..  | 114                                    | 77                                    | 82                         | 137                                       | 57                         | (S)                           | (S)                | 230                                     |
| Other fuels.....do....  | (S)                                    | 48                                    | 179                        | (S)                                       | 424                        | 102                           | 101                | 259                                     |
| Electric energy:  |  |                                       |                            |   |                            |                               |                    |   |
| Purchased:  |  |                                       |                            |   |                            |                               |                    |   |
| Quantity.....million kw.-hrs..  | 61                                     | 42                                    | 20                         | 38  | 59                         | 23                            | 50                 | 100                                     |
| Cost.....\$1,000..  | 956                                    | 634                                   | 491                        | 726                                       | 1,110                      | 423                           | 748                | 1,727                                   |
| Generated less sold.....million kw.-hrs..   | -                                      | -                                     | -                          | -   | -                          | -                             | -                  | (S)                                     |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total.....1,000 hp.. | 38                                     | 24                                    | 13                         | 24  | 39                         | 10                            | 18                 | 56                                      |
| Prime movers, total.....do....  | (Z)                                    | 2                                     | (Z)                        | 4   | (Z)                        | (Z)                           | (Z)                | 2                                       |
| Driving generators.....do....   | (Z)                                    | 1                                     | (Z)                        | 1   | (Z)                        | -                             | -                  | 1                                       |
| Not driving generators.....do....   | -                                      | 1                                     | (Z)                        | 3   | (Z)                        | (Z)                           | (Z)                | 1                                       |
| Electric motors, total.....do....   | 38                                     | 23                                    | 12                         | 20  | 38                         | 10                            | 17                 | 54                                      |
| Driven by purchased energy.....do....   | 38                                     | 23                                    | 12                         | 20  | 38                         | 10                            | 17                 | 54                                      |
| Driven by energy generated at establishment.....do....  | -                                      | -                                     | -                          | -   | -                          | -                             | -                  | (Z)                                     |
| Aggregate horsepower per 100 production workers.....  | 470                                    | 528                                   | 286                        | 544                                       | 211                        | 227                           | 385                | 327                                     |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3952-                          | LEAD PENCILS AND ART GOODS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 144                     | 6,868          | 31,944            | 5,020              | 9,831             | 18,394          | 64,731   | 56,807                      | 121,630                      | 1,594                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 115                     | 3,619          | 15,664            | 2,705              | 5,277             | 9,964           | 34,001   | 29,504                      | 63,803                       | 708                                 |
|                                | 75-89% specialization.....  | 12                      | 1,490          | 7,947             | 1,000              | 1,990             | 3,643           | 16,953   | 11,640                      | 28,589                       | 469                                 |
| 39521                          | Lead pencils and crayons (primary product class of estab.).....                                   | 46                      | 4,966          | 22,949            | 3,678              | 7,224             | 13,235          | 46,844   | 37,124                      | 84,044                       | 1,204                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 25                      | 1,842          | 7,469             | 1,401              | 2,756             | 4,833           | 14,874   | 14,104                      | 28,894                       | 266                                 |
|                                | 75-89% specialization.....  | 12                      | 1,891          | 9,959             | 1,321              | 2,596             | 5,050           | 23,442   | 13,862                      | 37,668                       | 629                                 |
| 39522                          | Artists' materials (primary product class of estab.).....   | 63                      | 1,798          | 8,472             | 1,256              | 2,437             | 4,726           | 16,916   | 18,770                      | 35,703                       | 363                                 |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 52                      | 1,075          | 4,982             | 735                | 1,423             | 2,834           | 9,784  | 9,857                       | 19,661                       | 184                                 |
| 3964-                          | NEEDLES, PINS, AND FASTENERS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 343                     | 20,271         | 89,431            | 16,675             | 32,642            | 64,125          | 190,868  | 146,067                     | 337,285                      | 7,428                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 308                     | 15,133         | 63,325            | 12,567             | 24,450            | 46,142          | 140,429  | 110,546                     | 251,506                      | 5,454                               |
|                                | 75-89% specialization.....  | 14                      | 2,877          | 14,595            | 2,390              | 4,893             | 10,100          | 29,739   | 23,242                      | 53,173                       | 802                                 |
| 39641                          | Zipper and slide fasteners (primary product class of estab.)....                                  | 133                     | 8,908          | 36,998            | 7,367              | 14,561            | 27,008          | 79,530   | 73,057                      | 153,028                      | 2,990                               |
| 39642                          | Needles, pins, fasteners (except slide) and similar notions (primary product class of estab.).... | 109                     | 10,210         | 48,544            | 8,336              | 16,295            | 34,122          | 102,378  | 65,177                      | 167,394                      | 4,065                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 79                      | 5,989          | 27,696            | 4,908              | 9,419             | 19,576          | 59,955   | 34,324                      | 94,129                       | 2,253                               |
|                                | 75-89% specialization.....  | 14                      | 2,159          | 10,084            | 1,844              | 3,846             | 7,048           | 21,275   | 17,019                      | 38,175                       | 682                                 |



## MISCELLANEOUS MANUFACTURING INDUSTRIES

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 3981—Brooms and Brushes
- 3982—Linoleum, Asphalted-Felt-Base, and Other Hard Surface Floor Coverings, Not Elsewhere Classified
- 3983—Matches
- 3984—Candles
- 3987—Lamp Shades
- 3988—Morticians' Goods
- 3992—Furs, Dressed and Dyed
- 3993—Signs and Advertising Displays
- 3995—Umbrellas, Parasols, and Canes
- 3999—Manufacturing Industries, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 3981—BROOMS AND BRUSHES

This industry comprises establishments primarily engaged in manufacturing household, industrial, and street sweeping brooms; and brushes such as paint brushes, toothbrushes, toilet brushes, and household and industrial brushes. For a detailed list of products of industry 3981, refer to table 6A, product codes 3981113 to 3981398.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Brooms and Brushes Industry totaled \$321 million. This amount included shipments of brooms and brushes (primary products) valued at \$231 million, shipments of other products (secondary products) valued at \$27 million, and miscellaneous receipts (mainly products bought and resold) at \$63 million.

This industry's shipments of brooms and brushes represented 89 percent of its total product shipments. The industry specialization ratio in 1958 was also 89 percent. Secondary products shipped by this industry in 1963 included housefurnishings (\$8 million).

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 60 percent of the total industry shipments are represented by plants specializing in 39813, Other brushes; and 25 percent in 39812, Paint and varnish brushes.

Shipments of brooms and brushes by this industry represented 93 percent of all shipments of these products (\$248 million) by all industries. In 1958 the coverage ratio was 94 percent. Other industries shipping brooms and brushes include industry 2392, Housefurnishings, N.E.C., \$2 million.

The production index for the primary products of the industry increased to 135 in 1963 from the 1958 level of 107. The unit value index for 1963 was 101 compared to 107 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3982—LINOLEUM, ASPHALTED-FELT-BASE, AND OTHER HARD SURFACE FLOOR COVERINGS, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing linoleum, asphalted-felt-base, and other hard surface floor coverings, n.e.c. Establishments primarily engaged in manufacturing rubber floor coverings are classified in industry 3069, and cork floor and wall tile in industry 2499. For a detailed list of products of industry 3982, refer to table 6A, product codes 3982111 to 3982291.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Hard Surface Floor Coverings Industry totaled \$204 million. This amount included shipments of hard surface floor coverings (primary products) valued at \$165 million, shipments of other products (secondary products) valued at \$37 million, and miscellaneous receipts (mainly sales of products bought and resold) at \$2 million.

This industry's shipments of hard surface floor coverings represented 82 percent of its total product shipments. The industry specialization ratio in 1958 was 84 percent.

Shipments of hard surface floor coverings by this industry represented 98 percent of all shipments of these products (\$168 million) by all industries. In 1958 the coverage ratio was also 98 percent.

The production index for the primary products of the industry decreased to 95 in 1963 from the 1958 level of 98. The unit value index for 1963 was 114 compared to 100 in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3983—MATCHES

This industry comprises establishments primarily engaged in manufacturing matches, regardless of the material used. For a detailed list of products of industry 3983, refer to table 6A, product codes 3983012 to 3983061.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Match Industry totaled \$64 million. As in 1958, this consisted almost entirely of primary products (matches). Furthermore in 1963 as in 1958, this industry accounted for approximately all of the matches produced in manufacturing industries.



### 3984—CANDLES

This industry comprises establishments primarily engaged in manufacturing candles from fatty acids or from mineral and animal waxes. For a detailed list of products of industry 3984, refer to table 6A, product code 3984011.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Candle Industry totaled \$46 million. This amount included shipments of candles (primary products) valued at \$41 million, shipments of other products (secondary products) valued at \$2 million, and miscellaneous receipts (mainly products bought and resold) at \$2 million.

This industry's shipments of candles represented 95 percent of its total product shipments. The industry specialization ratio in 1958 was 94 percent.

Shipments of candles by this industry represented 94 percent of all shipments of these products (\$44 million) by all industries. In 1958 the coverage ratio was 95 percent.

### 3987—LAMP SHADES

This industry comprises establishments primarily engaged in manufacturing lamp shades of all materials, except glass (industry 3229), and metal (industry 3642). For a detailed list of products of industry 3987, refer to table 6A, product code 3987011.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Lamp Shade Industry totaled \$37 million. This amount included shipments of lamp shades (primary products) valued at \$35 million, shipments of other products (secondary products) valued at \$2 million, and miscellaneous receipts (mainly contract work on materials owned by others) at less than \$1 million.

This industry's shipments of lamp shades represented 96 percent of its total product shipments. The industry specialization ratio in 1958 was 97 percent.

Shipments of lamp shades by this industry represented 98 percent of all shipments of these products (\$36 million) by all industries. In 1958 the coverage ratio was 97 percent.

### 3988—MORTICIANS' GOODS

This industry comprises establishments primarily engaged in manufacturing caskets, coffins, burial cases, and coffin shipping cases, whether of wood or other material, except concrete (industry 3272); morticians' supplies and accessories, such as burial garments, gloves, slippers, casket linings, and embalming fluids; and morticians' paraphernalia and equipment. For a detailed list of products of industry 3988, refer to table 6A, product codes 3988111 to 3988398.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Morticians' Goods Industry totaled \$290 million. This amount included shipments of morticians' goods (primary products) valued at \$262 million, shipments of other products (secondary products) valued at \$14 million, and miscellaneous receipts (mainly products bought and resold) at \$14 million.

This industry's shipments of morticians' goods represented 95 percent of its total product shipments. The industry specialization ratio in 1958 was also 95 percent. Secondary products shipped by this industry in 1963 included surgical and medical instruments and apparatus.

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 54 percent of the total industry shipments are represented by plants specializing in 39881, Metal caskets and coffins, completely lined and trimmed; and 24 percent in 39882, Wood caskets and coffins, completely lined and trimmed.

Shipments of morticians' goods by this industry represented 98 percent of all shipments of these products (\$267 million) by all industries. In 1958 the coverage ratio was 99 percent. Other industries shipping morticians' goods include industry 3443, Boiler Shop Products.

The production index for the primary products of the industry increased to 155 in 1963 from the 1958 level of 126. The unit value index for 1963 was 105, the same level as in 1958. Both indexes were computed on a basis of 1954 = 100.

#### 3992—FURS, DRESSED AND DYED

This industry comprises establishments primarily engaged in scraping, currying, tanning, bleaching, and dyeing pelts. For a detailed list of products of industry 3992, refer to table 6A, product code 3992011.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Furs, Dressed and Dyed, Industry totaled \$42 million. This amount included shipments of furs, dressed and dyed (primary products) valued at \$41 million, shipments of other products (secondary products) valued at \$1 million, and miscellaneous receipts, at less than \$1 million.

This industry's receipts for furs, dressed and dyed, including value of receipts for work done on materials owned by others, represented 98 percent of its total product shipments. The industry specialization ratio in 1958 was 100 percent.

Shipments of furs, dressed and dyed, by this industry represented 94 percent of all shipments of these products (\$44 million) by all industries. In 1958 the coverage ratio was 100 percent. Other industries shipping furs, dressed and dyed include industry 2371, Fur Goods.

#### 3993—SIGNS AND ADVERTISING DISPLAYS

This industry comprises establishments primarily engaged in manufacturing electrical, mechanical, cutout, or plate signs and advertising displays, including neon signs and advertising novelties. Sign painting shops doing business on a custom basis are classified in service industries. Establishments primarily engaged in manufacturing electric signal equipment are classified in industry 3662, and lighting fixtures in industry 3642. For a detailed list of products of industry 3993, refer to table 6A, product codes 3993111 to 3993311.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.



Value of shipments and other receipts of the Signs and Advertising Displays Industry totaled \$647 million. This amount included shipments of signs and advertising displays (primary products) valued at \$555 million, shipments of other products (secondary products) valued at \$26 million, and miscellaneous receipts (mainly products bought and resold) at \$66 million.

This industry's shipments of signs and advertising displays represented 96 percent of its total product shipments. The industry specialization ratio in 1958 was 95 percent. Secondary products shipped by this industry in 1963 included job stampings.

While the primary products of the industry represent more than one class of product, the establishments tend to group themselves into "subindustries" represented by each of the different product classes. The extent of this specialization is indicated in table 8. Approximately 49 percent of the total industry shipments are represented by plants specializing in 39932, Nonelectric signs and advertising displays; and 28 percent in 39931, Luminous tubing and bulb signs.

Shipments of signs and advertising displays by this industry represented 95 percent of all shipments of these products (\$584 million) by all industries. In 1958 the coverage ratio was also 95 percent. Other industries shipping signs and advertising displays include industry 3079, Plastics Products, N.E.C.

#### 3995—UMBRELLAS, PARASOLS, AND CANES

This industry comprises establishments primarily engaged in manufacturing umbrellas, parasols, canes; and trimmings, frames, handles, and other parts. For a detailed list of products of industry 3995, refer to table 6A, product code 3995011.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Umbrellas, Parasols, and Canes Industry totaled \$37 million. This amount included shipments of umbrellas, parasols, and canes (primary products) valued at \$33 million, shipments of other products (secondary products) valued at \$2 million, and miscellaneous receipts (mainly products bought and resold) at \$1 million.

This industry's shipments of umbrellas, parasols, and canes represented 95 percent of its total product shipments. The industry specialization ratio in 1958 was 96 percent.

Shipments of umbrellas, parasols, and canes by this industry represented 98 percent of all shipments of these products (\$34 million) by all industries. In 1958 the coverage ratio was 95 percent.

#### 3999—MANUFACTURING INDUSTRIES, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in manufacturing miscellaneous fabricated products, including beauty shop and barber shop equipment; hair work; tobacco pipes and cigarette holders; coin-operated amusement machines; and many other articles, n.e.c. For a detailed list of products of industry 3999, refer to table 6A, product codes 3999111 to 3999398.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Miscellaneous Products, N.E.C., Industry totaled \$458 million. This amount included shipments of miscellaneous products, n.e.c.

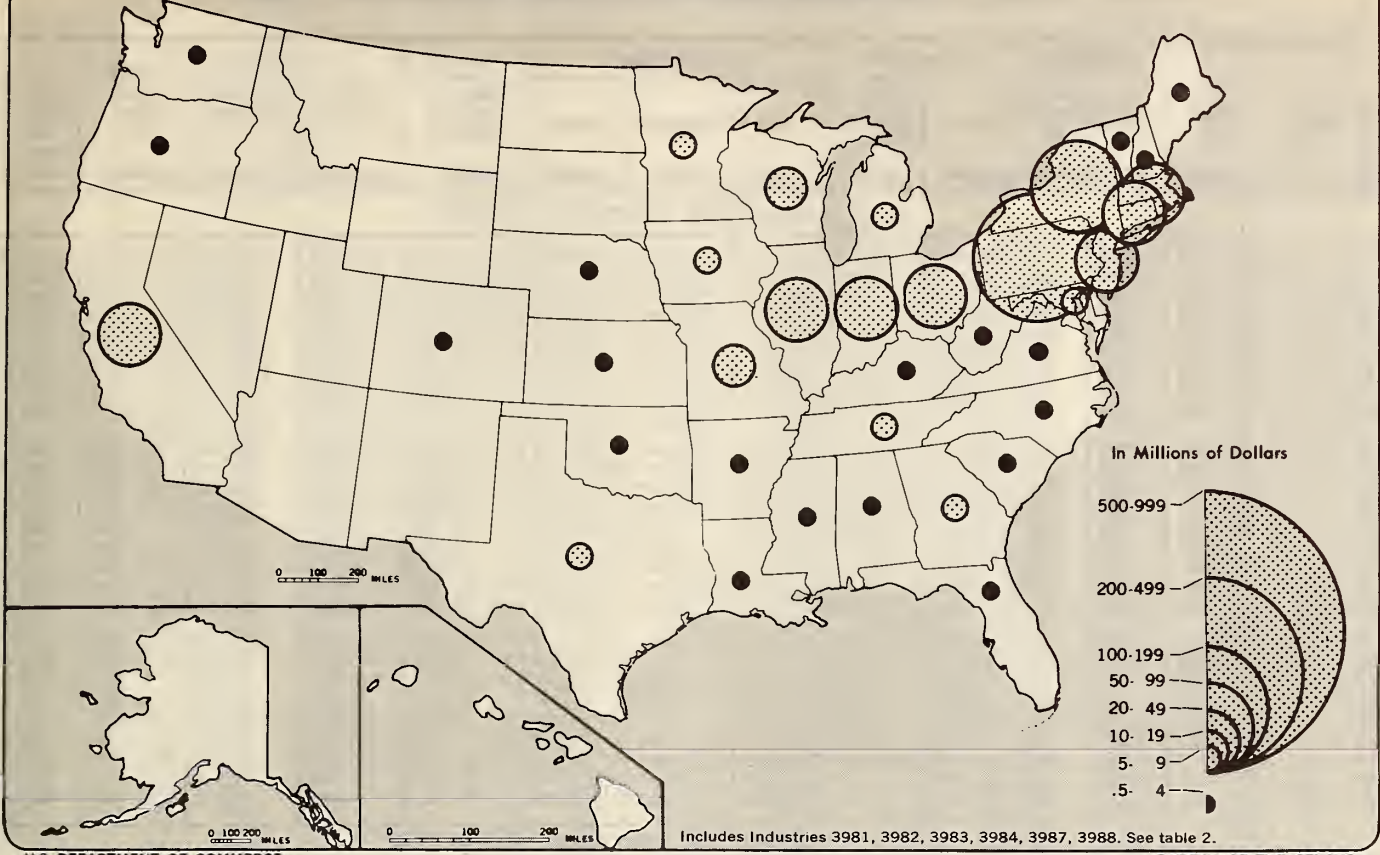
(primary products) valued at \$395 million, shipments of other products (secondary products) valued at \$27 million, and miscellaneous receipts (mainly products bought and resold) at \$36 million.

This industry's shipments of miscellaneous products, n.e.c., represented 94 percent of its total product shipments. The industry specialization ratio in 1958 was 92 percent. Secondary products shipped by this industry in 1963 included wood products, n.e.c., and precision measuring tools.

Shipments of miscellaneous products, n.e.c., by this industry represented 84 percent of all shipments of these products (\$472 million) by all industries. In 1958 the coverage ratio was 87 percent. Other industries shipping miscellaneous products, n.e.c., include industry 2844, Toilet Preparations, \$7 million.



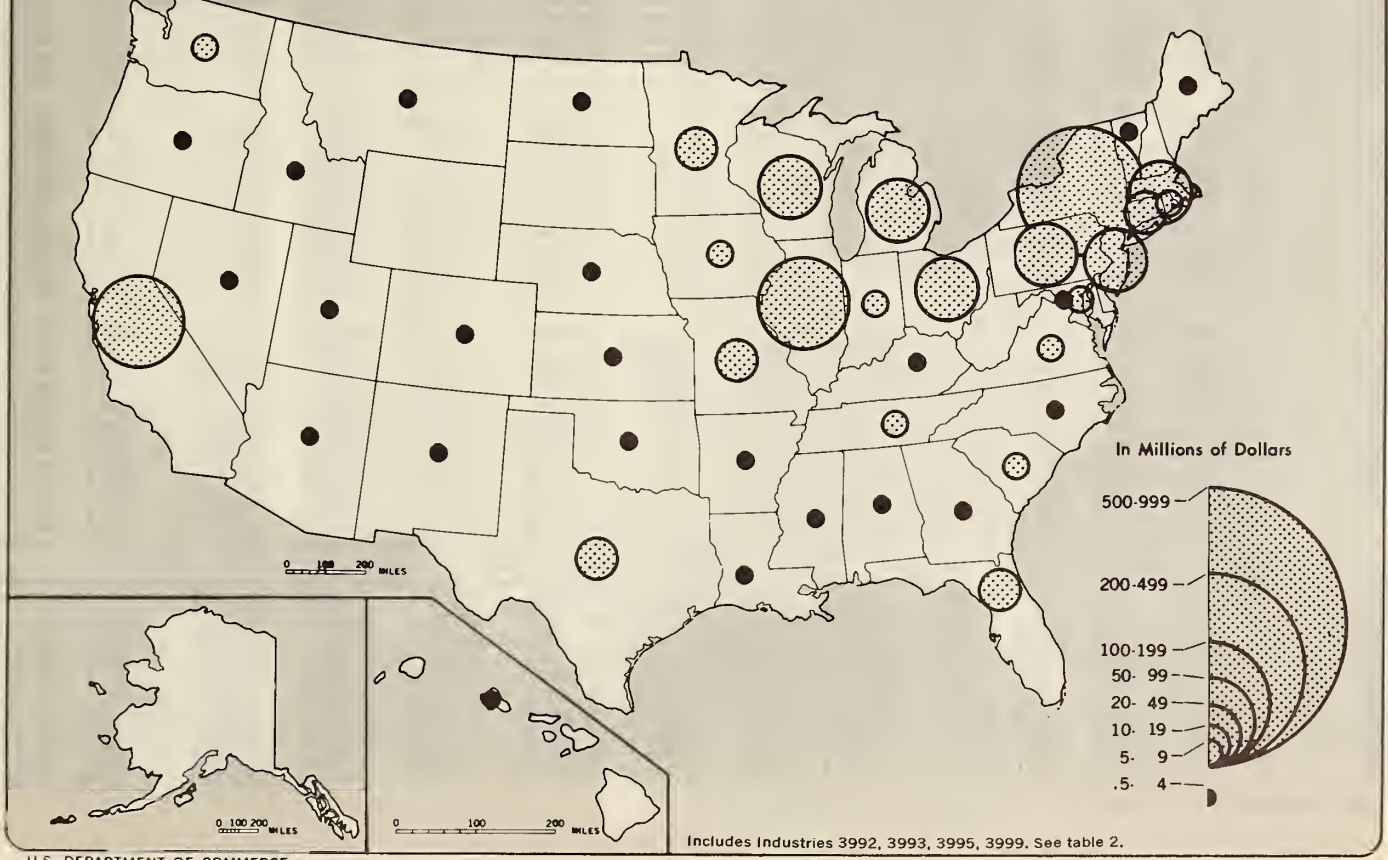
**MISCELLANEOUS MANUFACTURES: SIC 398**  
 Value Added by Manufacture by State: 1963



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

**MISCELLANEOUS MANUFACTURES: SIC 399**  
 Value Added by Manufacture by State: 1963



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics: 1963 and Earlier Years

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3981.—BROOMS AND BRUSHES           |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 628                        | 643               | 167  | 16,637            | 73,620               | 13,428             | 25,801               | 49,510             | 167,866  | 153,625                           | 321,129                            | 4,394   | 89  | 93                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 16,630            | 74,352               | 13,538             | 25,663               | 49,439             | 166,614  | 144,817                           | 306,878                            | 5,188   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 16,619            | 70,995               | 13,425             | 25,175               | 46,786             | 147,942  | 143,661                           | 292,862                            | 3,639   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 16,870            | 70,555               | 13,618             | 26,229               | 47,069             | 150,216  | 143,566                           | 291,298                            | (6,516)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 17,612            | 70,118               | 14,274             | 27,252               | 47,664             | 155,279  | 146,369                           | 298,935                            | (11,514)  | (NA)  | (NA)                                     |
| 1958.....                                   | 713                        | 723               | 179  | 17,082            | 64,573               | 13,557             | 25,601               | 42,917             | 137,496  | 137,073                           | 275,722                            | 3,981   | 89  | 94                                       |
| 1954.....                                   | 688                        | 698               | 177  | 16,826            | 54,789               | 13,534             | 25,595               | 36,294             | 102,948  | 124,013                           | 227,162                            | 3,074   | 91  | 92                                       |
| 1953 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 16,315            | 54,890               | 13,004             | 25,166               | 35,428             | 94,387   | 92,943                            | 187,330                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 17,915            | 58,166               | 14,275             | 27,182               | 38,296             | 102,763  | 106,794                           | 209,557                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 18,244            | 59,016               | 14,729             | 28,602               | 37,918             | 110,030  | 110,412                           | 220,442                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 17,383            | 50,299               | 14,371             | 27,247               | 33,419             | 95,853   | 103,559                           | 199,412                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                   | 698                        | 706               | (NA)   | 18,551            | 44,875               | 15,543             | 30,617               | 31,162             | 87,288   | 92,523                            | 179,811                            | (NA)  | 94  | 97                                       |
| 1939.....                                   | (NA)                       | 565               | (NA)   | 14,406            | 16,151               | 11,678             | (NA)                 | 10,746             | 29,002   | 31,307                            | 60,309                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                   | (NA)                       | 532               | (NA)   | 13,544            | 13,446               | 11,982             | (NA)                 | 10,155             | 25,753   | 30,411                            | 56,164                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                   | (NA)                       | 598               | (NA)   | 12,745            | 12,947               | 10,976             | (NA)                 | 9,079              | 30,058   | 26,372                            | 56,430                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....                                   | (NA)                       | 481               | (NA)   | 10,660            | 8,631                | 9,566              | (NA)                 | 6,932              | 16,848   | 16,801                            | 33,649                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....                                   | (NA)                       | 598               | (NA)   | (NA)              | (NA)                 | 9,977              | (NA)                 | 9,318              | 23,470   | 20,492                            | 43,962                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....                                   | (NA)                       | 710               | (NA)   | 13,775            | 17,469               | 11,803             | (NA)                 | 12,132             | 33,380   | 31,336                            | 64,716                             | (NA)  | (NA)  | (NA)                                     |
| 1927.....                                   | (NA)                       | 696               | (NA)   | 14,257            | 17,428               | 12,123             | (NA)                 | 12,519             | 34,560   | 31,729                            | 66,289                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....                                   | (NA)                       | 723               | (NA)   | 14,974            | 18,155               | 12,561             | (NA)                 | 13,106             | 34,303   | 33,235                            | 67,538                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....                                   | (NA)                       | 750               | (NA)   | 15,991            | 18,727               | 13,449             | (NA)                 | 13,690             | 36,271   | 40,502                            | 76,773                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....                                   | (NA)                       | 736               | (NA)   | 12,785            | 14,311               | 10,762             | (NA)                 | 10,287             | 24,651   | 29,082                            | 53,733                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....                                   | (NA)                       | 1,413             | (NA)   | 16,985            | 18,417               | 14,281             | (NA)                 | 12,822             | 32,248   | 36,963                            | 69,211                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....                                   | (NA)                       | 1,227             | (NA)   | 14,780            | 8,386                | 12,855             | (NA)                 | 6,085              | 14,769   | 17,210                            | 31,979                             | (NA)  | (NA)  | (NA)                                     |
| 1909.....                                   | (NA)                       | 1,282             | (NA)   | 13,692            | 7,065                | 12,153             | (NA)                 | 5,404              | 15,578   | 15,578                            | 29,126                             | (NA)  | (NA)  | (NA)                                     |
| 1904.....                                   | (NA)                       | 1,316             | (NA)   | 12,407            | 5,305                | 11,425             | (NA)                 | 4,380              | 10,105   | 10,999                            | 21,104                             | (NA)  | (NA)  | (NA)                                     |
| 1899.....                                   | (NA)                       | 1,523             | (NA)   | 11,246            | 4,545                | 10,346             | (NA)                 | 3,788              | 8,940  | 9,544                             | 18,484                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3982.—HARD SURFACE FLOOR COVERINGS |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 13                         | 16                | 13   | 6,192             | 38,965               | 4,958              | 10,099               | 29,488             | 118,832  | 80,721                            | 204,112                            | 4,441   | 82  | 98                                       |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 6,446             | 39,386               | 5,282              | 10,952               | 30,599             | 110,738  | 82,779                            | 191,265                            | 4,959   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 6,569             | 38,168               | 5,298              | 10,845               | 29,390             | 96,857   | 79,458                            | 179,708                            | 5,651   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 7,086             | 39,732               | 5,815              | 11,825               | 31,107             | 96,141   | 83,894                            | 183,847                            | 7,845   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 8,042             | 44,768               | 6,788              | 14,260               | 36,330             | 110,892  | 97,464                            | 206,520                            | (9,515)   | (NA)  | (NA)                                     |
| 1958.....                                   | 10                         | 14                | 14   | 7,999             | 41,924               | 6,722              | 14,034               | 34,113             | 93,145   | 87,138                            | 181,584                            | 5,443   | 84  | 98                                       |
| 1957 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 8,736             | 43,386               | 7,433              | 14,939               | 35,254             | 97,035   | 77,487                            | 176,100                            | 12,034  | 81  | 97                                       |
| 1956 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 9,378             | 45,831               | 8,079              | 16,804               | 37,716             | 105,217  | 86,315                            | 190,205                            | 6,635   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 9,991             | 47,543               | 8,661              | 18,420               | 39,637             | 111,576  | 93,971                            | 203,510                            | 6,294   | (NA)  | (NA)                                     |
| 1954.....                                   | 10                         | 16                | 16   | 9,638             | 43,596               | 8,242              | 17,382               | 35,918             | 103,265  | 79,298                            | 187,304                            | 6,352   | 85  | 97                                       |
| 1953 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 10,374            | 43,938               | 9,064              | 18,798               | 37,701             | 95,529   | 91,717                            | 187,246                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 10,834            | 45,463               | 9,616              | 20,557               | 39,290             | 90,342   | 100,332                           | 189,461                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 11,272            | 43,872               | 9,980              | 21,604               | 37,751             | 78,877   | 102,142                           | 179,806                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 11,761            | 42,715               | 10,530             | 22,706               | 36,866             | 99,308   | 98,142                            | 196,237                            | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 11,327            | 40,617               | 10,227             | 22,016               | 35,329             | 80,591   | 94,037                            | 173,695                            | (NA)  | (NA)  | (NA)                                     |
| 1947.....                                   | 14                         | 18                | 18   | 9,928             | 31,571               | 8,764              | 20,267               | 26,796             | 82,548   | 92,788                            | 173,255                            | (NA)  | 91  | 100                                      |
| 1939.....                                   | (NA)                       | 17                | (NA)   | 8,301             | 13,505               | 7,028              | (NA)                 | 10,406             | 41,506   | 28,369                            | 69,875                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....                                   | (NA)                       | 16                | (NA)   | 8,833             | 13,051               | 8,107              | (NA)                 | 11,378             | 36,276   | 32,908                            | 69,184                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....                                   | (NA)                       | 16                | (NA)   | 6,895             | 9,350                | 6,410              | (NA)                 | 8,105              | 28,456   | 23,942                            | 52,398                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....                                   | (NA)                       | 18                | (NA)   | 5,494             | 6,220                | 5,092              | (NA)                 | 5,347              | 25,492   | 16,320                            | 41,812                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....                                   | (NA)                       | 21                | (NA)   | (NA)              | (NA)                 | 4,841              | (NA)                 | 6,329              | 25,960   | 10,117                            | 42,977                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....                                   | (NA)                       | 21                | (NA)   | 9,647             | 15,656               | 7,889              | (NA)                 | 12,061             | 47,371   | 41,768                            | 89,139                             | 89,139  | (NA)  | (NA)                                     |
| 1927.....                                   | (NA)                       | 19                | (NA)   | 8,980             | 14,443               | 7,806              | (NA)                 | 11,871             | 41,141   | 40,402                            | 81,543                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....                                   | (NA)                       | 17                | (NA)   | 8,153             | 11,655               | 7,336              | (NA)                 | 9,730              | 42,635   | 34,897                            | 77,532                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....                                   | (NA)                       | 16                | (NA)   | 9,331             | 13,787               | 7,943              | (NA)                 | 10,579             | 41,390   | 36,417                            | 77,807                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....                                   | (NA)                       | 19                | (NA)   | 6,697             | 10,867               | 5,693              | (NA)                 | 7,208              | 22,987   | 25,635                            | 48,622                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....                                   | (NA)                       | 21                | (NA)   | 6,251             | 8,298                | 5,414              | (NA)                 | 6,518              | 22,304   | 30,369                            | 52,673                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....                                   | (NA)                       | 18                | (NA)   | 4,795             | 3,205                | 4,428              | (NA)                 | 2,604              | 6,350  | 11,252                            | 17,602                             | (NA)  | (NA)  | (NA)                                     |
| 1909.....                                   | (NA)                       | 19                | (NA)   | 4,462             | 2,750                | 4,225              | (NA)                 | 2,309              | 5,668  | 10,145                            | 15,813                             | (NA)  | (NA)  | (NA)                                     |
| 1904.....                                   | (NA)                       | 16                | (NA)   | 3,538             | 2,020                | 3,355              | (NA)                 | 1,720              | 3,609  | 6,779                             | 10,388                             | (NA)  | (NA)  | (NA)                                     |
| 1899.....                                   | (NA)                       | 18                | (NA)   | 2,823             | 1,521                | 2,718              | (NA)                 | 1,327              | 2,954  | 4,853                             | 7,807                              | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3983.—MATCHES                      |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....                                   | 18                         | 26                | 23   | 4,647             | 21,659               | 3,988              | 7,790                | 17,268             | 38,666   | 24,850                            | 64,131                             | 1,876   | 95-100  | 95-100                                   |
| 1962 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 4,804             | 21,568               | 4,111              | 7,984                | 17,279             | 38,776   | 25,127                            | 63,458                             | 3,243   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 4,940             | 21,953               | 4,230              | 8,394                | 17,437             | 36,491   | 26,276                            | 62,551                             | 1,579   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 5,213             | 22,292               | 4,507              | 9,351                | 17,736             | 44,147   | 27,311                            | 71,137                             | 1,159   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 5,415             | 22,983               | 4,649              | 9,472                | 17,972             | 44,984   | 28,458                            | 74,105                             | (1,391)   | (NA)  | (NA)                                     |
| 1958.....                                   | 18                         | 23                | 20   | 5,127             | 21,097               | 4,350              | 8,505                | 16,400             | 41,776   | 26,332                            | 67,018                             | 942   | (D)   | (D)                                      |
| 1957 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 5,318             | 21,450               | 4,522              | 9,250                | 16,567             | 36,602   | 25,674                            | 65,534                             | 1,162   | 100   | 98                                       |
| 1956 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 3,994             | 23,225               | 5,053              | 10,248               | 17,661             | 37,116   | 27,917                            | 64,662                             | 1,451   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                     | (NA)                       | (NA)              | (NA)   | 6,360             | 22,979               | 5,433              | 10,806               | 17,799             | 37,756   | 27,005                            | 63,865                             | (S)   | (NA)  | (NA)                                     |
| 1954.....                                   | 14                         | 20                | 20   | 6,191             | 21,308               | 5,147              | 10,290               | 15,945             | 35,561   | 25,343                            | 60,765                             | 846   | 100   | 98                                       |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year                             | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|----------------------------------|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|                                  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3983.—MATCHES—Continued |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1953 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 5,792             | 18,125               | 4,993              | 10,241               | 14,554             | 29,310   | 23,606                            | 52,916                             | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 5,986             | 19,947               | 4,882              | 10,209               | 15,237             | 38,534   | 28,773                            | 67,307                             | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 7,217             | 20,388               | 6,158              | 12,096               | 16,098             | 34,203   | 32,108                            | 66,311                             | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 7,246             | 20,098               | 6,159              | 12,496               | 15,777             | 38,338   | 27,462                            | 65,800                             | (NA)  | (NA)  | (NA)                                     |
| 1947                             | 18                         | 29                | (NA)   | 7,350             | 16,422               | 6,612              | 13,724               | 13,406             | 31,302   | 25,355                            | 56,657                             | (NA)  | 100   | 100                                      |
| 1939                             | (NA)                       | 28                | (NA)   | 5,940             | 6,708                | 5,426              | (NA)                 | 5,598              | 11,479   | 14,098                            | 25,577                             | (NA)  | (NA)  | (NA)                                     |
| 1937                             | (NA)                       | 25                | (NA)   | 5,693             | 6,268                | 5,261              | (NA)                 | 5,392              | 10,688   | <sup>2</sup> 20,214               | <sup>2</sup> 30,902                | (NA)  | (NA)  | (NA)                                     |
| 1935                             | (NA)                       | 24                | (NA)   | 5,495             | 5,492                | 5,075              | (NA)                 | 4,693              | 11,401   | <sup>2</sup> 19,039               | <sup>2</sup> 30,440                | (NA)  | (NA)  | (NA)                                     |
| 1933                             | (NA)                       | 18                | (NA)   | 4,987             | 4,510                | 4,726              | (NA)                 | 4,037              | 14,694   | 11,679                            | 26,373                             | (NA)  | (NA)  | (NA)                                     |
| 1931                             | (NA)                       | 19                | (NA)   | (NA)              | (NA)                 | 3,369              | (NA)                 | 3,493              | 7,598  | 10,875                            | 18,473                             | (NA)  | (NA)  | (NA)                                     |
| 1929                             | (NA)                       | 21                | (NA)   | 4,121             | 4,920                | 3,760              | (NA)                 | 4,118              | 7,825  | 12,526                            | 20,351                             | (NA)  | (NA)  | (NA)                                     |
| 1927                             | (NA)                       | 19                | (NA)   | 4,181             | 4,688                | 3,905              | (NA)                 | 4,131              | 13,022   | 11,884                            | 24,906                             | (NA)  | (NA)  | (NA)                                     |
| 1925                             | (NA)                       | 25                | (NA)   | 4,939             | 5,406                | 4,627              | (NA)                 | 4,707              | 10,828   | 12,913                            | 23,741                             | (NA)  | (NA)  | (NA)                                     |
| 1923                             | (NA)                       | 22                | (NA)   | 5,173             | 5,409                | 4,712              | (NA)                 | 4,425              | 12,154   | 11,786                            | 23,940                             | (NA)  | (NA)  | (NA)                                     |
| 1921                             | (NA)                       | 22                | (NA)   | 5,802             | 6,233                | 4,539              | (NA)                 | 4,280              | 17,034   | 13,240                            | 30,274                             | (NA)  | (NA)  | (NA)                                     |
| 1919                             | (NA)                       | 21                | (NA)   | 5,123             | 4,866                | 3,726              | (NA)                 | 3,060              | 11,643   | 6,853                             | 18,496                             | (NA)  | (NA)  | (NA)                                     |
| 1914                             | (NA)                       | 20                | (NA)   | 4,542             | 2,811                | 3,800              | (NA)                 | 1,758              | 7,354  | 5,202                             | 12,556                             | (NA)  | (NA)  | (NA)                                     |
| 1909                             | (NA)                       | 26                | (NA)   | 4,174             | 2,113                | 3,631              | (NA)                 | 1,390              | 6,754  | 4,599                             | 11,353                             | (NA)  | (NA)  | (NA)                                     |
| 1904                             | (NA)                       | 23                | (NA)   | 3,361             | 1,279                | 3,185              | (NA)                 | 1,101              | 2,362  | 3,285                             | 5,647                              | (NA)  | (NA)  | (NA)                                     |
| 1899                             | (NA)                       | 22                | (NA)   | 2,113             | 700                  | 2,047              | (NA)                 | 613                | 2,585  | 3,421                             | 6,006                              | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3984.—CANDLES           |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963                             | 108                        | 111               | 32   | 3,167             | 13,225               | 2,375              | 4,553                | 7,884              | 26,306   | 19,886                            | 45,515                             | 773   | 95  | 94                                       |
| 1962 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 2,829             | 11,124               | 2,101              | 3,909                | 6,486              | 21,304   | 17,839                            | 39,298                             | 449   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 2,778             | 10,547               | 2,094              | 3,898                | 6,235              | 20,499   | 17,488                            | 37,859                             | 550   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 2,725             | 10,341               | 2,053              | 3,859                | 6,082              | 19,874   | 17,400                            | 37,137                             | 404   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 2,631             | 9,781                | 1,977              | 3,704                | 5,726              | 18,724   | 16,357                            | 35,093                             | (347)   | (NA)  | (NA)                                     |
| 1958                             | 85                         | 86                | 25   | 2,516             | 9,268                | 1,877              | 3,572                | 5,411              | 17,668   | 15,683                            | 33,802                             | 482   | 94  | 95                                       |
| 1957 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 2,987             | 10,076               | 2,252              | 4,798                | 6,400              | 18,557   | 14,390                            | 32,388                             | (S)   | (NA)  | (NA)                                     |
| 1956 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 3,079             | 9,920                | 2,356              | 4,854                | 6,329              | 17,516   | 14,140                            | 31,103                             | 694   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 2,986             | 9,555                | 2,284              | 4,690                | 6,093              | 16,320   | 13,594                            | 29,547                             | (S)   | (NA)  | (NA)                                     |
| 1954                             | 88                         | 89                | 23   | 3,010             | 9,420                | 2,289              | 4,716                | 6,112              | 17,012   | 13,577                            | 30,437                             | 822   | 87  | 93                                       |
| 1951 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 1,988             | 6,062                | 1,525              | 3,015                | 3,542              | 10,367   | 9,797                             | 20,164                             | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 2,127             | 5,648                | 1,602              | 3,313                | 3,400              | 9,681  | 8,027                             | 17,708                             | (NA)  | (NA)  | (NA)                                     |
| 1949 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 2,075             | 5,258                | 1,568              | 3,179                | 2,970              | 8,984  | 7,600                             | 16,584                             | (NA)  | (NA)  | 87                                       |
| 1947                             | 54                         | 54                | (NA)   | 2,405             | 5,596                | 1,933              | 3,972                | 3,704              | 8,911  | 8,995                             | 17,906                             | (NA)  | (NA)  | (NA)                                     |
| 1939                             | (NA)                       | 28                | (NA)   | 1,188             | 1,752                | 840                | (NA)                 | 817                | 2,991  | 3,338                             | 6,329                              | (NA)  | (NA)  | (NA)                                     |
| 1937                             | (NA)                       | 22                | (NA)   | 903               | 1,134                | 725                | (NA)                 | 686                | 2,728  | 2,624                             | 5,352                              | (NA)  | (NA)  | (NA)                                     |
| 1935                             | (NA)                       | 23                | (NA)   | 900               | 1,076                | 713                | (NA)                 | 599                | 2,334  | 2,400                             | 4,734                              | (NA)  | (NA)  | (NA)                                     |
| 1933                             | (NA)                       | 19                | (NA)   | 811               | 746                  | 673                | (NA)                 | 561                | 2,284  | 1,844                             | 4,128                              | (NA)  | (NA)  | (NA)                                     |
| 1931                             | (NA)                       | 23                | (NA)   | (NA)              | (NA)                 | 713                | (NA)                 | 711                | 2,915  | 2,481                             | 5,396                              | (NA)  | (NA)  | (NA)                                     |
| 1929                             | (NA)                       | 20                | (NA)   | 937               | 1,425                | 781                | (NA)                 | 923                | 3,435  | 3,251                             | 6,686                              | (NA)  | (NA)  | (NA)                                     |
| 1927                             | (NA)                       | 17                | (NA)   | 921               | 1,404                | 709                | (NA)                 | 761                | 3,392  | 2,959                             | 6,351                              | (NA)  | (NA)  | (NA)                                     |
| 1925                             | (NA)                       | 20                | (NA)   | 827               | 1,207                | 626                | (NA)                 | 673                | 2,328  | 2,786                             | 5,114                              | (NA)  | (NA)  | (NA)                                     |
| 1923                             | (NA)                       | 21                | (NA)   | 889               | 1,081                | 746                | (NA)                 | 754                | 2,687  | 2,393                             | 5,080                              | (NA)  | (NA)  | (NA)                                     |
| 1921                             | (NA)                       | 20                | (NA)   | 707               | 848                  | 609                | (NA)                 | 590                | 1,686  | 2,091                             | 3,777                              | (NA)  | (NA)  | (NA)                                     |
| 1919                             | (NA)                       | 19                | (NA)   | 653               | 725                  | 541                | (NA)                 | 438                | 1,172  | 2,179                             | 3,351                              | (NA)  | (NA)  | (NA)                                     |
| 1914                             | (NA)                       | 15                | (NA)   | 478               | 356                  | 387                | (NA)                 | 183                | 612  | 1,119                             | 1,731                              | (NA)  | (NA)  | (NA)                                     |
| 1909                             | (NA)                       | 16                | (NA)   | 642               | 408                  | 539                | (NA)                 | 246                | 955  | 2,176                             | 3,131                              | (NA)  | (NA)  | (NA)                                     |
| 1904                             | (NA)                       | 17                | (NA)   | 905               | 428                  | 816                | (NA)                 | 294                | 978  | 2,911                             | 3,889                              | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3987.—LAMP SHADES       |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963                             | 227                        | 228               | 48   | 3,583             | 12,775               | 3,160              | 6,002                | 9,907              | 20,476   | 17,116                            | 37,485                             | 530   | 96  | 98                                       |
| 1962 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 4,413             | 14,611               | 3,965              | 7,825                | 12,203             | 18,449   | 16,474                            | 35,143                             | (2,332)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 4,381             | 14,061               | 3,980              | 7,872                | 11,736             | 17,909   | 14,930                            | 32,847                             | (2,658)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 4,323             | 12,869               | 3,925              | 7,637                | 10,538             | 18,343   | 14,367                            | 32,670                             | (2,920)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 4,379             | 12,343               | 3,929              | 7,023                | 10,038             | 22,029   | 18,514                            | 40,518                             | (3,809)   | (NA)  | (NA)                                     |
| 1958                             | 263                        | 270               | 50   | 3,895             | 11,401               | 3,434              | 6,439                | 9,185              | 18,577   | 15,282                            | 34,066                             | 1,237   | 97  | 97                                       |
| 1954                             | 323                        | 325               | 69   | 5,025             | 12,542               | 4,524              | 8,394                | 9,957              | 21,643   | 17,486                            | 39,137                             | (Z)   | 93  | 96                                       |
| 1947                             | 291                        | 291               | (NA)   | 4,488             | 8,473                | 4,100              | 8,275                | 7,043              | 14,668   | 12,831                            | 27,499                             | (NA)  | 93  | 93                                       |
| 1939                             | (NA)                       | (NA)              | (NA)   | 3,105             | 2,474                | 2,671              | (NA)                 | 1,715              | 3,991  | 4,385                             | 8,376                              | (NA)  | (NA)  | (NA)                                     |
| 1937 <sup>3</sup>                | (NA)                       | 121               | (NA)   | (NA)              | (NA)                 | 2,819              | (NA)                 | 1,821              | 4,050  | 4,192                             | 8,242                              | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3988.—MORTICIANS' GOODS |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963                             | 581                        | 617               | 224  | 17,283            | 86,218               | 13,545             | 27,507               | 58,447             | 158,422  | 132,720                           | 290,036                            | 5,455   | 95  | 98                                       |
| 1962 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 16,994            | 82,103               | 13,619             | 29,310               | 54,773             | 150,881  | 128,434                           | 280,323                            | (14,081)  | (NA)  | (NA)                                     |
| 1961 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 16,971            | 79,745               | 13,495             | 28,827               | 53,226             | 145,810  | 120,950                           | 264,067                            | (12,527)  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 17,398            | 78,546               | 13,787             | 29,386               | 53,621             | 145,555  | 118,231                           | 260,872                            | (12,418)  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup>                | (NA)                       | (NA)              | (NA)   | 16,807            | 75,434               | 13,354             | 27,443               | 51,057             | 130,766  | 113,412                           | 245,248                            | (10,857)  | (NA)  | (NA)                                     |
| 1958                             | 562                        | 592               | 219  | 17,362            | 73,736               | 13,805             | 27,760               | 50,604             | 128,879  | 109,907                           | 237,773                            | 5,754   | 95  | 99                                       |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Companies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|-----------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|---|-----------------------------------|------------------------------------|---|---|--|
|   |                       | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |   |                                   |                                    |   |   |  |
| INDUSTRY 3988.—MORTICIANS' GOODS—Continued    |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1957 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 17,129            | 67,408               | 13,596             | 28,105               | 47,284             | 121,817   | 95,924                            | 217,447                            | 3,582   | 94  | 98                                       |
| 1956 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 16,754            | 63,955               | 13,224             | 26,434               | 44,110             | 112,311   | 86,291                            | 197,171                            | 2,859   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 16,091            | 58,551               | 12,765             | 24,912               | 39,891             | 102,183   | 74,143                            | 176,299                            | 2,144   | (NA)  | (NA)                                     |
| 1954  | 541                   | 563               | 217  | 16,729            | 59,233               | 13,302             | 26,499               | 40,001             | 95,369  | 82,226                            | 177,287                            | 2,846   | 97  | 97                                       |
| 1953 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 17,702            | 61,159               | 14,550             | 29,670               | 43,470             | 101,713   | 81,177                            | 182,890                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 16,481            | 51,580               | 13,468             | 25,965               | 37,060             | 83,894  | 87,574                            | 171,468                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 17,252            | 55,517               | 14,007             | 29,317               | 39,148             | 91,544  | 103,124                           | 194,668                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 17,053            | 49,152               | 14,088             | 28,689               | 34,853             | 74,943  | 88,597                            | 163,540                            | (NA)  | (NA)  | (NA)                                     |
| 1947  | 525                   | 568               | (NA)   | 22,375            | 60,002               | 18,242             | 38,987               | 42,388             | 92,395  | 96,434                            | 188,829                            | (NA)  | 90  | 97                                       |
| 1939  | (NA)                  | 599               | (NA)   | 16,615            | 23,007               | 12,447             | (NA)                 | 13,392             | 38,941  | 31,862                            | (NA)                               | (NA)  | (NA)  | (NA)                                     |
| 1937  | (NA)                  | 521               | (NA)   | 16,093            | 20,949               | 13,678             | (NA)                 | 15,120             | 38,129  | 33,628                            | 71,757                             | (NA)  | (NA)  | (NA)                                     |
| 1935  | (NA)                  | 548               | (NA)   | 16,126            | 19,534               | 13,779             | (NA)                 | 13,817             | 36,174  | 29,479                            | 65,653                             | (NA)  | (NA)  | (NA)                                     |
| 1933  | (NA)                  | 396               | (NA)   | 13,857            | 14,948               | 12,155             | (NA)                 | 11,837             | 33,066  | 25,674                            | 58,740                             | (NA)  | (NA)  | (NA)                                     |
| 1931  | (NA)                  | 399               | (NA)   | (NA)              | (NA)                 | 11,932             | (NA)                 | 14,225             | 41,291  | 28,519                            | 69,810                             | (NA)  | (NA)  | (NA)                                     |
| 1929  | (NA)                  | 414               | (NA)   | 15,206            | 22,887               | 13,033             | (NA)                 | 16,411             | 48,932  | 39,550                            | 88,282                             | (NA)  | (NA)  | (NA)                                     |
| 1927  | (NA)                  | 340               | (NA)   | 13,709            | 20,070               | 11,665             | (NA)                 | 14,421             | 41,564  | 33,327                            | 74,891                             | (NA)  | (NA)  | (NA)                                     |
| 1925 <sup>4</sup>                             | (NA)                  | 326               | (NA)   | 13,385            | 19,052               | 11,479             | (NA)                 | 14,057             | 37,642  | 32,771                            | 70,413                             | (NA)  | (NA)  | (NA)                                     |
| 1923  | (NA)                  | 327               | (NA)   | 13,732            | 18,576               | 11,593             | (NA)                 | 13,334             | 34,017  | 31,541                            | 65,558                             | (NA)  | (NA)  | (NA)                                     |
| 1921  | (NA)                  | 314               | (NA)   | 11,799            | 15,066               | 9,956              | (NA)                 | 10,586             | 27,779  | 27,017                            | 54,796                             | (NA)  | (NA)  | (NA)                                     |
| 1919  | (NA)                  | 351               | (NA)   | 14,321            | 17,282               | 11,890             | (NA)                 | 11,451             | 32,782  | 31,595                            | 64,377                             | (NA)  | (NA)  | (NA)                                     |
| 1914  | (NA)                  | 287               | (NA)   | 11,332            | 7,894                | 9,468              | (NA)                 | 5,383              | 13,068  | 13,257                            | 26,325                             | (NA)  | (NA)  | (NA)                                     |
| 1909  | (NA)                  | 284               | (NA)   | 11,287            | 7,044                | 9,339              | (NA)                 | 4,633              | 12,562  | 11,964                            | 24,526                             | (NA)  | (NA)  | (NA)                                     |
| 1904  | (NA)                  | 239               | (NA)   | 9,629             | 5,465                | 8,468              | (NA)                 | 4,120              | 10,765  | 9,501                             | 20,266                             | (NA)  | (NA)  | (NA)                                     |
| 1899  | (NA)                  | 217               | (NA)   | 7,788             | 4,101                | 6,840              | (NA)                 | 3,077              | 7,007   | 6,945                             | 13,952                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3992.—FURS, DRESSED AND DYED         |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1963  | 130                   | 132               | 26   | 2,577             | 20,092               | 2,129              | 4,113                | 16,383             | 30,240  | 12,094                            | 42,007                             | 227   | 98  | 94                                       |
| 1962 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 2,356             | 16,000               | 1,910              | 3,167                | 12,748             | 25,683  | 7,007                             | 32,205                             | (Z)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 2,179             | 13,837               | 1,766              | 2,857                | 10,956             | 21,598  | 5,845                             | 27,099                             | (Z)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 2,372             | 13,655               | 1,944              | 3,406                | 10,944             | 22,467  | 5,628                             | 28,145                             | (Z)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 2,636             | 15,837               | 2,198              | 3,695                | 13,268             | 24,524  | 5,738                             | 30,210                             | (S)   | (NA)  | (NA)                                     |
| 1958  | 135                   | 137               | 31   | 2,696             | 16,231               | 2,260              | 3,924                | 13,108             | 24,112  | 5,269                             | 29,152                             | (Z)   | 100   | 100                                      |
| 1954  | 158                   | 160               | 35   | 3,459             | 16,420               | 3,005              | 4,822                | 13,108             | 24,005  | 5,271                             | 29,199                             | (Z)   | (S)   | (S)                                      |
| 1952 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 7,332             | 28,574               | 6,414              | 11,168               | 23,252             | 41,696  | 10,297                            | 51,993                             | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 7,338             | 25,221               | 6,344              | 10,948               | 20,076             | 38,559  | 9,962                             | 48,521                             | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 6,630             | 22,409               | 5,897              | 9,620                | 16,706             | 34,295  | 9,002                             | 43,297                             | (NA)  | (NA)  | (NA)                                     |
| 1947  | 171                   | 176               | 73   | 6,904             | 25,766               | 6,197              | 12,730               | 21,866             | 43,277  | 9,812                             | 53,089                             | 503   | (S)   | (S)                                      |
| 1939  | (NA)                  | 136               | (NA)   | (NA)              | (NA)                 | 4,956              | (NA)                 | 8,875              | 17,018  | 4,015                             | 21,033                             | (NA)  | (NA)  | (NA)                                     |
| 1937  | (NA)                  | 121               | (NA)   | 6,916             | 10,337               | 6,343              | (NA)                 | 8,335              | 15,314  | 6,449                             | 21,763                             | (NA)  | (NA)  | (NA)                                     |
| 1935  | (NA)                  | 167               | (NA)   | 7,027             | 9,602                | 6,434              | (NA)                 | 7,561              | 14,697  | 6,643                             | 21,340                             | (NA)  | (NA)  | (NA)                                     |
| 1933  | (NA)                  | 181               | (NA)   | 5,804             | 7,200                | 5,364              | (NA)                 | 6,246              | 15,408  | 9,540                             | 24,948                             | (NA)  | (NA)  | (NA)                                     |
| 1931  | (NA)                  | 243               | (NA)   | (NA)              | (NA)                 | 5,160              | (NA)                 | 7,968              | 21,652  | 16,221                            | 37,873                             | (NA)  | (NA)  | (NA)                                     |
| 1929  | (NA)                  | 248               | (NA)   | 5,947             | 11,678               | 5,167              | (NA)                 | 8,596              | 21,588  | 18,649                            | 40,237                             | (NA)  | (NA)  | (NA)                                     |
| 1927  | (NA)                  | 172               | (NA)   | 6,358             | 13,169               | 5,540              | (NA)                 | 10,361             | 20,609  | 7,042                             | 27,681                             | (NA)  | (NA)  | (NA)                                     |
| 1925  | (NA)                  | 133               | (NA)   | 5,803             | 10,668               | 5,056              | (NA)                 | 8,206              | 18,127  | 7,296                             | 25,423                             | (NA)  | (NA)  | (NA)                                     |
| 1923  | (NA)                  | 162               | (NA)   | 6,030             | 10,657               | 5,203              | (NA)                 | 8,381              | 18,225  | 7,242                             | 25,467                             | (NA)  | (NA)  | (NA)                                     |
| 1921  | (NA)                  | 126               | (NA)   | 4,931             | 8,149                | 4,429              | (NA)                 | 6,759              | 13,087  | 6,070                             | 19,157                             | (NA)  | (NA)  | (NA)                                     |
| 1919  | (NA)                  | 141               | (NA)   | 5,552             | 8,603                | 5,075              | (NA)                 | 7,098              | 14,046  | 6,339                             | 20,385                             | (NA)  | (NA)  | (NA)                                     |
| 1914  | (NA)                  | 96                | (NA)   | 1,664             | 1,195                | 1,525              | (NA)                 | 923                | 1,969   | 906                               | 2,875                              | (NA)  | (NA)  | (NA)                                     |
| 1909  | (NA)                  | 93                | (NA)   | 1,357             | 941                  | 1,241              | (NA)                 | 806                | 1,580   | 811                               | 2,391                              | (NA)  | (NA)  | (NA)                                     |
| 1904  | (NA)                  | 85                | (NA)   | 1,215             | 865                  | 1,105              | (NA)                 | 755                | 1,574   | 1,642                             | 3,216                              | (NA)  | (NA)  | (NA)                                     |
| 1899  | (NA)                  | 92                | (NA)   | 881               | 527                  | 835                | (NA)                 | 478                | 880   | 520                               | 1,400                              | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3993.—SIGNS AND ADVERTISING DISPLAYS |                       |                   |  |                   |                      |                    |                      |                    |   |                                   |                                    |   |   |  |
| 1963  | 3,165                 | 3,206             | 570  | 43,476            | 242,593              | 33,139             | 64,837               | 163,538            | 407,478   | 243,815                           | 646,772                            | 15,042  | 96  | 95                                       |
| 1962 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 41,297            | 223,769              | 31,436             | 62,249               | 149,430            | 378,196   | 238,162                           | 608,965                            | (9,357)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 39,843            | 204,448              | 30,827             | 60,314               | 137,831            | 326,498   | 222,552                           | 557,095                            | (17,757)  | (NA)  | (NA)                                     |
| 1960 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 39,923            | 203,136              | 31,008             | 60,843               | 139,024            | 329,897   | 210,526                           | 536,723                            | (11,040)  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 38,662            | 188,259              | 30,293             | 57,904               | 128,504            | 307,151   | 195,994                           | 501,379                            | (8,591)   | (NA)  | (NA)                                     |
| 1958  | 2,691                 | 2,725             | 460  | 36,170            | 173,028              | 27,949             | 53,572               | 118,887            | 281,168   | 179,078                           | 457,025                            | 13,505  | 95  | 95                                       |
| 1957 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 37,780            | 157,725              | 29,290             | 58,020               | 108,664            | 279,252   | 145,261                           | 419,066                            | (NA)  | 95  | 88                                       |
| 1956 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 39,936            | 163,089              | 31,445             | 65,103               | 117,150            | 299,747   | 160,252                           | 449,206                            | (NA)  | (NA)  | (NA)                                     |
| 1955 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 36,016            | 146,434              | 27,678             | 55,214               | 96,256             | 256,733   | 142,831                           | 395,172                            | (NA)  | (NA)  | (NA)                                     |
| 1954  | 2,600                 | 2,620             | 394  | 33,581            | 135,578              | 26,205             | 51,681               | 90,602             | 219,942   | 142,909                           | 362,094                            | 6,967   | 93  | 92                                       |
| 1953 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 31,018            | 125,470              | 24,965             | 49,153               | 99,397             | 200,382   | 129,847                           | 300,229                            | (NA)  | (NA)  | (NA)                                     |
| 1952 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 29,540            | 112,902              | 24,538             | 51,065               | 80,149             | 211,975   | 107,984                           | 319,959                            | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 27,802            | 98,220               | 22,961             | 46,776               | 69,891             | 180,873   | 103,167                           | 284,040                            | (NA)  | (NA)  | (NA)                                     |
| 1950 <sup>1</sup>                             | (NA)                  | (NA)              | (NA)   | 27,077            | 91,563               | 22,432             | 46,278               | 65,570             | 142,301   | 94,632                            | 236,933                            | (NA)  | (NA)  | (NA)                                     |
| 1947  | 1,933                 | 1,982             | 350  | 28,489            | 81,190               | 23,987             | 49,611               | 61,339             | 128,969   | 75,762                            | 204,731                            | 5,540   | 95  | 88                                       |
| 1939  | (NA)                  | 1,386             | (NA)   | 23,370            | 33,675               | 17,206             | (NA)                 | 20,557             | 55,132  | 32,493                            | 87,625                             | (NA)  | (NA)  | (NA)                                     |
| 1937  | (NA)                  | 1,001             | (NA)   | 19,857            | 27,311               | 16,042             | (NA)                 | 19,181             | 47,969  | 27,754                            | 75,723                             | (NA)  | (NA)  | (NA)                                     |

See footnotes at end of table.



TABLE 1. General Statistics: 1963 and Earlier Years—Continued

| Year  | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|---|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|   |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 3993.—SIGNS AND ADVERTISING DISPLAYS—Continued |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1935.....   | (NA)                       | 1,075             | (NA)   | 17,802            | 22,612               | 13,712             | (NA)                 | 14,932             | 39,442   | 21,920                            | 61,362                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....   | (NA)                       | 848               | (NA)   | 14,488            | 14,969               | 12,044             | (NA)                 | 11,577             | 31,832   | 15,312                            | 47,144                             | (NA)  | (NA)  | (NA)                                     |
| 1931.....   | (NA)                       | 1,078             | (NA)   | (NA)              | (NA)                 | 14,463             | (NA)                 | 18,485             | 53,384   | 21,297                            | 74,681                             | (NA)  | (NA)  | (NA)                                     |
| 1929.....   | (NA)                       | 1,239             | (NA)   | 25,119            | 41,027               | 20,000             | (NA)                 | 27,901             | 82,343   | 35,701                            | 118,044                            | (NA)  | (NA)  | (NA)                                     |
| 1927.....   | (NA)                       | 813               | (NA)   | 21,470            | 34,456               | 16,907             | (NA)                 | 24,044             | 67,589   | 30,892                            | 98,481                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....   | (NA)                       | 759               | (NA)   | 19,142            | 29,892               | 15,128             | (NA)                 | 20,764             | 63,811   | 25,858                            | 89,669                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....   | (NA)                       | 648               | (NA)   | 15,960            | 22,335               | 12,988             | (NA)                 | 16,429             | 44,583   | 22,641                            | 67,224                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....   | (NA)                       | 624               | (NA)   | 13,041            | 18,345               | 10,373             | (NA)                 | 12,703             | 34,537   | 18,734                            | 53,271                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....   | (NA)                       | 779               | (NA)   | 14,208            | 16,347               | 10,432             | (NA)                 | 9,715              | 27,271   | 16,072                            | 43,343                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....   | (NA)                       | 776               | (NA)   | 12,048            | 9,019                | 5,566              | (NA)                 | 5,933              | 15,733   | 9,059                             | 24,792                             | (NA)  | (NA)  | (NA)                                     |
| 1909 <sup>4</sup> .....                                 | (NA)                       | 288               | (NA)   | 7,066             | 4,581                | 5,540              | (NA)                 | 3,105              | 8,837  | 4,709                             | 13,546                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3995.—UMBRELLAS, PARASOLS, AND CANES           |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....   | 109                        | 112               | 35   | 2,604             | 10,151               | 2,261              | 4,325                | 7,416              | 16,101   | 20,983                            | 36,630                             | 190   | 95  | 98                                       |
| 1962 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | (2,555)           | (9,820)              | (2,232)            | (4,232)              | (7,339)            | (14,362)   | (17,078)                          | (31,046)                           | (Z)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | (2,828)           | (9,642)              | (2,525)            | (5,061)              | (7,170)            | (19,078)   | (17,952)                          | (37,241)                           | (Z)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | (2,780)           | (10,228)             | (2,457)            | (4,738)              | (7,514)            | (15,248)   | (19,665)                          | (34,660)                           | (98)  | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | (3,159)           | (11,170)             | (2,774)            | (5,347)              | (8,209)            | (17,309)   | (20,869)                          | (38,741)                           | (232)   | (NA)  | (NA)                                     |
| 1958.....   | 120                        | 123               | 43   | 2,932             | 10,129               | 2,591              | 4,929                | 7,548              | 16,602   | 19,221                            | 35,161                             | (Z)   | 96  | 95                                       |
| 1957.....   | (NA)                       | (NA)              | (NA)   | 3,484             | 10,765               | 3,049              | 5,575                | 8,028              | 15,082   | 20,933                            | 36,154                             | (Z)   | 94  | 96                                       |
| 1956 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 3,124             | 9,710                | 2,748              | 5,192                | 7,222              | 13,067   | 21,900                            | 35,060                             | (Z)   | (NA)  | (NA)                                     |
| 1955 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 3,298             | 9,859                | 2,887              | 5,379                | 7,414              | 13,977   | 19,819                            | 34,412                             | (Z)   | (NA)  | (NA)                                     |
| 1954.....   | 138                        | 140               | 45   | 3,210             | 9,364                | 2,873              | 5,150                | 6,965              | 14,589   | 16,965                            | 32,014                             | (Z)   | 95  | 92                                       |
| 1952 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 3,423             | 8,895                | 3,092              | (NA)                 | 7,589              | 15,741   | 17,748                            | 33,489                             | (NA)  | (NA)  | (NA)                                     |
| 1951 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 3,404             | 8,334                | 3,136              | (NA)                 | 7,010              | 15,211   | 16,669                            | 31,880                             | (NA)  | (NA)  | (NA)                                     |
| 1947.....   | 162                        | 164               | 41   | 3,585             | 8,360                | 3,267              | 6,628                | 6,490              | 15,421   | 18,927                            | 34,348                             | 526   | 97  | 100                                      |
| 1939.....   | (NA)                       | 90                | (NA)   | 3,236             | 3,055                | 2,862              | (NA)                 | 2,193              | 4,651  | 6,869                             | 11,520                             | (NA)  | (NA)  | (NA)                                     |
| 1937.....   | (NA)                       | 81                | (NA)   | 3,367             | 3,219                | 3,088              | (NA)                 | 2,572              | 5,195  | 8,042                             | 13,237                             | (NA)  | (NA)  | (NA)                                     |
| 1935.....   | (NA)                       | 83                | (NA)   | 2,432             | 2,267                | 2,186              | (NA)                 | 1,712              | 3,927  | 6,159                             | 10,086                             | (NA)  | (NA)  | (NA)                                     |
| 1933.....   | (NA)                       | 80                | (NA)   | 2,336             | 1,798                | 2,155              | (NA)                 | 1,531              | 3,287  | 4,972                             | 8,259                              | (NA)  | (NA)  | (NA)                                     |
| 1931.....   | (NA)                       | 93                | (NA)   | (NA)              | (NA)                 | 1,852              | (NA)                 | 1,611              | 2,979  | 5,136                             | 9,115                              | (NA)  | (NA)  | (NA)                                     |
| 1929.....   | (NA)                       | 141               | (NA)   | 3,334             | 3,960                | 2,855              | (NA)                 | 2,768              | 7,087  | 10,907                            | 17,994                             | (NA)  | (NA)  | (NA)                                     |
| 1927.....   | (NA)                       | 164               | (NA)   | 3,922             | 4,717                | 3,308              | (NA)                 | 3,411              | 9,135  | 14,021                            | 23,156                             | (NA)  | (NA)  | (NA)                                     |
| 1925.....   | (NA)                       | 176               | (NA)   | 4,483             | 5,227                | 3,731              | (NA)                 | 3,696              | 10,705   | 16,594                            | 27,299                             | (NA)  | (NA)  | (NA)                                     |
| 1923.....   | (NA)                       | 187               | (NA)   | 4,492             | 5,233                | 3,776              | (NA)                 | 3,739              | 10,395   | 18,000                            | 28,395                             | (NA)  | (NA)  | (NA)                                     |
| 1921.....   | (NA)                       | 154               | (NA)   | 3,803             | 4,605                | 3,149              | (NA)                 | 3,126              | 9,119  | 16,889                            | 26,008                             | (NA)  | (NA)  | (NA)                                     |
| 1919.....   | (NA)                       | 198               | (NA)   | 3,941             | 4,775                | 3,368              | (NA)                 | 3,140              | 9,676  | 15,633                            | 25,309                             | (NA)  | (NA)  | (NA)                                     |
| 1914.....   | (NA)                       | 265               | (NA)   | 5,532             | 3,206                | 4,792              | (NA)                 | 2,167              | 5,221  | 8,592                             | 13,813                             | (NA)  | (NA)  | (NA)                                     |
| 1909.....   | (NA)                       | 256               | (NA)   | 6,206             | 3,168                | 5,472              | (NA)                 | 2,253              | 5,808  | 10,056                            | 15,864                             | (NA)  | (NA)  | (NA)                                     |
| 1904.....   | (NA)                       | 204               | (NA)   | 5,913             | 2,300                | 5,386              | (NA)                 | 1,826              | 5,046  | 8,250                             | 13,296                             | (NA)  | (NA)  | (NA)                                     |
| 1899.....   | (NA)                       | 202               | (NA)   | 6,227             | 2,373                | 5,640              | (NA)                 | 1,869              | 5,288  | 8,381                             | 13,669                             | (NA)  | (NA)  | (NA)                                     |
| INDUSTRY 3999.—MISCELLANEOUS PRODUCTS, N.E.C.           |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....   | 1,479                      | 1,499             | 322  | 30,138            | 129,350              | 24,534             | 47,811               | 91,085             | 252,170  | 210,922                           | 458,471                            | 9,888   | 94  | 84                                       |
| 1962 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 25,899            | 115,711              | 20,382             | 40,421               | 76,527             | 235,314  | 215,082                           | 449,145                            | (6,966)   | (NA)  | (NA)                                     |
| 1961 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 25,547            | 106,961              | 20,200             | 40,801               | 72,504             | 192,051  | 183,171                           | 380,610                            | (4,351)   | (NA)  | (NA)                                     |
| 1960 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 25,698            | 167,988              | 20,191             | 40,478               | 72,683             | 194,861  | 183,673                           | 379,686                            | (6,323)   | (NA)  | (NA)                                     |
| 1959 <sup>1</sup> .....                                 | (NA)                       | (NA)              | (NA)   | 28,249            | 108,568              | 22,574             | 43,676               | 75,007             | 183,584  | 174,458                           | 362,057                            | (7,973)   | (NA)  | (NA)                                     |
| 1958 <sup>4</sup> .....                                 | 1,235                      | 1,259             | 264  | 27,285            | 109,053              | 21,890             | 42,116               | 76,299             | 192,313  | 174,792                           | 358,076                            | 7,317   | 92  | 87                                       |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than \$500 thousand. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. The figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>Because of the inclusion of excise taxes in both the cost of materials and the value of shipments for 1937 and 1935, the statistics for these years are not strictly comparable with statistics for other years.

<sup>3</sup>No comparable figures are available for earlier years.

<sup>4</sup>The figures for 1925 and prior years do not include data for metal burial vaults, whereas the figures for later years include data for this product.

<sup>5</sup>Relationships not meaningful because predominance of miscellaneous receipts, particularly contract and commission work on material owned by others.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>               | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3981.—BROOMS AND BRUSHES          |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                 | 643            | 167                                | 16,637         | 73,620            | 13,428             | 25,801            | 49,510          | 167,866                              | 153,625           | 321,129            | 4,394                     | 17,082           | 137,496                              |
| New England.....                           | 47             | 18                                 | 3,155          | 15,745            | 2,537              | 4,919             | 10,841          | 53,865                               | 48,275            | 102,856            | 806                       | 3,199            | 44,565                               |
| Middle Atlantic....                        | 171            | 57                                 | 5,155          | 22,537            | 4,149              | 7,819             | 15,031          | 46,667                               | 41,172            | 87,153             | 1,404                     | 5,074            | 35,801                               |
| New York.....                              | 93             | 31                                 | 3,243          | 14,423            | 2,591              | 4,941             | 9,580           | 31,065                               | 26,806            | 57,314             | 980                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| New Jersey.....                            | 37             | 16                                 | 1,362          | 6,206             | 1,106              | 1,962             | 4,074           | 12,612                               | 10,233            | 22,636             | 317                       | 876              | 6,717                                |
| Pennsylvania.....                          | 41             | 10                                 | 550            | 1,908             | 452                | 916               | 1,377           | 2,990                                | 4,133             | 7,203              | 107                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| East North Central.                        | 123            | 40                                 | 3,829          | 18,779            | 3,017              | 5,957             | 11,760          | 36,894                               | 33,640            | 70,405             | 1,421                     | 4,109            | 31,393                               |
| Ohio.....                                  | 28             | 13                                 | 1,605          | 8,656             | 1,204              | 2,296             | 4,890           | 16,200                               | 13,841            | 30,032             | 777                       | 1,653            | 15,252                               |
| Illinois.....                              | 44             | 14                                 | 1,228          | 5,559             | 1,040              | 2,121             | 3,938           | 10,859                               | 10,132            | 21,080             | 317                       | 1,416            | 9,414                                |
| Wisconsin.....                             | 18             | 7                                  | 618            | 2,915             | 488                | 1,007             | 1,857           | 6,285                                | 6,479             | 12,608             | 269                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West North Central.                        | 46             | 9                                  | 1,064          | 3,752             | 935                | 1,816             | 3,041           | 7,102                                | 5,546             | 12,824             | 126                       | 933              | 4,399                                |
| Minnesota.....                             | 8              | 2                                  | 206            | 882               | 151                | 317               | 579             | 1,445                                | 1,412             | 2,875              | (D)                       | 292              | 2,384                                |
| Iowa.....                                  | 12             | 2                                  | 389            | 1,536             | 376                | 757               | 1,475           | 3,548                                | 2,658             | 6,265              | 68                        | 105              | 628                                  |
| Nebraska.....                              | 6              | 2                                  | 139            | 415               | 126                | 211               | 321             | 791                                  | 455               | 1,251              | (D)                       | 143              | 654                                  |
| South Atlantic.....                        | 72             | 17                                 | 1,581          | 6,076             | 1,295              | 2,462             | 4,080           | 10,570                               | 11,791            | 22,269             | 286                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Maryland.....                              | 10             | 5                                  | 786            | 3,654             | 626                | 1,235             | 2,360           | 6,562                                | 6,773             | 13,247             | 132                       | 931              | 6,101                                |
| North Carolina...                          | 24             | 2                                  | 229            | 670               | 193                | 345               | 458             | 1,042                                | 1,709             | 2,733              | 102                       | 231              | 974                                  |
| Georgia.....                               | 13             | 3                                  | 170            | 503               | 137                | 238               | 358             | 866                                  | 985               | 1,858              | 29                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Florida.....                               | 9              | 5                                  | 250            | 813               | 217                | 412               | 552             | 1,443                                | 1,363             | 2,760              | 12                        | 287              | 1,247                                |
| East South Central.                        | 31             | 6                                  | 469            | 1,415             | 408                | 775               | 1,154           | 3,985                                | 2,599             | 6,682              | 84                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Tennessee.....                             | 10             | 3                                  | 237            | 722               | 194                | 376               | 542             | 1,714                                | 1,472             | 3,285              | 26                        | 161              | 1,217                                |
| West South Central.                        | 68             | 7                                  | 525            | 1,566             | 446                | 837               | 1,211           | 2,408                                | 3,278             | 5,644              | 94                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Louisiana.....                             | 16             | 2                                  | 122            | 266               | 100                | 186               | 186             | 440                                  | 750               | 1,173              | 20                        | 117              | 456                                  |
| Texas.....                                 | 35             | 3                                  | 304            | 1,023             | 258                | 493               | 786             | 1,518                                | 1,915             | 3,399              | 64                        | 317              | 1,305                                |
| Mountain.....                              | 13             | 1                                  | 82             | 274               | 64                 | 125               | 208             | 531                                  | 590               | 1,129              | 23                        | 142              | 808                                  |
| Pacific.....                               | 72             | 12                                 | 777            | 3,476             | 577                | 1,091             | 2,184           | 5,844                                | 6,734             | 12,167             | 150                       | 961              | 6,353                                |
| Oregon.....                                | 6              | 3                                  | 135            | 548               | 114                | 216               | 410             | 1,112                                | 1,126             | 1,912              | (D)                       | 120              | 799                                  |
| California.....                            | 57             | 7                                  | 562            | 2,617             | 396                | 757               | 1,527           | 4,399                                | 5,099             | 9,405              | 126                       | 742              | 5,098                                |
| INDUSTRY 3982.—HARD SURFACE FLOOR COVERING |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                 | 16             | 13                                 | 6,192          | 38,965            | 4,958              | 10,099            | 29,488          | 118,832                              | 80,721            | 204,112            | 4,441                     | 7,999            | 93,145                               |
| New England.....                           | 3              | 3                                  | 773            | 4,412             | 634                | 1,367             | 3,410           | 7,333                                | 7,694             | 16,661             | 125                       | 1,170            | 9,930                                |
| Middle Atlantic....                        | 6              | 5                                  | 5,063          | 32,117            | 4,049              | 8,190             | 24,498          | 106,815                              | 68,086            | 177,938            | 4,225                     | 6,064            | 75,045                               |
| North Central,<br>South and West....       | 7              | 5                                  | 356            | 2,436             | 275                | 542               | 1,580           | 4,684                                | 4,941             | 9,513              | 91                        | 765              | 8,170                                |
| INDUSTRY 3983.—MATCHES                     |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                 | 26             | 23                                 | 4,647          | 21,659            | 3,988              | 7,790             | 17,268          | 38,666                               | 24,850            | 64,131             | 1,876                     | 5,127            | 41,776                               |
| North East.....                            | 7              | 6                                  | 1,502          | 6,981             | 1,278              | 2,474             | 5,406           | 10,806                               | 7,903             | 19,136             | 1,454                     | 1,746            | 12,483                               |
| North Central.....                         | 12             | 10                                 | 2,410          | 11,234            | 2,078              | 4,095             | 9,086           | 21,532                               | 12,530            | 34,294             | 350                       | 2,763            | 22,982                               |
| South.....                                 | 3              | 3                                  | 236            | 1,151             | 208                | 415               | 936             | 1,844                                | 1,392             | 3,206              | (D)                       | 618              | 6,311                                |
| Pacific.....                               | 4              | 4                                  | 499            | 2,293             | 424                | 806               | 1,840           | 4,484                                | 3,025             | 7,495              | (D)                       |                  |                                      |
| INDUSTRY 3984.—CANDLES                     |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                 | 111            | 32                                 | 3,167          | 13,225            | 2,375              | 4,553             | 7,884           | 26,306                               | 19,886            | 45,515             | 773                       | 2,516            | 17,668                               |
| New England.....                           | 7              | 3                                  | 232            | 848               | 171                | 297               | 470             | 1,746                                | 1,152             | 2,858              | 55                        | 118              | 863                                  |
| Middle Atlantic....                        | 43             | 17                                 | 1,812          | 7,867             | 1,342              | 2,620             | 4,659           | 15,323                               | 11,398            | 26,474             | 495                       | 1,658            | 11,516                               |
| New York.....                              | 30             | 12                                 | 1,376          | 6,325             | 979                | 1,984             | 3,619           | 11,992                               | 8,511             | 20,242             | 409                       | 1,321            | 9,529                                |
| North Central.....                         | 18             | 3                                  | 626            | 2,593             | 465                | 918               | 1,539           | 5,114                                | 4,010             | 8,855              | 131                       | 511              | 3,860                                |
| South Atlantic....                         | 4              | -                                  | 2              | 8                 | 2                  | 4                 | 8               | 24                                   | 33                | 57                 | (D)                       |                  |                                      |
| West South Central.                        | 11             | 4                                  | 172            | 662               | 129                | 253               | 332             | 1,620                                | 1,241             | 2,750              | (D)                       |                  |                                      |
| West.....                                  | 28             | 5                                  | 323            | 1,247             | 266                | 461               | 876             | 2,479                                | 2,052             | 4,521              | 60                        |                  |                                      |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>          | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|---------------------------------------|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|                                       | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|                                       | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3987.—LAMP SHADES            |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                            | 228            | 48                                 | 3,583          | 12,775            | 3,160              | 6,002             | 9,907           | 20,476                               | 17,116            | 37,485             | 530                       | 3,895            | 18,577                               |
| Northeast.....                        | 155            | 34                                 | 2,440          | 8,393             | 2,159              | 4,048             | 6,456           | 13,499                               | 11,601            | 25,013             | 354                       | 2,710            | 12,630                               |
| New Jersey.....                       | 24             | 8                                  | 550            | 1,895             | 500                | 967               | 1,500           | 3,305                                | 2,819             | 6,072              | 127                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pennsylvania.....                     | 29             | 9                                  | 662            | 2,133             | 591                | 1,125             | 1,662           | 3,211                                | 2,886             | 6,056              | 96                        | 738              | 2,936                                |
| North Central.....                    | 33             | 8                                  | 713            | 2,871             | 620                | 1,204             | 2,246           | 4,209                                | 3,599             | 7,798              | 65                        | 745              | 3,724                                |
| Illinois.....                         | 24             | 6                                  | 623            | 2,545             | 544                | 1,057             | 2,005           | 3,766                                | 3,217             | 6,972              | 48                        | 707              | 3,569                                |
| South.....                            | 11             | 1                                  | 78             | 200               | 74                 | 159               | 194             | 436                                  | 491               | 913                | 13                        | 56               | 224                                  |
| West.....                             | 29             | 5                                  | 352            | 1,311             | 307                | 591               | 1,011           | 2,332                                | 1,425             | 3,760              | 98                        | 384              | 1,999                                |
| California.....                       | 24             | 5                                  | 341            | 1,287             | 298                | 577               | 991             | 2,301                                | 1,379             | 3,683              | 98                        | 352              | 1,845                                |
| INDUSTRY 3988.—MORTICIANS' GOODS      |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                            | 617            | 224                                | 17,283         | 86,218            | 13,545             | 27,507            | 58,447          | 158,422                              | 132,720           | 290,036            | 5,455                     | 17,362           | 128,879                              |
| New England.....                      | 38             | 15                                 | 1,032          | 5,041             | 768                | 1,646             | 3,343           | 8,593                                | 7,376             | 15,868             | 246                       | 1,033            | 6,767                                |
| Massachusetts.....                    | 19             | 9                                  | 625            | 3,103             | 480                | 1,061             | 2,166           | 5,030                                | 4,558             | 9,473              | 176                       | 655              | 4,560                                |
| Connecticut.....                      | 5              | 2                                  | 121            | 815               | 40                 | 84                | 198             | 1,506                                | 1,427             | 2,918              | 37                        | 122              | 1,137                                |
| Middle Atlantic....                   | 104            | 34                                 | 3,427          | 17,823            | 2,740              | 5,668             | 13,468          | 29,163                               | 24,384            | 53,092             | 1,137                     | 3,655            | 28,372                               |
| New York.....                         | 44             | 13                                 | 962            | 5,378             | 745                | 1,557             | 3,726           | 9,601                                | 9,036             | 18,452             | 247                       | 1,062            | 8,487                                |
| New Jersey.....                       | 14             | 2                                  | 150            | 792               | 108                | 229               | 546             | 1,232                                | 1,915             | 3,149              | 32                        | 147              | 974                                  |
| Pennsylvania.....                     | 46             | 19                                 | 2,315          | 11,653            | 1,887              | 3,882             | 9,196           | 18,330                               | 13,433            | 31,491             | 858                       | 2,446            | 18,911                               |
| East North Central.                   | 143            | 66                                 | 6,047          | 34,415            | 4,578              | 9,515             | 21,786          | 68,589                               | 43,877            | 112,078            | 2,730                     | 5,907            | 51,326                               |
| Ohio.....                             | 39             | 17                                 | 1,519          | 8,076             | 1,208              | 2,393             | 5,716           | 15,389                               | 8,433             | 23,554             | 341                       | 1,850            | 14,276                               |
| Indiana.....                          | 32             | 17                                 | 2,355          | 14,857            | 1,693              | 3,630             | 8,701           | 33,230                               | 19,179            | 52,148             | 1,854                     | 1,829            | 20,222                               |
| Illinois.....                         | 38             | 21                                 | 1,611          | 8,679             | 1,254              | 2,522             | 5,680           | 14,955                               | 10,892            | 25,946             | 427                       | 1,510            | 12,072                               |
| Michigan.....                         | 23             | 7                                  | 334            | 1,714             | 257                | 528               | 1,099           | 2,827                                | 3,495             | 6,357              | 94                        | 353              | 2,738                                |
| Wisconsin.....                        | 11             | 4                                  | 228            | 1,089             | 166                | 442               | 590             | 2,188                                | 1,878             | 4,073              | 14                        | 365              | 2,018                                |
| West North Central.                   | 65             | 20                                 | 1,129          | 5,176             | 800                | 1,597             | 3,096           | 9,003                                | 8,870             | 17,887             | 162                       | 1,167            | 7,586                                |
| Iowa.....                             | 13             | 4                                  | 218            | 1,040             | 158                | 313               | 581             | 1,566                                | 1,493             | 3,078              | 18                        | 235              | 1,467                                |
| Missouri.....                         | 33             | 12                                 | 578            | 2,549             | 402                | 808               | 1,562           | 4,470                                | 4,167             | 8,623              | 67                        | 588              | 3,730                                |
| South Atlantic....                    | 81             | 25                                 | 1,848          | 6,812             | 1,528              | 2,662             | 4,752           | 13,042                               | 12,056            | 25,223             | 466                       | 1,999            | 11,006                               |
| Virginia.....                         | 11             | 2                                  | 166            | 649               | 137                | 284               | 458             | 1,037                                | 1,235             | 2,258              | 10                        | 228              | 1,318                                |
| North Carolina...                     | 16             | 9                                  | 352            | 1,285             | 288                | 603               | 886             | 2,432                                | 3,019             | 5,445              | 122                       | 358              | 2,109                                |
| Georgia.....                          | 20             | 7                                  | 836            | 2,808             | 725                | 984               | 2,120           | 5,360                                | 3,735             | 9,294              | 215                       | 923              | 4,103                                |
| Florida.....                          | 20             | 2                                  | 169            | 668               | 133                | 292               | 450             | 1,658                                | 1,946             | 3,583              | 47                        | 157              | 1,210                                |
| East South Central.                   | 49             | 21                                 | 1,235          | 4,578             | 1,030              | 2,179             | 3,244           | 8,240                                | 12,056            | 20,088             | 320                       | 1,077            | 5,847                                |
| Tennessee.....                        | 27             | 12                                 | 802            | 2,838             | 684                | 1,471             | 2,119           | 5,128                                | 8,302             | 13,322             | 229                       | 683              | 3,671                                |
| Alabama.....                          | 11             | 6                                  | 278            | 1,105             | 225                | 448               | 721             | 1,995                                | 2,102             | 4,045              | 65                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West South Central.                   | 56             | 18                                 | 1,239          | 4,930             | 1,009              | 2,038             | 3,274           | 10,044                               | 9,843             | 19,893             | 227                       | 1,189            | 7,646                                |
| Arkansas.....                         | 8              | 5                                  | 280            | 935               | 248                | 495               | 715             | 1,715                                | 1,622             | 3,326              | 14                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Louisiana.....                        | 9              | 1                                  | 188            | 760               | 150                | 306               | 517             | 2,079                                | 1,216             | 3,340              | 23                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Oklahoma.....                         | 10             | 1                                  | 114            | 424               | 87                 | 168               | 234             | 893                                  | 1,154             | 2,006              | 17                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Texas.....                            | 29             | 11                                 | 657            | 2,811             | 524                | 1,069             | 1,808           | 5,357                                | 5,851             | 11,221             | 173                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Mountain.....                         | 16             | 1                                  | 152            | 823               | 123                | 253               | 562             | 1,377                                | 1,798             | 3,176              | 9                         | 136              | 1,250                                |
| Pacific.....                          | 65             | 24                                 | 1,174          | 6,620             | 969                | 1,949             | 4,922           | 10,371                               | 12,460            | 22,731             | 158                       | 1,199            | 9,079                                |
| Washington.....                       | 15             | 5                                  | 226            | 1,307             | 196                | 372               | 1,018           | 1,719                                | 2,255             | 3,956              | 15                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                       | 43             | 18                                 | 906            | 5,147             | 737                | 1,517             | 3,769           | 8,370                                | 9,724             | 18,012             | 120                       | 922              | 6,808                                |
| INDUSTRY 3992.—FURS, DRESSED AND DYED |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                            | 132            | 26                                 | 2,577          | 20,092            | 2,129              | 4,113             | 16,383          | 30,240                               | 12,094            | 42,007             | 227                       | 2,696            | 24,112                               |
| New England.....                      | 4              | -                                  | 31             | 140               | 25                 | 57                | 107             | 251                                  | 99                | 349                | 146                       | 2,351            | 20,295                               |
| Middle Atlantic....                   | 107            | 24                                 | 2,157          | 17,542            | 1,785              | 3,339             | 14,576          | 24,661                               | 11,156            | 35,544             | 81                        | 1,644            | 15,296                               |
| New York.....                         | 91             | 18                                 | 1,650          | 14,077            | 1,339              | 2,578             | 11,676          | 20,448                               | 8,794             | 29,036             | (D)                       | 635              | 4,592                                |
| New Jersey.....                       | 10             | 5                                  | 417            | 2,955             | 362                | 600               | 2,482           | 3,280                                | 1,591             | 4,851              |                           |                  |                                      |
| North Central and South.....          | 10             | 2                                  | 339            | 2,151             | 273                | 622               | 1,458           | 4,855                                | 670               | 5,454              | 66                        | 345              | 3,817                                |
| West.....                             | 11             | -                                  | 50             | 259               | 46                 | 95                | 242             | 473                                  | 169               | 660                | 15                        |                  |                                      |

See footnotes at end of table.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                  | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |                  |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3993.—SIGNS AND ADVERTISING DISPLAYS |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 3,206          | 570                                | 43,476         | 242,593           | 33,139             | 64,837            | 163,538         | 407,478                              | 243,815           | 646,772            | 15,042                    | 36,170           | 281,168                              |
| New England.....                              | 178            | 29                                 | 2,015          | 10,787            | 1,551              | 3,076             | 7,351           | 17,763                               | 10,285            | 27,890             | 521                       | 1,648            | 11,044                               |
| Massachusetts.....                            | 89             | 20                                 | 1,264          | 7,147             | 939                | 1,896             | 4,803           | 11,525                               | 7,030             | 18,456             | 363                       | 1,064            | 6,868                                |
| Rhode Island.....                             | 22             | 5                                  | 265            | 1,180             | 216                | 415               | 866             | 1,832                                | 1,063             | 2,892              | 31                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Middle Atlantic....                           | 811            | 165                                | 11,791         | 63,871            | 9,353              | 18,246            | 44,657          | 106,488                              | 61,869            | 167,396            | 2,520                     | 9,886            | 72,739                               |
| New York.....                                 | 500            | 109                                | 7,898          | 42,626            | 6,331              | 12,307            | 30,253          | 73,354                               | 38,147            | 111,007            | 1,593                     | 6,471            | 47,861                               |
| New Jersey.....                               | 147            | 28                                 | 1,827          | 9,480             | 1,473              | 2,867             | 6,583           | 15,718                               | 11,484            | 27,027             | 420                       | 1,278            | 9,495                                |
| Pennsylvania.....                             | 164            | 28                                 | 2,066          | 11,765            | 1,549              | 3,072             | 7,821           | 17,416                               | 12,238            | 29,362             | 507                       | 2,137            | 15,383                               |
| East North Central.                           | 703            | 156                                | 12,637         | 74,144            | 9,594              | 19,123            | 48,085          | 123,654                              | 83,291            | 207,304            | 4,572                     | 10,719           | 88,499                               |
| Ohio.....                                     | 184            | 51                                 | 3,637          | 18,850            | 2,704              | 5,357             | 12,481          | 29,400                               | 24,051            | 54,441             | 1,194                     | 3,092            | 22,871                               |
| Indiana.....                                  | 74             | 7                                  | 745            | 4,015             | 588                | 1,163             | 2,732           | 7,596                                | 5,573             | 13,074             | ( <sup>2</sup> )          | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Illinois.....                                 | 240            | 63                                 | 5,284          | 33,101            | 4,013              | 8,129             | 20,625          | 53,882                               | 31,398            | 84,967             | 2,047                     | 4,605            | 3,952                                |
| Michigan.....                                 | 123            | 19                                 | 1,573          | 10,598            | 1,206              | 2,383             | 6,959           | 18,009                               | 10,562            | 28,468             | 739                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Wisconsin.....                                | 82             | 16                                 | 1,398          | 7,580             | 1,084              | 2,091             | 5,288           | 14,767                               | 11,707            | 26,354             | 345                       | 1,261            | 9,439                                |
| West North Central.                           | 241            | 51                                 | 3,758          | 18,363            | 2,810              | 5,288             | 12,267          | 32,579                               | 21,122            | 53,524             | 1,343                     | 3,336            | 25,646                               |
| Minnesota.....                                | 63             | 20                                 | 1,356          | 6,812             | 1,040              | 1,896             | 4,594           | 10,567                               | 8,073             | 18,656             | 534                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Iowa.....                                     | 42             | 4                                  | 549            | 2,757             | 350                | 691               | 1,599           | 7,251                                | 4,216             | 11,384             | 129                       | 577              | 5,717                                |
| Missouri.....                                 | 66             | 18                                 | 1,307          | 5,981             | 1,014              | 1,885             | 4,109           | 10,195                               | 6,511             | 16,613             | 289                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Nebraska.....                                 | 29             | 3                                  | 134            | 776               | 99                 | 188               | 549             | 1,206                                | 575               | 1,777              | 61                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Kansas.....                                   | 31             | 4                                  | 315            | 1,537             | 229                | 471               | 1,032           | 2,504                                | 1,293             | 3,783              | 162                       | 241              | 1,761                                |
| South Atlantic.....                           | 324            | 43                                 | 3,177          | 15,913            | 2,455              | 4,930             | 11,067          | 25,600                               | 14,482            | 39,822             | 2,089                     | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Maryland.....                                 | 41             | 6                                  | 376            | 2,007             | 269                | 551               | 1,387           | 3,107                                | 2,168             | 5,266              | 595                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Virginia.....                                 | 35             | 5                                  | 606            | 2,896             | 482                | 920               | 2,018           | 4,148                                | 3,039             | 7,232              | 91                        | 506              | 3,370                                |
| North Carolina....                            | 33             | 4                                  | 266            | 1,293             | 206                | 431               | 807             | 2,413                                | 1,244             | 3,624              | 70                        | 148              | 1,083                                |
| South Carolina....                            | 20             | 4                                  | 306            | 1,402             | 252                | 515               | 957             | 2,995                                | 1,193             | 4,110              | 139                       | 187              | 1,225                                |
| Georgia.....                                  | 50             | 4                                  | 356            | 1,661             | 263                | 520               | 1,122           | 2,993                                | 1,938             | 4,883              | 166                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Florida.....                                  | 118            | 17                                 | 1,027          | 5,272             | 797                | 1,626             | 3,777           | 8,051                                | 3,858             | 11,794             | 887                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| East South Central.                           | 118            | 14                                 | 1,327          | 6,155             | 998                | 1,891             | 4,346           | 10,973                               | 8,610             | 19,191             | 405                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Kentucky.....                                 | 30             | 4                                  | 307            | 1,511             | 242                | 479               | 1,015           | 2,369                                | 2,399             | 4,694              | 131                       | 299              | 1,536                                |
| Tennessee.....                                | 48             | 8                                  | 632            | 3,015             | 447                | 827               | 2,146           | 6,628                                | 2,955             | 9,229              | 173                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Alabama.....                                  | 29             | 2                                  | 307            | 1,305             | 248                | 455               | 933             | 1,523                                | 2,883             | 4,450              | 56                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| West South Central.                           | 245            | 24                                 | 1,855          | 8,836             | 1,431              | 2,855             | 6,322           | 16,232                               | 9,285             | 25,306             | 746                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Arkansas.....                                 | 16             | 3                                  | 179            | 717               | 134                | 318               | 458             | 1,513                                | 1,045             | 2,468              | 44                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Louisiana.....                                | 18             | 2                                  | 176            | 878               | 143                | 271               | 640             | 1,403                                | 636               | 2,042              | 41                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Oklahoma.....                                 | 45             | 3                                  | 333            | 1,460             | 242                | 499               | 1,093           | 2,361                                | 1,616             | 3,998              | 95                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Texas.....                                    | 166            | 16                                 | 1,167          | 5,781             | 912                | 1,767             | 4,131           | 10,955                               | 5,988             | 16,798             | 566                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Mountain.....                                 | 136            | 23                                 | 1,299          | 7,881             | 960                | 1,840             | 5,379           | 13,455                               | 5,022             | 18,243             | 543                       | 1,014            | 7,725                                |
| Colorado.....                                 | 37             | 7                                  | 373            | 2,252             | 269                | 513               | 1,421           | 4,016                                | 1,485             | 5,466              | 184                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| New Mexico.....                               | 14             | 2                                  | 112            | 609               | 90                 | 169               | 432             | 787                                  | 520               | 1,310              | 34                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Arizona.....                                  | 21             | 5                                  | 227            | 1,306             | 163                | 328               | 955             | 2,056                                | 940               | 2,956              | 89                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Utah.....                                     | 21             | 5                                  | 231            | 1,426             | 177                | 332               | 1,009           | 2,226                                | 862               | 3,061              | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pacific.....                                  | 450            | 65                                 | 5,617          | 36,643            | 3,987              | 7,588             | 24,064          | 60,734                               | 29,849            | 88,096             | 2,303                     | 4,546            | 38,685                               |
| Washington.....                               | 67             | 8                                  | 526            | 3,517             | 363                | 658               | 2,180           | 5,649                                | 2,114             | 7,770              | 265                       | 435              | 2,975                                |
| Oregon.....                                   | 49             | 4                                  | 385            | 2,562             | 256                | 460               | 1,523           | 3,740                                | 2,328             | 6,149              | 305                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| California.....                               | 325            | 52                                 | 4,649          | 30,280            | 3,331              | 6,399             | 20,205          | 50,866                               | 25,199            | 73,488             | 1,622                     | 3,821            | 33,084                               |
| INDUSTRY 3995.—UMBRELLAS, PARASOLS, AND CANES |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 112            | 35                                 | 2,604          | 10,151            | 2,261              | 4,325             | 7,416           | 16,101                               | 20,983            | 36,630             | 190                       | 2,932            | 16,602                               |
| Northeast.....                                | 89             | 30                                 | 2,138          | 8,403             | 1,844              | 3,537             | 6,243           | 13,346                               | 17,974            | 30,814             | 163                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| New York.....                                 | 76             | 21                                 | 1,349          | 5,513             | 1,162              | 2,268             | 3,973           | 8,816                                | 12,508            | 21,268             | 85                        | 1,530            | 9,981                                |
| New Jersey.....                               | 5              | 3                                  | 362            | 1,309             | 308                | 551               | 970             | 2,213                                | 3,351             | 5,168              | (D)                       | 246              | 868                                  |
| West Central and South.....                   | 9              | 4                                  | 195            | 779               | 170                | 331               | 561             | 1,270                                | 1,506             | 2,797              | 18                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
|   | 14             | 2                                  | 271            | 969               | 247                | 457               | 612             | 1,485                                | 1,503             | 3,019              |                           | 405              | 1,813                                |
| INDUSTRY 3999.—MISCELLANEOUS PRODUCTS, N.E.C. |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Total.....                                    | 1,499          | 322                                | 30,138         | 129,350           | 24,534             | 47,811            | 91,085          | 252,170                              | 210,922           | 458,471            | 9,888                     | 27,285           | 192,313                              |
| New England.....                              | 126            | 34                                 | 3,164          | 14,392            | 2,496              | 4,945             | 9,542           | 27,576                               | 19,764            | 46,356             | 1,594                     | 2,270            | 17,529                               |
| Massachusetts.....                            | 57             | 13                                 | 1,522          | 7,565             | 1,150              | 2,215             | 4,771           | 14,098                               | 8,166             | 21,624             | 616                       | 1,446            | 9,175                                |
| Connecticut.....                              | 24             | 14                                 | 777            | 4,089             | 624                | 1,279             | 2,533           | 7,927                                | 7,795             | 15,461             | 188                       | 824              | 8,354                                |

See footnotes at end of table.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Geographic area <sup>1</sup>                            | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           | 1958             |                                      |
|---|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|------------------|--------------------------------------|
|   | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees    | Value added by manufacture, adjusted |
|   | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |                  |                                      |
| INDUSTRY 3999.—MISCELLANEOUS PRODUCTS, N.E.C.—Continued |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |                  |                                      |
| Middle Atlantic....                                     | 604            | 147                                | 13,199         | 54,410            | 11,113             | 21,451            | 40,462          | 112,277                              | 90,728            | 199,829            | 3,391                     | 6,348            | 40,918                               |
| New York.....   | 453            | 104                                | 8,413          | 33,731            | 7,153              | 13,903            | 25,111          | 66,674                               | 46,162            | 111,402            | 1,793                     | 6,348            | 40,918                               |
| New Jersey.....   | 79             | 25                                 | 2,373          | 10,814            | 1,896              | 3,673             | 7,476           | 24,260                               | 19,419            | 42,723             | 873                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Pennsylvania.....                                       | 72             | 18                                 | 2,413          | 9,865             | 2,064              | 3,875             | 7,875           | 21,343                               | 25,147            | 45,704             | 725                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| East North Central.                                     | 282            | 73                                 | 8,354          | 41,049            | 6,566              | 13,234            | 27,725          | 72,883                               | 63,571            | 137,499            | 2,431                     | 10,014           | 72,421                               |
| Ohio.....   | 49             | 10                                 | 1,261          | 5,613             | 880                | 1,780             | 3,067           | 9,639                                | 9,926             | 19,311             | 356                       |                  |                                      |
| Illinois.....   | 117            | 37                                 | 4,393          | 21,740            | 3,574              | 7,355             | 15,106          | 38,449                               | 36,124            | 75,127             | 1,029                     |                  |                                      |
| Michigan.....   | 63             | 13                                 | 1,720          | 9,823             | 1,286              | 2,535             | 6,527           | 14,475                               | 10,433            | 25,580             | 581                       |                  |                                      |
| West North Central.                                     | 72             | 14                                 | 1,056          | 3,741             | 773                | 1,379             | 2,185           | 6,751                                | 5,189             | 11,901             | 153                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Minnesota.....  | 21             | 4                                  | 429            | 1,377             | 302                | 499               | 739             | 2,039                                | 1,434             | 3,520              | 51                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Iowa.....   | 14             | 2                                  | 138            | 487               | 104                | 175               | 262             | 1,079                                | 695               | 1,722              | 40                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Missouri.....   | 26             | 5                                  | 340            | 1,537             | 270                | 516               | 1,003           | 2,837                                | 2,749             | 5,563              | 57                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Nebraska.....   | 4              | 2                                  | 100            | 278               | 60                 | 114               | 147             | 743                                  | 255               | 989                | (D)                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| South.....  | 168            | 21                                 | 2,145          | 6,496             | 1,812              | 3,406             | 4,794           | 12,841                               | 12,153            | 24,603             | 751                       | 1,644            | 11,527                               |
| Delaware.....   | 5              | 1                                  | 163            | 259               | 151                | 214               | 202             | 283                                  | 137               | 414                | 6                         | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Maryland.....   | 15             | 3                                  | 154            | 733               | 118                | 247               | 466             | 1,159                                | 2,254             | 3,369              | 31                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Florida.....  | 56             | 3                                  | 428            | 1,437             | 324                | 591               | 998             | 3,127                                | 2,420             | 5,400              | 128                       | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Kentucky.....   | 6              | 3                                  | 192            | 667               | 176                | 395               | 572             | 900                                  | 844               | 1,734              | 11                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Texas.....  | 27             | 5                                  | 285            | 747               | 236                | 415               | 498             | 1,374                                | 1,081             | 2,429              | 54                        | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |
| Mountain.....   | 26             | 5                                  | 253            | 987               | 192                | 383               | 637             | 2,083                                | 3,218             | 4,947              | 939                       | 1,792            | 15,323                               |
| Pacific.....  | 221            | 28                                 | 1,967          | 8,275             | 1,582              | 3,013             | 5,740           | 17,759                               | 16,299            | 33,336             | 629                       |                  |                                      |
| California.....   | 196            | 24                                 | 1,690          | 7,634             | 1,358              | 2,636             | 5,415           | 16,638                               | 15,027            | 30,969             | 584                       | 1,575            | 14,041                               |
| Hawaii.....   | 5              | 1                                  | 120            | 160               | 111                | 189               | 104             | 155                                  | 148               | 300                | 9                         | ( <sup>2</sup> ) | ( <sup>2</sup> )                     |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures of individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State.

SIC 3981, Brooms and Brushes: New England—Maine, 3 (159); New Hampshire, 2 (100-249); Vermont, 3 (118); Massachusetts, 26 (2-139); Rhode Island, 4 (20-99); Connecticut, 9 (535); East North Central—Indiana, 11 (184); Michigan, 22 (194); West North Central—Missouri, 13 (298); Kansas, 7 (20-99); South Atlantic—Delaware, 4 (1-19); Virginia, 5 (20-99); West Virginia, 3 (1-19); South Carolina, 4 (20-99); East South Central—Kentucky, 10 (20-99); Alabama, 8 (100-249); Mississippi, 3 (1-19); West South Central—Arkansas, 9 (20-99); Oklahoma, 8 (20-99); Mountain—Montana, 1 (1-19); Colorado, 8 (20-99); New Mexico, 2 (1-19); Arizona, 1 (1-19); Utah, 1 (1-19); Pacific—Washington, 4 (20-99); Hawaii, 5 (1-19).

SIC 3982, Hard Surface Floor Coverings: New England—Maine, 1 (100-249); Massachusetts, 1 (250-499); Connecticut, 1 (100-249); Middle Atlantic—New York, 1 (1-19); New Jersey, 2 (1,000-2,499); Pennsylvania, 3 (3,980); East North Central—Ohio, 1 (100-249); West North Central—Nebraska, 1 (1-19); South Atlantic—Virginia, 1 (20-99); East South Central—Kentucky, 1 (20-99); Pacific—California, 3 (114).

SIC 3983, Matches: New England—New Hampshire, 1 (100-249); Massachusetts, 1 (250-499); Rhode Island, 1 (1-19); Middle Atlantic—New York, 2 (250-499); New Jersey, 2 (500-999); East North Central—Ohio, 4 (833); Illinois, 4 (738); Michigan, 1 (1-19); West North Central—Minnesota, 1 (250-499); Missouri, 2 (250-499); South Atlantic—North Carolina, 1 (20-99); West South Central—Louisiana, 1 (100-249); Texas, 1 (20-99); Pacific—Washington, 1 (100-249); California, 3 (250-499).

SIC 3984, Candles: New England—Vermont, 1 (1-19); Massachusetts, 6 (100-249); Middle Atlantic—New Jersey, 8 (208); Pennsylvania, 5 (100-249); East North Central—Ohio, 5 (292); Illinois, 3 (1-19); Michigan, 1 (1-19); Wisconsin, 2 (250-499); West North Central—Iowa, 1 (179); Missouri, 4 (1-19); North Dakota, 1 (1-19); Nebraska, 1 (1-19); South Atlantic—Maryland, 1 (1-19); North Carolina, 1 (1-19); Florida, 2 (1-19); West South Central—Louisiana, 3 (1-19); Texas, 8 (156); Mountain—Colorado, 1 (1-19); Arizona, 1 (1-19); Pacific—Oregon, 1 (20-99); California, 25 (271).

SIC 3987, Lampshades: New England—Vermont, 1 (1-19); Massachusetts, 6 (100-249); Rhode Island, 6 (182); Middle Atlantic—New York, 89 (920); East North Central—Michigan, 6 (20-99); West North Central—Minnesota, 1 (1-19); Iowa, 2 (20-99); South Atlantic—Delaware, 1 (1-19); Maryland, 2 (1-19); Georgia, 1 (1-19); Florida, 3 (1-19); East South Central—Kentucky, 1 (1-19); Tennessee, 1 (1-19); Mississippi, 1 (20-99); West South Central—Texas, 1 (1-19); Mountain—Arizona, 3 (1-19); Utah, 1 (1-19); Pacific—Oregon, 1 (1-19).

SIC 3988, Morticians' Goods: New England—Maine, 4 (20-99); New Hampshire, 7 (200); Rhode Island, 3 (20-99); West North Central—Minnesota, 8 (190); North Dakota, 1 (1-19); South Dakota, 1 (1-19); Nebraska, 3 (20-99); Kansas, 6 (20-99); South Atlantic—Maryland, 3 (20-99); District of Columbia, 1 (1-19); West Virginia, 4 (20-99); South Carolina, 6 (189); East South Central—Kentucky, 8 (20-99); Mississippi, 3 (20-99); Mountain—Montana, 1 (1-19); Colorado, 7 (20-99); New Mexico, 2 (1-19); Arizona, 2 (20-99); Utah, 4 (20-99); Pacific—Oregon, 4 (20-99); Hawaii, 3 (1-19).

SIC 3992, Furs, Dressed and Dyed: New England—Maine, 1 (1-19); Vermont, 1 (1-19); Connecticut, 2 (1-19); Middle Atlantic—Pennsylvania, 6 (20-99); East North Central—Illinois, 2 (100-249); Wisconsin, 1 (1-19); West North Central—Minnesota, 1 (1-19); Missouri, 2 (1-19); Nebraska, 1 (1-19); South Atlantic—Virginia, 1 (1-19); South Carolina, 1 (200-249); West South Central—Louisiana, 1 (1-19); Mountain—Colorado, 2 (20-99); Pacific—Washington, 4 (1-19); California, 5 (1-19).

SIC 3993, Signs and Advertising Displays: New England—Maine, 11 (20-99); New Hampshire, 5 (1-19); Vermont, 4 (20-99); Connecticut, 47 (333); West North Central—North Dakota, 4 (20-99); South Dakota, 6 (20-99); South Atlantic—Delaware, 4 (20-99); District of Columbia, 13 (100-249); West Virginia, 10 (20-99); East South Central—Mississippi, 11 (20-99); Mountain—Montana, 14 (20-99); Idaho, 16 (20-99); Wyoming, 5 (20-99); Nevada, 8 (158); Pacific—Alaska, 3 (1-19); Hawaii, 6 (20-99).

SIC 3995, Umbrellas, Parasols, and Canes: New England—Massachusetts, 1 (20-99); Middle Atlantic—Pennsylvania, 7 (250-499); East North Central—Ohio, 2 (20-99); Illinois, 1 (1-19); West North Central—Iowa, 1 (1-19); Missouri, 1 (1-19); South Atlantic—Maryland, 4 (214); Georgia, 1 (1-19); Florida, 3 (1-19); East South Central—Mississippi, 1 (1-19); West South Central—Arkansas, 3 (20-99); Louisiana, 1 (1-19); Texas, 1 (1-19); Mountain—Arizona, 1 (1-19); Pacific—Oregon, 1 (20-99); California, 2 (20-99).

SIC 3999, Miscellaneous Products, N.E.C.: New England—Maine, 3 (1-19); New Hampshire, 6 (20-99); Vermont, 3 (161); Rhode Island, 33 (670); East North Central—Indiana, 24 (301); Wisconsin, 29 (678); West North Central—North Dakota, 1 (1-19); South Dakota, 4 (20-99); Kansas, 2 (1-19); South Atlantic—Virginia, 9 (114); West Virginia, 1 (1-19); North Carolina, 11 (250-499); South Carolina, 4 (1-19); Georgia, 2 (1-19); East South Central—Tennessee, 13 (100-249); Alabama, 2 (1-19); Mississippi, 4 (1-19); West South Central—Arkansas, 4 (20-99); Louisiana, 4 (1-19); Oklahoma, 5 (20-99); Mountain—Montana, 1 (1-19); Colorado, 8 (20-99); New Mexico, 2 (1-19); Arizona, 7 (20-99); Utah, 5 (21-99); Nevada, 3 (20-99); Pacific—Washington, 11 (20-99); Oregon, 8 (20-99); Alaska, 1 (1-19).

<sup>2</sup>This State or division was not shown as a separate line in table 2 in the 1958 report for this industry. A footnote to table 2 in the 1958 report showed the number of establishments and total employment (either actual or in size ranges) for such States.



TABLE 3. Detailed Statistics: 1963

| Item   | Brooms and brushes (SIC 3981) | Hard surface floor coverings (SIC 3982) | Matches (SIC 3983) | Candles (SIC 3984) | Lamp shades (SIC 3987) | Morticians' goods (SIC 3988) | Furs, dressed and dyed (SIC 3992) | Signs and advertising displays (SIC 3993) | Umbrellas, parasols, and canes (SIC 3995) | Miscellaneous products, n.e.c. (SIC 3999) |
|--|-------------------------------|---|--------------------|--------------------|------------------------|------------------------------|-----------------------------------|---|---|---|
| Primary product specialization ratio <sup>1</sup> .....        | .89                           | .82                                     | .95-1.00           | .95                | .96                    | .95                          | .98                               | .96                                       | .95                                       | .94                                       |
| Coverage ratio <sup>2</sup> .....                              | .93                           | .98                                     | .95-1.00           | .94                | .98                    | .98                          | .94                               | .95                                       | .98                                       | .84                                       |
| Establishments, total.....number..                             | 643                           | 16                                      | 26                 | 111                | 228                    | 617                          | 132                               | 3,206                                     | 112                                       | 1,499                                     |
| With 1 to 19 employees.....do....                              | 476                           | 3                                       | 3                  | 79                 | 180                    | 393                          | 106                               | 2,636                                     | 77  | 1,177                                     |
| With 20 to 99 employees.....do....                             | 132                           | 4                                       | 9                  | 24                 | 43                     | 191                          | 18                                | 507                                       | 31  | 262                                       |
| With 100 employees or more.....do....                          | 35                            | 9                                       | 14                 | 8                  | 5                      | 33                           | 8                                 | 63  | 4   | 60  |
| Proprietors and working partners.....do....                    | 421                           | 3                                       | 1                  | 65                 | 152                    | 271                          | 56                                | 2,064                                     | 68  | 786                                       |
| All employees (average for the year).....do....                | 16,637                        | 6,192                                   | 4,647              | 3,167              | 3,583                  | 17,283                       | 2,577                             | 43,476                                    | 2,604                                     | 30,138                                    |
| Payroll (all employees), total for year.....\$1,000..          | 73,620                        | 38,965                                  | 21,659             | 13,225             | 12,775                 | 86,218                       | 20,092                            | 242,593                                   | 10,151                                    | 129,350                                   |
| Production workers:  |                               |   |                    |                    |                        |                              |                                   |   |   |   |
| Average for the year.....number..                              | 13,428                        | 4,958                                   | 3,988              | 2,375              | 3,160                  | 13,545                       | 2,129                             | 33,139                                    | 2,261                                     | 24,534                                    |
| March.....do....   | 13,210                        | 5,017                                   | 4,070              | 2,079              | 3,279                  | 13,658                       | 2,123                             | 32,593                                    | 2,494                                     | 22,872                                    |
| May.....do....   | 13,253                        | 5,055                                   | 4,058              | 2,152              | 2,898                  | 13,651                       | 2,174                             | 32,750                                    | 2,284                                     | 23,836                                    |
| August.....do....  | 13,416                        | 4,854                                   | 3,890              | 2,387              | 3,191                  | 13,478                       | 2,224                             | 33,748                                    | 2,014                                     | 25,434                                    |
| November.....do....  | 13,837                        | 4,907                                   | 3,945              | 2,883              | 3,271                  | 13,430                       | 2,012                             | 33,661                                    | 2,270                                     | 26,042                                    |
| Man-hours.....1,000..  | 25,801                        | 10,099                                  | 7,790              | 4,553              | 6,002                  | 27,507                       | 4,113                             | 64,837                                    | 4,325                                     | 47,811                                    |
| January-March.....do....                                       | 6,342                         | 2,639                                   | 1,999              | 1,008              | 1,541                  | 7,055                        | 1,024                             | 15,715                                    | 1,164                                     | 11,077                                    |
| April-June.....do....  | 6,459                         | 2,558                                   | 2,028              | 1,029              | 1,388                  | 7,099                        | 1,040                             | 16,300                                    | 1,081                                     | 11,809                                    |
| July-September.....do....                                      | 6,227                         | 2,389                                   | 1,806              | 1,120              | 1,498                  | 6,608                        | 1,024                             | 16,273                                    | 950                                       | 11,956                                    |
| October-December.....do....                                    | 6,773                         | 2,516                                   | 1,955              | 1,396              | 1,575                  | 6,745                        | 1,025                             | 16,549                                    | 1,130                                     | 12,969                                    |
| Wages.....\$1,000..  | 49,510                        | 29,488                                  | 17,268             | 7,884              | 9,907                  | 58,447                       | 16,383                            | 163,538                                   | 7,416                                     | 91,085                                    |
| Cost of materials, etc., total.....do....                      | 153,625                       | 80,721                                  | 24,850             | 19,886             | 17,116                 | 132,720                      | 12,094                            | 243,815                                   | 20,983                                    | 210,922                                   |
| Materials, parts, containers, and supplies consumed.....do.... | 114,561                       | 75,979                                  | 23,613             | 17,878             | 16,398                 | 121,017                      | 10,582                            | 214,641                                   | 18,873                                    | 186,739                                   |
| Cost of resales.....do....                                     | 36,401                        | 1,232                                   | 549                | 1,439              | 148                    | 9,262                        | 176                               | 12,489                                    | 714                                       | 15,657                                    |
| Fuels consumed.....do....                                      | 593                           | 1,574                                   | 264                | 269                | 36                     | 876                          | 146                               | 2,029                                     | 57  | 1,378                                     |
| Electric energy:   |                               |   |                    |                    |                        |                              |                                   |   |   |   |
| Purchased:   |                               |   |                    |                    |                        |                              |                                   |   |   |   |
| Quantity.....million kw.-hrs..                                 | 86                            | 145                                     | 29                 | 7                  | 4                      | 55                           | 10                                | 153                                       | 7   | 130                                       |
| Cost.....\$1,000..   | 1,370                         | 1,671                                   | 391                | 136                | 90                     | 1,112                        | 203                               | 3,108                                     | 142                                       | 2,372                                     |
| Generated less sold.....million kw.-hrs..                      | (D)                           | (D)                                     | (D)                | (D)                | -                      | 2                            | (D)                               | -   | (D)                                       | (D)                                       |
| Contract work.....\$1,000..                                    | 700                           | 265                                     | 33                 | 164                | 444                    | 453                          | 987                               | 11,534                                    | 1,197                                     | 4,772                                     |
| Value of shipments (including resales), total.....do....       | 321,129                       | 204,112                                 | 64,131             | 45,515             | 37,485                 | 290,036                      | 42,007                            | 646,772                                   | 36,630                                    | 458,471                                   |
| Value of resales.....do....                                    | 60,682                        | 1,475                                   | (D)                | 2,198              | 186                    | 12,350                       | (D)                               | 20,060                                    | 1,025                                     | 23,484                                    |
| Value added by manufacture, adjusted.....do....                | 167,866                       | 118,832                                 | 38,666             | 26,306             | 20,476                 | 158,422                      | 30,240                            | 407,478                                   | 16,101                                    | 252,170                                   |
| Manufacturers' inventories:                                    |                               |   |                    |                    |                        |                              |                                   |   |   |   |
| Beginning of year, total.....do....                            | 65,812                        | 34,960                                  | 10,299             | 7,527              | 2,984                  | 44,801                       | 2,574                             | 62,988                                    | 6,326                                     | 64,966                                    |
| Finished products.....do....                                   | 30,216                        | 21,543                                  | 3,417              | 4,137              | 954                    | 13,013                       | 603                               | 16,408                                    | 2,442                                     | 23,100                                    |
| Work-in-process.....do....                                     | 7,015                         | 6,657                                   | 2,280              | 434                | 448                    | 10,519                       | 1,166                             | 18,675                                    | 1,561                                     | 16,976                                    |
| Materials, supplies, fuel, etc.....do....                      | 28,581                        | 6,760                                   | 4,602              | 2,956              | 1,582                  | 21,269                       | 805                               | 27,905                                    | 2,323                                     | 24,890                                    |
| End of year, total.....do....                                  | 66,428                        | 29,921                                  | 8,914              | 8,009              | 3,127                  | 46,395                       | 2,662                             | 69,090                                    | 6,133                                     | 69,776                                    |
| Finished products.....do....                                   | 29,756                        | 17,971                                  | 2,937              | 4,745              | 1,006                  | 12,862                       | 1,211                             | 19,311                                    | 2,705                                     | 26,073                                    |
| Work-in-process.....do....                                     | 7,837                         | 5,670                                   | 2,145              | 503                | 503                    | 11,776                       | 885                               | 20,293                                    | 1,752                                     | 18,624                                    |
| Materials, supplies, fuel, etc.....do....                      | 28,835                        | 6,280                                   | 3,832              | 2,761              | 1,618                  | 21,757                       | 566                               | 29,486                                    | 1,676                                     | 25,079                                    |
| Expenditures for plant and equipment, total.....do....         | 4,773                         | 4,465                                   | 2,406              | 792                | 538                    | 5,629                        | 272                               | 16,088                                    | 197                                       | 10,417                                    |
| New, total.....do....  | 4,394                         | 4,441                                   | 1,876              | 773                | 530                    | 5,455                        | 227                               | 15,042                                    | 190                                       | 9,888                                     |
| New structures and additions to plant.....do....               | 970                           | 343                                     | 382                | 117                | 49                     | 1,965                        | 42                                | 5,227                                     | 31  | 3,387                                     |
| New machinery and equipment.....do....                         | 3,424                         | 4,098                                   | 1,494              | 656                | 481                    | 3,490                        | 185                               | 9,815                                     | 159                                       | 6,501                                     |
| Used plant and equipment.....do....                            | 379                           | 24                                      | 530                | 19                 | 8                      | 174                          | 45                                | 1,046                                     | 7   | 530                                       |
| Selected operating ratios:                                     |                               |   |                    |                    |                        |                              |                                   |   |   |   |
| Payroll/Total employment.....                                  | 4,425                         | 6,293                                   | 4,661              | 4,176              | 3,565                  | 4,989                        | 7,797                             | 5,580                                     | 3,898                                     | 4,292                                     |
| Production workers/Total employment.....                       | .81                           | .80                                     | .86                | .75                | .88                    | .78                          | .83                               | .76                                       | .87                                       | .81                                       |
| Man-hours/Production workers.....                              | 1,921                         | 2,037                                   | 1,953              | 1,917              | 1,899                  | 2,031                        | 1,932                             | 1,957                                     | 1,913                                     | 1,949                                     |
| Production worker wages/Man-hours.....                         | 1.92                          | 2.92                                    | 2.22               | 1.73               | 1.65                   | 2.12                         | 3.98                              | 2.52                                      | 1.71                                      | 1.91                                      |
| Cost of materials and payrolls/Total value of shipments.....   | .71                           | .59                                     | .73                | .73                | .80                    | .75                          | .77                               | .75                                       | .85                                       | .74                                       |
| Cost of materials/Total value of shipments.....                | .48                           | .40                                     | .39                | .44                | .46                    | .46                          | .29                               | .38                                       | .57                                       | .46                                       |
| Adjusted value added/Total employment.....                     | 10,090                        | 19,191                                  | 8,321              | 8,306              | 5,715                  | 9,166                        | 11,735                            | 9,372                                     | 6,183                                     | 8,367                                     |
| Salaries and wages/Adjusted value added.....                   | .44                           | .33                                     | .56                | .50                | .62                    | .54                          | .66                               | .60                                       | .63                                       | .51                                       |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of- |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3981.—BROOMS AND BRUSHES           |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 643                   | 302                                | 90               | 84                 | 86                 | 46                 | 24                   | 9                    | 1                    | 1                        | -                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 16,637                | 553                                | 624              | 1,162              | 2,829              | 3,248              | 3,456                | <u>4,765</u>         | (D)                  | (D)                      | -                        |
| Payroll.....\$1,000..                       | 73,620                | 1,867                              | 2,142            | 4,400              | 11,540             | 12,527             | 15,340               | <u>25,804</u>        | (D)                  | (D)                      | -                        |
| Value added, adjusted.....do....            | 167,866               | 3,568                              | 3,829            | 7,274              | 23,648             | 26,509             | 27,045               | <u>75,993</u>        | (D)                  | (D)                      | -                        |
| Value of shipments.....do....               | 321,129               | 7,882                              | 8,548            | 15,890             | 46,503             | 48,589             | 56,522               | <u>137,195</u>       | (D)                  | (D)                      | -                        |
| Capital expenditures, new...do....          | 4,394                 | 144                                | 143              | 239                | 410                | 542                | 522                  | <u>2,394</u>         | (D)                  | (D)                      | -                        |
| INDUSTRY 3982.—HARD SURFACE FLOOR COVERINGS |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 16                    | -                                  | 1                | 2                  | 3                  | 1                  | 3                    | 2                    | 3                    | -                        | 1                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 6,192                 | -                                  | <u>188</u>       | (D)                | (D)                | (D)                | 563                  | <u>5,441</u>         | (D)                  | -                        | (D)                      |
| Payroll.....\$1,000..                       | 38,965                | -                                  | <u>1,269</u>     | (D)                | (D)                | (D)                | 3,427                | <u>34,269</u>        | (D)                  | -                        | (D)                      |
| Value added, adjusted.....do....            | 118,832               | -                                  | <u>2,385</u>     | (D)                | (D)                | (D)                | 7,447                | <u>109,000</u>       | (D)                  | -                        | (D)                      |
| Value of shipments.....do....               | 204,112               | -                                  | <u>5,001</u>     | (D)                | (D)                | (D)                | 14,940               | <u>184,171</u>       | (D)                  | -                        | (D)                      |
| Capital expenditures, new...do....          | 4,441                 | -                                  | <u>28</u>        | (D)                | (D)                | (D)                | 170                  | <u>4,243</u>         | (D)                  | -                        | (D)                      |
| INDUSTRY 3983.—MATCHES                      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 26                    | 2                                  | 1                | -                  | 6                  | 3                  | 7                    | 5                    | 2                    | -                        | -                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 4,647                 | <u>202</u>                         | (D)              | -                  | (D)                | 229                | 1,112                | <u>3,104</u>         | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                       | 21,659                | <u>889</u>                         | (D)              | -                  | (D)                | 1,095              | 5,408                | <u>14,267</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....            | 38,666                | <u>1,564</u>                       | (D)              | -                  | (D)                | 2,564              | 7,962                | <u>26,576</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....               | 64,131                | <u>2,841</u>                       | (D)              | -                  | (D)                | 4,027              | 15,509               | <u>41,754</u>        | (D)                  | -                        | -                        |
| Capital expenditures, new...do....          | 1,876                 | <u>22</u>                          | (D)              | -                  | (D)                | 36                 | 93                   | <u>1,718</u>         | (D)                  | -                        | -                        |
| INDUSTRY 3984.—CANDLES                      |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 111                   | 48                                 | 14               | 17                 | 16                 | 8                  | 5                    | 3                    | -                    | -                        | -                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 3,167                 | <u>175</u>                         | (D)              | 240                | 466                | 575                | 771                  | 940                  | -                    | -                        | -                        |
| Payroll.....\$1,000..                       | 13,225                | <u>516</u>                         | (D)              | 973                | 1,817              | 2,563              | 3,038                | 4,318                | -                    | -                        | -                        |
| Value added, adjusted.....do....            | 26,306                | <u>1,176</u>                       | (D)              | 1,958              | 3,934              | 4,674              | 5,498                | 9,066                | -                    | -                        | -                        |
| Value of shipments.....do....               | 45,515                | <u>2,398</u>                       | (D)              | 3,934              | 6,839              | 8,265              | 9,361                | 14,718               | -                    | -                        | -                        |
| Capital expenditures, new...do....          | 773                   | <u>60</u>                          | (D)              | 46                 | 122                | 158                | 123                  | 264                  | -                    | -                        | -                        |
| INDUSTRY 3987.—LAMP SHADES                  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 228                   | 115                                | 27               | 38                 | 32                 | 11                 | 4                    | 1                    | -                    | -                        | -                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 3,583                 | 211                                | 170              | 538                | 993                | 758                | <u>913</u>           | (D)                  | -                    | -                        | -                        |
| Payroll.....\$1,000..                       | 12,775                | 642                                | 552              | 2,050              | 3,524              | 2,536              | <u>3,471</u>         | (D)                  | -                    | -                        | -                        |
| Value added, adjusted.....do....            | 20,476                | 1,289                              | 1,023            | 3,390              | 5,317              | 4,171              | <u>5,286</u>         | (D)                  | -                    | -                        | -                        |
| Value of shipments.....do....               | 37,485                | 2,180                              | 1,787            | 6,767              | 10,025             | 7,775              | <u>8,951</u>         | (D)                  | -                    | -                        | -                        |
| Capital expenditures, new...do....          | 530                   | 80                                 | 47               | 85                 | 192                | 98                 | <u>28</u>            | (D)                  | -                    | -                        | -                        |
| INDUSTRY 3988.—MORTICIANS' GOODS            |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                 | 617                   | 157                                | 115              | 121                | 149                | 42                 | 25                   | 6                    | 2                    | -                        | -                        |
| All employees:                              |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                            | 17,283                | 277                                | 795              | 1,752              | 4,672              | 2,747              | 3,849                | <u>3,191</u>         | (D)                  | -                        | -                        |
| Payroll.....\$1,000..                       | 86,218                | 1,144                              | 2,969            | 7,980              | 21,823             | 12,631             | 20,036               | <u>19,635</u>        | (D)                  | -                        | -                        |
| Value added, adjusted.....do....            | 158,422               | 2,805                              | 6,040            | 14,291             | 38,624             | 22,186             | 36,091               | <u>38,385</u>        | (D)                  | -                        | -                        |
| Value of shipments.....do....               | 290,036               | 5,995                              | 12,872           | 32,008             | 80,145             | 43,265             | 57,784               | <u>57,967</u>        | (D)                  | -                        | -                        |
| Capital expenditures, new...do....          | 5,455                 | 135                                | 239              | 414                | 954                | 505                | 1,119                | <u>2,089</u>         | (D)                  | -                        | -                        |

See footnotes at end of table.

TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963—Continued

| Item  | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 3992.—FURS, DRESSED AND DYED         |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 132                   | 66                                 | 18               | 22                 | 12                 | 6                  | 8                    | -                    | -                    | -                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 2,577                 | 133                                | 132              | 306                | 365                | 396                | 1,245                | -                    | -                    | -                        | -                        |
| Payroll.....\$1,000..                         | 20,092                | 892                                | 694              | 2,097              | 2,249              | 3,033              | 11,127               | -                    | -                    | -                        | -                        |
| Value added, adjusted.....do....              | 30,240                | 1,902                              | 277              | 4,616              | 3,338              | 3,949              | 16,158               | -                    | -                    | -                        | -                        |
| Value of shipments.....do....                 | 42,007                | 3,565                              | 1,930            | 9,080              | 4,812              | 5,209              | 17,411               | -                    | -                    | -                        | -                        |
| Capital expenditures, new...do....            | 227                   | 8                                  | 25               | 50                 | 18                 | (D)                | 126                  | -                    | -                    | -                        | -                        |
| INDUSTRY 3993.—SIGNS AND ADVERTISING DISPLAYS |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 3,206                 | 1,588                              | 570              | 478                | 387                | 120                | 55                   | 8                    | -                    | -                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 43,476                | 2,720                              | 3,796            | 6,500              | 11,648             | 8,369              | 8,028                | 2,415                | -                    | -                        | -                        |
| Payroll.....\$1,000..                         | 242,593               | 13,478                             | 19,387           | 35,298             | 68,038             | 45,767             | 46,915               | 13,710               | -                    | -                        | -                        |
| Value added, adjusted.....do....              | 407,478               | 29,712                             | 35,270           | 57,043             | 107,689            | 75,277             | 79,673               | 22,814               | -                    | -                        | -                        |
| Value of shipments.....do....                 | 646,772               | 48,212                             | 54,714           | 89,793             | 167,849            | 120,964            | 123,648              | 41,592               | -                    | -                        | -                        |
| Capital expenditures, new...do....            | 15,042                | 1,744                              | 1,461            | 2,135              | 4,525              | 2,856              | 1,695                | 626                  | -                    | -                        | -                        |
| INDUSTRY 3995.—UMBRELLAS, PARASOLS, AND CANES |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 112                   | 33                                 | 16               | 28                 | 23                 | 8                  | 4                    | -                    | -                    | -                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 2,604                 | 61                                 | 105              | 374                | 764                | 547                | 753                  | -                    | -                    | -                        | -                        |
| Payroll.....\$1,000..                         | 10,151                | 163                                | 389              | 1,466              | 2,973              | 2,048              | 3,112                | -                    | -                    | -                        | -                        |
| Value added, adjusted.....do....              | 16,101                | 430                                | 605              | 2,257              | 5,079              | 2,978              | 4,752                | -                    | -                    | -                        | -                        |
| Value of shipments.....do....                 | 36,630                | 755                                | 1,486            | 5,765              | 11,616             | 7,431              | 9,577                | -                    | -                    | -                        | -                        |
| Capital expenditures, new...do....            | 190                   | 6                                  | 12               | 25                 | 25                 | 51                 | 71                   | -                    | -                    | -                        | -                        |
| INDUSTRY 3999.—MISCELLANEOUS PRODUCTS, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..                   | 1,499                 | 695                                | 252              | 230                | 190                | 72                 | 43                   | 15                   | 1                    | 1                        | -                        |
| All employees:                                |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....                              | 30,138                | 1,142                              | 1,711            | 3,271              | 5,937              | 5,099              | 6,151                | <u>6,827</u>         | (D)                  | (D)                      | -                        |
| Payroll.....\$1,000..                         | 129,350               | 4,407                              | 6,564            | 12,805             | 23,967             | 22,421             | 25,425               | <u>33,761</u>        | (D)                  | (D)                      | -                        |
| Value added, adjusted.....do....              | 252,170               | 11,469                             | 14,571           | 25,992             | 48,351             | 43,742             | 43,580               | <u>64,465</u>        | (D)                  | (D)                      | -                        |
| Value of shipments.....do....                 | 458,471               | 19,224                             | 25,578           | 43,911             | 87,120             | 86,151             | 83,188               | <u>113,299</u>       | (D)                  | (D)                      | -                        |
| Capital expenditures, new...do....            | 9,888                 | 614                                | 657              | 911                | 2,192              | 1,769              | 2,152                | <u>1,593</u>         | (D)                  | (D)                      | -                        |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left. n.e.c. Not elsewhere classified.



**TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958**

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                 | Value of shipments |                     |                    |                        |                                      | Value of primary product shipments |                       |                          |                               |
|-----------|--|--------------------|---------------------|--------------------|------------------------|--------------------------------------|------------------------------------|-----------------------|--------------------------|-------------------------------|
|           |  | Total              | Primary products    | Secondary products | Miscellaneous receipts | Primary product specialization ratio | Total, made in all industries      | Made in this industry | Made in other industries | Coverage ratio                |
|           |  | (\$1,000)          | (\$1,000)           | (\$1,000)          | (\$1,000)              | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)                          | (\$1,000)             | (\$1,000)                | Col. B<br>Col. F<br>(percent) |
|           |  | A                  | B                   | C                  | D                      | E                                    | F                                  | G                     | H                        | I                             |
| 3981      | Brooms and brushes.....1963..            | 321,129            | 231,311             | 27,209             | 62,609                 | 89                                   | 247,660                            | 231,311               | 16,349                   | 93                            |
|           | 1958..                                   | 275,722            | 196,154             | 24,188             | 55,380                 | 89                                   | 208,057                            | 196,154               | 11,903                   | 94                            |
| 3982      | Hard surface floor covering.....1963..   | 204,112            | 165,169             | 37,050             | 1,893                  | 82                                   | 168,071                            | 165,169               | 2,902                    | 98                            |
|           | 1958..                                   | 181,584            | 149,577             | 28,670             | 3,337                  | 84                                   | 151,893                            | 149,577               | 2,316                    | 98                            |
| 3983      | Matches.....1963..                       | 64,131             | (D)                 | (D)                | (D)                    | (95-100)                             | 64,756                             | (D)                   | (D)                      | (95-100)                      |
|           | 1958..                                   | 67,018             | (D)                 | (D)                | 460                    | (D)                                  | 67,972                             | (D)                   | (D)                      | (D)                           |
| 3984      | Candles.....1963..                       | 45,515             | 41,018              | 2,244              | 2,253                  | 95                                   | 43,661                             | 41,018                | 2,643                    | 94                            |
|           | 1958..                                   | 33,802             | 30,079              | 2,055              | 1,668                  | 94                                   | 31,746                             | 30,079                | 1,667                    | 95                            |
| 3987      | Lamp shades.....1963..                   | 37,485             | 35,215              | 1,648              | 622                    | 96                                   | 35,896                             | 35,215                | 681                      | 98                            |
|           | 1958..                                   | 34,066             | 32,773              | 970                | 323                    | 97                                   | 33,835                             | 32,773                | 1,062                    | 97                            |
| 3988      | Morticians' goods.....1963..             | 290,036            | 261,526             | 14,380             | 14,130                 | 95                                   | 267,439                            | 261,526               | 5,913                    | 98                            |
|           | 1958..                                   | 237,773            | 215,268             | 11,109             | 11,396                 | 95                                   | 217,671                            | 215,268               | 2,403                    | 99                            |
| 3992      | Furs, dressed and dyed.....1963..        | 42,007             | <sup>1</sup> 40,902 | 708                | 397                    | 98                                   | <sup>1</sup> 43,564                | 40,902                | 2,662                    | 94                            |
|           | 1958..                                   | 29,152             | <sup>1</sup> 28,904 | -                  | 248                    | 100                                  | <sup>1</sup> 28,904                | 28,904                | -                        | 100                           |
| 3993      | Signs and advertising displays....1963.. | 646,772            | 554,874             | 25,664             | 66,234                 | 96                                   | 583,811                            | 554,874               | 28,937                   | 95                            |
|           | 1958..                                   | 457,025            | 388,726             | 19,247             | 49,052                 | 95                                   | 407,893                            | 388,726               | 19,167                   | 95                            |
| 3995      | Umbrellas, parasols, and canes....1963.. | 36,630             | 33,365              | 1,848              | 1,417                  | 95                                   | 34,135                             | 33,365                | 770                      | 98                            |
|           | 1958..                                   | 35,161             | 32,973              | 1,470              | 718                    | 96                                   | 34,658                             | 32,973                | 1,685                    | 95                            |
| 3999      | Miscellaneous products, n.e.c.....1963.. | 458,471            | 395,469             | 27,319             | 35,683                 | 94                                   | 471,907                            | 395,469               | 76,438                   | 84                            |
|           | 1958..                                   | 358,076            | 309,987             | 26,953             | 21,136                 | 92                                   | 357,101                            | 309,987               | 47,114                   | 87                            |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>Includes receipts for work done on materials owned by others.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars except for ranges (shown in parentheses) which are expressed in millions of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c) miscellaneous

receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                            | Class of products and miscellaneous receipts  | All industries | Brooms and brushes (SIC 3981)           | Other industries | Prod. class code        | Class of products and miscellaneous receipts                        | All industries | Matches (SIC 3983)           | Other industries |
|---|---|----------------|---|------------------|-------------------------|---|----------------|------------------------------|------------------|
| <b>BROOMS AND BRUSHES INDUSTRY</b>          |   |                |   |                  | <b>MATCHES INDUSTRY</b> |   |                |                              |                  |
|   | Total shipments and receipts of the industry.....   | (X)            | 321,129                                 | (X)              |                         | Total shipments and receipts of the industry.....                   | (X)            | 64,131                       | (X)              |
|   | Primary products, total.....  | 247,660        | 231,311                                 | 16,349           | 39830                   | Matches.....  | 64,756         | (D)                          | (D)              |
| 39811                                       | Brooms.....   | 37,997         | 34,884                                  | 3,113            |                         | Secondary products.....   | (X)            | (D)                          | (X)              |
| 39812                                       | Paint and varnish brushes.....  | 73,601         | 72,849                                  | 752              |                         | Miscellaneous receipts, total.....                                  | (X)            | (D)                          | (X)              |
| 39813                                       | Other brushes.....  | 126,011        | 113,689                                 | 12,322           |                         |   |                |                              |                  |
| 39810                                       | Brooms and brushes, n.s.k.....  | 10,051         | 9,889                                   | 162              |                         |   |                |                              |                  |
|   | Secondary products, total.....  | (X)            | 27,209                                  | (X)              |                         |   | All industries | Candles (SIC 3984)           | Other industries |
| 23920                                       | Housefurnishings, n.e.c.....  | (X)            | 8,151                                   | (X)              |                         |   |                |                              |                  |
|   | Other secondary products.....   | (X)            | 19,058                                  | (X)              |                         | <b>CANDLES INDUSTRY</b>   |                |                              |                  |
| 30795                                       | Industrial plastics products...   | (X)            | (2-5)                                   | (X)              |                         | Total shipments and receipts of the industry.....                   | (X)            | 45,515                       | (X)              |
| 30797                                       | Plastics dinnerware, tableware, and kitchenware.....  | (X)            | (over 2)                                | (X)              |                         | Candles.....  | 43,661         | 41,018                       | 2,643            |
|   | Miscellaneous receipts, total.....  | (X)            | 62,609                                  | (X)              | 39840                   | Secondary products.....   | (X)            | 2,244                        | (X)              |
|   | Contract and commission work....  | (X)            | 1,629                                   | (X)              |                         | Miscellaneous receipts, total.....                                  | (X)            | 2,253                        | (X)              |
|   | Sales of products bought and resold.....  | (X)            | 60,682                                  | (X)              |                         | Sales of products bought and resold                                 | (X)            | 2,198                        | (X)              |
|   | Other.....  | (X)            | 298                                     | (X)              |                         | Other miscellaneous receipts.....                                   | (X)            | 55                           | (X)              |
|   | Listing of other industries with over \$2 million shipments of the primary product classes: |                |   |                  |                         |   | All industries | Lamp shades (SIC 3987)       | Other industries |
| 39811                                       | 2392 Housefurnishings, n.e.c....  | (X)            | (X)                                     | 2,274            |                         |   |                |                              |                  |
| 39813                                       | 2842 Polishes and sanitation goods.....   | (X)            | (X)                                     | (2-5)            |                         |   |                |                              |                  |
|   | 3952 Lead pencils and art goods.  | (X)            | (X)                                     | (over 2)         |                         |   |                |                              |                  |
|   |   |                |   |                  |                         |   |                |                              |                  |
|   |   | All industries | Hard surface floor coverings (SIC 3982) | Other industries |                         |   |                |                              |                  |
| <b>HARD SURFACE FLOOR COVERING INDUSTRY</b> |   |                |   |                  |                         |   |                |                              |                  |
|   | Total shipments and receipts of the industry.....   | (X)            | 204,112                                 | (X)              | 39870                   | Total shipments and receipts of the industry.....                   | (X)            | 37,485                       | (X)              |
|   | Primary products, total.....  | 168,071        | 165,169                                 | 2,902            |                         | Lamp shades.....  | 35,896         | 35,215                       | <sup>1</sup> 681 |
| 39821                                       | Linoleum.....   | 33,739         | (D)                                     | (D)              |                         | Secondary products.....   | (X)            | 1,648                        | (X)              |
| 39822                                       | Asphalted-felt-base and supported plastic floor covering.....                               | 133,618        | (D)                                     | (D)              |                         | Miscellaneous receipts, total.....                                  | (X)            | 622                          | (X)              |
| 39820                                       | Hard surface floor coverings n.s.k.....   | 714            | 714                                     | -                |                         | Contract and commission work.....                                   | (X)            | <sup>1</sup> 392             | (X)              |
|   | Secondary products, total.....  | (X)            | 37,050                                  | (X)              |                         | Sales of products bought and resold                                 | (X)            | <sup>1</sup> 186             | (X)              |
| 28424                                       | Polishing preparations and related products.....  | (X)            | (over 2)                                | (X)              |                         | Other miscellaneous receipts.....                                   | (X)            | <sup>1</sup> 44              | (X)              |
| 28911                                       | Glues and adhesives and sizes....   | (X)            | (5-10)                                  | (X)              |                         |   | All industries | Morticians' goods (SIC 3988) | Other industries |
| 29521                                       | Asphalt and tar saturated felts and boards for nonbuilding use..                            | (X)            | (2-5)                                   | (X)              |                         |   |                |                              |                  |
| 32925                                       | Asphalt floor tile.....   | (X)            | (over 2)                                | (X)              |                         | Total shipments and receipts of the industry.....                   | (X)            | 290,036                      | (X)              |
| 32926                                       | Vinyl asbestos floor tile.....  | (X)            | (over 2)                                | (X)              | 39881                   | Primary products.....   | 267,439        | 261,526                      | 5,913            |
|   | Miscellaneous receipts, total.....  | (X)            | 1,893                                   | (X)              | 39882                   | Metal caskets and coffins, completely lined and trimmed.....        | 123,648        | 121,353                      | 2,295            |
|   | Sales of products bought and resold.....  | (X)            | 1,475                                   | (X)              | 39883                   | Wood caskets and coffins, completely lined and trimmed.....         | 67,327         | 66,956                       | <sup>1</sup> 371 |
|   | Other.....  | (X)            | 418                                     | (X)              | 39880                   | Other caskets and coffins, metal vaults, and morticians' supplies.. | 64,099         | 60,917                       | 3,182            |
|   |   |                |   |                  |                         | Morticians' goods, n.e.c.....                                       | 12,365         | 12,300                       | <sup>1</sup> 65  |

See footnotes at end of table.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code | Class of products and miscellaneous receipts  | All industries | Morticians' goods (SIC 3988)              | Other industries | Prod. class code | Class of products and miscellaneous receipts  | All industries | Signs and advertising displays (SIC 3993) | Other industries |
|------------------|---|----------------|---|------------------|------------------|---|----------------|---|------------------|
|                  | MORTICIANS' GOODS INDUSTRY—Con.   |                |   |                  |                  | SIGNS AND ADVERTISING DISPLAYS INDUSTRY—Continued   |                |   |                  |
| 38410            | Secondary products.....   | (X)            | 14,380                                    | (X)              |                  | Listing of other industries with over \$2 million shipments of the primary product classes: |                |   |                  |
|                  | Surgical and medical instruments and apparatus.....   | (X)            | (over 2)                                  | (X)              | 39932            | 3079 Plastics products.....   | (X)            | (X)                                       | 3,089            |
|                  | Miscellaneous receipts, total.....  | (X)            | 14,130                                    | (X)              | 39933            | 3639 Household appliances, n.e.c.   | (X)            | (X)                                       | (over 2)         |
|                  | Contract and commission work.....   | (X)            | 1,360                                     | (X)              |                  | 2752 Printing lithographic.....   | (X)            | (X)                                       | (2-5)            |
|                  | Sales of products bought and resold.....  | (X)            | 12,350                                    | (X)              |                  |   |                |   |                  |
|                  | Other miscellaneous receipts.....   | (X)            | 420                                       | (X)              |                  |   |                |   |                  |
|                  | Listing of other industries with over \$2 million shipments of the primary product classes: |                |   |                  |                  | UMBRELLAS, PARASOLS, AND CANES INDUSTRY   |                |   |                  |
|                  | 3443 Boiler shop products.....  | (X)            | (X)                                       | (over 2)         |                  | Total shipments and receipts of the industry.....   | (X)            | 36,630                                    | (X)              |
|                  |   | All industries | Furs, dressed and dyed (SIC 3992)         | Other industries | 39950            | Umbrellas, parasols, and canes.....   | 34,135         | 33,365                                    | 770              |
|                  | FURS, DRESSED AND DYED INDUSTRY   |                |   |                  |                  | Secondary products, total.....  | (X)            | 1,848                                     | (X)              |
|                  | Total shipments and receipts of the industry.....   | (X)            | 42,007                                    | (X)              |                  | Miscellaneous receipts.....   | (X)            | 1,417                                     | (X)              |
| 39920            | Furs, dressed and dyed.....   | 143,564        | 40,902                                    | 2,662            |                  | Contract and commission work.....   | (X)            | 335                                       | (X)              |
|                  | Secondary products.....   | (X)            | 708                                       | (X)              |                  | Sales of products bought and resold   | (X)            | 1,025                                     | (X)              |
|                  | Miscellaneous receipts.....   | (X)            | 397                                       | (X)              |                  | Other miscellaneous receipts.....   | (X)            | 57  | (X)              |
|                  | Listing of other industries with over \$2 million shipments of the primary product classes: |                |   |                  |                  |   |                |   |                  |
| 39920            | 2371 Fur goods.....   | (X)            | (X)                                       | 2,662            |                  | MISCELLANEOUS PRODUCTS, N.E.C. INDUSTRY   |                |   |                  |
|                  |   | All industries | Signs and advertising displays (SIC 3993) | Other industries |                  | Total shipments and receipts of the industry.....   | (X)            | 458,471                                   | (X)              |
|                  |   |                |   |                  | 39991            | Primary products, total.....  | 471,907        | 395,469                                   | 76,438           |
|                  |   |                |   |                  |                  | Chemical fire extinguishing equipment and parts.....  | 52,319         | 38,026                                    | 14,293           |
|                  |   |                |   |                  | 39992            | Coin-operated amusement machines...   | 30,009         | 29,876                                    | 133              |
|                  |   |                |   |                  | 39993            | Other miscellaneous fabricated products.....  | 327,597        | 265,923                                   | 61,674           |
|                  |   |                |   |                  | 39990            | Miscellaneous products, n.e.c., n.s.k.....  | 61,982         | 61,644                                    | 338              |
|                  |   |                |   |                  |                  | Secondary products, total.....  | (X)            | 27,319                                    | (X)              |
|                  |   |                |   |                  | 24995            | Wood products, n.e.c.....   | (X)            | (over 2)                                  | (X)              |
|                  |   |                |   |                  | 35452            | Precision measuring tools.....  | (X)            | (over 2)                                  | (X)              |
|                  |   |                |   |                  |                  | Miscellaneous receipts, total.....  | (X)            | 35,683                                    | (X)              |
| 39931            | Luminous tubing and bulb signs....  | 144,524        | 142,624                                   | 1,900            |                  | Contract and commission work.....   | (X)            | 9,066                                     | (X)              |
| 39932            | Nonelectric signs and advertising displays.....   | 302,317        | 284,391                                   | 17,926           |                  | Sales of products bought and resold   | (X)            | 23,484                                    | (X)              |
| 39933            | Advertising novelties.....  | 83,687         | 74,752                                    | 8,935            |                  | Receipts for repair work.....   | (X)            | 870                                       | (X)              |
| 39930            | Signs and advertising displays, n.s.k.....  | 53,283         | 53,107                                    | 176              |                  | Other miscellaneous receipts.....   | (X)            | 2,263                                     | (X)              |
|                  | Secondary products, total.....  | (X)            | 25,664                                    | (X)              |                  | Listing of other industries with over \$2 million shipments of the primary product classes: |                |   |                  |
| 34612            | Job stampings, except automotive..  | (X)            | (2-5)                                     | (X)              | 39991            | 3717 Motor vehicles and parts....   | (X)            | (X)                                       | (2-5)            |
|                  | Miscellaneous receipts, total.....  | (X)            | 66,234                                    | (X)              | 39993            | 3729 Aircraft equipment, n.e.c....  | (X)            | (X)                                       | (over 2)         |
|                  | Contract and commission work.....   | (X)            | 11,728                                    | (X)              |                  | 2621 Paper mills, except building.  | (X)            | (X)                                       | (over 2)         |
|                  | Sales of products bought and resold.....  | (X)            | 20,060                                    | (X)              |                  | 2731 Books, publishing and printing   | (X)            | (X)                                       | (over 2)         |
|                  | Receipts for installation.....  | (X)            | 14,027                                    | (X)              |                  | 2844 Toilet preparations.....   | (X)            | (X)                                       | 7,253            |
|                  | Receipts for repair work.....   | (X)            | 15,859                                    | (X)              |                  | 2899 Chemical preparations, n.e.c.  | (X)            | (X)                                       | (over 2)         |
|                  | Other.....  | (X)            | 4,560                                     | (X)              |                  | 3634 Electric housewares and fans.  | (X)            | (X)                                       | (over 2)         |
|                  |   |                |   |                  |                  | 3951 Pens and mechanical pencils..  | (X)            | (X)                                       | (over 2)         |
|                  |   |                |   |                  |                  | 3964 Needles, pins, and fasteners.  | (X)            | (X)                                       | (over 2)         |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.  
<sup>1</sup>Includes receipts for work done on materials owned by others.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product  | Unit of measure | Total shipments including interplant transfers |                 |          |                 |
|--------------|--|-----------------|--|-----------------|----------|-----------------|
|              |  |                 | 1963   |                 | 1958     |                 |
|              |  |                 | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |
| 3981- --     | BROOMS AND BRUSHES, TOTAL.....   |                 | (X)  | 247,660         | (X)      | 208,057         |
| 39811 --     | Brooms, total <sup>1</sup> .....   |                 | (X)  | 37,997          | (X)      | 33,741          |
| 39811 13     | Household floor brooms.....  | 1,000 dozen...  | 1,765  | 20,486          | 1,700    | 19,038          |
| 39811 98     | Other brooms (industrial brooms, whisk brooms, toy brooms, hearth brooms, street-sweeping machine brooms, street brooms, stable brooms, etc.)..... |                 |  |                 |          |                 |
| 39811 00     | Brooms, n.s.k.....   |                 | (X)  | 12,663          | (X)      | 4,951           |
| 39812 --     | Paint and varnish brushes, total.....  |                 | (X)  | 73,601          | (X)      | 60,666          |
|              | Paint and varnish brushes, including whitewash, kalsomine, paperhanging, marking, and stenciling brushes:  |                 |  |                 |          |                 |
| 39812 11     | Made of pure bristle.....  | 1,000 dozen...  | 3,731  | 29,085          | 4,818    | 30,085          |
| 39812 31     | Made of synthetic bristle.....   | do.....         | 2,592  | 23,505          | 1,264    | 14,917          |
| 39812 51     | Made of other materials, including mixtures.....   | do.....         | 498  | 2,430           | 623      | 6,185           |
| 39812 71     | Paint rollers, complete units.....   | do.....         | 1,740  | 16,397          | 617      | 8,234           |
| 39812 00     | Paint and varnish brushes, n.s.k.....  |                 | (X)  | 2,184           | (X)      | 1,245           |
| 39813 --     | Other brushes, total.....  |                 | (X)  | 126,011         | (X)      | 103,389         |
| 39813 11     | Artists' brushes and hair pencils, except artists' air brushes..   | 1,000 dozen...  | (NA)   | 5,357           | 2,014    | 4,002           |
|              | Personal brushes:  |                 |  |                 |          |                 |
| 39813 21     | Tooth brushes.....   | do.....         | 14,376   | 21,847          | 12,179   | 20,514          |
| 39813 27     | Hairbrushes.....   | do.....         | 2,061  | 17,353          | 1,264    | 7,974           |
| 39813 29     | Other, including shaving brushes.....  |                 | (X)  | 3,310           | (X)      | 5,402           |
|              | Maintenance brushes (floor sweeps and brushes, scrub brushes, dusting brushes, window brushes, etc.; excluding twisted-in-wire brushes):           |                 |  |                 |          |                 |
| 39813 35     | Household.....   |                 | (X)  | 14,102          | (X)      | 13,903          |
| 39813 37     | Industrial.....  |                 | (X)  | 14,142          | (X)      | 13,094          |
| 39813 43     | Industrial brushes, except maintenance, including power-driven rotary, end, cup, jewelers' and dentists' brushes, etc.....                         |                 | (X)  | 22,335          | (X)      | 14,264          |
| 39813 51     | Twisted-in-wire brushes (all types).....   |                 | (X)  | 12,706          | (X)      | 9,678           |
| 39813 98     | Other brushes.....   |                 | (X)  | 9,802           | (X)      | 9,206           |
| 39813 00     | Other brushes, n.s.k.....  |                 | (X)  | 5,057           | (X)      | 5,352           |
| 39810 00     | Brooms and brushes, n.s.k.....   |                 | (X)  | 10,051          | (X)      | 10,261          |

| Product  | Unit of measure   | 1963                                   |   | 1958            |  |   |                 |
|----------|---|--|---|-----------------|--|---|-----------------|
|          |   | Production for all purposes (quantity) | Total shipments, including interplant transfers |                 | Production for all purposes (quantity) | Total shipments, including interplant transfers |                 |
|          |   |  | Quantity  | Value (\$1,000) |  | Quantity  | Value (\$1,000) |
| 3982- -- | LINOLEUM, ASPHALTED-FELT-BASE AND OTHER HARD SURFACE FLOOR COVERINGS, N.E.C., TOTAL.....          | (X)                                    | (X)   | 168,071         | (X)                                    | (X)   | 151,893         |
| 39821 -- | Linoleum.....   | (X)                                    | (X)   | 33,739          | (X)                                    | (X)   | 47,839          |
|          | Sheet goods:  |  |   |                 |  |   |                 |
| 39821 11 | Over-all thickness 1/8" and thicker.....  | } 21,291                               | } 23,259  | } 33,739        | } 23,727                               | } 23,012  | } 34,951        |
|          | Less than 1/8" thickness:   |  |   |                 |  |   |                 |
| 39821 13 | .050 wearing surface.....   |  |   |                 |  |   |                 |
| 39821 15 | Less than .050 wearing surface.....   |  |   |                 |  |   |                 |
|          | Tile:   |  |   |                 |  |   |                 |
| 39821 31 | Over-all thickness 1/8" or thicker (backed and unbacked).....                                     | } 21,291                               | } 23,259  | } 33,739        | } 2,730                                | } 2,562   | } 1,894         |
|          | Less than 1/8" over-all thickness:  |  |   |                 |  |   |                 |
| 39821 33 | .050 wearing surface.....   |  |   |                 |  |   |                 |
| 39821 35 | Less than .050 wearing surface.....   |  |   |                 |  |   |                 |
| 39821 00 | Linoleum, n.s.k.....  | (X)                                    | (X)   | -               | (X)                                    | (X)   | 517             |
| 39822 -- | Asphalted-felt-base and supported plastic floor coverings, total.....                             | (X)                                    | (X)   | 133,618         | (X)                                    | (X)   | 102,580         |
|          | Floor covering:   |  |   |                 |  |   |                 |
|          | Enamel coated or printed:   |  |   |                 |  |   |                 |
| 39822 12 | Border rugs.....  | 1,000 sq.yds.                          | 52,992  | 56,701          | 14,943                                 | 59,044  | 59,682          |
|          | Sheet goods:  |  |   |                 |  |   |                 |
| 39822 22 | Wider than 8/4.....   | } 13,466                               | } 11,923  | } 3,657         | } 40,690                               | } 40,903  | } 15,563        |
| 39822 25 | 8/4 and narrower.....   |  |   |                 |  |   |                 |
| 39822 32 | Plastic coated or plastic printed border rugs and sheet goods, including rotogravure printed..... | do.....                                | 77,243  | 77,149          | 44,340                                 |   |                 |
| 39822 49 | Other asphalted-felt-base floor covering.....   | do.....                                |   |                 |  |   |                 |
| 39822 51 | Wall covering.....  | do.....                                | 4,599   | 5,380           | 2,477                                  | 63,352  | 56,406          |

See footnotes at end of table.



TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Unit of measure | 1963                                   |   |                 | 1958                                   |   |                 |
|--------------|---|-----------------|--|---|-----------------|--|---|-----------------|
|              |   |                 | Production for all purposes (quantity) | Total shipments, including interplant transfers |                 | Production for all purposes (quantity) | Total shipments, including interplant transfers |                 |
|              |   |                 |  | Quantity  | Value (\$1,000) |  | Quantity  | Value (\$1,000) |
| 3982- --     | LINOLEUM, ASPHALTED-FELT-BASE AND OTHER HARD SURFACE FLOOR COVERINGS, N.E.C.—Continued  |                 |  |   |                 |  |   |                 |
| 39822 --     | Asphalted-felt-base and supported plastic floor coverings—Continued   |                 |  |   |                 |  |   |                 |
|              | Plastic floor, wall, and counter covering: Supported, including scrap vinyl backed:   |                 |  |   |                 |  |   |                 |
| 39822 81     | Sheet goods <sup>2</sup> .....  | 1,000 sq.yds.   | 30,709                                 | 28,566  | 65,197          | 20,470                                 | 20,162  | 27,502          |
| 39822 91     | Tile.....   | ...do.....      | 1,565                                  | 1,631   | 2,602           | 2,326                                  | 2,809   | 3,810           |
| 39822 00     | Asphalted-felt-base and supported plastic floor covering, n.s.k.....  |                 | (X)                                    | (X)   | 402             | (X)                                    | (X)   | -               |
| 39820 00     | Linoleum, asphalted-felt-base and other hard surface floor coverings, n.e.c., n.s.k.....  |                 | (X)                                    | (X)   | 714             | (X)                                    | (X)   | 1,474           |
|              |   |                 |  | Total shipments including interplant transfers  |                 |  |   |                 |
|              |   |                 |  | 1963  |                 | 1958                                   |   |                 |
|              |   |                 |  | Quantity  | Value (\$1,000) | Quantity                               | Value (\$1,000)                                 |                 |
| 3983- --     | MATCHES, TOTAL.....   |                 |  | (X)   | 64,756          | (X)                                    | 67,972  |                 |
|              | Wooden stem:  |                 |  |   |                 |  |   |                 |
| 39830 12     | Packed in boxes of over 100 matches.....  | Million matches |  | (NA)  | 2,511           | 39,066                                 | 8,547   |                 |
|              | Packed in boxes of not over 100 matches:  |                 |  |   |                 |  |   |                 |
| 39830 31     | Strike anywhere.....  | ...do.....      |  | 15,022  | 2,736           | 17,962                                 | 2,862   |                 |
| 39830 35     | Strike on box.....  | ...do.....      |  | (NA)  | 2,585           | 56,700                                 | 6,238   |                 |
| 39830 61     | Paper stem, packed in books or otherwise.....   | ...do.....      |  | 264,820   | 56,538          | 287,154                                | 50,003  |                 |
| 39830 00     | Matches, n.s.k.....   |                 |  | -   | 386             | (X)                                    | 322   |                 |
| 39840 11     | CANDLES, INCLUDING TAPERS, TOTAL.....   |                 |  | (X)   | 43,661          | (X)                                    | 31,746  |                 |
| 39870 11     | LAMP SHADES, TOTAL.....   |                 |  | (X)   | 35,896          | (X)                                    | 33,835  |                 |
| 3988- --     | MORTICIANS' GOODS, TOTAL.....   |                 |  | (X)   | 267,439         | (X)                                    | 217,671   |                 |
| 39881 11     | Metal caskets and coffins, completely lined and trimmed.....  | 1,000 units.... |  | 825   | 123,648         | 556                                    | 85,181  |                 |
| 39882 --     | Wood caskets and coffins, completely lined and trimmed.....   |                 |  | (X)   | 67,327          | (X)                                    | 69,995  |                 |
| 39882 11     | Cloth covered, completely lined and trimmed.....  | 1,000 units.... |  | 565   | 36,274          | 638                                    | 39,815  |                 |
| 39882 52     | Hard finish, completely lined and trimmed.....  | ...do.....      |  | 204   | 27,221          | 184                                    | 24,056  |                 |
| 39882 00     | Wood caskets and coffins, completely lined and trimmed, n.s.k....   |                 |  | (X)   | 3,832           | (X)                                    | 6,124   |                 |
| 39883 --     | Other caskets and coffins, metal vaults, and morticians' supplies, total.....   |                 |  | (X)   | 64,099          | (X)                                    | 53,234  |                 |
| 39883 11     | Caskets and coffins, other than metal or wood, completely lined and trimmed (masonite, plastic, glass fibrous material, etc.)..   |                 |  | (NA)  | 3,461           |  |   |                 |
| 39883 21     | Caskets other than metal and wood (plastic, glass fibrous material, masonite, etc.) unlined and/or untrimmed.....   |                 |  | (NA)  | 174             | (NA)                                   | 1,118   |                 |
|              | Unlined and/or untrimmed caskets:   |                 |  |   |                 |  |   |                 |
| 39883 31     | Metal.....  | 1,000 units.... |  | 257   | 16,063          | 186                                    | 13,803  |                 |
| 39883 55     | Wood.....   | ...do.....      |  | 52  | 3,571           | 71                                     | 4,864   |                 |
| 39883 71     | Casket and coffin shells.....   | ...do.....      |  | 207   | 8,151           | 265                                    | 6,746   |                 |
| 39883 81     | Outer burial boxes, except concrete (excluding shipping containers).....  | ...do.....      |  | 156   | 2,391           | 190                                    | 2,475   |                 |
| 39883 91     | Metal burial vaults (12 gauge or heavier) (excluding shipping cases).....   | ...do.....      |  | 108   | 9,657           | (NA)                                   | 6,705   |                 |
| 39883 93     | Other burial vaults (plastic, glass fibrous material, masonite, etc.) except concrete.....  |                 |  | (NA)  | 239             |  |   |                 |
| 39883 98     | Other morticians' supplies, including embalming chemicals, burial garments, casket shipping containers and cases, inner liners sold as such, and morticians' equipment and supplies.... |                 |  | (X)   | 19,609          | (X)                                    | 12,016  |                 |
| 39883 00     | Other caskets and coffins, metal vaults, and morticians' supplies, n.s.k.....   |                 |  | (X)   | 783             | (X)                                    | 5,507   |                 |
| 39880 00     | Morticians' goods, n.s.k.....   |                 |  | (X)   | 12,365          | (X)                                    | 9,261   |                 |
| 39920 11     | DRESSED AND DYED FURS, TOTAL <sup>3</sup> .....   |                 |  | -   | 43,564          | -                                      | 28,904  |                 |

See footnotes at end of table.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958—Continued

| Product code | Product   | Value of shipments including interplant transfers (\$1,000) |         |
|--------------|---|---|---------|
|              |   | 1963  | 1958    |
| 3993- --     | SIGNS AND ADVERTISING DISPLAYS, TOTAL.....  | 583,811   | 407,893 |
| 39931 11     | Luminous tubing, fluorescent lamp and incandescent bulb signs (electric).....   | 144,524   | 99,855  |
| 39932 --     | Nonelectric signs and advertising displays, total.....  | 302,317   | 193,482 |
|              | Metal signs, by any application process, including point-of-sale signs, road signs, truck signs, highway and street markers, and all other metal signs: |   |         |
| 39932 11     | Porcelain enameled.....   | 9,019   | 13,956  |
| 39932 19     | All other metal signs.....  | 50,641  | 34,758  |
| 39932 21     | Screen processed signs (other than metal).....  | 24,563  | 13,424  |
| 39932 31     | Window, backbar, counter, and lobby cutouts and displays.....   | 52,716  | 39,011  |
| 39932 98     | All other signs and advertising displays, including sign letters.....   | 138,884   | 69,646  |
| 39932 00     | Nonelectric signs and advertising displays, n.s.k.....  | 26,494  | 22,688  |
| 39933 11     | Advertising specialties.....  | 83,687  | 64,361  |
| 39930 00     | Signs and advertising displays, n.s.k.....  | 53,283  | 50,195  |
| 39950 11     | UMBRELLAS, PARASOLS, AND CANES, TOTAL.....  | 34,135  | 34,658  |

| Product  | Unit of measure   | Total shipments including interplant transfers |                 |          |                 |         |
|----------|---|--|-----------------|----------|-----------------|---------|
|          |   | 1963   |                 | 1958     |                 |         |
|          |   | Quantity                                       | Value (\$1,000) | Quantity | Value (\$1,000) |         |
| 3999- -- | MISCELLANEOUS PRODUCTS, N.E.C., TOTAL.....  | (X)  | 471,907         | (X)      | 357,101         |         |
| 39991 -- | Chemical fire extinguishing equipment and parts, total.....   | (X)  | 52,319          | (X)      | 46,814          |         |
|          | Hand portable extinguishers meeting the specifications of Underwriters' Laboratories and Factory Mutual Laboratories: |  |                 |          |                 |         |
| 39991 11 | Soda-acid.....  | No. of units..                                 | 112,271         | 1,431    | 125,058         | 2,036   |
| 39991 13 | Carbon-dioxide.....   | ..do.....                                      | 408,552         | 8,700    | 384,817         | 10,118  |
| 39991 15 | Vaporizing liquid (carbon-tetrachloride base).....  | ..do.....                                      | 92,352          | 663      | 406,327         | 3,203   |
| 39991 17 | Dry chemical fire extinguishers.....  | ..do.....                                      | 1,056,085       | 13,279   | 348,295         | 9,022   |
| 39991 18 | Pressurized water.....  | ..do.....                                      | 91,804          | 2,712    |                 |         |
| 39991 19 | Other extinguishers, including foam.....  | ..do.....                                      | 109,913         | 1,227    |                 |         |
| 39991 29 | All other hand portable extinguishers.....  | ..do.....                                      | 274,780         | 2,523    | 174,752         | 1,640   |
|          | Other chemical fire extinguishing equipment and parts:  |  |                 |          |                 |         |
| 39991 51 | Two-wheeled chemical fire engines.....  | ..do.....                                      | 7,708           | 1,910    | 2,718           | 1,206   |
| 39991 61 | Fixed systems, excluding water sprinkler systems.....   | ..do.....                                      | (X)             | 6,020    | (X)             | 2,208   |
| 39991 71 | Parts and attachments for chemical fire-extinguishing equipment.....  | ..do.....                                      | (X)             | 9,649    | (X)             | 11,904  |
| 39991 00 | Chemical fire extinguishing equipment and parts, n.s.k.....   | ..do.....                                      | (X)             | 4,205    | (X)             | 5,477   |
| 39992 -- | Coin-operated amusement machines, total.....  | (X)  | 30,009          | (X)      | 39,122          |         |
| 39992 12 | Pin ball machines, and bell type machines and consoles.....   | No. of units..                                 | 24,683          | 9,368    | 52,844          | 24,322  |
| 39992 98 | Other amusement machines, including strength testing, skill games, and other arcade pieces.....                       | ..do.....                                      | (X)             | 20,641   | (X)             | 14,800  |
| 39993 -- | Other miscellaneous fabricated products, total.....   | (X)  | 327,597         | (X)      | 271,165         |         |
| 39993 12 | Beauty-and barber-shop furniture and equipment.....   | ..do.....                                      | (X)             | 34,045   | (X)             | 37,165  |
| 39993 13 | Beauty-and barber-shop accessories, including hair curlers, pads, and wraps.....                                      | ..do.....                                      | (X)             | 16,807   |                 |         |
| 39993 21 | Hair work, switches, toupees, wigs.....   | ..do.....                                      | (X)             | 19,551   |                 |         |
| 39993 42 | Tobacco pipes.....  | No. of units..                                 | 9,646,991       | 13,578   | (X)             | 9,145   |
| 39993 43 | Cigar and cigarette holders.....  | ..do.....                                      | 3,583,942       | 2,462    |                 |         |
| 39993 44 | Cigar and cigarette lighters (except precious metal and electric).....  | 1,000.....                                     | 26,455          | 28,731   | (X)             | 209,504 |
| 39993 51 | Christmas tree ornaments and decorations (except electrical and glass).....   | ..do.....                                      | (X)             | 15,954   |                 |         |
| 39993 98 | Miscellaneous fabricated products, n.e.c. (Specify).....  | ..do.....                                      | (X)             | 180,645  |                 |         |
| 39993 00 | Other miscellaneous fabricated products, n.e.c., n.s.k.....   | ..do.....                                      | (X)             | 15,824   |                 |         |
| 39990 00 | Miscellaneous products, n.e.c., n.s.k.....  | ..do.....                                      | (X)             | 61,982   |                 |         |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.  
<sup>1</sup>Includes upright wound brooms, metal case brooms, or other brooms of similar construction made of broomcorn.  
<sup>2</sup>1958 data not strictly comparable with data for 1963 because of changes in product mix.  
<sup>3</sup>Includes the value for work done on materials owned by others.



TABLE 6B. Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958

| Product code | Product and year   | Indexes (1954 = 100) |            | Product code | Product and year   | Indexes (1954 = 100) |            |
|--------------|--|----------------------|------------|--------------|--|----------------------|------------|
|              |  | Production           | Unit value |              |  | Production           | Unit value |
| 398--        | Miscellaneous manufactures.....1963..                                    | 124                  | 107        | 3988-        | Morticians' goods.....1963..   | 155                  | 105        |
|              | 1958..   | 107                  | 106        |              | 1958..   | 126                  | 105        |
| 3981-        | Brooms and brushes <sup>1</sup> .....1963..                              | 135                  | 101        | 39881        | Metal caskets and coffins, com-<br>pletely lined and trimmed.....1963..      | 200                  | 106        |
|              | 1958..   | 107                  | 107        |              | 1958..   | 136                  | 108        |
| 39811        | Brooms.....1963..  | 101                  | 103        | 39882        | Wood caskets and coffins, com-<br>pletely lined and trimmed.....1963..       | 96                   | 109        |
|              | 1958..   | 93                   | 99         |              | 1958..   | 103                  | 105        |
| 39812        | Paint and varnish brushes.....1963..                                     | 134                  | 96         | 39883        | Other caskets and coffins, metal<br>vaults, and morticians' supplies..1963.. | 175                  | 95         |
|              | 1958..   | 96                   | 111        |              | 1958..   | 146                  | 95         |
| 3982-        | Hard surface floor coverings.....1963..                                  | 95                   | 114        | 3992-        | Furs, dressed and dyed.....1963..  | (3)                  | (3)        |
|              | 1958..   | 98                   | 100        |              | 1958..   | (3)                  | (3)        |
| 39821        | Linoleum.....1963..  | 39                   | 120        | 3993-        | Signs and advertising displays.....1963..                                    | (3)                  | (3)        |
|              | 1958..   | 60                   | 109        |              | 1958..   | (3)                  | (3)        |
| 39822        | Asphalted-felt-base and sup-<br>ported plastic floor coverings....1963.. | 155                  | 106        | 3995-        | Umbrellas, parasols, and canes.....1963..                                    | (3)                  | (3)        |
|              | 1958..   | 137                  | 91         |              | 1958..   | (3)                  | (3)        |
| 3983-        | Matches.....1963..   | (2)                  | (2)        | 3999-        | Miscellaneous products, n.e.c.....1963..                                     | (2)                  | (2)        |
|              | 1958..   | (2)                  | (2)        |              | 1958..   | (2)                  | (2)        |
| 3984-        | Candles.....1963..   | (3)                  | (3)        | 39991        | Chemical fire extinguishing equip-<br>ments and parts.....1963..             | 102                  | 115        |
|              | 1958..   | (3)                  | (3)        |              | 1958..   | 97                   | 108        |
| 3987-        | Lamp shades.....1963..   | (3)                  | (3)        |              |  |                      |            |
|              | 1958..   | (3)                  | (3)        |              |  |                      |            |

n.e.c. Not elsewhere classified.

<sup>1</sup>Adjusted to include other brushes (product class 39813).<sup>2</sup>Not shown because comparable quantity data were not obtained for a significant portion of these products.<sup>3</sup>No quantity data obtained for these products.

TABLE 6C. Product Classes—Value Shipped by All Manufacturing Establishments:  
1947, 1954, 1958 to 1963

(In thousands of dollars)

| Code  | Product class   | 1963    | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958    | 1954    | 1947    |
|-------|---|---------|-------------------|-------------------|-------------------|-------------------|---------|---------|---------|
| 3981- | Brooms and brushes.....   | 247,660 | 235,539           | 210,735           | 204,182           | 226,688           | 208,057 | 180,751 | 171,831 |
| 39811 | Brooms.....   | 37,997  | 33,483            | 33,107            | 32,481            | (S)               | 33,741  | 36,662  | 27,917  |
| 39812 | Paint and varnish brushes.....  | 73,601  | 80,688            | 72,140            | 64,223            | 65,802            | 60,666  | 56,809  | 54,556  |
| 39813 | Other brushes.....  | 126,011 | 111,900           | 97,672            | 99,007            | 115,727           | 103,389 | 84,679  | 82,252  |
| 39810 | Brooms and brushes, n.s.k.....  | 10,051  | (9,468)           | (7,816)           | (8,471)           | (S)               | 10,261  | 2,601   | 7,106   |
| 3982- | Hard surface floor coverings.....   | 168,071 | 167,554           | 153,277           | 159,252           | 172,263           | 151,893 | 154,826 | 153,439 |
| 39821 | Linoleum.....   | 33,739  | 40,343            | 37,577            | 37,527            | 45,888            | 47,839  | 84,706  | 67,208  |
| 39822 | Asphalted-felt-base and supported plastic<br>floor covering.....          | 133,618 | 118,930           | 113,686           | 120,406           | 125,334           | 102,580 | 70,120  | 86,231  |
| 39820 | Hard surface floor coverings, n.s.k.....                                  | 714     | (8,281)           | (2,034)           | (1,319)           | (1,041)           | 1,474   | -       | -       |
| 39830 | Matches.....  | 64,756  | 64,744            | 63,609            | 72,312            | 75,193            | 67,972  | 61,246  | 56,386  |
| 39840 | Candles.....  | 43,661  | 37,295            | 36,199            | 35,459            | 33,198            | 31,746  | 27,426  | 18,666  |
| 39870 | Lamp shades.....  | 35,896  | 35,163            | 33,046            | 32,956            | 40,993            | 33,835  | 37,107  | 27,343  |
| 3988- | Morticians' goods.....  | 267,439 | 241,220           | 230,626           | 226,408           | 211,840           | 217,671 | 164,432 | 173,064 |
| 39881 | Metal caskets and coffins, completely<br>lined and trimmed.....           | 123,648 | 112,704           | 100,270           | 98,801            | 91,790            | 85,181  | 64,987  | 62,333  |
| 39882 | Wood caskets and coffins, completely<br>lined and trimmed.....            | 67,327  | 66,661            | 64,102            | 65,244            | 62,153            | 69,995  | 65,909  | 67,165  |
| 39883 | Other caskets and coffins, metal vaults,<br>and morticians' supplies..... | 64,099  | 53,380            | 57,066            | 53,754            | 49,963            | 53,234  | 30,105  | 39,460  |
| 39880 | Morticians' goods, n.e.c.....   | 12,365  | (8,475)           | (9,188)           | (8,609)           | (7,934)           | 9,261   | 3,431   | 4,106   |
| 39920 | Furs, dressed and dyed <sup>2</sup> .....                                 | 43,564  | 14,765            | 14,858            | 15,582            | 14,147            | 28,904  | 6,284   | 24,836  |
| 3993- | Signs and advertising displays.....                                       | 583,811 | 501,151           | 482,114           | 466,207           | 437,292           | 407,893 | 329,894 | 210,713 |
| 39931 | Luminous tubing and bulb signs.....                                       | 144,524 | 150,608           | 149,960           | 136,153           | 120,884           | 99,855  | 82,123  | 53,555  |
| 39932 | Nonelectric signs and advertising displays.....                           | 302,317 | 208,380           | 208,433           | 204,922           | 192,440           | 193,482 | 178,529 | 99,610  |
| 39933 | Advertising novelties.....  | 83,687  | 84,861            | 76,756            | 78,509            | 74,695            | 64,361  | 42,180  | 25,011  |
| 39930 | Signs and advertising displays, n.s.k.....                                | 53,283  | (57,302)          | (46,965)          | (46,623)          | (49,273)          | 50,195  | 27,062  | 32,537  |
| 39950 | Umbrellas, parasols, and canes.....                                       | 34,135  | (34,072)          | 39,492            | 33,919            | (S)               | 34,658  | 32,409  | 32,699  |
| 3999- | Miscellaneous products, n.e.c.....  | 471,907 | 403,805           | 348,781           | 350,198           | 353,144           | 357,101 | 308,949 | 290,462 |
| 39991 | Chemical fire extinguishing equipment<br>and parts.....                   | 52,319  | 58,968            | 53,570            | 53,759            | 55,832            | 46,814  | 44,545  | 33,529  |
| 39992 | Coin-operated amusement machines.....                                     | 30,009  | 34,825            | 28,202            | 29,982            | 31,797            | 39,122  | 47,738  | 47,882  |
| 39993 | Other miscellaneous fabricated products.....                              | 327,597 | 310,012           | 267,009           | 266,457           | 265,515           | 271,165 | 216,666 | 209,051 |
| 39990 | Miscellaneous products, n.e.c., n.s.k.....                                | 61,982  |                   |                   |                   |                   |         |         |         |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period. Figures shown in parentheses either have associated standard errors exceeding 15 percent or are not consistent with other census series and related data.

<sup>2</sup>For 1963 and 1958 include receipts for work done on materials owned by others. Such receipts are excluded in other years.



TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958

In thousands of dollars. Statistics are shown for selected product classes which are economically significant and which have production that is geographically dispersed, provided that the dispersion is not approximated by the data in the geographic table for the industry (table 2) and they are not miscellaneous or "not specified by type" classes. For each product class, States are

listed only if the value of shipments is more than \$1 million and the figure does not disclose individual company information. Additional States which had shipments of more than \$1 million of the individual product classes are listed in footnote 1.

| Product class and geographic area                                      | Value of shipments |         | Product class and geographic area  | Value of shipments |        | Product class and geographic area                         | Value of shipments |         |
|--|--------------------|---------|--|--------------------|--------|---|--------------------|---------|
|  | 1963 <sup>1</sup>  | 1958    |  | 1963 <sup>1</sup>  | 1958   |   | 1963 <sup>1</sup>  | 1958    |
| <b>PAINT AND VARNISH BRUSHES (39812)</b>                               |                    |         | <b>METAL CASKETS AND COFFINS, COMPLETELY LINED AND TRIMMED (39881)—Con.</b>      |                    |        | <b>LUMINOUS TUBING AND BULB SIGNS (39931)</b>             |                    |         |
| United States, total....   | 73,601             | 60,666  | Mountain.....  | 1,283              | 5,197  | United States, total...                                   | 144,524            | 99,855  |
| New England.....   | 9,305              | 6,433   | Pacific.....   | 6,555              |        | New England.....  | 6,820              | 4,739   |
| Middle Atlantic.....   | 31,327             | 29,307  | California.....  | 5,008              | 3,060  | Massachusetts.....  | 4,391              | 2,857   |
| New York.....  | 18,414             | 18,415  |  |                    |        | Connecticut.....  | 1,675              | 1,468   |
| New Jersey.....  | 10,627             | 7,423   | <b>WOOD CASKETS AND COFFINS, COMPLETELY LINED AND TRIMMED (39882)</b>            |                    |        | Middle Atlantic.....                                      | 19,432             | 13,051  |
| Pennsylvania.....  | 2,286              | 3,469   | United States, total...  | 67,327             | 69,995 | New York.....   | 12,167             | 7,039   |
| North Central.....   | 23,386             | 18,243  | New England.....   | 8,381              | 7,930  | New Jersey.....   | 4,554              | 2,398   |
| Illinois.....  | 3,327              | 3,328   | New Hampshire.....   | 2,338              | (Z)    | Pennsylvania.....   | 2,711              | 3,614   |
| South.....   | 6,364              | 4,252   | Massachusetts.....   | 4,705              | 6,237  | East North Central.....                                   | 46,600             | 34,265  |
| Pacific.....   | 3,219              | 2,431   | Middle Atlantic.....   | 17,491             | 18,511 | Ohio.....   | 14,059             | 12,863  |
|  |                    |         | New York.....  | 10,567             | 9,266  | Indiana.....  | 5,700              | 3,124   |
| <b>OTHER BRUSHES (39813)</b>   |                    |         | New Jersey.....  | 1,245              | 1,171  | Illinois.....   | 13,810             | 9,386   |
| United States, total....   | 126,011            | 103,389 | Pennsylvania.....  | 5,679              | 8,074  | Michigan.....   | 2,997              | 3,075   |
| New England.....   | 28,410             | 21,457  | East North Central.....  | 8,376              | 9,631  | Wisconsin.....  | 10,034             | 5,817   |
| Massachusetts.....   | 20,892             | 13,768  | Ohio.....  | 1,759              | 2,076  | West North Central.....                                   | 11,517             | 6,050   |
| Middle Atlantic.....   | 47,557             | 35,147  | Indiana.....   | 2,568              | 3,526  | Minnesota.....  | 7,228              | 1,944   |
| New York.....  | 37,708             | 29,551  | Illinois.....  | 2,574              | 1,648  | Missouri.....   | 2,016              | 1,243   |
| New Jersey.....  | 7,994              | 4,041   | West North Central.....  | 3,660              | 4,254  | South Atlantic.....                                       | 10,393             | 8,436   |
| Pennsylvania.....  | 1,855              | 1,555   | Missouri.....  | 1,402              | 1,707  | Maryland.....   | 1,589              | (Z)     |
| East North Central.....  | 29,042             | 30,640  | South Atlantic.....  | 7,890              | 8,403  | Virginia.....   | 1,535              | 1,070   |
| Ohio.....  | 14,349             | 15,135  | North Carolina.....  | 3,041              | 2,598  | South Carolina.....                                       | 1,000              | (Z)     |
| Illinois.....  | 9,692              | 9,006   | Georgia.....   | 1,806              | 1,912  | Georgia.....  | 1,373              | 1,321   |
| Wisconsin.....   | 2,558              | 3,738   | Florida.....   | 1,123              | 1,222  | Florida.....  | 3,269              | 3,292   |
| West North Central.....  | 8,060              | 3,663   | East South Central.....  | 4,529              | 5,104  | East South Central.....                                   | 3,520              | 2,195   |
| South.....   | 10,285             | 8,231   | Tennessee.....   | 2,389              | 2,675  | Tennessee.....  | 1,652              | 1,444   |
| West.....  | 2,657              | 4,251   | Alabama.....   | 1,201              | 1,353  | West South Central.....                                   | 7,319              | 6,045   |
| California.....  | 2,373              | 4,052   | West South Central.....  | 5,467              | 5,712  | Louisiana.....  | 1,272              | 1,267   |
|  |                    |         | Arkansas.....  | 1,720              | 1,495  | Texas.....  | 5,181              | 3,529   |
| <b>METAL CASKETS AND COFFINS, COMPLETELY LINED AND TRIMMED (39881)</b> |                    |         | Texas.....   | 2,256              | 2,544  | Mountain.....   | 7,685              | 4,868   |
| United States, total....   | 123,648            | 85,181  | Mountain.....  | 1,408              | 1,306  | Colorado.....   | 2,398              | 1,320   |
| New England.....   | 3,287              | 1,702   | Pacific.....   | 10,125             | 9,144  | Utah.....   | 1,968              | (Z)     |
| Massachusetts.....   | 2,543              | 1,084   | Washington.....  | 1,756              | 1,832  | Pacific.....  | 31,238             | 20,206  |
| Middle Atlantic.....   | 20,738             | 16,967  | California.....  | 7,904              | 6,887  | Washington.....   | 3,061              | 1,616   |
| New York.....  | 2,544              | (Z)     | <b>OTHER CASKETS AND COFFINS, METAL VAULTS, AND MORTICIANS' SUPPLIES (39883)</b> |                    |        | Oregon.....   | 1,316              | 2,124   |
| Pennsylvania.....  | 17,222             | 14,875  | United States, total...  | 64,099             | 53,234 | California.....   | 26,604             | 16,466  |
| East North Central.....  | 56,026             | 41,624  | New England.....   | 2,500              | 3,802  | <b>NONELECTRIC SIGNS AND ADVERTISING DISPLAYS (39932)</b> |                    |         |
| Ohio.....  | 11,073             | 7,170   | Connecticut.....   | 1,491              | (Z)    | United States, total...                                   | 302,317            | 193,482 |
| Indiana.....   | 23,491             | 18,201  | Middle Atlantic.....   | 10,699             | 9,591  | New England.....  | 9,661              | 6,332   |
| Illinois.....  | 15,440             | 10,042  | New York.....  | 3,119              | 3,132  | Massachusetts.....  | 4,790              | 3,832   |
| Michigan.....  | 3,438              | 3,190   | Pennsylvania.....  | 6,803              | 6,050  | Rhode Island.....   | 1,649              | (Z)     |
| Wisconsin.....   | 2,584              | 3,021   | East North Central.....  | 31,365             | 23,507 | Connecticut.....  | 2,099              | 1,397   |
| West North Central.....  | 7,207              | 5,175   | Ohio.....  | 9,568              | 10,403 | Middle Atlantic.....                                      | 95,159             | 64,939  |
| Minnesota.....   | 1,111              | 1,111   | Indiana.....   | 11,501             | 4,083  | New York.....   | 64,633             | 41,621  |
| Iowa.....  | 1,696              | 1,193   | Illinois.....  | 8,661              | 8,244  | New Jersey.....   | 11,697             | 8,936   |
| Missouri.....  | 2,766              | 1,827   | West North Central.....  | 4,321              | 3,205  | Pennsylvania.....   | 18,829             | 14,382  |
| South Atlantic.....  | 12,954             | 7,299   | Missouri.....  | 3,029              | 2,380  | East North Central.....                                   | 106,926            | 66,495  |
| Virginia.....  | 1,003              | (Z)     | South Atlantic.....  | 2,079              | 3,321  | Ohio.....   | 22,592             | 16,492  |
| North Carolina.....  | 1,791              | (Z)     | East South Central.....  | 4,139              | 3,162  | Indiana.....  | 6,040              | 4,279   |
| South Carolina.....  | 1,516              | (Z)     | Tennessee.....   | 2,051              | 1,664  | Illinois.....   | 50,332             | 29,873  |
| Georgia.....   | 6,229              | 3,370   | Alabama.....   | 1,374              | (Z)    | Michigan.....   | 15,725             | 10,663  |
| Florida.....   | 1,346              | (Z)     | West South Central.....  | 3,454              | 2,741  | Wisconsin.....  | 12,237             | 5,188   |
| East South Central.....  | 7,466              | 2,894   | Texas.....   | 2,188              | 2,028  | West North Central.....                                   | 20,175             | 18,067  |
| Tennessee.....   | 5,851              | 2,394   | West.....  | 5,542              | 3,905  | Minnesota.....  | 7,068              | 6,741   |
| Alabama.....   | 1,002              | (Z)     | California.....  | 4,419              | 3,161  | Iowa.....   | 1,345              | (Z)     |
| West South Central.....  | 8,132              | 4,323   |  |                    |        | Missouri.....   | 9,026              | 8,790   |
| Texas.....   | 4,687              | 2,644   |  |                    |        | Kansas.....   | 2,147              | 1,074   |

See footnotes at end of table.

TABLE 6D. Product Classes—Value Shipped by All Manufacturing Establishments, by Geographic Areas: 1963 and 1958—Continued

| Product class and geographic area                             | Value of shipments |       | Product class and geographic area                             | Value of shipments |                  | Product class and geographic area             | Value of shipments |                   |
|---|--------------------|-------|---|--------------------|------------------|---|--------------------|-------------------|
|   | 1963 <sup>1</sup>  | 1958  |   | 1963 <sup>1</sup>  | 1958             |   | 1963 <sup>1</sup>  | 1958              |
| NON-ELECTRIC SIGNS AND ADVERTISING DISPLAYS (39932)—Continued |                    |       | NON-ELECTRIC SIGNS AND ADVERTISING DISPLAYS (39932)—Continued |                    |                  | ADVERTISING SPECIALTIES (39933)—Continued     |                    |                   |
| South Atlantic.....   | 18,158             | 8,199 | Pacific.....  | 28,147             | 13,370           | East North Central—Con.                       |                    |                   |
| Maryland.....   | 2,513              | (Z)   | Washington.....   | 2,183              | (Z)              | Illinois.....                                 | 6,287              | 11,333            |
| Virginia.....   | 4,090              | 3,212 | Oregon.....   | 2,523              | (Z)              | Michigan.....                                 | 4,075              | (Z)               |
| North Carolina.....   | 1,682              | (Z)   | California.....   | 23,330             | 12,609           | West North Central.....                       | 14,888             | 8,393             |
| South Carolina.....   | 2,421              | (Z)   |   |                    |                  | Minnesota.....                                | 5,647              | ( <sup>2</sup> )  |
| Georgia.....  | 2,099              | (Z)   | ADVERTISING SPECIALTIES (39933)                               |                    |                  | South.....                                    | 5,844              | 4,033             |
| Florida.....  | 4,072              | 2,134 | United States, total...                                       | 83,687             | 64,361           | Texas.....                                    | 1,797              | 1,182             |
| East South Central.....                                       | 7,240              | 6,461 |   |                    |                  | West.....                                     | 7,678              | 5,247             |
| Kentucky.....   | 1,895              | 1,478 | New England.....  | 7,540              | ( <sup>3</sup> ) | California.....                               | 6,104              | 5,050             |
| Tennessee.....  | 2,985              | 4,069 | Massachusetts.....  | 6,361              | ( <sup>2</sup> ) | CHEMICAL FIRE EXTINGUISHING AND PARTS (39991) |                    | 1963 <sup>1</sup> |
| West South Central.....                                       | 12,058             | 7,313 | Middle Atlantic.....  | 28,063             | ( <sup>3</sup> ) | United States, total...                       |                    | 52,319            |
| Arkansas.....   | 1,357              | (Z)   | New York.....   | 19,893             | 15,218           | Northeast.....                                |                    | 22,153            |
| Oklahoma.....   | 1,394              | 2,339 | New Jersey.....   | 5,194              | 5,281            | New Jersey.....                               |                    | 15,257            |
| Texas.....  | 8,336              | 4,609 | Pennsylvania.....   | 2,976              | (Z)              | North Central.....                            |                    | 24,825            |
| Mountain.....   | 4,793              | 2,306 | East North Central.....                                       | 19,674             | 20,582           | South and West.....                           |                    | 5,341             |
| Colorado.....   | 1,662              | (Z)   | Ohio.....   | 7,665              | 5,490            |   |                    |                   |
| Arizona.....  | 1,652              | (Z)   |   |                    |                  |   |                    |                   |

(Z) Less than \$1 million reported.

<sup>1</sup>For the specified product classes shipments of \$1 million or more were reported for the States listed but the exact figures are withheld to avoid disclosure of individual company figures: 39812, Massachusetts, Ohio, Indiana, Wisconsin, Maryland, Tennessee, Oregon, and California; 39813, New Hampshire, Connecticut, Michigan, Minnesota, Iowa, Maryland, and Kentucky; 39881, Louisiana and Washington; 39932, Alabama; 39933, Wisconsin, Iowa, Missouri, and Tennessee; 39991, Massachusetts, New York, Ohio, Illinois, Wisconsin, and California.

<sup>2</sup>Shipments of \$1 million or more were reported but exact figures are withheld to avoid disclosure of individual company figures.

<sup>3</sup>For product class 39933, the 1958 sum of value of shipments for New England and Middle Atlantic equals \$26,106 million.

TABLE 7A. Materials by Kind: 1963 and 1958

| Code   | Material  | Unit of measure | 1963     |                          | 1958     |                          |
|--------|---|-----------------|----------|--------------------------|----------|--------------------------|
|        |   |                 | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
|        | Materials, containers, and supplies, total.....                                   |                 | (X)      | 75,979                   | (X)      | 80,705                   |
| 149901 | Asbestos, crude.....  | Short tons..... | 21,649   | 1,577                    | (NA)     | (NA)                     |
| 265011 | Paper and paperboard containers.....  |                 | (X)      | 2,138                    | (NA)     | (NA)                     |
| 209010 | Vegetable oils, including crude and processed.....                                | 1,000 lbs.....  | 34,741   | 2,922                    | 59,090   | 6,951                    |
| 282137 | Vinyl plastics, all forms.....  | do.....         | 70,532   | 12,072                   | 35,828   | 9,365                    |
| 266122 | Paper felts.....  | do.....         | 260,040  | 18,381                   | 203,467  | 15,439                   |
| 281012 | Pigment.....  | do.....         | 27,417   | 6,467                    | 26,197   | 6,280                    |
| 970099 | All other materials, parts, containers, and supplies.....                         | do.....         | (X)      | 31,351                   | (X)      | 39,788                   |
| 976000 | Materials, containers, supplies, n.s.k.....                                       |                 | (X)      | 1,071                    | (X)      | 2,882                    |
|        | Materials, parts, containers, and supplies, total.....                            |                 |          |                          |          | 186,739                  |
| 331001 | Carbon steel.....   | Short tons..... |          |                          | 19,485   | 4,705                    |
| 331020 | Alloy steel.....  | do.....         |          |                          | 4,708    | 1,970                    |
| 331031 | Stainless steel.....  | do.....         |          |                          | 4,096    | 3,943                    |
| 335208 | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....  |          |                          | 3,560    | 2,168                    |
| 335003 | Copper and copper-base alloy.....   | do.....         |          |                          | 3,894    | 3,000                    |
| 336200 | Copper and copper-base alloy castings (rough and semifinished).....               | do.....         |          |                          | 3,968    | 2,246                    |
| 970099 | All other materials and components, parts, containers, and supplies consumed..... |                 |          |                          | (X)      | 115,340                  |
| 976000 | Materials, parts, containers, and supplies, n.s.k.....                            |                 |          |                          | (X)      | 53,367                   |

Standard notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Data for 1958 not available.



TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item   | Brooms and brushes (SIC 3981) | Hard surface floor coverings (SIC 3982) | Matches (SIC 3983) | Candles (SIC 3984) | Lamp shades (SIC 3987) | Morticians' goods (SIC 3988) | Furs, dressed and dyed (SIC 3992) | Signs and advertising displays (SIC 3993) | Umbrellas, parasols, and canes (SIC 3995) | Miscellaneous products, n.e.c. (SIC 3999) |
|--|-------------------------------|---|--------------------|--------------------|------------------------|------------------------------|-----------------------------------|---|---|---|
| Total cost of purchased fuels and electric energy....\$1,000..   | 2,730                         | 3,546                                   | 638                | 208                | 197                    | 2,929                        | 253                               | 5,693                                     | 227                                       | 3,559                                     |
| Total cost of purchased fuels.....do....   | 932                           | 1,852                                   | 294                | 149                | (S)                    | 1,315                        | 119                               | 2,365                                     | 109                                       | 1,491                                     |
| Bituminous coal, lignite, and anthracite:  |                               |   |                    |                    |                        |                              |                                   |   |   |   |
| Quantity.....1,000 short tons..  | 6                             | 114                                     | 19                 | (S)                | -                      | 38                           | (S)                               | (S)                                       | (S)                                       | 18  |
| Cost.....\$1,000..   | 60                            | 886                                     | 107                | (S)                | -                      | 323                          | (S)                               | (S)                                       | (S)                                       | 187                                       |
| Coke and breeze:   |                               |   |                    |                    |                        |                              |                                   |   |   |   |
| Quantity.....1,000 short tons..  | -                             | -                                       | -                  | -                  | -                      | (S)                          | -                                 | -   | -   | -   |
| Cost.....\$1,000..   | -                             | -                                       | -                  | -                  | -                      | (S)                          | -                                 | -   | -   | -   |
| Fuel oil (distillate and residual):  |                               |   |                    |                    |                        |                              |                                   |   |   |   |
| Quantity.....1,000 barrels of 42 gallons..   | 111                           | 158                                     | 27                 | 27                 | (S)                    | 55                           | (S)                               | 92  | (S)                                       | 87  |
| Cost.....\$1,000..   | 441                           | 422                                     | 114                | 85                 | (S)                    | 237                          | (S)                               | 438                                       | (S)                                       | 341                                       |
| Gas (natural, manufactured, still, blast furnace, and coke oven):  |                               |   |                    |                    |                        |                              |                                   |   |   |   |
| Quantity.....million cu. ft..  | 327                           | 390                                     | (S)                | (S)                | (S)                    | 563                          | (S)                               | 1,439                                     | (S)                                       | 596                                       |
| Cost.....\$1,000..   | 221                           | 235                                     | (S)                | (S)                | (S)                    | 310                          | (S)                               | 991                                       | (S)                                       | 417                                       |
| Other fuels.....do....   | 210                           | 309                                     | 33                 | (S)                | (S)                    | 436                          | 51                                | 891                                       | 56  | 546                                       |
| Electric energy:   |                               |   |                    |                    |                        |                              |                                   |   |   |   |
| Purchased:   |                               |   |                    |                    |                        |                              |                                   |   |   |   |
| Quantity.....million kw. hrs..   | 98                            | 151                                     | 30                 | 2                  | (S)                    | 83                           | 6                                 | 179                                       | (S)                                       | 112                                       |
| Cost.....\$1,000..   | 1,798                         | 1,694                                   | 344                | 59                 | (S)                    | 1,614                        | 134                               | 3,328                                     | (S)                                       | 2,068                                     |
| Generated less sold.....million kw. hrs..  | (S)                           | (S)                                     | (S)                | (S)                | -                      | (S)                          | -                                 | (S)                                       | -   | -   |
| Aggregate horsepower of prime movers and electric motors driven by purchased energy (December 31), total...1,000 hrs.. | 52                            | 99                                      | 13                 | 3                  | 3                      | 63                           | 5                                 | 92  | -   | 67  |
| Prime movers, total.....do....   | 3                             | 16                                      | 3                  | 2                  | (Z)                    | 9                            | (Z)                               | 2   | -   | 3   |
| Driving generators.....do....  | 2                             | 11                                      | 2                  | 1                  | -                      | 8                            | -                                 | 1   | -   | 1   |
| Not driving generators.....do....  | 1                             | 5                                       | 1                  | 1                  | (Z)                    | 1                            | (Z)                               | 1   | -   | 2   |
| Electric motors, total.....do....  | 50                            | 84                                      | 14                 | 2                  | 3                      | 56                           | 5                                 | 89  | -   | 64  |
| Driven by purchased energy.....do....  | 50                            | 83                                      | 10                 | 1                  | 3                      | 54                           | 5                                 | 89  | -   | 64  |
| Driven by energy generated at establishment.....do....   | 1                             | 1                                       | 4                  | 1                  | -                      | 2                            | -                                 | (Z)                                       | -   | -   |
| Aggregate horsepower per 100 production workers.....   | 384                           | 1,874                                   | 316                | 143                | 76                     | 463                          | 262                               | 293                                       | -   | 329                                       |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," M063(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," M063(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. (Z) Less than 500 horsepower. n.e.c. Not elsewhere classified.

(S) Withheld because the estimate did not meet publication standards for one or more of the following reasons: The standard error associated with the figure was too high (generally in excess of 25 percent); to avoid disclosing figures of individual companies; or on the basis of a general consistency review.

TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3981-                          | BROOMS AND BRUSHES  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 643                     | 16,637         | 73,620            | 13,428             | 25,801            | 49,510          | 167,866  | 153,625                     | 321,129                      | 4,394                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 589                     | 12,059         | 52,965            | 9,735              | 18,607            | 35,303          | 103,258  | 101,776                     | 204,236                      | 2,905                               |
|                                | 75-89% specialization.....  | 17                      | 1,223          | 5,209             | 946                | 1,847             | 3,332           | 10,962   | 6,829                       | 17,850                       | 395                                 |
| 39811                          | Brooms (primary product class of estab.).....   | 259                     | 3,270          | 10,563            | 2,832              | 5,364             | 8,182           | 17,175   | 21,300                      | 38,368                       | 459                                 |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 203                     | 1,965          | 6,352             | 1,707              | 3,214             | 5,081           | 10,030   | 13,495                      | 23,498                       | 228                                 |
|                                | 75-89% specialization.....  | 15                      | 244            | 660               | 206                | 362               | 494             | 967  | 1,161                       | 2,117                        | 24                                  |
| 39812                          | Paint and varnish brushes (primary product class of estab.).....                                    | 71                      | 4,344          | 19,806            | 3,459              | 6,577             | 12,753          | 38,415   | 41,640                      | 79,833                       | 1,286                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 59                      | 3,447          | 15,482            | 2,783              | 5,254             | 10,144          | 30,269   | 33,476                      | 63,572                       | 1,116                               |
| 39813                          | Other brushes (primary product class of estab.).....  | 178                     | 8,041          | 40,145            | 6,303              | 12,324            | 26,220          | 106,935  | 85,687                      | 192,590                      | 2,407                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 142                     | 3,887          | 18,951            | 3,057              | 5,884             | 12,021          | 38,604   | 29,025                      | 67,426                       | 1,016                               |
|                                | 75-89% specialization.....  | 18                      | 1,700          | 8,413             | 1,314              | 2,633             | 5,449           | 19,293   | 16,246                      | 35,260                       | 536                                 |
| 3988-                          | MORTICIANS' GOODS   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 617                     | 17,283         | 86,218            | 13,545             | 27,507            | 58,447          | 158,422  | 132,720                     | 290,036                      | 5,455                               |
| 39881                          | Metal caskets and coffins, completely lined and trimmed (primary product class of estab.)....       | 196                     | 9,154          | 47,429            | 7,125              | 14,531            | 31,220          | 87,968   | 70,276                      | 157,538                      | 3,093                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 61                      | 2,351          | 11,497            | 1,886              | 3,534             | 7,785           | 22,224   | 15,526                      | 37,787                       | 557                                 |
|                                | 75-89% specialization.....  | 33                      | 1,652          | 7,440             | 1,367              | 2,566             | 5,316           | 12,124   | 12,274                      | 24,332                       | 421                                 |
| 39882                          | Wood caskets and coffins, completely lined and trimmed (primary product class of estab.)....        | 182                     | 4,470          | 21,085            | 3,608              | 7,353             | 15,226          | 35,213   | 36,274                      | 71,055                       | 956                                 |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 59                      | 1,110          | 5,312             | 925                | 1,938             | 4,105           | 9,127  | 6,200                       | 14,983                       | 268                                 |
|                                | 75-89% specialization.....  | 29                      | 643            | 2,730             | 521                | 1,031             | 1,920           | 4,161  | 4,385                       | 8,490                        | 96                                  |
| 39883                          | Other caskets and coffins, metal vaults, and morticians' supplies (primary product class of estab.) | 127                     | 2,823          | 14,663            | 2,159              | 4,281             | 9,878           | 29,179   | 20,321                      | 49,388                       | 1,137                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 111                     | 2,624          | 13,696            | 2,030              | 4,025             | 9,367           | 26,683   | 18,366                      | 45,017                       | 1,070                               |
| 3993-                          | SIGNS AND ADVERTISING DISPLAYS  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 3,206                   | 43,476         | 242,593           | 33,139             | 64,837            | 163,538         | 407,478  | 243,815                     | 646,772                      | 15,042                              |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 3,067                   | 38,563         | 216,512           | 29,356             | 57,335            | 146,484         | 366,928  | 210,413                     | 572,488                      | 13,244                              |
|                                | 75-89% specialization.....  | 32                      | 1,352          | 7,441             | 1,040              | 2,122             | 4,890           | 12,283   | 8,997                       | 21,244                       | 991                                 |
| 39931                          | Luminous tubing and bulb signs (primary product class of estab.)                                    | 878                     | 11,540         | 71,628            | 8,507              | 16,347            | 48,882          | 118,425  | 63,508                      | 179,048                      | 3,953                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 545                     | 7,835          | 50,703            | 5,671              | 11,078            | 34,039          | 85,458   | 45,399                      | 127,819                      | 2,770                               |
|                                | 75-89% specialization.....  | 131                     | 1,941          | 10,816            | 1,490              | 2,744             | 7,609           | 16,802   | 10,512                      | 27,412                       | 636                                 |
| 39932                          | Nonelectric signs and advertising displays (primary product class of estab.).....                   | 1,122                   | 20,873         | 117,910           | 15,967             | 31,478            | 77,632          | 195,506  | 124,644                     | 319,086                      | 6,886                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 875                     | 15,724         | 88,920            | 12,071             | 23,636            | 58,547          | 149,329  | 88,439                      | 236,671                      | 4,483                               |
|                                | 75-89% specialization.....  | 86                      | 1,589          | 9,376             | 1,201              | 2,524             | 6,226           | 16,278   | 12,888                      | 28,968                       | 763                                 |
| 39933                          | Advertising novelties (primary product class of estab.).....  | 231                     | 6,576          | 32,377            | 5,046              | 9,859             | 21,265          | 55,029   | 35,041                      | 89,755                       | 2,057                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 188                     | 4,854          | 23,605            | 3,762              | 7,285             | 15,801          | 41,736   | 25,580                      | 67,012                       | 1,647                               |
|                                | 75-89% specialization.....  | 19                      | 801            | 4,402             | 577                | 1,129             | 2,639           | 5,773  | 3,113                       | 8,815                        | 235                                 |
| 3999-                          | MISCELLANEOUS PRODUCTS, N.E.C.  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 1,499                   | 30,138         | 129,350           | 24,534             | 47,811            | 91,085          | 252,170  | 210,922                     | 458,471                      | 9,888                               |
|                                | Establishments with—  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 1,374                   | 23,837         | 100,177           | 19,450             | 38,241            | 71,480          | 201,271  | 165,219                     | 362,482                      | 7,979                               |
|                                | 75-89% specialization.....  | 22                      | 1,841          | 9,908             | 1,443              | 2,919             | 6,322           | 19,307   | 22,573                      | 41,142                       | 311                                 |



TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963—Continued

| Industry or product class code | Industry or product class by percent of specialization                                 | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|--|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |  |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 3999-                          | MISCELLANEOUS PRODUCTS, N.E.C.—Continued   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
| 39991                          | Chemical fire extinguishing equipment and parts (primary product class of estab.)..... | 31                      | 1,681          | 9,738             | 1,170              | 2,342             | 5,951           | 23,612   | 25,769                      | 48,874                       | 1,090                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization.....  | 24                      | 845            | 5,308             | 510                | 1,026             | 2,833           | 10,399   | 14,547                      | 24,485                       | 644                                 |
| 39992                          | Coin-operated amusement machines (primary product class of estab.)                     | 12                      | 2,180          | 10,996            | 1,853              | 3,794             | 8,012           | 15,303   | 15,095                      | 31,361                       | 137                                 |
| 39993                          | Other miscellaneous fabricated products (primary product class of estab.).....         | 572                     | 19,926         | 89,000            | 16,250             | 31,750            | 61,925          | 166,236  | 141,918                     | 305,158                      | 6,333                               |
|                                | Establishments with—   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....   | 516                     | 16,345         | 70,905            | 13,479             | 26,436            | 50,719          | 137,144  | 112,571                     | 246,941                      | 4,954                               |
|                                | 75-8% specialization.....  | 30                      | 1,152          | 5,593             | 947                | 1,934             | 3,600           | 11,572   | 15,053                      | 25,882                       | 436                                 |

n.e.c. Not elsewhere classified





## Ordnance and Accessories

### 19A Ordnance and accessories

For 1953 and earlier years, data for Major Group 19, Ordnance and Accessories, are included with Major Group 39 in table 1.

For 1954 and subsequent years Major Group 19 data are published separately. However, in some tables within these volumes, data for Major Group 19 are given both separately and combined with Major Group 39.

Major Group 19 covers establishments primarily engaged in manufacturing artillery, small arms, and related equipment; ammunition; tanks and specialized tank parts; sighting and fire control equipment; complete guided missiles and research and development on complete guided missiles and, miscellaneous ordnance and accessories, not elsewhere classified.

# ORDNANCE AND ACCESSORIES: MAJOR GROUP 19

Value Added by Manufacture by State: 1963

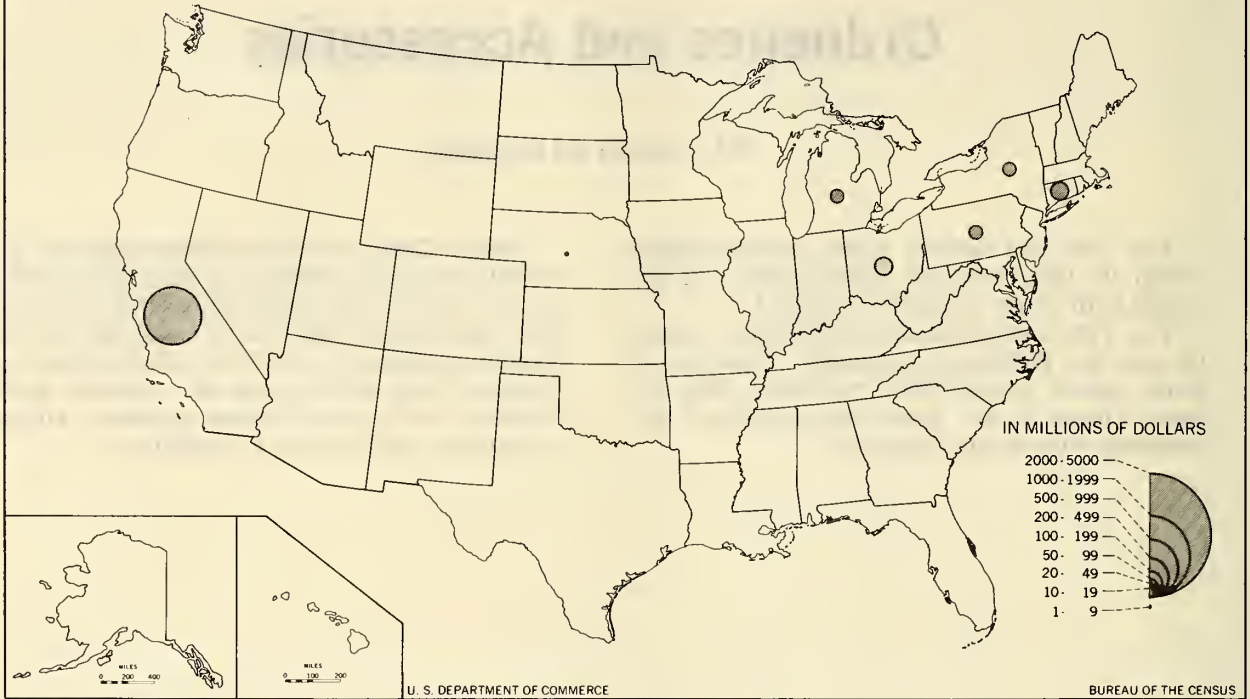




TABLE 1. General Statistics: 1963 and Earlier Years

| Year and item  | Establishments |                                    | All employees <sup>1</sup> |                   | Production workers |                   |                 | Value added by manufacture, adjusted <sup>2</sup> | Cost of materials <sup>3</sup> | Value of shipments <sup>3</sup> | Capital expenditures, new <sup>4</sup> |
|--|----------------|------------------------------------|----------------------------|-------------------|--------------------|-------------------|-----------------|---|--------------------------------|---------------------------------|--|
|  | Total (number) | With 20 employees or more (number) | Total (number)             | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |   |                                |                                 |  |
| <b>ALL MANUFACTURING ESTABLISHMENTS, TOTAL:</b>        |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 . . . . .   | 295            | 175                                | 244 225                    | 1 981 693         | 122 891            | 246 572           | 788 990         | 2 882 521   | 1 902 383                      | 4 784 047                       | 88 218                                 |
| 1958 . . . . .   | 235            | 159                                | 198 598                    | 1 322 867         | 114 319            | 237 750           | 652 349         | 1 956 378   | (NA)                           | 3 686 316                       | 74 986                                 |
| 1954 . . . . .   | (NA)           | (NA)                               | 230 247                    | 1 039 121         | 170 972            | 342 458           | 716 273         | 1 659 385   | (NA)                           | (NA)                            | 61 073                                 |
| <b>ADMINISTRATIVE AND AUXILIARY UNITS:<sup>5</sup></b> |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 . . . . .   | 37             | 12                                 | 2 291                      | 24 729            | (X)                | (X)               | (X)             | (X)   | (X)                            | (X)                             | (X)                                    |
| 1958 . . . . .   | 12             | 10                                 | 2 728                      | 20 125            | (X)                | (X)               | (X)             | (X)   | (X)                            | (X)                             | (X)                                    |
| 1954 . . . . .   | (NA)           | (NA)                               | ( <sup>5</sup> )           | ( <sup>5</sup> )  | (X)                | (X)               | (X)             | (X)   | (X)                            | (X)                             | (X)                                    |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>         |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1963 <sup>6</sup> . . . . .                            | 258            | 163                                | 245 934                    | 1 956 954         | 122 891            | 246 512           | 788 990         | 2 882 521   | 1 902 383                      | 4 784 047                       | 88 218                                 |
| 1958 <sup>6</sup> . . . . .                            | 223            | 149                                | 195 870                    | 1 302 742         | 114 319            | 237 750           | 652 349         | 1 956 378   | (NA)                           | 3 686 316                       | 74 986                                 |
| 1954 . . . . .   | 494            | 380                                | 230 247                    | 1 039 121         | 170 972            | 342 458           | 716 273         | 1 659 385   | (X)                            | (X)                             | 61 073                                 |
| <b>OPERATING MANUFACTURING ESTABLISHMENTS:</b>         |                |                                    |                            |                   |                    |                   |                 |   |                                |                                 |  |
| 1962 <sup>6 7</sup> . . . . .                          | (NA)           | (NA)                               | 189 467                    | 1 448 162         | 104 957            | 212 272           | 643 236         | 2 196 474   | 1 804 783                      | 3 911 199                       | 80 299                                 |
| 1961 <sup>6 7</sup> . . . . .                          | (NA)           | (NA)                               | 148 635                    | 1 029 453         | 81 573             | 158 603           | 494 087         | 1 804 286   | 1 648 072                      | 3 417 227                       | 52 094                                 |
| 1960 <sup>6 7</sup> . . . . .                          | (NA)           | (NA)                               | 200 674                    | 1 445 081         | 100 178            | 204 718           | 595 900         | 2 109 361   | (NA)                           | (NA)                            | 49 569                                 |
| 1959 <sup>6 7</sup> . . . . .                          | (NA)           | (NA)                               | 204 237                    | 1 418 739         | 108 586            | 225 035           | 646 026         | 2 096 295   | (NA)                           | (NA)                            | 56 405                                 |
| 1957 <sup>7</sup> . . . . .                            | (NA)           | (NA)                               | 171 433                    | 949 385           | 111 517            | 220 029           | 519 669         | 1 443 272   | (NA)                           | (NA)                            | 61 001                                 |
| 1956 <sup>7</sup> . . . . .                            | (NA)           | (NA)                               | 170 399                    | 901 738           | 119 495            | 242 901           | 540 491         | 1 329 018   | (NA)                           | (NA)                            | 47 622                                 |
| 1955 . . . . .   | (NA)           | (NA)                               | 193 522                    | 913 028           | 138 579            | 276 667           | 577 735         | 1 394 335   | (NA)                           | (NA)                            | 63 272                                 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.  
<sup>1</sup>The figures for 1939 through 1963 include data for employees of manufacturing establishments who were engaged in distribution and construction work. The extent to which data for such employees are included in the figures for earlier years is not known.  
<sup>2</sup>For the period 1954 to 1963, figures represent adjusted value added by manufacture and for earlier years, unadjusted value added. Adjusted value added is equal to value of shipments (including resales of finished products) less cost of finished products, materials, supplies, fuel, electric energy and contract work, plus the net change in the value of finished products and work-in-process inventories between the beginning and end of the year, without adjustment for price changes. Unadjusted value added is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year.

<sup>3</sup>The total value of shipments and cost of materials for industry groups (2- and 3-digit) include extensive duplication arising from shipments between establishments in the same industry classification. For more information, see Introduction.  
<sup>4</sup>The figures for 1958 to 1963 include expenditures for plants under construction and not yet in operation.  
<sup>5</sup>In 1954, data for administrative and auxiliary establishments for Major Group 19, "Ordnance and Accessories", are included with Major Group 39, "Miscellaneous Manufactures".  
<sup>6</sup>Data for 1958 to 1963 include establishments primarily engaged in manufacturing complete guided missiles, and in performing research and development on complete guided missiles.  
<sup>7</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958—Continued

| Code | Industry group and geographic area                 | 1963           |                                    |                |                   |                    |                   |                 |  | 1958                                |                        |  |
|------|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-------------------------------------|------------------------|--|
|      |  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Capital expenditures, new (\$1,000) | All employees (number) | Value added by manufacture, adjusted (\$1,000) |
|      |  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                                     |                        |  |
| 19   | ORDNANCE AND ACCESSORIES, TOTAL <sup>1</sup> . . . | 258            | 163                                | 245 934        | 1 956 954         | 122 891            | 246 512           | 738 990         | 2 882 521                                      | 88 218                              | 195 870                | 1 956 378                                      |

<sup>1</sup>Detailed data by State for Major Group 19 are included in table 2 of the 4-digit industry chapter.



TABLE 3. Detailed Statistics: 1963

| Item  | Ordnance and accessories (SIC 19) | Missiles and ammunition, n.e.c. (SIC 192) | Tanks and tank components (SIC 193) | Sighting and fire control equipment (SIC 194) | Small arms, 30 mm. and under (SIC 195) | Small arms ammunition (SIC 196) | Guns, howitzers, and mortars and ordnance and accessories, n.e.c. (SIC 191 and 199) |
|---|-----------------------------------|---|-------------------------------------|---|--|---------------------------------|---|
| ESTABLISHMENTS: TOTAL . . . . . NUMBER . .                                  | 258                               | 75  | 26                                  | 13  | 52                                     | 31                              | 61  |
| WITH 1 TO 19 EMPLOYEES. . . . . DO. . .                                     | 95                                | 12  | 7                                   | 5   | 29                                     | 18                              | 24  |
| WITH 20 TO 99 EMPLOYEES. . . . . DO. . .                                    | 48                                | 12  | 8                                   | 1   | 11                                     | 3                               | 13  |
| WITH 100 EMPLOYEES OR MORE. . . . . DO. . .                                 | 115                               | 51  | 11                                  | 7   | 12                                     | 10                              | 24  |
| PROPRIETORS AND WORKING PARTNERS. . . . . DO. . .                           | 41                                | 5   | 7                                   | 1   | 11                                     | 10                              | 7   |
| ALL EMPLOYEES (AVERAGE FOR THE YEAR). . . . . DO. . .                       | 245 934                           | 181 486                                   | 11 307                              | 9 249   | 9 995                                  | 8 909                           | 24 988  |
| PAYROLL (ALL EMPLOYEES): TOTAL FOR YEAR . . . . . \$1,000. . .              | 1 956 954                         | 1 528 011                                 | 76 583                              | 66 949  | 57 347                                 | 51 895                          | 176 169   |
| PRODUCTION WORKERS:   |                                   |   |                                     |   |  |                                 |   |
| AVERAGE FOR THE YEAR. . . . . NUMBER . .                                    | 122 891                           | 79 586                                    | 7 788                               | 5 810   | 7 497                                  | 7 061                           | 15 149  |
| MARCH . . . . . DO. . . . .   | 126 425                           | 78 846                                    | 12 507                              | 6 284   | 7 329                                  | 6 789                           | 14 670  |
| MAY . . . . . DO. . . . .   | 120 191                           | 78 474                                    | 6 168                               | 5 950   | 7 324                                  | 7 131                           | 15 144  |
| AUGUST. . . . . DO. . . . .   | 123 111                           | 81 154                                    | 5 867                               | 5 796   | 7 705                                  | 7 278                           | 15 311  |
| NOVEMBER. . . . . DO. . . . .   | 121 843                           | 79 860                                    | 6 603                               | 5 211   | 7 635                                  | 7 051                           | 15 483  |
| MAN-HOURS . . . . . 1,000. . . . .  | 246 512                           | 159 324                                   | 16 234                              | 11 085  | 15 085                                 | 14 083                          | 30 701  |
| JANUARY-MARCH . . . . . DO. . . . .   | 62 131                            | 39 765                                    | 4 174                               | 3 185   | 3 923                                  | 3 433                           | 7 651   |
| APRIL-JUNE. . . . . DO. . . . .   | 61 149                            | 39 098                                    | 4 099                               | 2 892   | 3 729                                  | 3 542                           | 7 789   |
| JULY-SEPTEMBER. . . . . DO. . . . .   | 60 549                            | 39 449                                    | 3 864                               | 2 643   | 3 503                                  | 3 556                           | 7 534   |
| OCTOBER-DECEMBER. . . . . DO. . . . .                                       | 62 779                            | 41 018                                    | 4 113                               | 2 375   | 3 948                                  | 3 598                           | 7 727   |
| WAGES . . . . . \$1,000. . . . .  | 788 990                           | 532 846                                   | 48 421                              | 36 639  | 39 288                                 | 38 099                          | 93 697  |
| COST OF MATERIALS, ETC.: TOTAL <sup>1</sup> . . . . . DO. . .               | 1 902 383                         | 1 339 221                                 | 258 861                             | 60 258  | 42 965                                 | 85 715                          | 115 363   |
| MATERIALS, PARTS, CONTAINERS, AND SUPPLIES CONSUMED. . . . . DO. . .        | 1 659 084                         | 1 126 493                                 | 255 930                             | 54 289  | 39 661                                 | 79 734                          | 102 977   |
| COST OF REALES. . . . . DO. . . . .   | 128 253                           | (0)                                       | 180                                 | 1 975   | 1 329                                  | 3 193                           | (0)   |
| FUELS CONSUMED. . . . . DO. . . . .   | 9 604                             | (0)                                       | 603                                 | 134   | 942                                    | 1 410                           | (0)   |
| ELECTRIC ENERGY:  |                                   |   |                                     |   |  |                                 |   |
| PURCHASED:  |                                   |   |                                     |   |  |                                 |   |
| QUANTITY. . . . . MILLION KW.-HRS. . . . .                                  | 1 906                             | 1 145                                     | 105                                 | 55  | 64                                     | 113                             | 424   |
| COST. . . . . \$1,000. . . . .  | 20 176                            | 12 047                                    | 1 226                               | 616   | 807                                    | 1 259                           | 4 221   |
| GENERATED LESS SOLD . . . . . MILLION KW.-HRS. . . . .                      | 4 545                             | 4 235                                     | -                                   | -   | (D)                                    | (D)                             | -   |
| CONTRACT WORK . . . . . \$1,000. . . . .                                    | 95 086                            | 89 840                                    | 922                                 | 3 244   | 226                                    | 119                             | 735   |
| VALUE OF SHIPMENTS (INCLUDING REALES): TOTAL <sup>1</sup> . . . . . DO. . . | 4 784 047                         | 3 556 864                                 | 394 144                             | 156 568                                       | 133 042                                | 192 454                         | 350 975   |
| VALUE OF REALES. . . . . DO. . . . .  | 2 672 489                         | 2 654 317                                 | 288                                 | (D)   | 2 412                                  | (D)                             | 6 707   |
| VALUE ADDED BY MANUFACTURE: ADJUSTED. . . . . DO. . .                       | 2 882 521                         | 2 210 586                                 | 148 369                             | 96 281  | 88 302                                 | 103 772                         | 235 211   |
| MANUFACTURERS' INVENTORIES:   |                                   |   |                                     |   |  |                                 |   |
| BEGINNING OF YEAR: TOTAL. . . . . DO. . . . .                               | 467 388                           | 212 897                                   | 66 053                              | 28 291  | 41 487                                 | 74 221                          | 44 439  |
| FINISHED PRODUCTS . . . . . DO. . . . .                                     | 35 374                            | 3 572                                     | 899                                 | 1 505   | 9 189                                  | 15 541                          | 4 668   |
| WORK-IN-PROCESS . . . . . DO. . . . .                                       | 311 628                           | 162 433                                   | 57 948                              | 23 754  | 22 728                                 | 13 902                          | 30 863  |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO. . . . .                         | 120 388                           | 46 894                                    | 7 206                               | 3 032   | 9 570                                  | 44 778                          | 8 908   |
| END OF YEAR: TOTAL. . . . . DO. . . . .                                     | 454 455                           | 196 010                                   | 81 967                              | 33 648  | 35 983                                 | 63 540                          | 43 307  |
| FINISHED PRODUCTS . . . . . DO. . . . .                                     | 29 825                            | 3 204                                     | 1 509                               | 705   | 7 614                                  | 12 378                          | 4 415   |
| WORK-IN-PROCESS . . . . . DO. . . . .                                       | 293 635                           | 132 180                                   | 70 424                              | 24 525  | 22 528                                 | 14 098                          | 29 880  |
| MATERIALS, SUPPLIES, FUEL, ETC. . . . . DO. . . . .                         | 130 995                           | 60 626                                    | 10 034                              | 8 418   | 5 841                                  | 37 064                          | 9 012   |
| EXPENDITURES FOR PLANT AND EQUIPMENT: TOTAL . . . . . DO. . .               | 96 989                            | 58 520                                    | 5 565                               | 3 631   | 5 402                                  | 11 299                          | 12 572  |
| NEW: TOTAL. . . . . DO. . . . .   | 88 218                            | 56 468                                    | 5 249                               | 3 631   | 5 123                                  | 5 478                           | 12 269  |
| NEW STRUCTURES AND ADDITIONS TO PLANT . . . . . DO. . . . .                 | 25 881                            | 16 435                                    | 674                                 | 1 678   | 1 135                                  | 1 586                           | 4 373   |
| NEW MACHINERY AND EQUIPMENT . . . . . DO. . . . .                           | 62 337                            | 40 033                                    | 4 575                               | 1 953   | 3 988                                  | 3 892                           | 7 896   |
| USED PLANT AND EQUIPMENT. . . . . DO. . . . .                               | 8 771                             | 2 052                                     | 316                                 | -   | 279                                    | 5 821                           | 303   |
| SELECTED OPERATING RATIOS:  |                                   |   |                                     |   |  |                                 |   |
| PAYROLL/TOTAL EMPLOYMENT. . . . .   | 7 957                             | 8 419                                     | 6 773                               | 7 239   | 5 738                                  | 5 825                           | 7 050   |
| PRODUCTION WORKERS/TOTAL EMPLOYMENT . . . . .                               | .50                               | .44                                       | .69                                 | .63   | .75                                    | .79                             | .61   |
| MAN-HOURS/PRODUCTION WORKERS. . . . .                                       | 2 006                             | 2 002                                     | 2 084                               | 1 908   | 2 012                                  | 1 994                           | 2 027   |
| PRODUCTION WORKER WAGES/MAN-HOURS . . . . .                                 | 3.20                              | 3.34                                      | 2.98                                | 3.31  | 2.60                                   | 2.71                            | 3.05  |
| COST OF MATERIALS AND PAYROLLS/TOTAL VALUE OF SHIPMENTS . . . . .           | .81                               | .81                                       | .85                                 | .81   | .75                                    | .72                             | .83   |
| COST OF MATERIALS/TOTAL VALUE OF SHIPMENTS. . . . .                         | .40                               | .38                                       | .66                                 | .38   | .32                                    | .45                             | .33   |
| ADJUSTED VALUE ADDED/TOTAL EMPLOYMENT . . . . .                             | 11 721                            | 12 180                                    | 13 122                              | 10 410  | 8 835                                  | 11 648                          | 9 413   |
| SALARIES AND WAGES/ADJUSTED VALUE ADDED . . . . .                           | .68                               | .69                                       | .52                                 | .70   | .65                                    | .50                             | .75   |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See appendix A for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.  
<sup>1</sup>The value of shipments and cost of materials for industry groups (2-and3-digit) include extensive duplication arising from shipments between establishments in the same industry. For a more complete explanation, see Introduction.





## ORDNANCE AND ACCESSORIES

This report shows 1963 Census of Manufactures statistics for establishments classified in each of the following industries:

### SIC Code and Title

- 1911—Guns, Howitzers, Mortars, and Related Equipment
- 1925—Guided Missiles and Space Vehicles, Completely Assembled
- 1929—Ammunition, Not Elsewhere Classified
- 1931—Tanks and Tank Components
- 1941—Sighting and Fire Control Equipment
- 1951—Small Arms
- 1961—Small Arms Ammunition
- 1999—Ordnance and Accessories, Not Elsewhere Classified

The general statistics (employment, payrolls, value of shipments, cost of materials, inventories, etc.) are reported for each establishment as a whole. Aggregates of such data for an industry reflect not only the primary activities of the establishments in the industry, but also their activities in the manufacture of secondary products and, for that matter, their miscellaneous activities (contract work on materials owned by others, repair work, etc.). This fact should be taken into account in comparing industry statistics (tables 1 to 4) with product statistics (table 6A) showing shipments by all industries of the primary products of the specified industry. The extent of the "product mix" is indicated in table 5A which shows the value of primary and secondary products shipped by establishments classified in the specified industry and also the value of primary products of the industry shipped as secondary products by establishments classified in other industries.

### 1911—GUNS, HOWITZERS, MORTARS, AND RELATED EQUIPMENT

This industry comprises establishments primarily engaged in the manufacture of naval, aircraft, anti-aircraft, tank, coast, and field artillery having a bore over 30 mm. (or over 1.18 inch), and components. Establishments primarily engaged in manufacturing small arms and parts 30 mm. (or 1.18 inch) and below are classified in industry 1951. However, all statistics for industry 1911 combined with those for industry 1999 in 1963, with the exception of a value of shipments figure for the products primary to industry 1911. The latter figure is shown separately in table 6A.

### 1925—GUIDED MISSILES AND SPACE VEHICLES, COMPLETELY ASSEMBLED

This industry comprises establishments primarily engaged in the manufacture of completely assembled guided missiles and space vehicles. Establishments primarily engaged in manufacturing guided missiles and space vehicle engines and engine parts are classified in industry 3722; space satellites, guided missile and space vehicle airborne and ground guidance, check-out and launch electronic systems and components in industry 3662; and guided missile and space vehicle airframes, nose cones, and space capsules in industry 3729. This industry is now a separate one under the Standard Industrial Classification System. In 1958 the SIC included it as part of industry 1929; it was published separately at that time as census industry 1925. For a detailed list of products of industry 1925, refer to table 6A, product codes 1925111 to 1925115.

Value of work done and other receipts of the Complete Guided Missiles Industry totaled \$3,054 million. This amount included work on complete guided missiles and space vehicles (primary products) valued at \$2,735 million, shipments of other products (secondary products) valued at \$176 million, and miscellaneous receipts at \$143 million.

This industry's receipts for work done on complete guided missiles and space vehicles represented 94 percent of its total product shipments. The industry specialization ratio in 1958 was 73 percent. Secondary products shipped by this industry in 1963 consisted mainly of aircraft and parts (\$131 million).

Shipments of complete guided missiles and space vehicles by this industry represented 69 percent of all shipments of these products (\$3,957 million) by all industries. In 1958 the coverage ratio was 83 percent. Other industries shipping complete guided missiles and space vehicles consisted mainly of industry 3721, Aircraft, and industry 3729, Aircraft Equipment, N.E.C.

#### 1929—AMMUNITION, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in the manufacture of ammunition, n.e.c., or in loading and assembling ammunition over 30 mm. (or over 1.18 inch) for naval, aircraft, anti-aircraft, tank, coast, and field artillery; including component parts. This industry also includes establishments primarily engaged in manufacturing bombs, mines, torpedoes, grenades, depth charges, chemical warfare projectiles, and their component parts. Establishments primarily engaged in manufacturing small arms ammunition are classified in industry 1961; explosives in industry 2892; and military pyrotechnics in industry 2899. This industry has been amended to include industry 1921, Artillery Ammunition and industry 1922, Ammunition, Loading and Assembling, which were defined as separate industries in the 1957 Standard Industrial Classification Manual. Also, establishments producing guided missiles and space vehicles are now classified in industry 1925, Complete Guided Missiles. For a detailed list of products of industry 1929, refer to table 6A, product class codes 19291 to 19293.

The code number for this industry in the Standard Industrial Classification Manual is unchanged, but the content of the industry has been significantly changed from the classification system used in 1958. The change in composition of the industry as now constituted, compared with that under the classification system followed in the 1958 census, is due principally to industries 1921, Artillery Ammunition, and 1922, Ammunition Loading and Assembling, being included in this industry for 1963.

Value of shipments and other receipts of the Ammunition, N.E.C., Industry totaled \$503 million. This amount included shipments of ammunition, n.e.c. (primary products) valued at \$290 million, shipments of other products (secondary products) valued at \$123 million, and miscellaneous receipts (mainly contract work on materials owned by others) at \$89 million.

This industry's shipments of ammunition, n.e.c., represented 70 percent of its total product shipments.

Shipments of ammunition, n.e.c., by this industry represented 82 percent of all shipments of these products (\$356 million) by all industries. Other industries shipping ammunition, except for small arms, n.e.c. (primary products) included industry 3461, Metal Stampings; industry 3545, Machine Tool Accessories; and industry 3621, Motors and Generators.

#### 1931—TANKS AND TANK COMPONENTS

This industry comprises establishments primarily engaged in the manufacture or assembly of complete tanks and other tracked military vehicles and specialized components for



tanks. Establishments primarily engaged in manufacturing wheeled military vehicles are classified in group 371, and tank engines in industry 3519.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Tanks and Tank Components Industry totaled \$394 million. This amount included shipments of tanks and tank components (primary products) valued at \$358 million, shipments of other products (secondary products) valued at \$18 million, and miscellaneous receipts at \$18 million.

This industry's shipments of tanks and tank components represented 95 percent of its total product shipments. The industry specialization ratio in 1958 was 89 percent.

Shipments of tanks and tank components by this industry in 1963 represented 79 percent of all shipments of these products (\$454 million) by all industries. In 1958 the coverage ratio was 84 percent. Another industry shipping tanks and tank components was industry 3717, Motor Vehicles and Parts, \$5 million.

#### 1941—SIGHTING AND FIRE CONTROL EQUIPMENT

This industry comprises establishments primarily engaged in the manufacture of sighting and fire control equipment, but which are not engaged in manufacturing optical lenses and prisms. Important products of this industry include bomb sights, percentage correctors, wind correctors, directors, and sound locators. Establishments engaged in manufacturing optical lenses and prisms, and also manufacturing sighting and fire control equipment, are classified in industry 3831.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Sighting and Fire Control Equipment Industry totaled \$157 million. This amount included shipments of sighting and fire control equipment (primary products) valued at \$86 million, shipments of other products (secondary products) valued at \$66 million, and miscellaneous receipts at \$5 million.

This industry's shipments of sighting and fire control equipment represented 57 percent of its total product shipments. The industry specialization ratio in 1958 was 62 percent. Secondary products shipped by this industry in 1963 consisted mainly of test equipment for testing electrical, radio, and communication circuits and motors, electronic navigational aids, and missile-borne and space vehicle-borne navigation and guidance systems and equipment.

Shipments of sighting and fire control equipment by this industry represented 80 percent of all shipments of these products (\$107 million) by all industries. In 1958 the coverage ratio was 89 percent. Another industry shipping sighting and fire control equipment was industry 3662, Radio, TV Communications Equipment, \$13 million.

#### 1951—SMALL ARMS

This industry comprises establishments primarily engaged in the manufacture of small firearms having a bore 30 mm. (or 1.18 inch) and below, and parts for small firearms. Establishments primarily engaged in manufacturing artillery and mortars having a bore over 30 mm. (or over 1.18 inch), and component parts are classified in industry 1911. For a detailed list of products of industry 1951, refer to table 6A, product codes 1951113 to 1951281.

Value of shipments and other receipts of the Small Arms, 30 mm. and Under, Industry totaled \$133 million. This amount included shipments of small arms, 30 mm. and under, (primary products) valued at \$122 million, shipments of other products (secondary products) valued at \$6 million, and miscellaneous receipts (mainly resales) at \$5 million.

This industry's shipments of small arms, 30 mm. and under, represented 95 percent of its total product shipments. The industry specialization ratio in 1958 was 91 percent.

Shipments of small arms, 30 mm. and under, by this industry represented 82 percent of all shipments of these products (\$149 million) by all industries. In 1958 the coverage ratio was also 81 percent. Other industries shipping small arms, 30mm. and under, included industry 3722, Aircraft Engines and Parts; and industry 3729, Aircraft Equipment, N.E.C.

#### 1961—SMALL ARMS AMMUNITION

This industry comprises establishments primarily engaged in the manufacture of ammunition for small arms having a bore of 30 mm. (or 1.18 inch) and below. Establishments primarily engaged in manufacturing ammunition except for small arms are classified in industry 1929, blasting and detonating caps and safety fuses in industry 2892, and fireworks in industry 2899. For a detailed list of products of industry 1961, refer to table 6A, product codes 1961012 to 1961089.

The code number as well as the definition of this industry was unchanged between 1958 and 1963.

Value of shipments and other receipts of the Small Arms Ammunition Industry totaled \$192 million. This amount included shipments of small arms ammunition (primary products) valued at \$177 million and shipments of other products (secondary products) and miscellaneous receipts which together totaled \$16 million.

This industry's shipments of small arms ammunition are between 85 and 99 percent of its total product shipments. The industry specialization ratio in 1958 also was between 85 and 99 percent.

Shipments of small arms ammunition by this industry represented 92 percent of all shipments of these products (\$192 million) by all industries. In 1958 the coverage ratio was 94 percent. Other industries shipping small arms ammunition included industry 1999, Ordnance and Accessories, N.E.C.; industry 3352, Aluminum Rolling and Drawing; and industry 3694, Engine Electrical Equipment.

#### 1999—ORDNANCE AND ACCESSORIES, NOT ELSEWHERE CLASSIFIED

This industry comprises establishments primarily engaged in the manufacture of ordnance and accessories, n.e.c. Complete guided missiles and space vehicles are classified in industry 1925. However, in 1963 all statistics for industry 1999 include those for industry 1911, with the exception of a value of shipments figure for the products primary to industry 1911. The latter figure is shown separately in table 6A.

Therefore, the textual material below represent the activities of industries 1999 and 1911 combined.

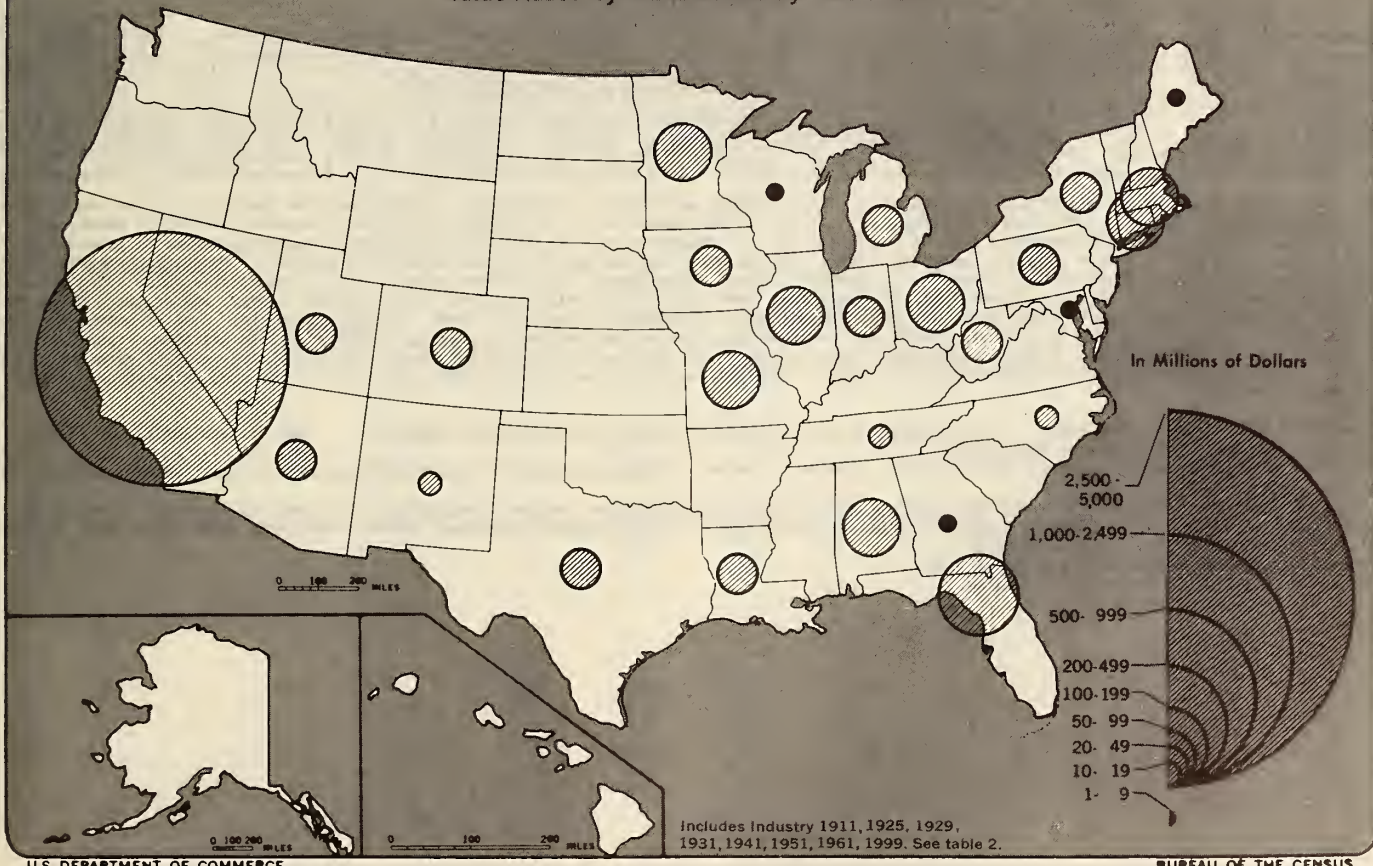
Value of shipments and other receipts of the Ordnance and Accessories, N.E.C., Industry (including SIC 1911) totaled \$351 million. This amount included shipments of ordnance and accessories, n.e.c.; and howitzers, mortars, and other artillery over 30 mm. (primary products) valued at \$176 million, shipments of other products (secondary products) valued at \$49 million, and miscellaneous receipts (mainly contract work on materials owned by others) at \$126 million.



These industry's shipments of ordnance and accessories, n.e.c., and howitzers, mortars, and other artillery over 30 mm. represented 78 percent of the total product shipments. (The specialization ratio for industry 1999 alone is not affected by the inclusion of industry 1911).

Shipments of ordnance and accessories, n.e.c., and howitzers, mortars, and other artillery over 30 mm. represented 69 percent of all shipments of these products (\$256 million) by all industries. (The coverage ratio for industry 1999 alone in 1963 was 72 percent.) Other industries shipping ordnance and accessories, n.e.c., and howitzers, mortars, and other artillery over 30 mm. consisted mainly of industry 3729, Aircraft Equipment, N.E.C., \$7 million; industry 3662, Radio, TV Communication Equipment, \$6 million; and industry 3722, Aircraft Engines and Parts, \$4 million.

**ORDNANCE AND ACCESSORIES, Major Group 19**  
**Value Added by Manufacture by State: 1963**



U.S. DEPARTMENT OF COMMERCE

BUREAU OF THE CENSUS

TABLE 1. General Statistics: 1963 and Earlier Years

| Year   | Com-<br>panies<br>(number) | Establishments    |  | All employees     |                      | Production workers |                      |                    | Value<br>added by<br>manufacture,<br>adjusted<br>(\$1,000) | Cost of<br>materials<br>(\$1,000) | Value of<br>shipments<br>(\$1,000) | Capital<br>expend-<br>itures,<br>new<br>(\$1,000) | Spe-<br>cial-<br>ization<br>ratio<br>(per-<br>cent) | Cov-<br>erage<br>ratio<br>(per-<br>cent) |
|--|----------------------------|-------------------|--|-------------------|----------------------|--------------------|----------------------|--------------------|--|-----------------------------------|------------------------------------|---|---|--|
|  |                            | Total<br>(number) | With 20<br>employ-<br>ees<br>or more<br>(number) | Total<br>(number) | Payroll<br>(\$1,000) | Total<br>(number)  | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |                                   |                                    |   |   |  |
| INDUSTRY 1911.—GUNS, HOWITZERS, AND MORTARS        |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | ( <sup>1</sup> )           | ( <sup>1</sup> )  | ( <sup>1</sup> )                                 | ( <sup>1</sup> )  | ( <sup>1</sup> )     | ( <sup>1</sup> )   | ( <sup>1</sup> )     | ( <sup>1</sup> )   | ( <sup>1</sup> )   | ( <sup>1</sup> )                  | ( <sup>1</sup> )                   | ( <sup>1</sup> )                                  | (NA)  | (NA)                                     |
| 1958.....  | 4                          | 5                 | 4  | 251               | 1,970                | 124                | 297                  | 819                | 2,942  | 3,919                             | 6,892                              | (D)   | (NA)  | (NA)                                     |
| INDUSTRY 1925.—COMPLETE GUIDED MISSILES            |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 25                         | 31                | 29   | 148,908           | 1,325,803            | 54,527             | 110,358              | 395,184            | <sup>2</sup> 1,924,812                                     | 1,129,051                         | <sup>3</sup> 3,053,863             | 48,849  | 94  | 69                                       |
| 1958.....  | 18                         | 26                | 26   | 108,431           | 788,414              | 60,894             | 129,208              | 370,703            | <sup>2</sup> 1,153,021                                     | 1,053,689                         | <sup>3</sup> 2,206,710             | 46,137  | 74  | 83                                       |
| INDUSTRY 1929.—AMMUNITION, N.E.C.                  |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 38                         | 44                | 34   | 32,578            | 202,208              | 25,059             | 48,966               | 137,662            | 285,774  | 210,170                           | 503,001                            | 7,619   | 70  | 82                                       |
| 1958.....  | 48                         | 50                | 37   | 11,331            | 59,068               | 7,164              | 14,239               | 34,265             | 87,027   | 52,367                            | 138,445                            | 46,187  | (NA)  | (NA)                                     |
| INDUSTRY 1931.—TANKS AND TANK COMPONENTS           |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 23                         | 26                | 19   | 11,307            | 76,583               | 7,788              | 16,234               | 48,421             | 148,369  | 258,861                           | 394,144                            | 5,249   | 95  | 79                                       |
| 1958.....  | 15                         | 17                | 10   | 7,069             | 39,861               | 4,619              | 9,651                | 25,197             | 63,711   | 143,863                           | 212,372                            | 1,524   | 89  | 84                                       |
| INDUSTRY 1941.—SIGHTING AND FIRE CONTROL EQUIPMENT |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 13                         | 13                | 8  | 9,249             | 66,949               | 5,810              | 11,085               | 36,639             | 96,281   | 60,258                            | 156,568                            | 3,631   | 57  | 80                                       |
| 1958.....  | 18                         | 20                | 15   | 36,432            | 237,193              | 19,935             | 40,511               | 112,512            | 360,402  | 324,952                           | 682,580                            | 4,088   | 62  | 89                                       |
| INDUSTRY 1951.—SMALL ARMS, 30 MM.AND UNDER         |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 52                         | 52                | 23   | 9,995             | 57,347               | 7,497              | 15,085               | 39,288             | 88,302   | 42,965                            | 133,042                            | 5,123   | 95  | 82                                       |
| 1958.....  | 34                         | 34                | 23   | 8,010             | 39,213               | 5,823              | 11,580               | 27,240             | 51,005   | 20,442                            | 79,107                             | 2,128   | 91  | 81                                       |
| INDUSTRY 1961.—SMALL ARMS AMMUNITION               |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963.....  | 27                         | 31                | 13   | 8,909             | 51,895               | 7,061              | 14,083               | 38,099             | 103,772  | 85,715                            | 192,454                            | 5,478   | (NA)  | 92                                       |
| 1958.....  | 20                         | 24                | 12   | 9,049             | 44,215               | 5,682              | 11,307               | 26,033             | 82,733   | 75,672                            | 167,446                            | 4,166   | (NA)  | 94                                       |
| INDUSTRY 1999.—ORDNANCE AND ACCESSORIES, N.E.C.    |                            |                   |  |                   |                      |                    |                      |                    |  |                                   |                                    |   |   |  |
| 1963 <sup>4</sup> .....                            | 54                         | 60                | 37   | 24,988            | 176,169              | 15,149             | 30,701               | 93,697             | 235,211  | 115,363                           | 350,975                            | 12,269  | 78  | 69                                       |
| 1958.....  | 45                         | 47                | 22   | 15,297            | 92,808               | 10,078             | 20,957               | 55,580             | 155,537  | 35,384                            | 192,764                            | 10,756  | (NA)  | (NA)                                     |

NOTE: See Introduction for an explanation of terms used. The following variations in definition of terms should be considered in the use of this table: All employees: For 1949-1954 figures represent the average of all employees for the payroll period ended nearest the 15th of March, May, August, and November; for 1947 an average of 12 monthly figures for all employees; and for 1939 and prior years the average number of production workers based on 12 monthly figures plus the number of nonproduction workers for one payroll period (usually in October). Production workers: For 1947 and prior years figures represent an average of 12 monthly figures. Value added: Value added prior to 1954 is unadjusted value added which is equal to value of products (excluding resales of finished products) less cost of materials, supplies, fuel, electric energy, and contract work; no adjustment is made for changes in inventories of finished products and work-in-process during the year. Cost of materials: Cost of materials prior to 1958 (except 1954) excludes cost of products bought for resale without further manufacture, processing or assembly. In addition, figures prior to 1935 exclude cost of contract work. Value of shipments: Value of shipments for years prior to 1958 (except 1954) excludes value of products bought for resale without further manufacture, processing or assembly. For 1939 and prior years, except 1929, the figures represent value of production rather than shipments.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>Industry 1911 combined with industry 1999 for 1963. However, a value of shipments figure for the products primary to this industry is shown in table 6A.

<sup>2</sup>The adjusted value added for the Guided Missiles and Space Vehicles Industry does not take into account the change in inventory between the beginning and end of the year, since the figures reported by establishments in this industry represent value of work done rather than value of shipments. It does include value added by resales.

<sup>3</sup>For industry 1925, represents value of work done.

<sup>4</sup>Excludes 1958 SIC 1922, ammunition loading.



TABLE 2. General Statistics, by Geographic Areas: 1963 and 1958

| Geographic area <sup>1</sup>             | 1963           |                                    |                |                   |                    |                   |                 |                                      |                   |                    | 1958                      |               |                                     |
|--|----------------|------------------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--------------------------------------|-------------------|--------------------|---------------------------|---------------|-------------------------------------|
|  | Establishments |                                    | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted | Cost of materials | Value of shipments | Capital expenditures, new | All employees | Value added by manufacture adjusted |
|  | Total (number) | With 20 employees or more (number) | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |                                      |                   |                    |                           |               |                                     |
| MAJOR GROUP 19.—ORDNANCE AND ACCESSORIES |                |                                    |                |                   |                    |                   |                 |                                      |                   |                    |                           |               |                                     |
| Total.....                               | 257            | 163                                | 245,934        | 1,956,954         | 122,891            | 246,512           | 788,990         | 2,882,521                            | 1,902,383         | 4,784,047          | 88,218                    | (NA)          | (NA)                                |
| New England.....                         | 32             | 22                                 | 15,151         | 87,441            | 11,014             | 21,957            | 57,874          | 143,317                              | 85,041            | 231,565            | 6,291                     | (NA)          | (NA)                                |
| Connecticut.....                         | 19             | 12                                 | 8,099          | 49,084            | 6,245              | 12,404            | 33,658          | 79,563                               | 48,304            | 130,145            | 5,369                     | (NA)          | (NA)                                |
| Middle Atlantic....                      | 39             | 28                                 | 8,659          | 51,754            | 6,652              | 13,525            | 35,733          | 86,858                               | 92,571            | 181,874            | 2,681                     | (NA)          | (NA)                                |
| New York.....                            | 13             | 9                                  | 4,877          | 30,751            | 3,573              | 6,946             | 20,017          | 48,383                               | 32,418            | 78,507             | 2,169                     | (NA)          | (NA)                                |
| Pennsylvania.....                        | 23             | 17                                 | 3,713          | 20,546            | 3,030              | 6,459             | 15,524          | 38,171                               | 59,102            | 101,857            | 502                       | (NA)          | (NA)                                |
| North Central.....                       | 70             | 45                                 | 39,647         | 267,097           | 26,029             | 52,321            | 156,464         | 397,707                              | 349,189           | 753,584            | 11,235                    | (NA)          | (NA)                                |
| Ohio.....                                | 14             | 10                                 | 6,212          | 44,104            | 3,779              | 7,596             | 24,144          | 79,703                               | 78,317            | 162,425            | (D)                       | (NA)          | (NA)                                |
| Michigan.....                            | 19             | 9                                  | 2,182          | 14,909            | 1,286              | 2,646             | 7,856           | 30,137                               | 58,687            | 88,452             | 244                       | (NA)          | (NA)                                |
| Nebraska.....                            | 3              | 2                                  | 119            | 513               | 101                | 227               | 361             | 558                                  | 400               | 989                | 28                        | (NA)          | (NA)                                |
| South Atlantic.....                      | 18             | 12                                 | 15,551         | 127,891           | 5,426              | 10,916            | 28,651          | 233,223                              | 115,900           | 329,096            | 10,847                    | (NA)          | (NA)                                |
| East South Central..                     | 11             | 9                                  | 7,075          | 47,336            | 4,776              | 8,719             | 25,670          | 65,134                               | 16,652            | 83,089             | 1,844                     | (NA)          | (NA)                                |
| West South Central..                     | 15             | 6                                  | 9,902          | 63,049            | 6,852              | 13,499            | 35,743          | 86,634                               | 25,872            | 112,283            | 2,948                     | (NA)          | (NA)                                |
| Mountain.....                            | 17             | 11                                 | 13,587         | 103,262           | 8,067              | 16,234            | 54,368          | 126,989                              | 90,609            | 221,448            | 6,686                     | (NA)          | (NA)                                |
| Pacific.....                             | 55             | 30                                 | 136,362        | 1,209,124         | 54,075             | 109,341           | 394,487         | 1,742,659                            | 1,126,549         | 2,871,108          | 45,686                    | (NA)          | (NA)                                |
| California.....                          | 51             | 30                                 | 136,342        | 1,209,043         | 54,060             | 109,310           | 394,431         | 1,742,508                            | 1,126,402         | 2,870,805          | 45,675                    | (NA)          | (NA)                                |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>General statistics for some producing States have been withheld to avoid disclosing figures for individual companies. Such States are shown below with the number of establishments in each State and, in parentheses, the number of employees or the employment-size range for that State. MG 19, Ordnance and Accessories: New England—Maine, 1 (500-999); Massachusetts, 11 (5,000-9,999); Rhode Island, 1 (1-19); Middle Atlantic—New Jersey, 3 (20-99); East North Central—Indiana, 9 (5,000-9,999); Illinois, 8 (5,200); Wisconsin, 2 (500-999); West North Central—Minnesota, 3 (5,930); Iowa, 6 (2,736); Missouri, 6 (11,024); South Atlantic—Maryland, 3 (1,000-2,499); Virginia, 1 (20-99); West Virginia, 3 (1,000-2,499); North Carolina, 3 (1,493); Georgia, 1 (100-249); Florida, 7 (11,330); East South Central—Tennessee, 6 (2,024); Alabama, 5 (5,051); West South Central—Arkansas, 1 (1-19); Louisiana, 3 (2,500-4,999); Oklahoma, 3 (1-19); Texas, 8 (5,000-9,999); Mountain—Idaho, 2 (100-249); Colorado, 7 (3,065); New Mexico, 3 (2,711); Arizona, 3 (4,165); Utah, 2 (2,500-4,999); Pacific—Oregon, 4 (20-99).

TABLE 3. Detailed Statistics: 1963

| Item   | Complete guided missiles (SIC 1925) | Ammunition, n.e.c. (SIC 1929) | Tanks and tank components (SIC 1931) | Sighting and fire control equipment (SIC 1941) | Small arms, 30 mm. and under (SIC 1951) | Small arms ammunition (SIC 1961) | Guns, howitzers, and mortars and ordnance accessories, n.e.c. (SIC 1911 and 1999) |
|--|-------------------------------------|-------------------------------|--------------------------------------|--|---|----------------------------------|---|
| Primary product specialization ratio <sup>1</sup> .....                | .94                                 | .70                           | .95                                  | .57  | .95                                     | (NA)                             | .78   |
| Coverage ratio <sup>2</sup> .....                                      | .69                                 | .82                           | .79                                  | .80  | .82                                     | .92                              | .69   |
| Establishments, total.....number..                                     | 31                                  | 44                            | 26                                   | 13   | 52                                      | 31                               | 60  |
| With 1 to 19 employees.....do....                                      | 2                                   | 10                            | 7                                    | 5  | 29                                      | 18                               | 24  |
| With 20 to 99 employees.....do....                                     | 6                                   | 6                             | 8                                    | 1  | 11                                      | 3                                | 13  |
| With 100 employees or more.....do....                                  | 23                                  | 28                            | 11                                   | 7  | 12                                      | 10                               | 24  |
| Proprietors and working partners.....do....                            | -                                   | 5                             | 7                                    | 1  | 11                                      | 10                               | 7   |
| All employees (average for the year).....do....                        | 148,908                             | 32,578                        | 11,307                               | 9,249  | 9,995                                   | 8,909                            | 24,988  |
| Payroll (all employees), total for year.....\$1,000..                  | 1,325,803                           | 202,208                       | 76,583                               | 66,949   | 57,347                                  | 51,895                           | 176,169   |
| Production workers:  |                                     |                               |                                      |  |   |                                  |   |
| Average for the year.....number..                                      | 54,527                              | 25,059                        | 7,788                                | 5,810  | 7,497                                   | 7,061                            | 15,149  |
| March.....do....   | 53,318                              | 25,528                        | 12,507                               | 6,284  | 7,329                                   | 6,789                            | 14,670  |
| May.....do....   | 52,739                              | 25,735                        | 6,168                                | 5,950  | 7,324                                   | 7,131                            | 15,144  |
| August.....do....  | 55,658                              | 25,496                        | 5,867                                | 5,796  | 7,705                                   | 7,278                            | 15,311  |
| November.....do....  | 56,394                              | 23,466                        | 6,603                                | 5,211  | 7,635                                   | 7,051                            | 15,483  |
| Man-hours.....1,000..  | 110,358                             | 48,966                        | 16,234                               | 11,085   | 15,085                                  | 14,083                           | 30,701  |
| January-March.....do....   | 26,881                              | 12,884                        | 4,174                                | 3,185  | 3,923                                   | 3,433                            | 7,651   |
| April-June.....do....  | 26,584                              | 12,514                        | 4,099                                | 2,892  | 3,729                                   | 3,542                            | 7,789   |
| July-September.....do....  | 27,589                              | 11,860                        | 3,864                                | 2,643  | 3,503                                   | 3,556                            | 7,534   |
| October-December.....do....  | 29,304                              | 11,714                        | 4,113                                | 2,375  | 3,948                                   | 3,598                            | 7,727   |
| Wages.....\$1,000..  | 395,184                             | 137,662                       | 48,421                               | 36,639   | 39,288                                  | 38,099                           | 93,697  |
| Cost of materials, etc., total.....do....                              | 1,129,051                           | 210,170                       | 258,861                              | 60,258   | 42,965                                  | 85,715                           | 115,363   |
| Materials, parts, containers, and supplies consumed.....do....         | 946,198                             | 180,295                       | 255,930                              | 54,289   | 39,661                                  | 79,734                           | 102,977   |
| Cost of resales.....do....   | (D)                                 | 26                            | 180                                  | 1,975  | 1,329                                   | 3,193                            | (D)   |
| Fuels consumed.....do....  | (D)                                 | 2,957                         | 603                                  | 134  | 942                                     | 1,410                            | (D)   |
| Electric energy:   |                                     |                               |                                      |  |   |                                  |   |
| Purchased:   |                                     |                               |                                      |  |   |                                  |   |
| Quantity.....million kw.-hrs..   | 929                                 | 216                           | 105                                  | 55   | 64                                      | 113                              | 424   |
| Cost.....\$1,000..   | 8,988                               | 3,059                         | 1,226                                | 616  | 807                                     | 1,259                            | 4,221   |
| Generated less sold.....million kw.-hrs..                              | (D)                                 | (D)                           | -                                    | -  | (D)                                     | (D)                              | -   |
| Contract work.....\$1,000..  | 66,007                              | 23,833                        | 922                                  | 3,244  | 226                                     | 119                              | 735   |
| Value of shipments (including resales), total <sup>3</sup> .....do.... | 3,053,863                           | 503,001                       | 394,144                              | 156,568  | 133,042                                 | 192,454                          | 350,975   |
| Value of resales.....do....  | (D)                                 | 50                            | 288                                  | (D)  | 2,412                                   | (D)                              | (D)   |
| Value added by manufacture, adjusted <sup>4</sup> .....do....          | 1,924,812                           | 285,774                       | 148,369                              | 96,281   | 88,302                                  | 103,772                          | 235,211   |
| Manufacturers' inventories:  |                                     |                               |                                      |  |   |                                  |   |
| Beginning of year, total.....do....                                    | 159,861                             | 53,036                        | 66,053                               | 28,291   | 41,487                                  | 74,221                           | 44,439  |
| Finished products.....do....   | 101                                 | 3,471                         | 899                                  | 1,505  | 9,189                                   | 15,541                           | 4,668   |
| Work-in-process.....do....   | 128,227                             | 34,206                        | 57,948                               | 23,754   | 22,728                                  | 13,902                           | 30,863  |
| Materials, supplies, fuel, etc.....do....                              | 31,533                              | 15,361                        | 7,206                                | 3,032  | 9,570                                   | 44,778                           | 8,908   |
| End of year, total.....do....  | 151,598                             | 44,412                        | 81,967                               | 33,648   | 35,983                                  | 63,540                           | 43,307  |
| Finished products.....do....   | 40                                  | 3,164                         | 1,509                                | 705  | 7,614                                   | 12,378                           | 4,415   |
| Work-in-process.....do....   | 104,724                             | 27,456                        | 70,424                               | 24,525   | 22,528                                  | 14,098                           | 29,880  |
| Materials, supplies, fuel, etc.....do....                              | 46,834                              | 13,792                        | 10,034                               | 8,418  | 5,841                                   | 37,064                           | 9,012   |
| Expenditures for plant and equipment, total.....do....                 | 50,561                              | 7,959                         | 5,565                                | 3,631  | 5,402                                   | 11,299                           | 12,572  |
| New, total.....do....  | 48,849                              | 7,619                         | 5,249                                | 3,631  | 5,123                                   | 5,478                            | 12,269  |
| New structures and additions to plant.....do....                       | 13,458                              | 2,977                         | 674                                  | 1,678  | 1,135                                   | 1,586                            | 4,373   |
| New machinery and equipment.....do....                                 | 35,391                              | 4,642                         | 4,575                                | 1,953  | 3,988                                   | 3,892                            | 7,896   |
| Used plant and equipment.....do....                                    | 1,712                               | 340                           | 316                                  | -  | 279                                     | 5,821                            | 303   |
| Selected operating ratios:   |                                     |                               |                                      |  |   |                                  |   |
| Payroll/Total employment.....  | 8,903                               | 6,207                         | 6,773                                | 7,239  | 5,738                                   | 5,825                            | 7,050   |
| Production workers/Total employment.....                               | .37                                 | .77                           | .69                                  | .63  | .75                                     | .79                              | .61   |
| Man-hours/Production workers.....                                      | 2,023                               | 1,954                         | 2,084                                | 1,908  | 2,012                                   | 1,994                            | 2,027   |
| Production worker wages/Man-hours.....                                 | 3.58                                | 2.81                          | 2.98                                 | 3.31   | 2.60                                    | 2.71                             | 3.05  |
| Cost of materials and payrolls/Total value of shipments.....           | .80                                 | .82                           | .85                                  | .81  | .75                                     | .72                              | .83   |
| Cost of materials/Total value of shipments.....                        | .37                                 | .42                           | .66                                  | .38  | .32                                     | .45                              | .33   |
| Adjusted value added/Total employment.....                             | 12,764                              | 9,134                         | 13,122                               | 10,410   | 8,835                                   | 11,648                           | 9,413   |
| Salaries and wages/Adjusted value added.....                           | .70                                 | .68                           | .52                                  | .70  | .65                                     | .50                              | .75   |

Note: Detailed figures may not add to totals because of independent rounding or independent dropping of fractions of thousands rather than rounding in computer operations. See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

<sup>1</sup>The proportion of product shipments (both primary and secondary) of the industry represented by primary products.

<sup>2</sup>The proportion of primary products shipped by the establishments classified in the industry to total shipments of such products by all manufacturing establishments.

<sup>3</sup>For industry 1925, represents value of work done.

<sup>4</sup>See table 1, footnote 2.



TABLE 4. Selected Statistics, by Employment Size of Establishments: 1963

| Item  | Establishments, total | Establishments with an average of— |                  |                    |                    |                    |                      |                      |                      |                          |                          |
|---|-----------------------|------------------------------------|------------------|--------------------|--------------------|--------------------|----------------------|----------------------|----------------------|--------------------------|--------------------------|
|   |                       | 1 to 4 employees                   | 5 to 9 employees | 10 to 19 employees | 20 to 49 employees | 50 to 99 employees | 100 to 249 employees | 250 to 499 employees | 500 to 999 employees | 1,000 to 2,499 employees | 2,500 employees and over |
| INDUSTRY 1925.—COMPLETE GUIDED MISSILES   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..   | 31                    | -                                  | 2                | -                  | 4                  | 2                  | 2                    | 2                    | -                    | 6                        | 13                       |
| All employees:  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....  | 148,908               | -                                  | 279              | -                  | (D)                | (D)                | 976                  | (D)                  | -                    | 9,409                    | 138,244                  |
| Payroll.....\$1,000..   | 1,325,803             | -                                  | <u>2,923</u>     | -                  | (D)                | (D)                | <u>8,516</u>         | (D)                  | -                    | 93,187                   | 1,221,177                |
| Value added, adjusted.....do....  | 1,924,812             | -                                  | <u>4,570</u>     | -                  | (D)                | (D)                | <u>25,459</u>        | (D)                  | -                    | 153,194                  | 1,741,589                |
| Value of shipments.....do....   | 3,053,863             | -                                  | <u>7,078</u>     | -                  | (D)                | (D)                | <u>40,066</u>        | (D)                  | -                    | 232,077                  | 2,774,642                |
| Capital expenditures, new...do....  | 48,849                | -                                  | <u>56</u>        | -                  | (D)                | (D)                | <u>1,366</u>         | (D)                  | -                    | 2,853                    | 44,574                   |
| INDUSTRY 1929.—AMMUNITION, N.E.C.   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..   | 44                    | 6                                  | 3                | 1                  | 5                  | 1                  | 10                   | 3                    | 7                    | 4                        | 4                        |
| All employees:  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....  | 32,578                | 9                                  | 37               | (D)                | 223                | (D)                | 1,615                | 1,155                | 5,716                | 7,297                    | 16,526                   |
| Payroll.....\$1,000..   | 202,208               | 64                                 | <u>262</u>       | (D)                | <u>1,420</u>       | (D)                | 9,273                | 6,796                | 33,807               | 40,471                   | 110,115                  |
| Value added, adjusted.....do....  | 285,772               | 133                                | <u>295</u>       | (D)                | <u>4,155</u>       | (D)                | 14,485               | 10,663               | 38,538               | 52,743                   | 164,762                  |
| Value of shipments.....do....   | 503,001               | 183                                | <u>736</u>       | (D)                | <u>9,140</u>       | (D)                | 25,697               | 21,024               | 84,273               | 85,399                   | 276,549                  |
| Capital expenditures, new...do....  | 7,619                 | <u>2,572</u>                       | (D)              | (D)                | (D)                | (D)                | 466                  | 105                  | 846                  | 3,216                    | 2,414                    |
| INDUSTRY 1931.—TANKS AND TANK COMPONENTS  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..   | 26                    | 4                                  | 2                | 1                  | 3                  | 5                  | 3                    | 4                    | 1                    | 1                        | 2                        |
| All employees:  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....  | 11,307                | 3                                  | 25               | (D)                | 111                | 378                | 498                  | 1,697                | 8,595                | (D)                      | (D)                      |
| Payroll.....\$1,000..   | 76,583                | 17                                 | <u>124</u>       | (D)                | 509                | 2,666              | 2,384                | 11,433               | <u>59,450</u>        | (D)                      | (D)                      |
| Value added, adjusted.....do....  | 148,369               | 31                                 | <u>182</u>       | (D)                | 745                | 3,619              | 4,280                | 16,139               | <u>123,373</u>       | (D)                      | (D)                      |
| Value of shipments.....do....   | 394,144               | 60                                 | <u>425</u>       | (D)                | 2,246              | 9,639              | 13,099               | 61,342               | <u>307,333</u>       | (D)                      | (D)                      |
| Capital expenditures, new...do....  | 5,249                 | <u>5</u>                           | (D)              | (D)                | 13                 | <u>5,231</u>       | (D)                  | (D)                  | (D)                  | (D)                      | (D)                      |
| INDUSTRY 1941.—SIGHTING AND FIRE CONTROL EQUIPMENT  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..   | 13                    | 3                                  | 1                | 1                  | -                  | 1                  | 3                    | -                    | 1                    | 2                        | 1                        |
| All employees:  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....  | 9,249                 | 124                                | (D)              | (D)                | -                  | (D)                | 1,068                | -                    | (D)                  | 8,057                    | (D)                      |
| Payroll.....\$1,000..   | 66,949                | <u>700</u>                         | (D)              | (D)                | -                  | (D)                | <u>7,581</u>         | -                    | (D)                  | <u>58,668</u>            | (D)                      |
| Value added, adjusted.....do....  | 96,281                | <u>822</u>                         | (D)              | (D)                | -                  | (D)                | <u>11,569</u>        | -                    | (D)                  | <u>83,890</u>            | (D)                      |
| Value of shipments.....do....   | 156,568               | <u>1,368</u>                       | (D)              | (D)                | -                  | (D)                | <u>18,484</u>        | -                    | (D)                  | <u>136,716</u>           | (D)                      |
| Capital expenditures, new...do....  | 3,631                 | <u>23</u>                          | (D)              | (D)                | -                  | (D)                | <u>844</u>           | -                    | (D)                  | <u>2,764</u>             | (D)                      |
| INDUSTRY 1951.—SMALL ARMS, 30 MM. AND UNDER   |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..   | 52                    | 21                                 | 3                | 5                  | 7                  | 4                  | 2                    | 3                    | 5                    | 1                        | 1                        |
| All employees:  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....  | 9,995                 | 25                                 | 22               | 68                 | 245                | 721                | (D)                  | 1,179                | 7,735                | (D)                      | (D)                      |
| Payroll.....\$1,000..   | 57,347                | 229                                | 103              | 324                | 1,265              | <u>3,905</u>       | (D)                  | 6,470                | <u>45,051</u>        | (D)                      | (D)                      |
| Value added, adjusted.....do....  | 88,302                | 459                                | 139              | 598                | 2,664              | <u>7,185</u>       | (D)                  | 9,671                | <u>67,586</u>        | (D)                      | (D)                      |
| Value of shipments.....do....   | 133,042               | 659                                | 244              | 871                | 3,765              | <u>12,610</u>      | (D)                  | 14,928               | <u>99,965</u>        | (D)                      | (D)                      |
| Capital expenditures, new...do....  | 5,123                 | 14                                 | 7                | 26                 | 74                 | <u>724</u>         | (D)                  | 182                  | <u>4,096</u>         | (D)                      | (D)                      |
| INDUSTRY 1961.—SMALL ARMS AMMUNITION  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..   | 31                    | 14                                 | 2                | 2                  | 3                  | -                  | 4                    | 2                    | 1                    | 2                        | 1                        |
| All employees:  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....  | 8,909                 | 21                                 | <u>39</u>        | (D)                | 104                | -                  | 1,122                | (D)                  | 7,623                | (D)                      | (D)                      |
| Payroll.....\$1,000..   | 51,895                | 90                                 | <u>101</u>       | (D)                | 526                | -                  | <u>6,106</u>         | (D)                  | <u>45,072</u>        | (D)                      | (D)                      |
| Value added, adjusted.....do....  | 103,772               | 207                                | <u>291</u>       | (D)                | 955                | -                  | <u>12,376</u>        | (D)                  | <u>89,943</u>        | (D)                      | (D)                      |
| Value of shipments.....do....   | 192,454               | 472                                | <u>542</u>       | (D)                | 2,078              | -                  | <u>21,396</u>        | (D)                  | <u>167,966</u>       | (D)                      | (D)                      |
| Capital expenditures, new...do....  | 5,478                 | 17                                 | <u>41</u>        | (D)                | 421                | -                  | <u>547</u>           | (D)                  | <u>4,452</u>         | (D)                      | (D)                      |
| INDUSTRIES 1911 AND 1999.—GUNS, HOWITZERS, AND MORTARS AND ORDNANCE AND ACCESSORIES, N.E.C. |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Establishments.....number..   | 60                    | 16                                 | 4                | 3                  | 4                  | 9                  | 12                   | 3                    | 3                    | 2                        | 4                        |
| All employees:  |                       |                                    |                  |                    |                    |                    |                      |                      |                      |                          |                          |
| Total.....do....  | 24,988                | 51                                 | (D)              | 40                 | 105                | 718                | 2,061                | 1,135                | 4,495                | (D)                      | 16,383                   |
| Payroll.....\$1,000..   | 176,169               | <u>422</u>                         | (D)              | 271                | 441                | 3,486              | 11,222               | 6,189                | <u>30,700</u>        | (D)                      | 123,438                  |
| Value added, adjusted.....do....  | 235,211               | <u>739</u>                         | (D)              | 268                | 501                | 5,837              | 17,664               | 10,888               | <u>60,456</u>        | (D)                      | 138,858                  |
| Value of shipments.....do....   | 350,975               | <u>4,945</u>                       | (D)              | 351                | 1,221              | 9,162              | 30,496               | 19,505               | <u>80,275</u>        | (D)                      | 205,020                  |
| Capital expenditures, new...do....  | 12,269                | <u>25</u>                          | (D)              | 21                 | 51                 | 137                | 4,319                | 356                  | <u>2,234</u>         | (D)                      | 5,126                    |

- Represents zero.

(D) Withheld to avoid disclosure. Data for this item are included in the underscored figures at the left.

n.e.c. Not elsewhere classified.

<sup>1</sup>See footnote 2, table 1.<sup>2</sup>Includes capital expenditures of approximately \$200-\$500 thousand for plants under construction but not in operation.

TABLE 5A. Industry-Product Analysis—Industry and Primary Product Shipments; Specialization Ratios and Coverage Ratios: 1963 and 1958

An establishment is assigned to an industry based on the shipment values of products representing the largest amount considered as primary to an industry. Frequently the establishment shipments comprise mixtures of products assigned to an industry (primary products), those considered primary to other industries (secondary products of a given industry) and receipts for activities such

as merchandising or contract work. This product pattern for an industry is shown in columns A through D and the primary product specialization ratio in column E. The extent to which the given industry's primary products are shipped by establishments classified in and out of the given industry is summarized in columns F through H and shown as a ratio in column I.

| Ind. code | Industry and census year                                      | Value of shipments                               |  |  |   |                                      | Value of primary product shipments               |  |  |                               |
|-----------|---|--|--|--|---|--------------------------------------|--|--|--|-------------------------------|
|           |   | Total  | Primary products                             | Secondary products                         | Miscellaneous receipts                      | Primary product specialization ratio | Total, made in all industries                    | Made in this industry                        | Made in other industries                   | Coverage ratio                |
|           |   | (\$1,000)  | (\$1,000)                                    | (\$1,000)                                  | (\$1,000)                                   | Col. B<br>Col. B+C<br>(percent)      | (\$1,000)  | (\$1,000)                                    | (\$1,000)                                  | Col. B<br>Col. F<br>(percent) |
|           |   | A  | B  | C  | D   | E                                    | F  | G  | H  | I                             |
| 1911      | Guns, howitzers, and mortars.....1963..<br>1958..             | ( <sup>1</sup> )<br>6,892                        | ( <sup>1</sup> )<br>( <sup>2</sup> )         | ( <sup>1</sup> )<br>( <sup>2</sup> )       | ( <sup>1</sup> )<br>( <sup>2</sup> )        | (NA)<br>(NA)                         | ( <sup>1</sup> )<br>( <sup>2</sup> )             | ( <sup>1</sup> )<br>( <sup>2</sup> )         | ( <sup>1</sup> )<br>( <sup>2</sup> )       | (NA)<br>(NA)                  |
| 1925      | Complete guided missiles.....1963..<br>1958..                 | <sup>3</sup> 3,053,863<br><sup>2</sup> 2,206,710 | 2,734,776<br>1,565,534                       | 175,678<br>584,218                         | 143,409<br>56,958                           | 94<br>73                             | <sup>3</sup> 3,957,159<br><sup>2</sup> 1,886,682 | 2,734,776<br>1,565,534                       | 1,222,383<br>321,148                       | 69<br>83                      |
| 1929      | Ammunition, n.e.c.....1963..<br>1958..                        | 503,001<br>138,445                               | 290,272<br>(NA)                              | 123,418<br>(NA)                            | 89,311<br>(NA)                              | 70<br>(NA)                           | 355,893<br>133,031                               | 290,272<br>(NA)                              | 65,621<br>(NA)                             | 82<br>(NA)                    |
| 1931      | Tanks and tank components.....1963..<br>1958..                | 394,144<br>212,372                               | 358,016<br>177,756                           | 17,746<br>20,698                           | 18,382<br>13,918                            | 95<br>89                             | 454,396<br>210,752                               | 358,016<br>177,756                           | 96,380<br>32,996                           | 79<br>84                      |
| 1941      | Sighting and fire control equip-<br>ment.....1963..<br>1958.. | 156,568<br>682,580                               | 85,739<br>417,170                            | 65,579<br>253,267                          | 5,250<br>12,143                             | 57<br>62                             | 106,984<br>470,914                               | 85,739<br>417,170                            | 21,245<br>53,744                           | 80<br>89                      |
| 1951      | Small arms, 30 mm. and under.....1963..<br>1958..             | 133,042<br>79,107                                | 122,227<br>69,611                            | 5,882<br>6,961                             | 4,933<br>2,535                              | 95<br>91                             | 148,542<br>86,037                                | 122,227<br>69,611                            | 26,315<br>16,426                           | 82<br>81                      |
| 1961      | Small arms ammunition.....1963..<br>1958..                    | 192,454<br>167,446                               | 176,617<br>141,352                           | ( <sup>4</sup> )<br>( <sup>4</sup> )       | <sup>4</sup> 15,837<br><sup>4</sup> 26,094  | ( <sup>4</sup> )<br>( <sup>4</sup> ) | 192,399<br>150,651                               | 176,617<br>141,352                           | 15,782<br>9,299                            | 92<br>94                      |
| 1999      | Ordnance and accessories, n.e.c...1963..<br>1958..            | <sup>1</sup> 350,975<br><sup>2</sup> 208,698     | <sup>1</sup> 175,523<br><sup>2</sup> 139,761 | <sup>1</sup> 49,195<br><sup>2</sup> 11,872 | <sup>1</sup> 126,257<br><sup>2</sup> 57,065 | <sup>5</sup> 78<br>(NA)              | <sup>1</sup> 255,940<br><sup>2</sup> 210,043     | <sup>1</sup> 175,523<br><sup>2</sup> 139,761 | <sup>1</sup> 80,417<br><sup>2</sup> 70,282 | <sup>6</sup> 69<br>(NA)       |

Note: See Introduction for an explanation of terms used.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>Data for industry 1911 included with industry 1999 in 1963.

<sup>2</sup>Data for industry 1911 and a portion of industry 1929 has been included with industry 1999 in 1958 to avoid disclosing figures of individual companies.

<sup>3</sup>Represents value of work done.

<sup>4</sup>For industry 1961, value of shipments of secondary products are included with miscellaneous receipts. The specialization ratios are between 85 and 99 percent.

<sup>5</sup>The inclusion of data for industry 1911 does not effect the specialization ratio for industry 1999 in 1963.

<sup>6</sup>The coverage ratio for industry 1999 alone for 1963 is 72 percent. The difference in coverage by inclusion of the products primary to industry 1911 results from the fact that most of the value for industry 1911 is accounted for by establishments in industries other than 1911.



TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry: 1963

In thousands of dollars. The "All industries" column shows the total value of shipments of the primary products of the industry by all manufacturing industries. The next column(s) shows the total value of shipments of the specified industry divided among (a) products classified in the industry (primary products), (b) products classified in other industries (secondary products), and (c)

miscellaneous receipts. The value of shipments of the primary products of the specified industry reported by establishments not classified in that industry is shown under the caption "Other industries." Industries accounting for significant amounts of the primary products listed are shown in separate columns provided that the figures for individual companies are not thereby disclosed.

| Prod. class code                          | Class of products and miscellaneous receipts   | All industries | Complete guided missiles (SIC 1925)  | Other industries     |
|---|--|----------------|--------------------------------------|----------------------|
| <b>COMPLETE GUIDED MISSILES INDUSTRY</b>  |  |                |                                      |                      |
|   | Total shipments and receipts of the industry.....                                      | (X)            | 3,053,863                            | (X)                  |
|   | Primary products.....  | 3,957,159      | 2,734,776                            | 1,222,383            |
| 19251                                     | Guided missiles complete.....  | 1,644,818      | 1,059,736                            | <sup>1</sup> 584,445 |
| 19253                                     | Research and development on guided missiles (complete).....                            | 1,628,268      | 1,675,040                            | <sup>2</sup> 637,938 |
| 19255                                     | All other services on complete missiles and space vehicles.....                        | 684,710        |                                      |                      |
|   | Secondary products.....  | (X)            | 175,678                              | (X)                  |
| 36626                                     | Electronic military, industrial, and commercial equipment, n.e.c.....                  | (X)            | 16,438                               | (X)                  |
| 372--                                     | Aircraft and parts.....  | (X)            | 131,463                              | (X)                  |
|   | All other secondary products.....  | (X)            | <sup>3</sup> 27,777                  | (X)                  |
|   | Miscellaneous receipts.....  | (X)            | 143,409                              | (X)                  |
|   |  | All industries | Ammunition, n.e.c. (SIC 1929)        | Other industries     |
| <b>AMMUNITION, N.E.C., INDUSTRY</b>       |  |                |                                      |                      |
|   | Total shipments and receipts of the industry.....                                      | (X)            | 503,001                              | (X)                  |
|   | Primary products.....  | 355,893        | 290,272                              | 65,621               |
| 19291                                     | Ammunition over 30 mm (or 1.18 inches and over) n.e.c.....                             | 169,222        | 131,569                              | <sup>4</sup> 37,653  |
| 19292                                     | Receipts for ammunition loading and assembly over 30 mm (or 1.18 inches and over)..... |                |                                      |                      |
| 19293                                     | Ammunition, n.e.c.....   |                |                                      |                      |
| 19290                                     | Ammunition, n.e.c., n.s.k.....   | 186,671        | 158,703                              | <sup>5</sup> 27,968  |
|   | Secondary products.....  | (X)            | 123,418                              | (X)                  |
| 19990                                     | Ordnance and accessories, n.e.c.....   | (X)            | 2,020                                | (X)                  |
|   | All other secondary products.....  | (X)            | <sup>6</sup> 121,398                 | (X)                  |
|   | Miscellaneous receipts.....  | (X)            | 89,311                               | (X)                  |
|   | Contract work.....   | (X)            | 61,345                               | (X)                  |
|   | Other.....   | (X)            | 27,966                               | (X)                  |
|   |  | All industries | Tanks and tank components (SIC 1931) | Other industries     |
| <b>TANKS AND TANK COMPONENTS INDUSTRY</b> |  |                |                                      |                      |
|   | Total shipments and receipts of the industry.....                                      | (X)            | 394,144                              | (X)                  |
| 19310                                     | Tanks and tank components.....   | 454,396        | 358,016                              | <sup>7</sup> 96,380  |
|   | Secondary products.....  | (X)            | <sup>8</sup> 17,746                  | (X)                  |
|   | Miscellaneous receipts.....  | (X)            | 18,382                               | (X)                  |

See footnotes at end of table.

TABLE 5B. Industry-Product Analysis—Shipments by Product Class and Industry:  
1963—Continued

| Prod. class code  | Class of products and miscellaneous receipts                                     | All industries | Sighting and fire control equipment (SIC 1941) | Other industries     |
|---|--|----------------|--|----------------------|
| SIGHTING AND FIRE CONTROL EQUIPMENT INDUSTRY                                  |  |                |  |                      |
|   | Total shipments and receipts of the industry.....                                | (X)            | 156,568  | (X)                  |
| 19410   | Sighting and fire control equipment.....   | 106,984        | 85,739   | <sup>9</sup> 21,245  |
|   | Secondary products.....  | (X)            | <sup>10</sup> 65,579                           | (X)                  |
|   | Miscellaneous receipts.....  | (X)            | 5,250  | (X)                  |
| SMALL ARMS, 30 MM. AND UNDER INDUSTRY   |  |                |  |                      |
|   | Total shipments and receipts of the industry.....                                | (X)            | 133,042  | (X)                  |
|   | Primary products.....  | 148,542        | 122,227  | 26,315               |
| 19511   | Machine guns, 30 mm and under (or 1.18 inches and under).....                    | 148,542        | 122,227  | <sup>11</sup> 26,315 |
| 19512   | Small arms, 30 mm and under (or 1.18 inches and under).....                      |                |  |                      |
| 19510   | Small arms, 30 mm and under, n.s.k.....  |                |  |                      |
|   | Secondary products.....  | (X)            | <sup>12</sup> 5,882                            | (X)                  |
|   | Miscellaneous receipts.....  | (X)            | 4,933  | (X)                  |
|   | Contract work.....   | (X)            | 445  | (X)                  |
|   | Resales.....   | (X)            | 2,412  | (X)                  |
|   | Other.....   | (X)            | 2,076  | (X)                  |
| SMALL ARMS AMMUNITION INDUSTRY  |  |                |  |                      |
|   | Total shipments and receipts of the industry.....                                | (X)            | 192,454  | (X)                  |
| 19610   | Small arms ammunition.....   | 192,399        | 176,617  | <sup>13</sup> 15,782 |
|   | Secondary products.....  | (X)            | <sup>14</sup> 15,837                           | (X)                  |
|   | Miscellaneous receipts.....  |                |  |                      |
| GUNS, HOWITZERS, AND MORTARS AND ORDNANCE AND ACCESSORIES, N.E.C., INDUSTRIES |  |                |  |                      |
|   | Total shipments and receipts of the industries.....                              | (X)            | 350,975  | (X)                  |
| 19110   | Guns, howitzers, mortars, and related equipment 30 mm (or over 1.18 inches)..... | 12,444         | 175,523  | <sup>15</sup> 80,417 |
| 19990   | Ordnance and accessories, n.e.c.....   | 243,496        |  |                      |
|   | Secondary products.....  | (X)            | <sup>16</sup> 49,195                           | (X)                  |
|   | Miscellaneous receipts.....  | (X)            | 126,257  | (X)                  |
|   | Contract work.....   | (X)            | 113,860  | (X)                  |
|   | Other miscellaneous receipts.....  | (X)            | 12,397   | (X)                  |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Includes \$372,326 shipped by industry 3721, Aircraft. In addition, the following industries had shipments of \$2 million or more; however, the exact values are withheld to avoid disclosing individual company figures: 3662, Radio, TV Communications Equipment; 3722, Aircraft Engines and Parts; and, 3729, Aircraft Equipment, N.E.C.

<sup>2</sup>Includes shipments of \$2 million or more by the following industries; however, the exact values are withheld to avoid disclosing individual company figures: 3662, Radio, TV Communications Equipment; 3721, Aircraft; and 3729, Aircraft Equipment, N.E.C.

Footnotes continued on next page.



TABLE 5B. Industry-Product Analysis—Production by Product Class and Industry:  
1963—Continued

## Footnotes for Table 5B-19A-Continued

<sup>3</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 27313, Technical, scientific, and professional books; 36624, Electronic navigational aids (except missile-borne and space vehicle basin equipment) and 36628, Missile-borne and space vehicle-borne navigation and guidance systems and equipment.

<sup>4</sup>Includes shipments of \$2 million or more by the following industries; however, the exact values are withheld to avoid disclosing individual company figures: 3461, Metal Stampings; 3545, Machine Tool Accessories; 3621, Motors and Generators; 3661, Telephone; Telegraph Apparatus; and 3871, Watches and Clocks.

<sup>5</sup>Includes \$2 million shipped by industry 3729, Aircraft Equipment, N.E.C. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 1941, Sighting and Fire Control Equipment; 3443, Boiler Shop Products; 3599, Miscellaneous Machinery; and 3636, Sewing Machines.

<sup>6</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 19310, Tanks and tank components; 33991, Metal powders and paste; 34320, Plumbing fixtures and fittings and trim (brass goods); 34434, Gas cylinders; 34612, Job stampings, except automotive; 34615, Stamped and spun hospital utensils and cooking and kitchen household utensils except aluminum; 36621, Radio and TV commercial communication equipment; 37175, Parts and accessories for passenger cars, trucks, and busses, shipped to motor vehicle manufacturers; 37221, Aircraft engines for military customers; 37223, Research and development on aircraft engines; 37291, Other aircraft parts and auxiliary equipment; and 37292, Guided missile components and subassemblies, n.e.c.

<sup>7</sup>Includes \$5,029 shipped by industry 3717, Motor Vehicles and Parts. In addition, the following industries had shipments which totaled \$2 million or more but are withheld to avoid disclosing figures for individual companies: 1929, Ammunition, N.E.C.; 3323, Steel Foundries, 3585, Refrigeration Machinery; 3722, Aircraft Engines and Parts; and 3742, Railroad and Street Cars.

<sup>8</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing individual company figures: 37291, Other aircraft parts and auxiliary equipment; and 37292, Guided missile components and subassemblies, n.e.c.

<sup>9</sup>Includes \$12,997 thousand shipped by industry 3662, Radio, TV Communications Equipment. In addition, industry 3585, Refrigeration Machinery, had shipments which totaled \$2 million or more, but is withheld to avoid disclosing figures for individual companies.

<sup>10</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing figures for individual companies: 19293, Ammunition, n.e.c.; 36112, Test equipment for testing electrical, radio, and communication circuits and motors; 36624, Electronic navigational aids; 36628, Missile-borne and space vehicle-borne navigation and guidance systems and equipment; 37291, Other aircraft parts and auxiliary equipment; 37292, Guided missile components and subassemblies, n.e.c.; 38311, Optical instruments and lenses, except sighting and fire-control equipment; and 38410, Surgical and medical instruments and apparatus.

<sup>11</sup>Includes shipments of over \$2 million of the following industries, however, the exact values are withheld to avoid disclosing individual company figures: 3722, Aircraft Engines and Parts; and 3729, Aircraft Equipment, N.E.C.

<sup>12</sup>Includes shipments of over \$2 million of products classified in industry 3717, Motor Vehicles and Parts; however, the exact figures are withheld to avoid disclosing individual company figures.

<sup>13</sup>Includes the following industries which total \$2 million or more but are withheld to avoid disclosing company figures: 1999, Ordnance and Accessories, N.E.C.; 3352, Aluminum Rolling and Drawing; and 3694, Engine Electrical Equipment.

<sup>14</sup>Includes the following product classes which total \$2 million or more but are withheld to avoid disclosing company figures: 19990, Ordnance and accessories, n.e.c., and 34295, Other hardware.

<sup>15</sup>Includes shipments (in thousands of dollars) by the following: \$2,020 by industry 1929, Ammunition, N.E.C.; \$6,134 by industry 3662, Radio, TV Communication Equipment; \$3,562, by industry 3722, Aircraft Engines and Parts; \$7,227 by industry 3729, Aircraft Equipment, N.E.C.; as well as by the following industries, the shipments of which total \$2 million or more but are withheld to avoid disclosing individual company figures: 1961, Small Arms Ammunition; 2522, Metal Office Furniture; 3011, Tires and Inner Tubes; 3433, Heating Equipment, Except Electric; 3443, Boiler Shop Products; 3461, Metal Stampings; 3519, Internal Combustion Engines; 3544, Special Dies and Tools; 3571, Computing and Related Machines; 3599, Miscellaneous Machinery; 3679, Electronic Components, N.E.C.; 3721, Aircraft; and 3861, Photographic Equipment.

<sup>16</sup>Includes the following product classes which total \$2 million or more, but are withheld to avoid disclosing individual company figures: 19610, Small arms ammunition, 30 mm. and under (or 1.18 inches and under); 35111, Steam, gas, and hydraulic turbine generator set units and parts; 35595, Other special industry machinery and equipment; 36122, Power and distribution transformers, except parts; 36131, Switchgear, including power switchgear assemblies, and other switching and interrupting devices 2,300 volts; 36212, Integral horsepower motors and generators, except land transportation; and 36220, General industry power circuit devices and controls.

TABLE 6A. Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958

| Product code | Product  | Total shipments including interplant transfers |                    |                               |                    |
|--------------|--|--|--------------------|-------------------------------|--------------------|
|              |  | 1963   |                    | 1958                          |                    |
|              |  | Quantity<br>(number of units)                  | Value<br>(\$1,000) | Quantity<br>(number of units) | Value<br>(\$1,000) |
| 1911- --     | GUNS, HOWITZERS, MORTARS, AND RELATED EQUIPMENT, OVER 30 MM.(OR OVER 1.18 INCHES)..... | (X)  | 12,444             | (X)                           | ( <sup>2</sup> )   |
| 1925- --     | GUIDED MISSILES AND SPACE VEHICLES, COMPLETELY ASSEMBLED, TOTAL.....                   | (X)  | 3,957,159          | (X)                           | 31,886,682         |
| 19251 --     | Guided missiles and space vehicles, complete.....                                      | (X)  | 1,644,181          | (X)                           | 900,837            |
| 19251 11     | Complete missile systems (excluding propulsion).....                                   | (X)  | 1,241,792          | (X)                           | 900,837            |
| 19251 13     | Complete space vehicle systems (excluding propulsion):                                 | (X)  | 52,804             |                               |                    |
| 19251 15     | For United States Government military customers.....                                   | (X)  | 349,585            |                               |                    |
| 19253 --     | Research and development on guided missiles and space vehicles (complete).....         | (X)  | 1,628,268          | (X)                           | 4985,845           |
| 19253 11     | Research and development on complete missile systems.....                              | (X)  | 778,107            | (X)                           | (NA)               |
| 19253 13     | Research and development on complete space vehicle systems:                            | (X)  | 205,143            | (X)                           | (NA)               |
| 19253 15     | For United States Government nonmilitary customers.....                                | (X)  | 645,018            | (X)                           | (NA)               |
| 19255 --     | All other services on complete missiles and space vehicles.....                        | (X)  | 684,710            | (X)                           | ( <sup>4</sup> )   |
| 19255 11     | All other services on complete missiles.....   | (X)  | 593,869            | (X)                           | (NA)               |
| 19255 13     | All other services on complete space vehicles:   | (X)  | 39,921             | (X)                           | (NA)               |
| 19255 15     | For United States Government military customers.....                                   | (X)  | 50,092             | (X)                           | (NA)               |
| 19255 23     | For nongovernment customers.....   | (X)  | 828                | (X)                           | (NA)               |
| 1929- --     | AMMUNITION, N.E.C.....   | (X)  | 355,893            | (X)                           | 2133,031           |
| 19291 --     | Ammunition over 30 mm.(or 1.18 inches and over), n.e.c.....                            | (X)  | 169,222            | (X)                           | 70,736             |
| 19292 --     | Receipts for ammunition loading and assembly over 30 mm.(or over 1.18 inches).....     |  |                    | (X)                           | ( <sup>2</sup> )   |
| 19293 --     | Ammunition, n.e.c.....   |  |                    | (X)                           | 62,295             |
| 19290 --     | Ammunition, n.e.c., n.s.k.....   | (X)  | 186,671            | (X)                           | 62,295             |
| 1931- --     | TANKS AND TANK COMPONENTS.....   | (X)  | 454,396            | (X)                           | 210,752            |
| 1941- --     | SIGHTING AND FIRE CONTROL EQUIPMENT.....   | (X)  | 106,984            | (X)                           | 470,914            |
| 19410 10     | As reported in the census of manufactures.....   | (X)  | 106,984            | (X)                           | 470,914            |
|              | As reported on Census Annual Form MA-38B.....  | (X)  | 104,380            | (X)                           | (X)                |
| 1951- --     | SMALL ARMS, 30 MM. AND UNDER.....  | (X)  | 148,542            | (X)                           | 86,037             |
| 19512 32     | Pistols and revolvers.....   | 496,139  | 19,716             | 489,340                       | 18,969             |
|              | Rifles:  |  |                    |                               |                    |
| 19512 52     | Center fire, repeating.....  | 324,420  | 18,211             | 224,921                       | 12,495             |
| 19512 54     | Rim fire, repeating.....   | 371,145  | 9,564              | 289,540                       | 7,633              |
| 19512 56     | Rim fire, single shot.....   | 179,875  | 2,354              | 163,239                       | 1,639              |
|              | Shot guns:   |  |                    |                               |                    |
|              | Single barrel:   |  |                    |                               |                    |
| 19512 62     | Repeating.....   | 321,869  | 17,916             | 382,945                       | 17,072             |
| 19512 63     | Single shot.....   | 281,170  | 7,475              | 224,277                       | 5,327              |
| 19512 64     | Double barrel, including over and under type.....                                      |  |                    |                               |                    |
|              | Other small firearms 30 mm. and under including machine guns:                          |  |                    |                               |                    |
| 19511 13     | Shipped under U.S. military contract.....  | (X)  | 68,760             | (X)                           | 21,853             |
| 19512 72     |  |  |                    |                               |                    |
| 19511 53     |  |  |                    |                               |                    |
| 19512 75     | Shipments under other than U.S. military contracts.....                                | (X)  | 68,760             | (X)                           | 21,853             |
| 19512 81     | Parts and attachments for small firearms.....  | (X)  | 4,546              | (X)                           | 1,049              |
| 19510 00     | Small arms 30 mm. and under, n.s.k.....  | (X)  | 192,399            | (X)                           | 150,651            |
| 1961- --     | SMALL ARMS AMMUNITION, 30 MM. AND UNDER.....   | (X)  | 82,090             | (X)                           | 55,643             |
| 19610 12     | Shipped under U.S. military contract.....  | (X)  | 82,090             | (X)                           | 55,643             |
|              | Shipments other than U.S. military contracts:  |  |                    |                               |                    |
|              | For small firearms (rifles, shotguns, and sidearms):                                   |  |                    |                               |                    |
|              | Cartridges:  |  |                    |                               |                    |
| 19610 83     | Rim fire.....  | (X)  | 41,501             | (X)                           | 92,797             |
| 19610 85     | Center fire.....   |  |                    |                               |                    |
| 19610 87     | Shotgun shells.....  | (X)  | 49,734             | (X)                           | 92,797             |
| 19610 89     | All other, including for machine gun, air rifle, B-B gun, etc.....                     | (X)  | 14,616             | (X)                           | 2,211              |
| 19610 00     | Small arms ammunition, n.s.k.....  | (X)  | 4,458              | (X)                           | 2,211              |
| 1999- --     | ORDNANCE AND ACCESSORIES, N.E.C.....   | (X)  | 243,496            | (X)                           | 2210,043           |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup>Although general statistics for industry 1911 have been combined with SIC 1999, the value of products primary to SIC 1911 is shown separately. Most of this value is accounted for by establishments in industries other than 1911.

<sup>2</sup>Value of shipments for 1911 and 19292 included with 1999 for 1958.

<sup>3</sup>Data for industry 1925 represents receipts, billings or value of work done.

<sup>4</sup>In the 1958 Census of Manufactures, a single value figure for research and development and all other services on complete guided missiles and space vehicles was collected. Consequently, separate detailed statistics comparable to 1963 are not available.



TABLE 6B. **Product Classes—Indexes of Production and Unit Value for Primary Products Shipped by All Producers: 1963 and 1958**

(Indexes of production and unit value are not shown for this area pending further review of the quantity data and associated values pertaining to these products.)

TABLE 6C. **Product Classes—Value Shipped by All Manufacturing Establishments: 1947, 1954, 1958 to 1963**

(In thousands of dollars)

| Code   | Product class   | 1963      | 1962 <sup>1</sup> | 1961 <sup>1</sup> | 1960 <sup>1</sup> | 1959 <sup>1</sup> | 1958      | 1954   | 1947   |
|--------|---|-----------|-------------------|-------------------|-------------------|-------------------|-----------|--------|--------|
| 1925-  | Complete guided missiles.....                               | 3,957,159 | 3,001,894         | 2,572,064         | 2,693,118         | 2,248,000         | 1,886,682 | (NA)   | (NA)   |
| 19251  | Guided missiles, complete.....                              | 1,644,181 | 1,542,276         | 1,045,125         | 1,048,480         | 995,910           | 900,837   | (NA)   | (NA)   |
| 19253  | Research and development on guided missiles (complete)..... | 1,628,268 | 1,459,618         | 1,526,939         | 1,644,638         | 1,252,090         | 985,845   | (NA)   | (NA)   |
| 19255  | All other services on complete space vehicles.....          | 684,710   |                   |                   |                   |                   |           |        |        |
| 1951 - | Small arms, 30 mm. and under.....                           | 148,542   | 180,623           | 138,608           | 104,679           | (S)               | 86,037    | 56,449 | 54,932 |
| 19610  | Small arms ammunition.....                                  | 192,399   | 163,906           | 152,008           | 130,350           | 159,069           | 150,651   | (NA)   | (NA)   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.

(S) Withheld because the estimate did not meet publication standards, either on the basis of the associated standard error of estimate or on the basis of a consistency review.

<sup>1</sup>These figures represent estimates derived from a representative sample of manufacturing establishments canvassed in the annual survey of manufactures. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the annual survey of manufactures volumes for this period.

TABLE 7A. Materials by Kind: 1963 and 1958

| Code                                     | Material  | Unit of measure            | 1963     |                          | 1958     |                          |
|--|---|----------------------------|----------|--------------------------|----------|--------------------------|
|  |   |                            | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 1925.--COMPLETE GUIDED MISSILES |   |                            |          |                          |          |                          |
|  | Materials, parts, containers, and supplies, total.....  | 1,000.....                 | (X)      | 946,198                  | (X)      | 979,754                  |
|  | Mill shapes and forms (except castings):  |                            |          |                          |          |                          |
|  | Carbon steel:   |                            |          |                          |          |                          |
| 331011                                   | Bars and bar shapes.....  | Short tons.....            | 2,215    | 708                      | 3,035    | 1,762                    |
| 331013                                   | Plates.....   | ..do.....                  | 2,117    | 501                      | 2,755    | 699                      |
| 331015                                   | Structural shapes.....  | ..do.....                  | 1,168    | 323                      | 2,115    | 534                      |
| 331012                                   | Sheet and strip.....  | ..do.....                  |          |                          | 1,884    | 679                      |
| 331017                                   | Wire and wire products.....   | ..do.....                  |          |                          |          |                          |
| 331019                                   | All other carbon steel mill shapes and forms.....   | ..do.....                  | 2,793    | 764                      | 2,220    | 1,609                    |
|  | Alloy steel:  |                            |          |                          |          |                          |
| 331021                                   | Bars and bar shapes.....  | ..do.....                  | 166      | 126                      | 1,645    | 1,449                    |
| 331029                                   | All other alloy steel mill shapes and forms.....  | ..do.....                  | 125      | 246                      | 1,214    | 762                      |
| 331031                                   | Stainless steel.....  | ..do.....                  | 526      | 1,272                    | 1,704    | 4,123                    |
|  | Copper and copper-base alloy:   |                            |          |                          |          |                          |
| 335728                                   | Bare wire for electrical conduction.....  | 1,000 lbs.....             |          |                          |          |                          |
| 335790                                   | Insulated wire and cable.....   | 1,000 lbs. copper content. | 1,385    | 3,884                    | 2,422    | 6,002                    |
| 335102                                   | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                          | 1,000 lbs.....             | 38       | 40                       |          |                          |
| 335123                                   | Plate, sheet, and strip, including military cups and discs.....                                     | ..do.....                  | (D)      | (D)                      | 1,071    | 742                      |
| 335127                                   | Pipe and tube.....  | ..do.....                  | (D)      | (D)                      |          |                          |
|  | Aluminum and aluminum-base alloy:   |                            |          |                          |          |                          |
| 335202                                   | Sheet, plate, and foil.....   | ..do.....                  | 5,880    | 5,116                    | 12,090   | 8,260                    |
| 335205                                   | Extruded shapes, including extruded rod, bar, pipe, tube, etc....                                   | ..do.....                  |          |                          |          |                          |
| 335209                                   | All other aluminum mill shapes and forms (wire, rolled, rod, bar, powder, welded tubing, etc.)..... | ..do.....                  | 6,162    | 6,825                    | 4,102    | 3,995                    |
|  | Castings (rough and semifinished): <sup>1</sup>   |                            |          |                          |          |                          |
| 332300                                   | Steel.....  | Short tons.....            | 63       | 191                      | 118      | 185                      |
| 336100                                   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....             | 2,063    | 2,550                    | 1,170    | 2,782                    |
| 336200                                   | Copper and copper-base alloy.....   | ..do.....                  | (D)      | (D)                      | (NA)     | (NA)                     |
|  | Forgings <sup>1</sup> :   |                            |          |                          |          |                          |
| 339100                                   | Iron and steel.....   | Short tons.....            | 298      | 867                      | (NA)     | (NA)                     |
| 339200                                   | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....             | 1,966    | 2,870                    | (NA)     | (NA)                     |
| 333401                                   | Aluminum and aluminum-base alloy refinery shapes.....   | ..do.....                  | (D)      | (D)                      | (NA)     | (NA)                     |
|  | Electric motors and generators <sup>1</sup> :   |                            |          |                          |          |                          |
|  | Fractional horsepower electric motors (under 1 hp):   |                            |          |                          |          |                          |
| 362110                                   | Timing motors, synchronous and subsynchronous.....  | 1,000.....                 | 1        | 203                      | 10       | 183                      |
| 362115                                   | Other fractional horsepower motors.....   | ..do.....                  | (D)      | (D)                      | (NA)     | (NA)                     |
| 362120                                   | Integral hp. motors and generators.....   | ..do.....                  | (D)      | (D)                      | (NA)     | (NA)                     |
|  | Bearings:   |                            |          |                          |          |                          |
| 356218                                   | Ball.....   | ..do.....                  |          |                          |          |                          |
| 356228                                   | Roller.....   | ..do.....                  | (X)      | 1,040                    | (X)      | 1,311                    |
| 970099                                   | All other materials and components, parts, containers, and supplies consumed.....                   | ..do.....                  | (X)      | 915,677                  | (X)      | 786,877                  |
| 976000                                   | Materials, parts and supplies, n.s.k.....   | ..do.....                  | (X)      | 2,995                    | (X)      | 157,800                  |

| Material   | Unit of measure | 1963     |                          |
|--|-----------------|----------|--------------------------|
|  |                 | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 1929.--AMMUNITION, N.E.C.                       |                 |          |                          |
| Materials, parts, containers, and supplies, total.....   |                 | (X)      | 180,295                  |
| Mill shapes and forms (except castings):                 |                 |          |                          |
| Carbon steel:  |                 |          |                          |
| 331011 Bars and bar shapes.....                          | Short tons..... | 44,453   | 6,467                    |
| 331012 Sheet and strip.....                              | ..do.....       | 33,033   | 5,496                    |
| 331013 Plates.....                                       | ..do.....       |          |                          |
| 331015 Structural shapes.....                            | ..do.....       |          |                          |
| 331017 Wire and wire products.....                       | ..do.....       | 38,194   | 6,259                    |
| 331019 All other carbon steel mill shapes and forms..... | ..do.....       |          |                          |
| Alloy steel (except stainless):                          |                 |          |                          |
| 331021 Bars and bar shapes.....                          | ..do.....       |          |                          |
| 331029 All other alloy steel mill shapes and forms.....  | ..do.....       | 14,299   | 12,413                   |
| 331031 Stainless steel.....                              | ..do.....       |          |                          |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code  | Material   | Unit of measure             | 1963     |                          |
|---|--|-----------------------------|----------|--------------------------|
|   |  |                             | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 1929.—AMMUNITION, N.E.C.—Continued                         |  |                             |          |                          |
| Mill shapes and forms (except castings)--Continued                  |  |                             |          |                          |
| Copper and copper-base alloy:                                       |  |                             |          |                          |
| 335728  | Bare wire, (for electrical conduction).....  | 1,000 lbs.....              | } 107    | 73                       |
| 335790  | Insulated wire and cable.....  | 1,000 lbs. (copper content) |          |                          |
| 335102  | Rod, bar, and mechanical wire including extruded and/or drawn shapes.....                          | 1,000 lbs.....              | 1,102    | 707                      |
| 335123  | Plate, sheet, and strip, including military cups and discs.....                                    | ..do.....                   | } 5,570  | 2,533                    |
| 335127  | Pipe and tube.....   | ..do.....                   |          |                          |
| Aluminum and aluminum-base alloy:                                   |  |                             |          |                          |
| 335202  | Sheet, plate, and foil.....  | ..do.....                   | 3,311    | 1,694                    |
| 335205  | Extruded shapes, including extruded rod, bar, pipe, tube, etc.....                                 | ..do.....                   | 10,806   | 5,354                    |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod, bar, powder, welded tubing, etc.)..... | ..do.....                   | 32,233   | 19,775                   |
| Scrap:  |  |                             |          |                          |
| 333401  | Aluminum and aluminum -base alloy refinery shapes.....   | .....                       | (D)      | (D)                      |
| 999811  | Iron and steel.....  | .....                       | (D)      | (D)                      |
| 999808  | Aluminum and aluminum-base alloy.....  | .....                       | (D)      | (D)                      |
| Castings (rough and semifinished): <sup>1</sup>                     |  |                             |          |                          |
| 332011  | Iron (gray and malleable).....   | Short tons.....             | 4,612    | 989                      |
| 332300  | Steel.....   | ..do.....                   | 1,188    | 740                      |
| 336100  | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....              | 517      | 518                      |
| 336200  | Copper and copper-base alloy.....  | .....                       | (D)      | (D)                      |
| Forgings:   |  |                             |          |                          |
| 339100  | Iron and steel forgings.....   | Short tons.....             | 1,230    | 652                      |
| 339200  | Aluminum and aluminum-base alloy forgings.....   | .....                       | (D)      | (D)                      |
| Fractional horsepower electric motors (under 1 hp.):                |  |                             |          |                          |
| 362110  | Timing motors, synchronous and subsynchronous.....   | .....                       | (D)      | (D)                      |
| 362115  | Other fractional horsepower electric motors and generators, excluding timing motors.....           | .....                       | (D)      | (D)                      |
| Bearings:   |  |                             |          |                          |
| 356218  | Ball.....  | .....                       | } (X)    | 54                       |
| 356228  | Rollers.....   | .....                       |          |                          |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                  | .....                       | (X)      | 112,010                  |
| 976000  | Materials, parts, containers and supplies, n.s.k.....  | .....                       | (X)      | 4,561                    |
| INDUSTRY 1931.--TANKS AND TANK COMPONENTS                           |  |                             |          |                          |
| Materials, parts, containers, and supplies, total.....              |  |                             | (X)      | 255,930                  |
| Mill shapes and forms (except castings):                            |  |                             |          |                          |
| Carbon steel:   |  |                             |          |                          |
| 331011  | Bars and bar shapes.....   | Short tons.....             | } 7,690  | 3,796                    |
| 331012  | Sheet and strip.....   | ..do.....                   |          |                          |
| 331013  | Plates.....  | ..do.....                   |          |                          |
| 331017  | Wire and wire products.....  | ..do.....                   |          |                          |
| 331019  | All other carbon steel mill shapes and forms.....  | ..do.....                   |          |                          |
| Alloy steel (except stainless):                                     |  |                             |          |                          |
| 331021  | Bars and bar shapes.....   | ..do.....                   | } 33,467 | 20,925                   |
| 331029  | All other alloy steel mill shapes and forms.....   | ..do.....                   |          |                          |
| 331031  | Stainless steel.....   | ..do.....                   | 240      | 392                      |
| Copper and copper-base alloy:                                       |  |                             |          |                          |
| 335790  | Insulated wire and cable.....  | .....                       | (D)      | (D)                      |
| 335102  | Rod, bar, and mechanical wire including extruded and/or drawn shapes.....                          | .....                       | (D)      | (D)                      |
| 335127  | Pipe and tube.....   | .....                       | (D)      | (D)                      |
| Aluminum and aluminum-base alloy:                                   |  |                             |          |                          |
| 335202  | Sheet plate and foil.....  | .....                       | (D)      | (D)                      |
| 335205  | Extruded shapes, including extruded rod, bar, pipe, tube, etc.....                                 | .....                       | (D)      | (D)                      |
| 335209  | All other aluminum mill shapes and forms (wire, rolled rod, bar, powder, welded tubing, etc.)..... | .....                       | (D)      | (D)                      |
| Castings (rough and semifinished): <sup>1</sup>                     |  |                             |          |                          |
| 332011  | Iron (gray and malleable).....   | .....                       | (D)      | (D)                      |
| 332300  | Steel.....   | Short tons.....             | 31,794   | 29,502                   |
| 336100  | Aluminum and aluminum-base alloy.....  | .....                       | (D)      | (D)                      |
| Forgings:   |  |                             |          |                          |
| 339100  | Iron and steel.....  | Short tons.....             | 9,271    | 5,123                    |
| 339200  | Aluminum and aluminum-base alloy.....  | .....                       | (D)      | (D)                      |
| Fractional horsepower electric motors and generators (under 1 hp.): |  |                             |          |                          |
| 362115  | Other fractional horsepower electric motors and generators, excluding timing motors.....           | .....                       | (D)      | (D)                      |
| Bearings:   |  |                             |          |                          |
| 356218  | Ball.....  | .....                       | } (X)    | 1,255                    |
| 356228  | Roller.....  | .....                       |          |                          |
| 970099  | All other materials and components, parts, containers, and supplies consumed.....                  | .....                       | (X)      | 181,316                  |
| 976000  | Materials, parts, containers and supplies, n.s.k.....  | .....                       | (X)      | 13,621                   |

See footnotes at end of table.

TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material  | Unit of measure                  | 1963     |                          | 1958     |                          |
|--|---|----------------------------------|----------|--------------------------|----------|--------------------------|
|  |   |                                  | Quantity | Delivered cost (\$1,000) | Quantity | Delivered cost (\$1,000) |
| INDUSTRY 1951.--SMALL ARMS, 30 MM. AND UNDER |   |                                  |          |                          |          |                          |
|  | Materials, parts, containers and supplies, total.....   |                                  | (X)      | 39,661                   | (X)      | 18,070                   |
|  | Mill shapes and forms (except castings):  |                                  |          |                          |          |                          |
|  | Carbon steel:   |                                  |          |                          |          |                          |
| 331011                                       | Bars and bar shapes.....  | Short tons.....                  | 8,406    | 1,885                    | 6,072    | 1,466                    |
| 331012                                       | Sheet and strip.....  | ..do.....                        | 4,906    | 1,781                    | 485      | 140                      |
| 331013                                       | Plates.....   | ..do.....                        |          |                          | 60       | 17                       |
| 331017                                       | Wire and wire products.....   | ..do.....                        | 354      | 424                      | -        | -                        |
| 331019                                       | All other carbon steel mill shapes and forms.....   | ..do.....                        |          |                          |          |                          |
|  | Alloy steel (except stainless):   |                                  |          |                          |          |                          |
| 331021                                       | Bar and bar shapes.....   | ..do.....                        | 5,535    | 2,004                    | 712      | 637                      |
| 331029                                       | All other alloy steel mill shapes and forms.....  | ..do.....                        |          |                          |          |                          |
| 331031                                       | Stainless steel.....  | ..do.....                        |          |                          | -        | -                        |
|  | Copper and copper-base alloy:   |                                  |          |                          |          |                          |
| 335128                                       | Bare wire (for electrical conduction only).....   | 1,000 lbs.....                   | -        | -                        | 66       | 20                       |
| 335790                                       | Insulated wire and cable.....   | 1,000 lbs. (copper content)..... | -        | -                        |          |                          |
| 335102                                       | Rod, bar, and mechanical wire including extruded and/or drawn shapes.....                                 | 1,000 lbs.....                   | (D)      | (D)                      |          |                          |
| 335123                                       | Plate, sheet, and strip (including military cups and discs.....   | ..do.....                        | -        | -                        |          |                          |
| 335237                                       | Pipe and tube.....  | ..do.....                        | -        | -                        |          |                          |
|  | Aluminum and aluminum-base alloy:   |                                  |          |                          |          |                          |
| 335202                                       | Sheet, plate and foil.....  | ..do.....                        | (NA)     | 142                      | -        | -                        |
| 335205                                       | Extruded shapes, including extruded rod, bar, pipe, tube, etc... ..                                       | ..do.....                        |          |                          |          |                          |
| 335209                                       | All other aluminum mill shapes and forms (wire, rolled rod and bar, powder, and welded tubing, etc.)..... | ..do.....                        |          |                          |          |                          |
|  | Castings (rough and semifinished): <sup>1</sup>   |                                  |          |                          |          |                          |
| 332011                                       | Iron (gray and malleable).....  | Short tons.....                  | 1,562    | 790                      | 305      | 186                      |
| 332300                                       | Steel.....  | ..do.....                        | (D)      | (D)                      | -        | -                        |
| 336100                                       | Aluminum and aluminum-base alloy.....   | 1,000 lbs.....                   | 559      | 279                      | 2        | 10                       |
|  | Forgings: <sup>1</sup>  |                                  |          |                          |          |                          |
| 339100                                       | Iron and steel.....   | Short tons.....                  | 1,790    | 1,943                    | 196      | 219                      |
| 339200                                       | Aluminum and aluminum-base alloy.....   | ..do.....                        | (D)      | (D)                      | -        | -                        |
|  | Bearings:   |                                  |          |                          |          |                          |
| 356218                                       | Ball.....   | ..do.....                        | (X)      | (D)                      | (X)      | 14                       |
| 356228                                       | Roller.....   | ..do.....                        | (X)      | (D)                      | (X)      |                          |
| 970099                                       | All other materials and components, parts, containers, and supplies consumed.....                         | ..do.....                        | (X)      | 26,066                   | -        | 14,331                   |
| 976000                                       | Materials, parts, and supplies, n.s.k.....  | ..do.....                        | (X)      | 24,347                   | -        | 349                      |
| INDUSTRY 1961.--SMALL ARMS AMMUNITION        |   |                                  |          |                          |          |                          |
|  | Materials, parts, containers and supplies, total.....   |                                  | (X)      | 79,734                   | (X)      | 69,026                   |
|  | Mill shapes and forms (except castings):  |                                  |          |                          |          |                          |
|  | Carbon steel:   |                                  |          |                          |          |                          |
| 331017                                       | Wire and wire products.....   | Short tons.....                  | 4,083    | 2,415                    | 1,711    | 305                      |
| 331012                                       | Sheet and strip.....  | ..do.....                        |          |                          |          |                          |
| 331013                                       | Plates.....   | ..do.....                        |          |                          |          |                          |
| 331011                                       | Bar and bar shapes.....   | ..do.....                        |          |                          |          |                          |
| 331019                                       | All other carbon steel mill shapes and forms.....   | ..do.....                        |          |                          |          |                          |
|  | Alloy steel (except stainless):   |                                  |          |                          |          |                          |
| 331021                                       | Bar and bar shapes.....   | ..do.....                        |          |                          | -        | -                        |
| 331029                                       | All other alloy steel mill shapes and forms.....  | ..do.....                        |          |                          | -        | -                        |
| 331031                                       | Stainless steel.....  | ..do.....                        |          |                          | -        | -                        |
|  | Copper and copper-base alloy:   |                                  |          |                          |          |                          |
| 335102                                       | Rod, bar, and mechanical wire, including extruded and/or drawn shapes.....                                | 1,000 lbs.....                   | (D)      | (D)                      | 34,946   | 18,611                   |
| 335123                                       | Plate, sheet, and strip, including military cups and discs.....   | ..do.....                        | (D)      | (D)                      |          |                          |
| 335127                                       | Pipe and tube.....  | ..do.....                        | -        | -                        |          |                          |
|  | Bearings:   |                                  |          |                          |          |                          |
| 356218                                       | Ball.....   | ..do.....                        | (D)      | (D)                      | (X)      | (NA)                     |
| 356228                                       | Roller.....   | ..do.....                        | (D)      | (D)                      | (X)      | (NA)                     |
| 970099                                       | All other materials and components, parts, containers, and supplies consumed.....                         | ..do.....                        | (X)      | 76,036                   | -        | 49,075                   |
| 976000                                       | Materials, parts, containers and supplies, n.s.k.....   | ..do.....                        | (X)      | 1,283                    | -        | 192                      |

See footnotes at end of table.



TABLE 7A. Materials by Kind: 1963 and 1958—Continued

| Code   | Material   | Unit of measure             | 1963     |                          | 1958 <sup>3</sup> |                          |
|--|--|-----------------------------|----------|--------------------------|-------------------|--------------------------|
|  |  |                             | Quantity | Delivered cost (\$1,000) | Quantity          | Delivered cost (\$1,000) |
| INDUSTRY 1911 AND 1999.—GUNS, HOWITZERS, AND MORTARS, AND ORDNANCE AND ACCESSORIES, N.E.C. |  |                             |          |                          |                   |                          |
|  | Materials, parts, containers and supplies, total.....  |                             | (X)      | 102,977                  | (X)               | 924,251                  |
|  | Mill shapes and forms (except castings):   |                             |          |                          |                   |                          |
|  | Carbon steel:  |                             |          |                          |                   |                          |
| 331011   | Bars and bar shapes.....   | Short tons.....             | 2,643    | 489                      | 45,293            | 7,209                    |
| 331012   | Sheet and strip.....   | ...do.....                  | 16,302   | 2,200                    | 3,299             | 686                      |
| 331013   | Plates.....  | ...do.....                  | 6,552    | 1,375                    | 12,078            | 2,272                    |
| 331015   | Structural shapes.....   | ...do.....                  |          |                          | 485               | 103                      |
| 331017   | Wire and wire products.....  | ...do.....                  |          |                          | 333               | 103                      |
| 331019   | All other carbon steel mill shapes and forms.....  | ...do.....                  |          |                          | 3,257             | 1,054                    |
|  | Alloy steel (except stainless):  |                             |          |                          |                   |                          |
| 331021   | Bars and bar shapes.....   | ...do.....                  | 975      | 1,289                    | 5,209             | 1,861                    |
| 331029   | All other alloy steel mill shapes and forms.....   | ...do.....                  |          |                          | 14,946            | 8,045                    |
| 331031   | Stainless steel.....   | ...do.....                  |          |                          | 1,934             | 4,856                    |
|  | Copper and copper-base alloy:  |                             |          |                          |                   |                          |
| 335728   | Bare wire for electrical conduction.....   | 1,000 lbs.....              | (D)      | (D)                      | 35                | 31                       |
| 335790   | Insulated wire and cable, copper content only.....   | 1,000 lbs. (copper content) | (D)      | (D)                      | 2,428             | 1,813                    |
| 335102   | Rod, bar, and mechanical wire including extruded and/or drawn shapes.....                          | 1,000 lbs.....              | (D)      | (D)                      | 4,355             | 2,276                    |
| 335123   | Plate sheet, and strip (including military cups and discs).....                                    | ...do.....                  | (D)      | (D)                      |                   |                          |
| 335127   | Pipe and tube.....   | ...do.....                  | -        | -                        |                   |                          |
|  | Aluminum and aluminum-base alloy:  |                             |          |                          |                   |                          |
| 335202   | Sheet, plate and foil.....   | 1,000 lbs.....              | 1,333    | 863                      | 10,313            | 5,418                    |
| 335205   | Extruded shapes including extruded rod, bar, pipe, tube, etc....                                   | ...do.....                  | 1,940    | 1,087                    | 5,920             | 4,273                    |
| 335209   | All other aluminum mill shapes and forms (wire, rolled rod, bar, powder, welded tubing, etc.)..... | ...do.....                  |          |                          |                   |                          |
| 999811   | Iron and steel purchased scrap.....  | Short tons.....             | -        | -                        | 1,411             | 58                       |
|  | Castings (rough and semifinished): <sup>1</sup>  |                             |          |                          |                   |                          |
| 332011   | Iron (gray and malleable).....   | Short tons.....             | (D)      | (D)                      | 6,467             | 1,440                    |
| 332300   | Steel.....   | ...do.....                  | (D)      | (D)                      | 4,437             | 3,255                    |
| 336100   | Aluminum and aluminum-base alloy.....  | 1,000 lbs.....              | 1,063    | 636                      | 2,646             | 2,140                    |
| 336200   | Copper and copper-base alloy.....  | ...do.....                  | (D)      | (D)                      | 63                | 39                       |
|  | Forgings: <sup>1</sup>   |                             |          |                          |                   |                          |
| 339100   | Iron and steel forgings.....   | Short tons.....             | 654      | 1,249                    | 6,025             | 3,735                    |
| 339200   | Aluminum and aluminum-base alloy forgings.....   | 1,000 lbs.....              | (D)      | (D)                      | -                 | -                        |
| 351901   | Gasoline and other carburetor engines <sup>1</sup> .....   |                             | -        | -                        | (NA)              | 5,170                    |
|  | Fractional horsepower electric motor and generators (under 1 hp.): <sup>1</sup>                    |                             |          |                          |                   |                          |
| 362110   | Timing motors, synchronous and subsynchronous.....   | Thousands.....              | -        | -                        | 52                | 2,525                    |
| 362115   | Other fractional horsepower electric motors and generators excluding timing motors.....            | ...do.....                  | (D)      | (D)                      | 26                | 1,964                    |
|  | Bearings:  |                             |          |                          |                   |                          |
| 356218   | Ball.....  |                             | (X)      | (D)                      | (X)               | 1,960                    |
| 356228   | Roller.....  |                             | (X)      | (D)                      | (X)               |                          |
| 335604   | Magnesium and magnesium-base alloys, except powder.....  | Short tons.....             | -        | -                        | 1,049             | 1,136                    |
| 970099   | All other materials and components, parts, containers and supplies consumed.....                   |                             | (X)      | 92,131                   | (X)               | 840,717                  |
| 976000   | Materials, parts and supplies, n.s.k.....  |                             | (X)      | 1,658                    | (X)               | 20,112                   |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified. n.s.k. Not specified by kind.

<sup>1</sup> Does not include materials produced and consumed at the same establishment.

<sup>2</sup> Represents (a) total cost of materials for small establishments reporting on "short forms" where separate figures for individual materials consumed were not requested and (b) total cost of materials reported for those establishments which failed to report costs of individual materials on "standard forms."

<sup>3</sup> Includes data for the following industries: 1911, 1929, 1931, 1951, and 1999.

TABLE 7B. Fuels and Electric Energy Consumed and Horsepower Rating of Power Equipment: 1962

| Item   | Ordnance and accessories<br>(SIC Major Group 19) |
|--|--|
| Total cost of purchased fuels and electric energy.....   | \$1,000.. 25,939                                 |
| Total cost of purchased fuels.....   | do... 10,257                                     |
| Bituminous coal, lignite, and anthracite:  |  |
| Quantity.....  | 1,000 short tons.. 298                           |
| Cost.....  | \$1,000.. 2,179                                  |
| Coke and breeze:   |  |
| Quantity.....  | 1,000 short tons.. -                             |
| Cost.....  | \$1,000.. -                                      |
| Fuel oil (distillate and residual):  |  |
| Quantity.....  | 1,000 barrels of 42 gallons.. 794                |
| Cost.....  | \$1,000.. 2,294                                  |
| Gas (natural, manufactured, still, blast furnace,<br>and coke oven):   |  |
| Quantity.....  | million cu.ft.. 9,044                            |
| Cost.....  | \$1,000.. 4,048                                  |
| Other fuels.....   | do... 1,736                                      |
| Electric energy:   |  |
| Purchased:   |  |
| Quantity.....  | million kw.-hrs.. 1,480                          |
| Cost.....  | \$1,000.. 15,682                                 |
| Generated less sold.....   | million kw.-hrs.. 178                            |
| Aggregate horsepower of prime movers and electric motors<br>driven by purchased energy (December 31), total..... | 1,000 hp.. 1,117                                 |
| Prime movers, total.....   | do... 235  |
| Driving generators.....  | do... 155  |
| Not driving generators.....  | do... 80   |
| Electric motors, total.....  | do... 1,013                                      |
| Driven by purchased energy.....  | do... 882  |
| Driven by energy generated at establishment.....   | do... 131  |
| Aggregate horsepower per 100 production workers.....   | 995  |

Note: Detail may not add to totals because of independent rounding. Figures for fuels and electric energy for 1962 and horsepower of power equipment as of December 31, 1962 represent estimates derived from a representative sample of manufacturing establishments. These estimates, therefore, may differ from the results that would have been obtained from a complete canvass of all manufacturing establishments. The standard errors associated with these estimates are published in the reports "Fuels and Electric Energy Consumed in Manufacturing Industries in 1962," MC63(1)-7, and "Power Equipment in Manufacturing Industries, as of December 31, 1962," MC63(1)-6.

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable.



**TABLE 8. General Statistics for Establishments, by Industry Specialization and Primary Product Class Specialization: 1963**

This table presents selected statistics for establishments according to their degree of specialization in products primary to their industry. The measures of plant specialization shown are (1) industry specialization—the ratio of primary product shipments to total product shipments, primary plus secondary, for the establishments; and (2) product class specialization—the ratio of the largest primary product class shipments to total product shipments, primary plus secondary, for

the establishment. See Introduction for method of computing these ratios. Statistics for establishments with specialization ratios of less than 75 percent are included in total lines but are not shown as a separate class. In addition, data may not be shown for some industries, product classes, or specialization ratios for various reasons, e.g., to avoid disclosure of individual company data.

| Industry or product class code | Industry or product class by percent of specialization  | Establishments (number) | All employees  |                   | Production workers |                   |                 | Value added by manufacture, adjusted (\$1,000) | Cost of materials (\$1,000) | Value of shipments (\$1,000) | Capital expenditures, new (\$1,000) |
|--------------------------------|---|-------------------------|----------------|-------------------|--------------------|-------------------|-----------------|--|-----------------------------|------------------------------|-------------------------------------|
|                                |   |                         | Total (number) | Payroll (\$1,000) | Total (number)     | Man-hours (1,000) | Wages (\$1,000) |  |                             |                              |                                     |
| 1925-                          | COMPLETE GUIDED MISSILES  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 31                      | 148,908        | 1,325,803         | 54,527             | 110,358           | 395,184         | <sup>1</sup> 1,924,812                         | 1,129,051                   | <sup>2</sup> 3,053,863       | 48,849                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 20                      | 94,826         | 876,172           | 31,878             | 65,038            | 236,982         | 1,287,032                                      | 848,958                     | 2,135,990                    | 36,985                              |
| 19253                          | Research and development on guided missiles (complete) (primary product class of estab.)..... | 12                      | 92,260         | 853,227           | 26,464             | 53,521            | 202,463         | 1,176,093                                      | 733,035                     | 1,909,128                    | 29,686                              |
| 1929-                          | AMMUNITION, N.E.C.  |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 44                      | 32,578         | 202,208           | 25,059             | 48,966            | 137,662         | 285,774  | 210,170                     | 503,001                      | 7,619                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 20                      | 15,407         | 87,576            | 12,777             | 25,133            | 69,980          | 121,645  | 59,972                      | 186,170                      | 1,734                               |
| 19291                          | Ammunition over 30 mm.(or 1.18 inches and over) n.e.c. (primary product class of estab.)..... | 15                      | 7,132          | 41,660            | 5,337              | 10,551            | 27,346          | 60,439   | 59,717                      | 122,136                      | 807                                 |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization....  | 5                       | 1,287          | 6,529             | 1,105              | 2,176             | 5,698           | 9,296  | 10,466                      | 20,358                       | 120                                 |
| 19293                          | Ammunition, n.e.c. (primary product class of estab.).....                                     | 12                      | 14,810         | 105,269           | 10,894             | 20,712            | 66,411          | 157,925  | 125,031                     | 287,127                      | 3,482                               |
| 1951-                          | SMALL ARMS, 30 MM.AND UNDER   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 52                      | 9,995          | 57,347            | 7,497              | 15,085            | 39,288          | 88,302   | 42,965                      | 133,042                      | 5,123                               |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 46                      | 8,694          | 51,516            | 6,627              | 13,294            | 35,963          | 80,954   | 35,857                      | 118,421                      | 5,027                               |
| 1911- and 1999-                | GUNS, HOWITZERS, AND MORTARS, AND ORDNANCE AND ACCESSORIES, N.E.C.                            |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | Entire industry.....  | 60                      | 24,988         | 176,169           | 15,149             | 30,701            | 93,697          | 235,211  | 115,363                     | 350,975                      | 12,269                              |
|                                | Establishments with--   |                         |                |                   |                    |                   |                 |  |                             |                              |                                     |
|                                | 90% or more specialization..  | 33                      | 4,860          | 32,905            | 2,773              | 6,014             | 16,193          | 37,793   | 40,175                      | 79,438                       | 6,019                               |
|                                | 75-89% specialization.....  | 5                       | 483            | 2,911             | 413                | 806               | 2,275           | 4,411  | 3,980                       | 7,927                        | (D)                                 |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>See footnote 2, table 1.

<sup>2</sup>Represents value of work done.

TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963

| Metalworking operations  | Number of establishments |   |         |            | Employment in the specified operation |   |         |            |
|--|--------------------------|---|---------|------------|---------------------------------------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |            | Total                                 | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more |                                       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRY 1925.—COMPLETE GUIDED MISSILES  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 1                        | -   | 1       | -          | (D)                                   | -   | (D)     | -          |
| Nonferrous foundry (except die casting).....   | 3                        | 1   | 2       | -          | 21                                    | (D)                                       | (D)     | -          |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 4                        | 2   | 2       | -          | (D)                                   | (D)                                       | (D)     | -          |
| Electroplating and other plating.....  | 17                       | 5   | 7       | 5          | 273                                   | 12  | 86      | 175        |
| Galvanizing and other hot dip coating.....   | 6                        | 3   | 1       | 2          | 176                                   | 6   | (D)     | (D)        |
| Heat treating of metals.....   | 12                       | 4   | 5       | 3          | 146                                   | 7   | 50      | 89         |
| Automatic screw machine department.....  | 4                        | -   | 4       | -          | 37                                    | -   | 37      | -          |
| Machine shop.....  | 21                       | 1   | 6       | 14         | 3,341                                 | (D)                                       | (D)     | 3,262      |
| Tool and die shop.....   | 16                       | 2   | 2       | 12         | 3,601                                 | (D)                                       | (D)     | 3,574      |
| Foundry pattern shop.....  | 4                        | 1   | 1       | 2          | 73                                    | (D)                                       | (D)     | (D)        |
| Plate or structural fabrication.....   | 9                        | 1   | 3       | 5          | 2,311                                 | (D)                                       | (D)     | 2,276      |
| Stamping, blanking and forming of metals.....  | 13                       | 1   | 4       | 8          | 535                                   | (D)                                       | (D)     | 491        |
| Painting, lacquering and enameling on metals.....  | 17                       | 6   | 2       | 9          | 399                                   | (D)                                       | (D)     | 380        |
| Plastics molding.....  | 10                       | 3   | -       | 7          | 807                                   | 8   | -       | 799        |
| Assembly of product.....   | 17                       | 2   | 1       | 14         | 11,045                                | (D)                                       | (D)     | 11,030     |
| Shipping department, including packing and crating..                                     | 17                       | 2   | 6       | 9          | 692                                   | (D)                                       | (D)     | 635        |
| INDUSTRY 1929.—AMMUNITION, N.E.C.  |                          |   |         |            |                                       |   |         |            |
| Ferrous foundry.....   | 2                        | -   | 2       | -          | (D)                                   | -   | (D)     | -          |
| Nonferrous die casting.....  | 1                        | -   | -       | 1          | (D)                                   | -   | -       | (D)        |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 6                        | -   | 3       | 3          | 171                                   | -   | 47      | 124        |
| Electroplating and other plating.....  | 9                        | 3   | 4       | 2          | 134                                   | 7   | (D)     | (D)        |
| Heat treating of metals.....   | 12                       | 2   | 9       | 1          | 151                                   | (D)                                       | (D)     | (D)        |
| Automatic screw machine department.....  | 5                        | -   | 2       | 5          | 282                                   | -   | -       | 282        |
| Machine shop.....  | 23                       | 4   | 2       | 17         | 1,730                                 | (D)                                       | (D)     | 1,697      |
| Tool and die shop.....   | 15                       | 2   | 4       | 9          | 593                                   | (D)                                       | (D)     | 549        |
| Foundry pattern shop.....  | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Plate or structural fabrication.....   | 6                        | 2   | 2       | 2          | 210                                   | (D)                                       | (D)     | (D)        |
| Stamping, blanking and forming of metals.....  | 14                       | 5   | 2       | 7          | 753                                   | (D)                                       | (D)     | 726        |
| Painting, lacquering and enameling on metals.....  | 18                       | 7   | 7       | 4          | 221                                   | 16  | 58      | 147        |
| INDUSTRY 1931.—TANKS AND TANK COMPONENTS   |                          |   |         |            |                                       |   |         |            |
| Electroplating and other plating.....  | 2                        | -   | 2       | -          | (D)                                   | -   | (D)     | -          |
| Galvanizing and other hot dip coating.....   | 1                        | -   | 1       | -          | (D)                                   | -   | (D)     | -          |
| Heat treating of metals.....   | 5                        | 2   | 3       | -          | 48                                    | (D)                                       | (D)     | -          |
| Machine shop.....  | 18                       | 3   | 2       | 13         | 2,053                                 | (D)                                       | (D)     | 2,026      |
| Tool and die shop.....   | 8                        | -   | 5       | 3          | 277                                   | -   | 41      | 236        |
| Plate or structural fabrication.....   | 6                        | -   | -       | 6          | 1,049                                 | -   | -       | 1,049      |
| Stamping, blanking and forming of metals.....  | 3                        | -   | 1       | 2          | (D)                                   | -   | (D)     | (D)        |
| Painting, lacquering and enameling on metals.....  | 13                       | 7   | 3       | 3          | 236                                   | 14  | 23      | 199        |
| INDUSTRY 1951.—SMALL ARMS, 30 MM. AND UNDER  |                          |   |         |            |                                       |   |         |            |
| Nonferrous die casting.....  | 2                        | 2   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.)..... | 4                        | 3   | 1       | -          | 10                                    | (D)                                       | (D)     | -          |
| Electroplating and other plating.....  | 5                        | 2   | 2       | 1          | 62                                    | (D)                                       | (D)     | (D)        |
| Galvanizing and other hot dip coating.....   | 2                        | 1   | 1       | -          | (D)                                   | (D)                                       | (D)     | -          |
| Heat treating of metals.....   | 12                       | 5   | 6       | 1          | 118                                   | 12  | (D)     | (D)        |
| Automatic screw machine department.....  | 10                       | 5   | 2       | 3          | 148                                   | (D)                                       | (D)     | 127        |
| Machine shop.....  | 22                       | 6   | 9       | 7          | 873                                   | 10  | 83      | 780        |
| Tool and die shop.....   | 16                       | 6   | 5       | 5          | 326                                   | 7   | 47      | 272        |
| Plate or structural fabrication.....   | 1                        | -   | -       | 1          | (D)                                   | -   | -       | (D)        |
| Stamping, blanking and forming of metals.....  | 14                       | 7   | 4       | 3          | 248                                   | 10  | 29      | 209        |
| Painting, lacquering and enameling on metals.....  | 8                        | 6   | 2       | -          | 21                                    | (D)                                       | (D)     | -          |
| INDUSTRY 1961.—SMALL ARMS AMMUNITION   |                          |   |         |            |                                       |   |         |            |
| Electroplating and other plating.....  | 3                        | 2   | 1       | -          | 13                                    | (D)                                       | (D)     | -          |
| Heat treating of metals.....   | 4                        | 1   | 2       | 1          | 54                                    | (D)                                       | (D)     | (D)        |
| Automatic screw machine department.....  | 3                        | -   | 1       | 2          | 53                                    | -   | (D)     | (D)        |
| Machine shop.....  | 9                        | 2   | 2       | 5          | 229                                   | (D)                                       | (D)     | 205        |
| Tool and die shop.....   | 7                        | 2   | 2       | 3          | 144                                   | (D)                                       | (D)     | 126        |
| Foundry pattern shop.....  | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |
| Stamping, blanking and forming of metals.....  | 10                       | 2   | 3       | 5          | 578                                   | (D)                                       | (D)     | 538        |
| Painting, lacquering and enameling on metals.....  | 1                        | 1   | -       | -          | (D)                                   | (D)                                       | -       | -          |

See footnotes at end of table.



TABLE 9. Establishments and Production Workers for Selected Metalworking Operations: 1963—Continued

| Metalworking operations  | Number of establishments |   |         | Employment in the specified operation |       |   |         |            |
|--|--------------------------|---|---------|---------------------------------------|-------|---|---------|------------|
|  | Total                    | Number of production workers <sup>1</sup> |         |                                       | Total | Number of production workers <sup>1</sup> |         |            |
|  |                          | 1 to 4                                    | 5 to 19 | 20 or more                            |       | 1 to 4                                    | 5 to 19 | 20 or more |
| INDUSTRIES 1911 AND 1999.—GUNS, HOWITZERS AND MORTARS AND ORDNANCE AND ACCESSORIES, N.E.C. |                          |   |         |                                       |       |   |         |            |
| Nonferrous foundry (except die casting).....   | 1                        | 1   | -       | -                                     | (D)   | (D)                                       | -       | -          |
| Nonferrous die casting.....  | 2                        | 1   | 1       | -                                     | (D)   | (D)                                       | (D)     | -          |
| Forging—presses, hammers, or upsetters (excluding manufacture of nuts, bolts, etc.).....   | 3                        | 2   | -       | 1                                     | (D)   | (D)                                       | -       | 20         |
| Electroplating and other plating.....  | 9                        | 4   | 5       | -                                     | 38    | 6   | 32      | -          |
| Galvanizing and other hot dip coating.....   | 2                        | 1   | 1       | -                                     | (D)   | (D)                                       | (D)     | -          |
| Heat treating of metals.....   | 11                       | 6   | 4       | 1                                     | 59    | 12  | (D)     | (D)        |
| Automatic screw machine department.....  | 5                        | 3   | 1       | 1                                     | (D)   | (D)                                       | (D)     | (D)        |
| Machine shop.....  | 28                       | 3   | 9       | 16                                    | 2,040 | 6   | 84      | 1,950      |
| Tool and die shop.....   | 14                       | 4   | 6       | 4                                     | 205   | 8   | 49      | 148        |
| Foundry pattern shop.....  | 1                        | 1   | -       | -                                     | (D)   | (D)                                       | -       | -          |
| Plate or structural fabrication.....   | 9                        | 4   | 1       | 4                                     | 428   | (D)                                       | (D)     | 405        |
| Stamping, blanking and forming of metals.....  | 16                       | 8   | 4       | 4                                     | 441   | 18  | 40      | 383        |
| Painting, lacquering and enameling on metals.....  | 17                       | 11  | 5       | 1                                     | 106   | 20  | (D)     | (D)        |

Note: Very small establishments were not requested to report their metalworking operations and in some instances a few larger establishments failed to report. The significance of this undercoverage is shown in terms of production worker employment on the last line of the table below.

| Item  | Industry |       |        |        |        |               |
|---|----------|-------|--------|--------|--------|---------------|
|   | 1925     | 1929  | 1931   | 1951   | 1961   | 1911 and 1999 |
| Total number of establishments in the industry.....   | 31       | 44    | 26     | 52     | 31     | 60            |
| Number of establishments which reported one or more of the specified operations.....                          | 23       | 28    | 18     | 25     | 10     | 30            |
| Percent of industry production workers in these establishments.....   | 90-95    | 75-80 | 95-100 | 95-100 | 95-100 | 50-55         |
| Number of establishments which reported "none" of the operations apply.....                                   | 7        | 4     | -      | -      | 2      | 5             |
| Percent of industry production workers in these establishments.....   | 1-5      | 0-5   | -      | 0-5    | 0-5    | 0-5           |
| Percent of industry production workers in establishments which completed metalworking operations inquiry..... | 95-100   | 75-80 | 95-100 | 95-100 | 95-100 | 50-55         |

Standard Notes: - Represents zero. (D) Withheld to avoid disclosing figures for individual companies. (NA) Not available. (X) Not applicable. n.e.c. Not elsewhere classified.

<sup>1</sup>The size groups are based on the number of employees engaged in each specific operation. They are not based on total employment in the establishment.





# Manufacturing Activity In Government Establishments

Special Report

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## MANUFACTURING ACTIVITY IN GOVERNMENT ESTABLISHMENTS

This special report presents data of manufacturing activities for selected government establishments within the United States. These data are not included in other 1963 Census of Manufactures reports, which cover privately operated establishments only. Manufacturing establishments owned by the Federal Government and operated by private companies either for the government or for their own account are included with privately operated establishments. Three types of establishments are covered in this report: (1) Manufacturing facilities owned and operated by the Department of Defense; (2) prison industries (Federal, District of Columbia, and State); and (3) manufacturing facilities owned and operated by other U.S. Government agencies. The data were prepared with the cooperation of the Department of Defense, the Department of Justice, the Department of Interior, and the District of Columbia and State prison systems.

### MANUFACTURING FACILITIES OWNED BY THE U.S. GOVERNMENT AND OPERATED BY THE DEPARTMENT OF DEFENSE

Data are shown in tables 1 to 3 for manufacturing facilities owned by the U.S. Government and operated by the Department of Defense. Although these establishments may also be engaged in nonmanufacturing activities at the same location, the statistics represent only their activities relating to manufacturing. All manufacturing installations which produce goods or perform manufacturing services, such as industrial research and development, are covered in this report. Data resulting from the conversion and modification of ships and aircraft by the Army and Navy, but not the Air Force, are also included. Manufacturing activities of the U.S. Air Force are not included because its accounting system is different from that used in the Industrial Fund of the Department of Defense and thus the Air Force concluded it could not provide data comparable to the other respondents (Army and Navy). Also, the report does not include activities of Defense Department installations which serve primarily or exclusively their own installations (e.g., bakeries and some machine shops). All printing and publishing activities are excluded because almost every large government installation engages in these activities to some degree, thus making coverage difficult.

There are approximately twice as many plants reporting in this survey as in the comparable 1958 survey. This increase is primarily because of the additions of research and development activities and manufacturing divisions of supply depots. As a result of this increase, there are two types of tables. The first type shows 1963 data for all Defense Department plants within the scope of this survey. The second shows 1963 data for only those plants that reported in 1958 and their comparable 1958 data.

In all tables, statistics are shown for employment, man-hours, payrolls, costs, and billings. Military personnel are not included in any of the employment, payroll, or man-hours data. The data represent only nonmilitary (wage board and graded) employees engaged in manufacturing activities at the plant. The cost and billings data for 1963 are based on the Industrial Fund accounting system of the Department of Defense. The Industrial Fund concepts of "Total Billings" and "Total Earned Revenue," which were used for the 1963 data, differ because the latter is the result of increasing or decreasing "Total Billings" to reflect the change in unbilled costs of work in progress.

The 1963 value added by manufacture data, shown in table 1, represent total earned revenue (including the value of manufacturing services) less the cost of materials, parts, and supplies actually consumed or put into production during the year.



## PRISON INDUSTRIES (FEDERAL, DISTRICT OF COLUMBIA, AND STATE)

During 1963, manufactured products valued at \$112,702 thousand were produced in Federal, District of Columbia, and State prisons in the United States. The comparable 1958 figure of \$97,307 thousand also includes the value of products produced for use within the institutions as well as for products transferred to other governmental agencies or for sale in the open market. These data, shown in detail in table 4, cover the activities of the Federal Prison Industries, Inc., as well as those of the prison industries of each State and the District of Columbia.

## MANUFACTURING FACILITIES OWNED AND OPERATED BY OTHER U.S. GOVERNMENT AGENCIES

Manufacturing operations of the Bureau of Mines, U.S. Department of Interior, are not included in the tables of this report. That agency is the primary producer of refined helium in the United States. During 1963, it operated five plants from which 627 million cubic feet of helium valued at \$21,945 thousand were shipped. The average number of employees totaled 639, of which 479 were production and related workers, and the total wages and salaries paid amounted to \$4,195 thousand. Comparable figures for other years as well as additional detail for production, shipments, consumption, prices, reserves, and activities relating to conservation and technology appear in the Minerals Yearbook, a publication of the Bureau of Mines.

Excluded from this report are the manufacturing activities of the Government Printing Office, the National Aeronautics and Space Administration, and the Tennessee Valley Authority. The operations of these agencies are covered in their annual reports. Also excluded are the minor manufacturing activities of such other government agencies as the Post Office Department and the General Services Administration.

TABLE 1. Department of Defense

| Item                                     | All employees<br>(wage board and graded) |                      | Production workers<br>(wage board) |                      |                    | Costs<br>(\$1,000)                        |  |
|--|--|----------------------|------------------------------------|----------------------|--------------------|---|--|
|  | Number                                   | Payroll<br>(\$1,000) | Number                             | Man-hours<br>(1,000) | Wages<br>(\$1,000) | Materials,<br>supplies, and<br>parts used | Contractual<br>services and<br>other costs |
| GEOGRAPHIC AREA                          |  |                      |                                    |                      |                    |   |  |
| United States, total.....                | 230,646                                  | 1,691,651            | 155,300                            | 1,284,054            | 1,096,785          | 587,976                                   | 315,017                                    |
| New England division.....                | 26,594                                   | 184,642              | 20,152                             | 36,729               | 137,484            | 65,286                                    | 38,956                                     |
| New Hampshire.....                       | 8,825                                    | 61,396               | 6,950                              | 12,628               | 48,418             | 21,078                                    | 5,519                                      |
| Massachusetts.....                       | 13,743                                   | 94,669               | 10,472                             | 18,979               | 71,082             | 34,816                                    | 26,076                                     |
| Rhode Island.....                        | 3,193                                    | 21,921               | 2,504                              | 4,707                | 16,405             | 5,575                                     | 7,361                                      |
| Connecticut.....                         | 833                                      | 6,656                | 226                                | 415                  | 1,579              | 3,817                                     | -  |
| Middle Atlantic division.....            | 49,190                                   | 353,850              | 32,068                             | 57,851               | 219,217            | 124,306                                   | 58,689                                     |
| New York.....                            | 16,177                                   | 115,724              | 12,345                             | 22,196               | 90,153             | 49,674                                    | 7,200                                      |
| New Jersey.....                          | 7,140                                    | 56,740               | 2,874                              | 5,192                | 18,029             | 16,931                                    | 19,409                                     |
| Pennsylvania.....                        | 25,873                                   | 181,386              | 16,849                             | 30,463               | 111,035            | 57,701                                    | 32,080                                     |
| East North Central division.....         | 13,633                                   | 99,994               | 9,189                              | 17,307               | 67,532             | 51,137                                    | 10,661                                     |
| Indiana.....                             | 5,534                                    | 41,556               | 3,500                              | 6,824                | 26,417             | 15,005                                    | 3,814                                      |
| Illinois.....                            | 8,099                                    | 58,438               | 5,689                              | 10,483               | 41,115             | 36,132                                    | 6,847                                      |
| West North Central division.....         | 27                                       | 171                  | 15                                 | 26                   | 79                 | 5   | 32   |
| Iowa.....                                | 27                                       | 171                  | 15                                 | 26                   | 79                 | 5   | 32   |
| South Atlantic division.....             | 59,744                                   | 439,216              | 37,958                             | 69,196               | 263,612            | 133,082                                   | 104,748                                    |
| Maryland.....                            | 18,726                                   | 142,542              | 7,408                              | 13,156               | 49,544             | 52,530                                    | 46,788                                     |
| District of Columbia.....                | 4,799                                    | 40,991               | 1,218                              | 2,144                | 7,893              | 10,775                                    | 30,026                                     |
| Virginia.....                            | 19,113                                   | 137,586              | 15,307                             | 28,067               | 109,601            | 39,476                                    | 15,075                                     |
| North Carolina.....                      | 1,734                                    | 12,068               | 1,538                              | 2,837                | 10,568             | 2,208                                     | 2,278                                      |
| South Carolina.....                      | 7,167                                    | 49,144               | 5,569                              | 10,113               | 38,661             | 14,969                                    | 4,009                                      |
| Georgia.....                             | 939                                      | 5,558                | 687                                | 1,274                | 3,876              | 3,507                                     | 301  |
| Florida.....                             | 7,266                                    | 51,327               | 6,231                              | 11,600               | 43,469             | 9,617                                     | 6,271                                      |
| East South Central division.....         | 10,999                                   | 92,745               | 3,597                              | 6,503                | 26,513             | 19,818                                    | 16,548                                     |
| Kentucky.....                            | 2,624                                    | 19,772               | 1,895                              | 3,436                | 14,837             | 9,962                                     | 1,782                                      |
| Alabama.....                             | 8,375                                    | 72,973               | 1,702                              | 3,067                | 11,676             | 9,856                                     | 14,766                                     |
| West South Central division.....         | 3,816                                    | 21,601               | 2,983                              | 5,297                | 16,082             | 13,196                                    | 3,158                                      |
| Arkansas.....                            | 1,333                                    | 8,003                | 800                                | 1,352                | 4,258              | 5,892                                     | 2,170                                      |
| Oklahoma.....                            | 1,008                                    | 5,478                | 783                                | 1,438                | 4,122              | 494                                       | 988  |
| Texas.....                               | 1,475                                    | 8,120                | 1,400                              | 2,507                | 7,702              | 6,810                                     | -  |
| Mountain division.....                   | 3,877                                    | 26,660               | 2,120                              | 3,851                | 14,258             | 20,463                                    | 20,029                                     |
| Colorado.....                            | 849                                      | 5,971                | 583                                | 1,124                | 4,045              | 14,544                                    | 7,097                                      |
| New Mexico.....                          | 442                                      | 3,990                | 24                                 | 40                   | 158                | 658                                       | 7,678                                      |
| Utah.....                                | 2,586                                    | 16,699               | 1,513                              | 2,687                | 10,055             | 5,261                                     | 5,254                                      |
| Pacific division.....                    | 62,766                                   | 472,772              | 47,218                             | 87,294               | 352,008            | 160,683                                   | 62,196                                     |
| Washington.....                          | 10,055                                   | 72,879               | 7,887                              | 14,449               | 55,401             | 34,175                                    | 6,121                                      |
| California.....                          | 47,886                                   | 363,037              | 35,440                             | 65,799               | 267,543            | 113,737                                   | 53,883                                     |
| Hawaii.....                              | 4,825                                    | 36,856               | 3,891                              | 7,046                | 29,064             | 12,771                                    | 2,192                                      |
| SIC CODES AND MAJOR ACTIVITY             |  |                      |                                    |                      |                    |   |  |
| All manufacturing facilities, total..... | 230,646                                  | 1,691,651            | 155,300                            | 284,054              | 1,096,785          | 587,976                                   | 315,017                                    |
| 23 Apparel and related products.....     | 1,809                                    | 8,305                | 1,689                              | 2,785                | 7,520              | 1,404                                     | 723  |
| 281 Basic chemicals.....                 | 5,836                                    | 40,441               | 2,365                              | 4,038                | 14,440             | 21,557                                    | 19,968                                     |
| 289 Miscellaneous chemical products..... | 2,704                                    | 18,531               | 1,796                              | 3,327                | 12,158             | 27,371                                    | 3,270                                      |
| 353 Construction and like equipment..... | 300                                      | 1,867                | 255                                | 451                  | 1,607              | 154                                       | 200  |
| 366 Communication equipment.....         | 10,697                                   | 82,393               | 4,488                              | 9,706                | 28,016             | 31,191                                    | 27,787                                     |
| 372 Aircraft and parts.....              | 34,471                                   | 246,883              | 28,644                             | 53,226               | 202,616            | 46,420                                    | 45,822                                     |
| 373 Ship and boat building.....          | 94,687                                   | 691,574              | 76,294                             | 138,616              | 560,645            | 253,367                                   | 45,337                                     |
| 382 Mechanical measuring devices.....    | 27                                       | 171                  | 15                                 | 26                   | 79                 | 5   | 32   |
| 19 Ordnance and accessories.....         | 66,154                                   | 495,656              | 35,559                             | 64,592               | 243,587            | 174,545                                   | 121,342                                    |
| 192 Missiles and ammunition, n.e.c.....  | 36,657                                   | 282,829              | 17,478                             | 32,370               | 119,702            | 94,282                                    | 68,493                                     |
| -- Research and development.....         | 13,961                                   | 105,830              | 4,195                              | 7,287                | 26,117             | 31,962                                    | 50,536                                     |

Note: Includes manufacturing facilities, research and development activities, and manufacturing performed in supply depots. Not comparable to data shown in the 1958 Census publication "Manufacturing Activity in Government Establishments, MC58(S)-1."

- Represents zero.



Facilities: 1963

| Item                                     | Value of shipments or receipts for service by type of activity<br>(\$1,000) |                             |                          |                |                |                | Value added by manufacture<br>(\$1,000) |
|--|---|-----------------------------|--------------------------|----------------|----------------|----------------|---|
|  | Manufacture and assembly  | Construction and conversion | Research and development | Other receipts | Total billings | Total revenues |   |
| GEOGRAPHIC AREA                          |   |                             |                          |                |                |                |   |
| United States, total.....                | 433,140   | 597,321                     | 634,193                  | 877,151        | 2,541,805      | 2,641,227      | 2,053,251                               |
| New England division.....                | 68,665  | 128,927                     | 37,849                   | 49,088         | 284,529        | 292,564        | 227,278                                 |
| New Hampshire.....                       | 598   | 70,895                      | 1,012                    | 7,240          | 79,745         | 90,501         | 69,423                                  |
| Massachusetts.....                       | 67,039  | 39,775                      | 13,700                   | 40,372         | 160,886        | 155,450        | 120,634                                 |
| Rhode Island.....                        | 1,028   | 18,257                      | 11,568                   | 1,476          | 32,329         | 35,044         | 29,469                                  |
| Connecticut.....                         | -   | -                           | 11,569                   | -              | 11,569         | 11,569         | 7,752                                   |
| Middle Atlantic division.....            | 119,240   | 153,105                     | 144,178                  | 144,092        | 560,615        | 547,217        | 422,911                                 |
| New York.....                            | 27,411  | 90,410                      | 19,196                   | 41,367         | 178,384        | 179,753        | 130,079                                 |
| New Jersey.....                          | 33,720  | 605                         | 42,861                   | 26,432         | 103,618        | 93,150         | 76,219                                  |
| Pennsylvania.....                        | 58,109  | 62,090                      | 82,121                   | 76,293         | 278,613        | 274,314        | 216,613                                 |
| East North Central division.....         | 103,383   | 1,167                       | 11,442                   | 45,275         | 161,267        | 164,696        | 113,559                                 |
| Indiana.....                             | 30,749  | -                           | 8,129                    | 18,834         | 57,712         | 61,261         | 46,256                                  |
| Illinois.....                            | 72,634  | 1,167                       | 3,313                    | 26,441         | 103,555        | 103,435        | 67,303                                  |
| West North Central division.....         | 100   | -                           | -                        | 108            | 208            | 208            | 203                                     |
| Iowa.....                                | 100   | -                           | -                        | 108            | 208            | 208            | 203                                     |
| South Atlantic division.....             | 69,618  | 28,122                      | 261,648                  | 289,827        | 649,215        | 688,420        | 555,338                                 |
| Maryland.....                            | 51,418  | -                           | 151,237                  | 44,165         | 246,820        | 244,157        | 191,627                                 |
| District of Columbia.....                | -   | -                           | 80,628                   | 2,838          | 83,466         | 81,918         | 71,143                                  |
| Virginia.....                            | 6,804   | 12,832                      | 21,467                   | 121,455        | 162,558        | 195,255        | 155,779                                 |
| North Carolina.....                      | 435   | -                           | 384                      | 15,226         | 16,045         | 17,141         | 14,933                                  |
| South Carolina.....                      | 235   | 15,290                      | 1,971                    | 48,108         | 65,604         | 70,619         | 55,650                                  |
| Georgia.....                             | 7,184   | -                           | 285                      | 429            | 7,898          | 9,212          | 5,705                                   |
| Florida.....                             | 3,542   | -                           | 5,676                    | 57,606         | 66,824         | 70,118         | 60,501                                  |
| East South Central division.....         | 19,016  | -                           | 36,051                   | 82,616         | 137,683        | 129,616        | 109,798                                 |
| Kentucky.....                            | 19,016  | -                           | 600                      | 11,452         | 31,068         | 31,550         | 21,588                                  |
| Alabama.....                             | -   | -                           | 35,451                   | 71,164         | 106,615        | 98,066         | 88,210                                  |
| West South Central division.....         | 19,192  | 4,007                       | 68                       | 16,246         | 39,513         | 38,248         | 25,052                                  |
| Arkansas.....                            | 14,804  | -                           | 60                       | 2,759          | 17,623         | 16,358         | 10,466                                  |
| Oklahoma.....                            | 2,618   | -                           | 8                        | 4,334          | 6,960          | 6,960          | 6,466                                   |
| Texas.....                               | 1,770   | 4,007                       | -                        | 9,153          | 14,930         | 14,930         | 8,120                                   |
| Mountain division.....                   | 22,475  | -                           | 22,600                   | 23,316         | 68,391         | 67,386         | 46,923                                  |
| Colorado.....                            | 20,120  | -                           | -                        | 9,876          | 29,996         | 27,740         | 13,196                                  |
| New Mexico.....                          | -   | -                           | 12,326                   | -              | 12,326         | 12,326         | 11,668                                  |
| Utah.....                                | 2,355   | -                           | 10,274                   | 13,440         | 26,069         | 27,320         | 22,059                                  |
| Pacific division.....                    | 11,451  | 281,993                     | 120,357                  | 226,583        | 640,384        | 712,872        | 552,189                                 |
| Washington.....                          | 2,867   | 77,331                      | 2,526                    | 21,852         | 104,576        | 117,044        | 82,869                                  |
| California.....                          | 8,548   | 199,976                     | 117,831                  | 168,429        | 494,784        | 543,037        | 429,300                                 |
| Hawaii.....                              | 36  | 4,686                       | -                        | 36,302         | 41,024         | 52,791         | 40,020                                  |
| SIC CODES AND MAJOR ACTIVITY             |   |                             |                          |                |                |                |   |
| All manufacturing facilities, total      | 433,140   | 597,321                     | 634,193                  | 877,151        | 2,541,805      | 2,641,227      | 2,053,251                               |
| 23 Apparel and related products.....     | 10,908  | -                           | -                        | 109            | 11,017         | 10,624         | 9,220                                   |
| 281 Basic chemicals.....                 | 34,956  | -                           | 26,927                   | 21,042         | 82,925         | 80,835         | 59,278                                  |
| 289 Miscellaneous chemical products..... | 37,570  | -                           | 4,266                    | 6,408          | 48,244         | 49,831         | 22,460                                  |
| 353 Construction and like equipment..... | -   | -                           | -                        | 2,221          | 2,221          | 2,221          | 2,067                                   |
| 366 Communication equipment.....         | 40,587  | 605                         | 78,111                   | 34,070         | 153,373        | 142,905        | 111,714                                 |
| 372 Aircraft and parts.....              | 12,985  | 64,540                      | 62,948                   | 185,520        | 325,993        | 342,270        | 295,850                                 |
| 373 Ship and boat building.....          | 7,318   | 525,451                     | 18,019                   | 352,900        | 903,688        | 1,021,847      | 768,480                                 |
| 382 Mechanical measuring devices.....    | 100   | -                           | -                        | 108            | 208            | 208            | 203                                     |
| 19 Ordnance and accessories.....         | 288,716   | 6,725                       | 260,533                  | 264,555        | 820,529        | 798,043        | 623,498                                 |
| 192 Missiles and ammunition, n.e.c.....  | 94,145  | 4,007                       | 184,910                  | 164,136        | 447,198        | 447,063        | 352,781                                 |
| -- Research and development.....         | -   | -                           | 183,389                  | 10,218         | 193,607        | 192,443        | 160,481                                 |

TABLE 2. Department of Defense Facilities,

| Geographic area                  | 1963                                     |                      |                                    |                      |                    |   |  |
|----------------------------------|--|----------------------|------------------------------------|----------------------|--------------------|---|--|
|                                  | All employees<br>(wage board and graded) |                      | Production workers<br>(wage board) |                      |                    | Costs<br>(\$1,000)                        |  |
|                                  | Number                                   | Payroll<br>(\$1,000) | Number                             | Man-hours<br>(1,000) | Wages<br>(\$1,000) | Materials,<br>supplies, and<br>parts used | Contractual<br>services and<br>other costs |
| United States, total.....        | 149,334                                  | 1,089,220            | 105,037                            | 190,125              | 746,464            | 419,899                                   | 149,543                                    |
| New England division.....        | 22,568                                   | 156,065              | 17,422                             | 31,607               | 119,500            | 55,894                                    | 31,595                                     |
| New Hampshire.....               | 8,825                                    | 61,396               | 6,950                              | 12,628               | 48,418             | 21,078                                    | 5,519                                      |
| Massachusetts.....               | 13,743                                   | 94,669               | 10,472                             | 18,979               | 71,082             | 34,816                                    | 26,076                                     |
| Middle Atlantic division.....    | 40,427                                   | 296,052              | 27,583                             | 49,335               | 192,693            | 106,135                                   | 41,424                                     |
| New York.....                    | 14,744                                   | 108,884              | 11,689                             | 21,226               | 86,720             | 47,981                                    | 7,200                                      |
| New Jersey.....                  | 7,140                                    | 56,740               | 2,874                              | 5,192                | 18,029             | 16,931                                    | 19,409                                     |
| Pennsylvania.....                | 18,543                                   | 130,428              | 13,020                             | 22,917               | 87,944             | 41,223                                    | 14,815                                     |
| East North Central division..... | 10,388                                   | 73,413               | 7,181                              | 13,312               | 50,577             | 36,586                                    | 7,863                                      |
| Indiana.....                     | 2,589                                    | 16,842               | 1,747                              | 3,280                | 11,069             | 608                                       | 1,216                                      |
| Illinois.....                    | 7,799                                    | 56,571               | 5,434                              | 10,032               | 39,508             | 35,978                                    | 6,647                                      |
| South Atlantic division.....     | 26,670                                   | 189,911              | 19,007                             | 34,496               | 134,820            | 82,862                                    | 25,496                                     |
| Maryland.....                    | 6,658                                    | 46,998               | 3,068                              | 5,485                | 20,235             | 34,117                                    | 17,440                                     |
| District of Columbia.....        | -  | -                    | -                                  | -                    | -                  | -   | -  |
| Virginia.....                    | 11,906                                   | 88,211               | 9,683                              | 17,624               | 72,048             | 30,269                                    | 3,746                                      |
| South Carolina.....              | 7,167                                    | 49,144               | 5,569                              | 10,113               | 38,661             | 14,969                                    | 4,009                                      |
| Georgia.....                     | 939                                      | 5,558                | 687                                | 1,274                | 3,876              | 3,507                                     | 301  |
| Florida.....                     | -  | -                    | -                                  | -                    | -                  | -   | -  |
| East South Central division..... | 10,299                                   | 88,497               | 3,172                              | 5,767                | 23,923             | 19,223                                    | 15,848                                     |
| Kentucky.....                    | 1,924                                    | 15,524               | 1,470                              | 2,700                | 12,247             | 9,367                                     | 1,082                                      |
| Alabama.....                     | 8,375                                    | 72,973               | 1,702                              | 3,067                | 11,676             | 9,856                                     | 14,766                                     |
| West South Central division..... | 2,341                                    | 13,481               | 1,583                              | 2,790                | 8,380              | 6,386                                     | 3,158                                      |
| Arkansas.....                    | 1,333                                    | 8,003                | 800                                | 1,352                | 4,258              | 5,892                                     | 2,170                                      |
| Oklahoma.....                    | 1,008                                    | 5,478                | 783                                | 1,438                | 4,122              | 494                                       | 988  |
| Mountain division.....           | 549                                      | 3,971                | 293                                | 528                  | 2,105              | 8,919                                     | 3,628                                      |
| Colorado.....                    | 549                                      | 3,971                | 293                                | 528                  | 2,105              | 8,919                                     | 3,628                                      |
| Nevada.....                      | -  | -                    | -                                  | -                    | -                  | -   | -  |
| Pacific division.....            | 36,092                                   | 267,830              | 28,796                             | 52,290               | 214,466            | 103,894                                   | 20,531                                     |
| Washington.....                  | 10,055                                   | 72,879               | 7,887                              | 14,449               | 55,401             | 34,175                                    | 6,121                                      |
| California.....                  | 26,037                                   | 194,951              | 20,909                             | 37,841               | 159,065            | 69,719                                    | 14,410                                     |

Note: Research and development activities, and manufacturing performed in supply depots are excluded, making 1963 data comparable to 1958.

- Represents zero.

TABLE 3. Department of Defense Facilities,

| Major activity                           | 1963                                     |                      |                                    |                          |                    |  |   |   |  |                                  |
|--|--|----------------------|------------------------------------|--------------------------|--------------------|--|---|---|--|----------------------------------|
|  | All employees<br>(wage board and graded) |                      | Production workers<br>(wage board) |                          |                    | Costs<br>(\$1,000)                           |   | Value of shipments or<br>receipts for service<br>by type of activity<br>(\$1,000) |  |                                  |
|  | Number                                   | Payroll<br>(\$1,000) | Number                             | Man-<br>Hours<br>(1,000) | Wages<br>(\$1,000) | Materials,<br>supplies,<br>and parts<br>used | Contractual<br>services<br>and other<br>costs | Manufac-<br>ture and<br>assembly  | Construc-<br>tion and<br>con-<br>version | Research<br>and develop-<br>ment |
| All manufacturing facilities, total..... | 149,334                                  | 1,089,220            | 105,037                            | 190,125                  | 746,464            | 419,899                                      | 149,543                                       | 370,249   | 524,088                                  | 172,716                          |
| 23 Apparel and related products.....     | 1,809                                    | 8,305                | 1,689                              | 2,785                    | 7,520              | 1,404  | 723   | 10,908  | -  | -                                |
| 281 Basic chemicals.....                 | 5,836                                    | 40,441               | 2,365                              | 4,038                    | 14,440             | 21,557                                       | 19,968  | 34,956  | -  | 26,927                           |
| 289 Miscellaneous chemical products..... | 2,704                                    | 18,531               | 1,796                              | 3,327                    | 12,158             | 27,371                                       | 3,270   | 37,570  | -  | 4,266                            |
| 366 Communication equipment.....         | 7,140                                    | 56,740               | 2,874                              | 5,192                    | 18,029             | 16,931                                       | 19,409  | 33,720  | 605                                      | 42,861                           |
| 373 Ship and boat building.....          | 84,862                                   | 654,718              | 72,403                             | 131,570                  | 531,581            | 240,596                                      | 43,145  | 7,282   | 520,765                                  | 18,019                           |
| 384 Personal safety devices.....         | -  | -                    | -                                  | -                        | -                  | -  | -   | -   | -  | -                                |
| 19 Ordnance and accessories.....         | 41,983                                   | 310,485              | 23,910                             | 43,213                   | 162,736            | 112,040                                      | 63,028  | 245,813   | 2,718                                    | 80,643                           |
| 192 Missiles and ammunition, n.e.c.....  | 18,361                                   | 143,574              | 8,660                              | 15,939                   | 59,074             | 41,973                                       | 24,054  | 63,095  | -  | 40,140                           |

Note: Research and development activities, and manufacturing performed in supply depots are excluded, making 1963 data comparable to 1958.

- Represents zero.



by Geographic Areas: 1963 and 1958

| Geographic area                  | 1963--Continued   |                                   |                                |                   |                   |                   | 1958                                     |                      |
|----------------------------------|---|-----------------------------------|--------------------------------|-------------------|-------------------|-------------------|--|----------------------|
|                                  | Value of shipments or receipts for service by type of activity<br>(\$1,000) |                                   |                                |                   |                   |                   | All employees<br>(wage board and graded) |                      |
|                                  | Manufacture<br>and<br>assembly  | Construction<br>and<br>conversion | Research<br>and<br>development | Other<br>receipts | Total<br>billings | Total<br>revenues | Number                                   | Payroll<br>(\$1,000) |
| United States, total.....        | 370,249   | 524,088                           | 172,716                        | 552,878           | 1,619,931         | 1,693,663         | 125,440                                  | 717,130              |
| New England division.....        | 67,637  | 110,670                           | 14,712                         | 47,612            | 240,631           | 245,951           | 20,025                                   | 113,295              |
| New Hampshire.....               | 598   | 70,895                            | 1,012                          | 7,240             | 79,745            | 90,501            | 7,390                                    | 41,486               |
| Massachusetts.....               | 67,039  | 39,775                            | 13,700                         | 40,372            | 160,886           | 155,450           | 12,635                                   | 71,809               |
| Middle Atlantic division.....    | 114,341   | 153,105                           | 78,034                         | 121,581           | 467,061           | 453,663           | 31,252                                   | 171,285              |
| New York.....                    | 27,411  | 90,410                            | 14,310                         | 37,399            | 169,530           | 170,899           | 15,040                                   | 87,009               |
| New Jersey.....                  | 33,720  | 605                               | 42,861                         | 26,432            | 103,618           | 93,150            | 1,915                                    | 10,595               |
| Pennsylvania.....                | 53,210  | 62,090                            | 20,863                         | 57,750            | 193,913           | 189,614           | 14,297                                   | 73,681               |
| East North Central division..... | 79,516  | 1,167                             | 4,667                          | 34,650            | 120,000           | 119,880           | 4,219                                    | 23,607               |
| Indiana.....                     | 6,882   | -                                 | 1,354                          | 10,430            | 18,666            | 18,666            | 185                                      | 895                  |
| Illinois.....                    | 72,634  | 1,167                             | 3,313                          | 24,220            | 101,334           | 101,214           | 4,034                                    | 22,712               |
| South Atlantic division.....     | 52,792  | 28,122                            | 34,300                         | 144,951           | 260,165           | 302,191           | 26,555                                   | 143,624              |
| Maryland.....                    | 41,920  | -                                 | 31,133                         | 21,591            | 94,644            | 97,662            | 1,263                                    | 6,824                |
| District of Columbia.....        | -   | -                                 | -                              | -                 | -                 | -                 | -  | 5,266                |
| Virginia.....                    | 3,453   | 12,832                            | 911                            | 74,823            | 92,015            | 124,698           | 11,880                                   | 65,361               |
| South Carolina.....              | 235   | 15,290                            | 1,971                          | 48,108            | 65,604            | 70,619            | 7,075                                    | 37,146               |
| Georgia.....                     | 7,184   | -                                 | 285                            | 429               | 7,898             | 9,212             | 702                                      | 3,338                |
| Florida.....                     | -   | -                                 | -                              | -                 | -                 | -                 | 369                                      | 1,953                |
| East South Central division..... | 18,473  | -                                 | 36,051                         | 77,616            | 132,140           | 124,073           | 7,192                                    | 52,047               |
| Kentucky.....                    | 18,473  | -                                 | 600                            | 6,452             | 25,525            | 26,007            | 1,737                                    | 9,890                |
| Alabama.....                     | -   | -                                 | 35,451                         | 71,164            | 106,615           | 98,066            | 5,455                                    | 42,157               |
| West South Central division..... | 17,422  | -                                 | 68                             | 7,093             | 24,583            | 23,318            | 844                                      | 3,978                |
| Arkansas.....                    | 14,804  | -                                 | 60                             | 2,759             | 17,623            | 16,358            | 191                                      | 1,023                |
| Oklahoma.....                    | 2,618   | -                                 | 8                              | 4,334             | 6,960             | 6,960             | 653                                      | 2,955                |
| Mountain division.....           | 15,802  | -                                 | -                              | 3,100             | 18,902            | 16,646            | 1,251                                    | 6,500                |
| Colorado.....                    | 15,802  | -                                 | -                              | 3,100             | 18,902            | 16,646            | 78                                       | 449                  |
| Nevada.....                      | -   | -                                 | -                              | -                 | -                 | -                 | 1,173                                    | 6,051                |
| Pacific division.....            | 4,266   | 231,024                           | 4,884                          | 116,275           | 356,449           | 407,941           | 34,102                                   | 202,794              |
| Washington.....                  | 2,867   | 77,331                            | 2,526                          | 21,852            | 104,576           | 117,044           | 10,942                                   | 63,373               |
| California.....                  | 1,399   | 153,693                           | 2,358                          | 94,423            | 251,873           | 290,897           | 22,160                                   | 139,421              |

by Type of Activity: 1963 and 1958

| Major activity                           | 1963--Continued  |                   |                   | 1958                                     |                      |                                    |                      |                    |  |
|--|--|-------------------|-------------------|--|----------------------|------------------------------------|----------------------|--------------------|--|
|  | Value of shipments or<br>receipts for service by<br>type of activity--Continued<br>(\$1,000) |                   |                   | All employees<br>(wage board and graded) |                      | Production workers<br>(wage board) |                      |                    | Value<br>added by<br>manufac-<br>ture<br>(\$1,000) |
|  | Other<br>receipts  | Total<br>billings | Total<br>revenues | Number                                   | Payroll<br>(\$1,000) | Number                             | Man-hours<br>(1,000) | Wages<br>(\$1,000) |  |
| All manufacturing facilities, total.     | 552,878  | 1,619,931         | 1,693,663         | 125,440                                  | 717,130              | 93,871                             | 173,833              | 531,587            | 799,239  |
| 23 Apparel and related products.....     | 109  | 11,017            | 10,624            | 2,513                                    | 9,515                | 2,212                              | 4,308                | 7,937              | 10,501   |
| 281 Basic chemicals.....                 | 21,042   | 82,925            | 80,835            | 269                                      | 1,472                | 222                                | 440                  | 1,249              | 1,655  |
| 289 Miscellaneous chemical products..... | 6,408  | 48,244            | 49,831            | 1,160                                    | 6,188                | 789                                | 1,394                | 3,980              | 7,500  |
| 366 Communication equipment.....         | 26,432   | 103,618           | 93,150            | 1,915                                    | 10,595               | 1,435                              | 2,508                | 7,940              | 18,657   |
| 373 Ship and boat building.....          | 316,598  | 862,664           | 969,056           | 91,083                                   | 522,649              | 73,174                             | 135,278              | 420,944            | 571,127  |
| 384 Personal safety devices.....         | -  | -                 | -                 | 103                                      | 636                  | 86                                 | 165                  | 526                | 699  |
| 19 Ordnance and accessories.....         | 182,289  | 511,463           | 490,167           | 28,397                                   | 166,075              | 15,953                             | 29,740               | 89,011             | 189,100  |
| 192 Missiles and ammunition, n.e.c.....  | 110,658  | 213,893           | 210,134           | 9,605                                    | 65,096               | 4,649                              | 8,759                | 26,602             | 69,087   |

TABLE 4. Federal, District of Columbia, and State Prisons: 1963 and 1958

| Product <sup>1</sup>              | Unit of measure | Total shipments, including interplant transfers |                 |          |                 |
|-----------------------------------|-----------------|---|-----------------|----------|-----------------|
|                                   |                 | 1963  |                 | 1958     |                 |
|                                   |                 | Quantity  | Value (\$1,000) | Quantity | Value (\$1,000) |
| Total.....                        |                 | (X)   | 112,702         | (X)      | 97,307          |
| Meat products.....                |                 | (X)   | 5,696           | (X)      | 5,893           |
| Canned foods.....                 |                 | (X)   | 4,725           | (X)      | 4,608           |
| Prepared animal feeds.....        |                 | (X)   | 2,588           | (X)      | 1,129           |
| Coffee and tea.....               |                 | (X)   | 795             | (X)      | 1,171           |
| Chewing and smoking tobacco.....  |                 | (X)   | 1,273           | (X)      | 1,067           |
| Blankets.....                     |                 | (X)   | 2,275           | (X)      | 1,506           |
| Woven fabrics.....                | 1,000 lbs....   | 13,266  | 8,465           | 14,682   | 11,277          |
| Cordage and twine.....            | do.....         | 13,812  | 1,862           | 15,334   | 2,707           |
| Apparel and related products..... |                 | (X)   | 14,966          | (X)      | 12,364          |
| Sheets and pillow cases.....      |                 | (X)   | 1,754           | (X)      | 948             |
| Canvas specialties.....           |                 | (X)   | 3,735           | (X)      | 4,309           |
| Mattresses.....                   |                 | (X)   | 2,696           | (X)      | 3,369           |
| Wooden furniture.....             |                 | (X)   | 7,182           | (X)      | 5,364           |
| Printing and binding.....         |                 | (X)   | 3,324           | (X)      | 2,317           |
| Soaps.....                        |                 | (X)   | 2,370           | (X)      | 2,068           |
| Paints.....                       |                 | (X)   | 3,325           | (X)      | 2,006           |
| Shoes.....                        | 1,000 prs....   | 1,143   | 6,327           | 1,030    | 5,674           |
| Clay and concrete brick.....      | 1,000.....      | 15,915  | 212             | (X)      | 264             |
| Concrete block.....               |                 | (X)   | 418             | (X)      |                 |
| Motor vehicle license plates..... | 1,000.....      | 97,796  | 11,481          | 94,004   | 10,899          |
| Miscellaneous metal products..... |                 | (X)   | 10,157          | (X)      | 6,532           |
| Brooms and brushes.....           |                 | (X)   | 4,859           | (X)      | 4,178           |
| Highway and road signs.....       | 1,000.....      | 1,659   | 6,931           | 1,340    | 3,693           |
| Miscellaneous products.....       |                 | (X)   | 5,286           | (X)      | 23,964          |

Note: Excludes agricultural products, road building, and other nonmanufacturing activities.

(X) Not applicable.

<sup>1</sup>The products listed are classified within the Standard Industrial Classification System as follows:

| SIC code | Product                     | SIC code | Product                      | SIC code | Product                      |
|----------|-----------------------------|----------|------------------------------|----------|------------------------------|
| 201      | Meat products               | 230      | Apparel and related products | 314      | Shoes                        |
| 203      | Canned foods                | 239      | Sheets and pillowcases       | 325      | Clay and concrete brick      |
| 204      | Prepared animal feeds       | 239      | Canvas specialties           | 327      | Concrete block               |
| 209      | Coffee and tea              | 251      | Mattresses                   | 346      | Motor vehicle license plates |
| 213      | Chewing and smoking tobacco | 253      | Wooden furniture             | 349      | Miscellaneous metal products |
| 221      | Blankets                    | 275      | Printing and binding         | 398      | Brooms and brushes           |
| 223      | Woven fabrics               | 284      | Soaps                        | 399      | Highway and road signs       |
| 229      | Cordage and twine           | 285      | Paints                       | 900      | Miscellaneous products       |

<sup>2</sup>Includes the following values reported separately in 1958, but for which separate data are not available in 1963: Dairy products, 202, \$1,807 thousand; flour, 204, \$276 thousand; miscellaneous textile products, 229, \$270 thousand; castings, 330, \$300 thousand; and farm equipment, 352, \$913 thousand.



## Appendixes





# Appendix A

## COMPARABILITY OF CENSUSES OF MANUFACTURES IN TERMS OF THE VALUE ADDED MEASURE

It is doubtful whether any census could be kept fully comparable with one taken for an earlier period. Even if all systems of classification, such as the SIC, and definitions were identical and if the same procedures were employed in compiling the statistics, the changes in the structure of industry would introduce elements of noncomparableness. For example, a shift to the use of commercial services instead of the manufacturers' own labor force in performing some functions would affect the comparability of operating ratios such as output per man-hour associated with an industry.

The changes in definitions and procedures introduced in a census are described in the introductory text of the census volumes and historical data are revised where practical. (See Introductory text, Section 5.) Nevertheless, over long periods of time the comparableness of series will be significantly affected and the problems of revising historical data become difficult.

One way of displaying the problems connected with comparing the statistics from two censuses is to review the history of a single concept. For this example, value added by manufactures has been chosen. Currently, it is looked upon as the "best" additive measure of manufacturing activity provided by the census of manufactures. It is widely relied upon for comparative statistics by industry and by geographic location.

The phrase, "value added to materials by manufacturing processes," first appeared as a column heading in the census for 1904, where it was proposed as a measure suitable for comparing industries and areas. Earlier censuses had provided information on value of product and varying amounts of information on costs of materials, the two sets of figures which census analysts use to compute value added (table A). In connection with the census for 1869, costs of materials were subtracted from value of product for each industry but the difference, which was labeled "excess of product over materials," was used primarily to indicate variation among industries classified by the ratio of materials to employees and by the manner in which products were valued for census purposes.

This appendix was prepared by Frank H. Hanna, professor of economics, Duke University.

During the 19th century, interest centered chiefly in obtaining an aggregate which would reflect the growth of the American economy. In 1889, the subtraction of costs of materials from value of product was labeled, "net value of products." It was later criticized as a "statistical absurdity" unsuitable for measuring the growth of manufactures since the net value of products was made to appear less than the cost of materials. The census for 1899 proposed as a measure of growth the sum of "(1) the value of all raw materials which have entered this output; and (2) the entire value added to these raw materials by manufacturing processes," and, (3) the value of the partially fabricated materials imported "since their value is counted nowhere else."

The concern with the appropriate basis for the measurement of growth, and the desire to include within the measure all activities not explicitly included elsewhere, probably had its roots in the sparsity of available data. The census of manufactures was almost the only source of information on output and apparently there was a desire to make it as comprehensive as possible. It purported to cover output wherever it occurred—in factories, in the hand trades, in stores, and even in homes if the output was commercial—though the censuses for 1869 and later disclaimed an ability to obtain reliable statistics from the hand trades.

The census for 1899 devoted 77 pages of text to the emergence of a "factory system" and to formation of 185 "industrial combinations" or "trusts," consisting of 2,040 plants in 12 industrial groups and 36 States. All but eight of the "combinations" had been formed between 1890 and 1899. After 1899, the census was confined to the "factory system." Its frequency increased and emphasis shifted to the organization and structure of manufactures.

The formulation of net value of products as the sum of raw materials and value added had required that data be collected separately for raw materials and for fabricated materials and, as is shown in table A, data were obtained on many other expenses. The problem of allocating net value of products among industries and areas was discussed extensively in the census for 1899 but a satisfactory solution was not found. "Value added" was adopted, almost reluctantly, for this purpose in the census for 1904, but only the cost of materials consumed directly was subtracted from value of products to arrive at the value added used for that year. Materials consumed by the manufacturing process (e.g., mill supplies, fuels, etc.), but not embodied in the product, were not subtracted even though information on their magnitude was available in the census.

Table A.--Approaches to Value Added, Selected Census Years 1869 to 1958

[In millions of dollars. The entries are from the original reports for the years shown. Estimates adjusted for changes in the scope of manufactures are shown in table 1, General Summary. The exclusion of the hand trades and neighborhood operations from the 1899 census reduced the value added shown in this table by 44 percent; the adjustments for 1809 and later censuses were about 4 percent.]

| Item <sup>1</sup>                              | 1869             | 1899             | 1904             | 1909             | 1919              | 1939    | 1947              | 1958               |
|--|------------------|------------------|------------------|------------------|-------------------|---------|-------------------|--------------------|
| 1 Value of product <sup>2</sup> .....          | 4,376            | 13,004           | 14,802           | 20,672           | 62,418            | 56,843  | 191,004           | 314,748            |
| 2 Cost of materials <sup>3</sup> .....         | *2,503           | -                | -                | *11,497          | *35,730           | *30,255 | *113,246          | *168,424           |
| 3 Raw.....                                     | -                | 2,389            | *3,141           | -                | -                 | -       | -                 | -                  |
| 4 Partly manufactured.....                     | -                | *4,634           | *4,918           | -                | -                 | -       | -                 | -                  |
| 5 Mill supplies.....                           | ( <sup>4</sup> ) | -                | 63               | ( <sup>4</sup> ) | ( <sup>4</sup> )  | -       | -                 | -                  |
| 6 Freight, materials.....                      | -                | ( <sup>5</sup> ) | 57               | *76              | ( <sup>6</sup> )  | -       | -                 | -                  |
| 7 Fuels.....                                   | ( <sup>4</sup> ) | 322              | 308              | *570             | *1,646            | *850    | *2,377            | *2,830             |
| 8 Electricity.....                             | -                | -                | -                | -                | -                 | *465    | *955              | *2,224             |
| 9 Rent: power and heat.....                    | -                | -                | 17               | ( <sup>5</sup> ) | ( <sup>5</sup> )  | -       | -                 | -                  |
| 10 Contract work.....                          | -                | 171              | 145              | 179              | 464               | *589    | *( <sup>7</sup> ) | *( <sup>7</sup> )  |
| 11 Rent: factory and works.....                | -                | 96               | 73               | 107              | 212               | -       | -                 | <sup>8</sup> 1,411 |
| 12 Taxes paid.....                             | -                | -                | -                | -                | 2,079             | -       | -                 | -                  |
| 13 Federal excise.....                         | -                | ( <sup>9</sup> ) | ( <sup>9</sup> ) | 263              | ( <sup>10</sup> ) | -       | ( <sup>7</sup> )  | ( <sup>7</sup> )   |
| 14 State and local.....                        | -                | 47               | 59               | 88               | ( <sup>10</sup> ) | -       | -                 | <sup>8</sup> 1,450 |
| 15 Other expenses <sup>11</sup> .....          | -                | 714              | 1,178            | 1,309            | -                 | -       | -                 | -                  |
| Ordinary repairs:                              |                  |                  |                  |                  |                   |         |                   |                    |
| 16 Wages and salaries of plant.....            | -                | -                | -                | -                | -                 | -       | -                 | <sup>8</sup> 4,539 |
| 17 Purchased services.....                     | -                | -                | -                | -                | -                 | -       | -                 | <sup>8</sup> 4,472 |
| Supplements to wages and salaries:             |                  |                  |                  |                  |                   |         |                   |                    |
| 18 Social security.....                        | -                | -                | -                | -                | -                 | -       | -                 | <sup>8</sup> 1,335 |
| 19 Workmen's compensation.....                 | -                | -                | -                | -                | -                 | -       | -                 | <sup>8</sup> 501   |
| 20 Unemployment compensation...                | -                | -                | -                | -                | -                 | -       | -                 | <sup>8</sup> 762   |
| 21 Pensions and other.....                     | -                | -                | -                | -                | -                 | -       | -                 | <sup>8</sup> 3,376 |
| 22 Insurance.....                              | -                | -                | -                | -                | -                 | -       | -                 | <sup>8</sup> 667   |
| 23 Depreciation.....                           | -                | -                | -                | -                | -                 | -       | -                 | <sup>8</sup> 7,295 |
| 24 Cost of goods resold.....                   | -                | -                | -                | -                | -                 | -       | ( <sup>12</sup> ) | *( <sup>12</sup> ) |
| 25 Value added by manufacture <sup>13</sup> .. | 1,873            | 8,371            | 6,743            | 8,529            | 25,042            | 24,683  | 74,426            | 141,270            |

\*Subtracted from value of product in computing value added by manufacture.

- Represents zero.

<sup>1</sup>Includes only items named in a request for separate information.

<sup>2</sup>For 1947, value of shipments; for 1958, value of shipments and miscellaneous receipts, sales of goods bought and resold without further manufacture, and changes in inventories of work in process and finished goods.

<sup>3</sup>Includes all materials consumed in the manufacture of products plus an increasingly comprehensive list of supplies consumed currently in the operation of the plant.

<sup>4</sup>Specifically mentioned as included in item 2, but not shown separately.

<sup>5</sup>Obtained separately but combined with item 7 for publication.

<sup>6</sup>Information requested but no mention of it was found in publication.

<sup>7</sup>Excluded from value of product and, thus, from value added. Data on excise taxes were obtained for 1947 and published as a memorandum item in the tables for industry, but have not been requested since 1947.

<sup>8</sup>Data were obtained in a sample survey conducted in connection with the census for 1958 and relate to 1957.

<sup>9</sup>Specifically mentioned as included in item 15.

<sup>10</sup>Items 13 and 14 were combined and requested as item 12.

<sup>11</sup>The instructions for 1899 and 1904 requested the inclusion of the following expenses: Federal excise taxes, rent of office and buildings, interest paid, insurance premiums paid, advertising, ordinary repairs of buildings and machinery, all other sundries. The instructions for 1909 modified this list by requesting the separate reporting of Federal excise taxes, dropping interest paid, and adding traveling expenses, royalties, use of patents.

<sup>12</sup>Published only for individual industries; total not shown for all industries.

<sup>13</sup>For 1869, labeled, "excess of value over materials;" for 1899, labeled, "net value of product."



The chief concern of those first deciding upon the appropriate definition of value added was to circumvent the problem discussed in most censuses under the heading, "Duplication in cost of materials and value of products." To them, it *must* have seemed undesirable to subtract from value of products anything not essential to reduce "duplication" to manageable proportions. The considerations which went into the decisions to subtract additional costs from value of products are incompletely recorded, but there is no doubt that such decisions were taken. By 1909, mill supplies and fuels, including rented heat and power, were subtracted. To this list were added purchased electricity in 1929, and the cost of contract work, partially in 1935, and fully in 1939. Beginning with the 1947 Census of Manufactures, Federal excise taxes were excluded from value of shipments and thus from value added by manufacture. In a special table in the 1954 Census of Manufactures (Volume I, General Summary, table 2B), the concept of adjusted value added was introduced. Value added by resales was added to standard value added by manufacture and the total further adjusted by the change in finished products and work-in-process inventories. During the 1955 to 1959 Annual Surveys of Manufactures, both adjusted and unadjusted value added were calculated for each industry. Since the 1958 census, only adjusted value added has been used.

While there was an increase in the range of costs subtracted from value of product in arriving at value added since 1869, there was also a curtailment of the *detailed information* obtained on costs. Why some items were dropped is not known precisely but *perhaps* the following information is relevant. The census reports contain testimony that difficulty had been experienced in collecting data on costs or expenses and that respondents had

complained about the burden of providing such information. The reports also contain statements, with increasing emphasis, that *profits* could not be calculated from published figures; such statements also appear in the reports for 1899 and 1904, the years when maximum detail was requested. There may have been more effort by the Census Bureau to obtain data essential to a "key" measure, such as value added, than there was for data to be presented only as supplementary information. Too, the introduction, in 1921, of the biennial census of manufactures, coupled with uncertain and fluctuating appropriations, may have led to the adoption of a policy to concentrate on a minimum number of key measures. The appropriations for the census for 1933, for example, were too small even to cover the key measures.

It is not clear whether the inclusion of fuels and electricity in the value to be subtracted from value of product was simply to reduce "duplication" within the manufacturing sector or is evidence of a growing awareness of the contribution of other sectors to the value of manufactured product, a contribution that must be subtracted to arrive at value added by *manufacture*. During the opening decades of this century, coke and manufactured gas had a larger share of the fuels market and much of the electricity consumed by manufactures was produced in manufacturing plants. On the other hand, a continuous attempt was made from the early censuses to exclude transportation costs from the value of products and value added, by requesting that products be valued f.o.b. the plant and that materials costs include the cost of transporting them to the plant. Item 6, table A, was provided as "correction" to costs of materials which were reported exclusive of delivery costs.





## Appendix B

### INDUSTRY DESCRIPTIONS

This appendix is included in Volume I, Summary and Subject Statistics, and in Volume III, Area Statistics, but has been omitted from this volume. The appendix shows the industry descriptions and the primary product coverage and specialization ratios for each industry. Similar but more extensive information of this type is contained elsewhere in this volume: Industry descriptions are shown in the text preceding the tables for each industry, and the ratios in table 5A for each industry.





## Appendix C

### COMPOSITION OF INDUSTRIES IN THE 1963 STANDARD INDUSTRIAL CLASSIFICATION

The 1963 and 1958 Censuses of Manufactures covered all establishments primarily engaged in manufacture as defined in the revised edition of the **Standard Industrial Classification Manual** (SIC), issued by the Bureau of the Budget. For 1958, the published census statistics were for the manufacturing industries as defined in the 1957 edition of the SIC Manual. For 1963, statistics are for the manufacturing industries as defined in an amended version of the 1957 edition.

The 1957 revised edition of the classification represented a considerable revision from the previously existing structure. Several appendixes in the published volumes of the 1958 Census of Manufactures dealt with the contents of that revision as it affected the manufacturing sector. (See 1958 Appendix A, "Notes on Comparability of 1954 and 1958 Data for Selected Industries and Industry Groups;" Appendix B, "Industry Descriptions;" and Appendix C, "Composition of Industries in the New SIC.") Several appendixes to the 1963 Census of Manufactures volumes, including this appendix, likewise make reference to the relatively minor revisions of the SIC following the issuance of the 1957 revised edition.

Presented in two parts, this appendix traces, in part 1, the industries as defined for 1963 in terms of their 1958 counterparts and, in part 2, the industries as defined for 1958 in terms of their 1963 equivalents. Where no change in code or definition occurred, the short industry title and 4-digit code apply to both census years. Most of the industries fall into this category. Where change occurred, the title for a line showing only a 1958 code is a 1958 title and that for a line showing only a 1963 code, a 1963 title. In these instances of change in the SIC (a new industry

broken out of an existing industry, existing industries combined into one, or products shifted between existing industries) the relationship between the two periods is clarified by the manner of presentation. For example, in part 2, in the columns under "Industry code," the 1958 SIC industry 2025, "Special Dairy Products," is shown as part of 1963 industry 2022, "Natural and Process Cheese." This situation, that is, being part of an industry in the other year, is notated by an asterisk (\*). Part 2 also indicates that 1958 industry 2022, "Natural Cheese," is likewise a part of 1963 industry 2022. Part 1 shows that, for 1963, industry 2022 encompasses 1958 industries 2022 and 2025. Thus, to determine comparability between the years, parts 1 and 2 of this appendix should be studied together. In both parts, 1963 data shown are for the following items: Number of establishments (total and those with 20 employees or more); employment; and value added by manufacture.

The manner of coding products and classifying establishments in the 1963 Census of Manufactures (utilizing only 1963 SIC codes) did not, in general, permit a tabulation of 1963 data in terms of 1958 industry definitions. Thus, in part 2 it was not possible to show the data for that part of 1963 industry 2022 which is equivalent to 1958 industry 2025. However, where the change in industry definition between the two years was such as to subdivide an old SIC industry into two new industries, the 1963 data for the former industry can be derived by summing the figures for the component parts; e.g., the 1958 industry 2649, "Paper and Board Products, N.E.C.," consists of the 1963 industries 2647 and 2649, and totals for 2647 and 2649 are added together in part 2 to show their 1958 SIC industry equivalent.

Manufacturing industry codes used by the Bureau of the Census are identical to the SIC industry codes, with a single exception: SIC industries 3711 (Motor Vehicles), 3712 (Passenger Car Bodies), and 3714 (Motor Vehicle Parts and Accessories) are combined by Census into a single industry, number 3717, entitled "Motor Vehicles and Parts."

## Composition of Industries in the 1963 SIC

### Part 1. Derivation of 1963 SIC Industries from 1958 SIC Industries

| Industry code |             | Industry title                        | Establishments    |   | All employees<br>(number) | Value added by<br>manufacture<br>(\$1,000) |
|---------------|-------------|---------------------------------------|-------------------|---|---------------------------|--|
| 1963<br>SIC   | 1958<br>SIC |                                       | Total<br>(number) | With 20<br>employees<br>or more<br>(number) |                           |  |
| 2011          | 2011        | Meat slaughtering plants.....         | 2,992             | 976   | 180,873                   | 1,908,309                                  |
| 2013          | 2013        | Meat processing plants.....           | 1,341             | 483   | 48,599                    | 563,362                                    |
| 2015          | 2015        | Poultry dressing plants.....          | 967               | 559   | 70,104                    | 410,909                                    |
| 2021          | 2021        | Creamery butter.....                  | 766               | 178   | 11,992                    | 132,665                                    |
| 2022          | ----        | Natural and process cheese.....       | 1,138             | 206   | 17,956                    | 179,750                                    |
|               | 2022        | Natural cheese.....                   | 1,138             | 206   | 17,956                    | 179,750                                    |
|               | 2025        | Special dairy products.....           |                   |   |                           |  |
| 2023          | 2023        | Condensed and evaporated milk.....    | 281               | 166   | 12,255                    | 236,250                                    |
| 2024          | 2024        | Ice cream and frozen desserts.....    | 1,081             | 387   | 29,143                    | 433,006                                    |
| 2026          | 2026        | Fluid milk.....                       | 4,619             | 1,948                                       | 185,050                   | 2,203,196                                  |
| 2031          | 2031        | Canned and cured seafoods.....        | 405               | 196   | 17,271                    | 174,634                                    |
| 2032          | 2032        | Canned specialties.....               | 173               | 77  | 25,156                    | 540,835                                    |
| 2033          | 2033        | Canned fruits and vegetables.....     | 1,430             | 836   | 102,388                   | 1,029,467                                  |
| 2034          | 2034        | Dehydrated foods products.....        | 176               | 80  | 9,152                     | 115,795                                    |
| 2035          | 2035        | Pickles, sauces, salad dressings..... | 588               | 184   | 19,041                    | 249,397                                    |
| 2036          | 2036        | Fresh or frozen packaged fish.....    | 547               | 255   | 20,066                    | 118,451                                    |
| 2037          | 2037        | Frozen fruits and vegetables.....     | 650               | 346   | 51,750                    | 550,231                                    |
| 2041          | 2041        | Flour mills.....                      | 618               | 218   | 22,405                    | 373,090                                    |
| 2042          | 2042        | Prepared animal feeds.....            | 2,590             | 711   | 54,649                    | 983,691                                    |
| 2043          | 2043        | Cereal preparations.....              | 48                | 30  | 11,358                    | 365,022                                    |
| 2044          | 2044        | Rice milling.....                     | 74                | 49  | 4,256                     | 80,507                                     |
| 2045          | 2045        | Blended and prepared flour.....       | 165               | 60  | 7,199                     | 177,826                                    |
| 2046          | 2046        | Wet corn milling.....                 | 60                | 20  | 13,236                    | 290,918                                    |
| 2051          | 2051        | Bread and related products.....       | 5,010             | 1,904                                       | 236,984                   | 2,403,782                                  |
| 2052          | 2052        | Biscuit, crackers and cookies.....    | 356               | 208   | 43,160                    | 627,040                                    |
| 2061          | 2061        | Raw cane sugar.....                   | 74                | 73  | 8,263                     | 135,686                                    |
| 2062          | 2062        | Cane sugar refining.....              | 25                | 25  | 12,443                    | 254,418                                    |
| 2063          | 2063        | Beet sugar.....                       | 65                | 62  | 11,297                    | 200,698                                    |
| 2071          | 2071        | Confectionery products.....           | 1,211             | 411   | 63,643                    | 635,393                                    |
| 2072          | 2072        | Chocolate and cocoa products.....     | 28                | 23  | 8,743                     | 184,796                                    |
| 2073          | 2073        | Chewing gum.....                      | 24                | 17  | 5,558                     | 135,848                                    |
| 2082          | 2082        | Malt liquors.....                     | 222               | 180   | 62,643                    | 1,286,036                                  |
| 2083          | 2083        | Malt.....                             | 42                | 31  | 1,925                     | 43,979                                     |
| 2084          | 2084        | Wines and brandy.....                 | 222               | 70  | 6,111                     | 137,281                                    |
| 2085          | 2085        | Distilled liquor, except brandy.....  | 107               | 89  | 18,009                    | 623,736                                    |
| 2086          | 2086        | Bottled and canned soft drinks.....   | 3,905             | 1,530                                       | 106,850                   | 1,233,629                                  |
| 2087          | 2087        | Flavorings.....                       | 520               | 97  | 9,083                     | 400,173                                    |
| 2091          | 2091        | Cottonseed oil mills.....             | 188               | 153   | 8,372                     | 100,815                                    |
| 2092          | 2092        | Soybean oil mills.....                | 102               | 71  | 6,478                     | 152,143                                    |
| 2093          | 2093        | Vegetable oil mills, n.e.c.....       | 47                | 22  | 1,952                     | 42,692                                     |
| 2094          | ----        | Animal and marine fats and oils.....  | 615               | 211   | 14,276                    | 193,326                                    |
|               | 2094        | Grease and tallow.....                | 615               | 211   | 14,276                    | 193,326                                    |
|               | 2095        | Animal oils, n.e.c.....               |                   |   |                           |  |
| 2095          | ----        | Roasted coffee.....                   | 324               | 133   | 17,175                    | 616,407                                    |
|               | 2099*       | Food preparations, n.e.c.....         | 324               | 133   | 17,175                    | 616,407                                    |
| 2096          | 2096        | Shortening and cooking oils.....      | 115               | 86  | 13,511                    | 264,501                                    |
| 2097          | 2097        | Manufactured ice.....                 | 1,199             | 135   | 10,757                    | 90,204                                     |
| 2098          | 2098        | Macaroni and spaghetti.....           | 221               | 70  | 7,270                     | 96,012                                     |
| 2099          | ----        | Food preparations, n.e.c.....         | 2,190             | 547   | 54,277                    | 849,610                                    |
|               | 2099*       | Food preparations, n.e.c.....         | 2,190             | 547   | 54,277                    | 849,610                                    |
| 2111          | 2111        | Cigarettes.....                       | 14                | 14  | 35,568                    | 1,310,325                                  |
| 2121          | 2121        | Cigars.....                           | 193               | 82  | 20,731                    | 192,998                                    |
| 2131          | 2131        | Chewing and smoking tobacco.....      | 51                | 25  | 4,058                     | 73,975                                     |
| 2141          | 2141        | Tobacco stemming and redrying.....    | 136               | 110   | 16,973                    | 103,296                                    |
| 2211          | 2211        | Weaving mills, cotton.....            | 407               | 350   | 208,993                   | 1,256,753                                  |
| 2221          | 2221        | Weaving mills, synthetics.....        | 355               | 300   | 88,157                    | 661,535                                    |
| 2231          | 2231        | Weaving, finishing mills, wool.....   | 361               | 249   | 47,429                    | 386,622                                    |
| 2241          | 2241        | Narrow fabric mills.....              | 384               | 215   | 23,154                    | 172,493                                    |

\*Represents part of the specified industry. (NA) Not available.



## Composition of Industries in the 1963 SIC--Continued

### Part 1. Derivation of 1963 SIC Industries from 1958 SIC Industries--Continued

| Industry code |          | Industry title                        | Establishments    |                                       | All employees<br>(number) | Value added by manufacture<br>(\$1,000) |
|---------------|----------|---------------------------------------|-------------------|---------------------------------------|---------------------------|---|
| 1963 SIC      | 1958 SIC |                                       | Total<br>(number) | With 20 employees or more<br>(number) |                           |   |
| 2251          | ----     | Women's hosiery, except socks.....    | 409               | 266                                   | 50,869                    | 292,644                                 |
|               | 2251     | Full-fashioned hosiery mills.....     | 409               | 266                                   | 50,869                    | 292,644                                 |
|               | 2252*    | Seamless hosiery mills.....           |                   |                                       |                           |   |
| 2252          | ----     | Hosiery, n.e.c.....                   | 530               | 340                                   | 43,998                    | 195,867                                 |
|               | 2252*    | Seamless hosiery mills.....           | 530               | 340                                   | 43,998                    | 195,867                                 |
| 2253          | 2253     | Knit outerwear mills.....             | 1,185             | 666                                   | 68,570                    | 463,585                                 |
| 2254          | 2254     | Knit underwear mills.....             | 118               | 104                                   | 28,364                    | 170,709                                 |
| 2256          | 2256     | Knit fabric mills.....                | 518               | 243                                   | 25,046                    | 252,908                                 |
| 2259          | 2259     | Knitting mills, n.e.c.....            | 88                | 45                                    | 3,639                     | 20,309                                  |
| 2261          | 2261     | Finishing plants, cotton.....         | 238               | 140                                   | 42,055                    | 332,290                                 |
| 2262          | 2262     | Finishing plants, synthetic.....      | 205               | 138                                   | 19,528                    | 176,819                                 |
| 2269          | 2269     | Finishing plants, n.e.c.....          | 178               | 85                                    | 9,236                     | 73,159                                  |
| 2271          | 2271     | Woven carpets and rugs.....           | 64                | 31                                    | 13,357                    | 120,004                                 |
| 2272          | 2272     | Tufted carpets and rugs.....          | 181               | 121                                   | 19,854                    | 259,343                                 |
| 2279          | 2279     | Carpets and rugs, n.e.c.....          | 104               | 35                                    | 2,445                     | 15,595                                  |
| 2281          | 2281     | Yarn mills, except wool.....          | 317               | 284                                   | 61,647                    | 363,177                                 |
| 2282          | 2282     | Throwing and winding mills.....       | 180               | 110                                   | 13,559                    | 93,649                                  |
| 2283          | 2283     | Wool yarn mills.....                  | 144               | 121                                   | 17,385                    | 119,718                                 |
| 2284          | 2284     | Thread mills.....                     | 71                | 36                                    | 10,056                    | 75,821                                  |
| 2291          | 2291     | Felt goods, n.e.c.....                | 36                | 30                                    | 4,952                     | 58,625                                  |
| 2292          | 2292     | Lace goods.....                       | 152               | 51                                    | 4,912                     | 31,472                                  |
| 2293          | 2293     | Padding and upholstery filling.....   | 183               | 73                                    | 6,932                     | 65,588                                  |
| 2294          | 2294     | Processed textile waste.....          | 141               | 59                                    | 4,240                     | 30,961                                  |
| 2295          | 2295     | Coated fabric, not rubberized.....    | 161               | 86                                    | 13,475                    | 177,307                                 |
| 2296          | 2296     | Tire cord and fabric.....             | 20                | 19                                    | 9,163                     | 72,267                                  |
| 2297          | 2297     | Scouring and combing plants.....      | 69                | 38                                    | 5,798                     | 45,402                                  |
| 2298          | 2298     | Cordage and twine.....                | 167               | 76                                    | 8,920                     | 57,614                                  |
| 2299          | 2299     | Textile goods, n.e.c.....             | 137               | 56                                    | 7,283                     | 78,746                                  |
| 2311          | 2311     | Men's and boys' suits and coats.....  | 1,112             | 635                                   | 122,679                   | 831,910                                 |
| 2321          | 2321     | Men's dress shirts and nightwear..... | 834               | 566                                   | 113,193                   | 601,620                                 |
| 2322          | 2322     | Men's and boys' underwear.....        | 80                | 63                                    | 12,084                    | 63,186                                  |
| 2323          | 2323     | Men's and boys' neckwear.....         | 341               | 117                                   | 8,385                     | 58,136                                  |
| 2327          | 2327     | Separate trousers.....                | 735               | 423                                   | 73,848                    | 383,134                                 |
| 2328          | 2328     | Work clothing.....                    | 439               | 353                                   | 62,477                    | 330,653                                 |
| 2329          | 2329     | Men's and boys' clothing, n.e.c.....  | 554               | 365                                   | 35,917                    | 183,224                                 |
| 2331          | 2331     | Women's blouses.....                  | 1,175             | 718                                   | 57,595                    | 300,525                                 |
| 2335          | 2335     | Women's dresses.....                  | 4,752             | 3,013                                 | 200,003                   | 1,180,883                               |
| 2337          | 2337     | Women's suits, coats and skirts.....  | 2,516             | 1,380                                 | 88,332                    | 637,869                                 |
| 2339          | 2339     | Women's outerwear, n.e.c.....         | 1,297             | 709                                   | 59,536                    | 340,462                                 |
| 2341          | 2341     | Women's and children's underwear..... | 1,069             | 628                                   | 76,723                    | 430,771                                 |
| 2342          | 2342     | Corsets and allied garments.....      | 351               | 234                                   | 37,144                    | 310,150                                 |
| 2351          | 2351     | Millinery.....                        | 711               | 221                                   | 14,183                    | 93,168                                  |
| 2352          | 2352     | Hats and caps.....                    | 436               | 173                                   | 16,608                    | 91,277                                  |
| 2361          | 2361     | Children's dresses and blouses.....   | 667               | 412                                   | 35,792                    | 205,623                                 |
| 2363          | 2363     | Children's coats and suits.....       | 285               | 152                                   | 11,848                    | 72,735                                  |
| 2369          | 2369     | Children's outerwear, n.e.c.....      | 624               | 360                                   | 34,244                    | 188,344                                 |
| 2371          | 2371     | Fur goods.....                        | 1,591             | 94                                    | 9,289                     | 110,619                                 |
| 2381          | 2381     | Fabric dress and work gloves.....     | 197               | 103                                   | 12,771                    | 64,372                                  |
| 2384          | 2384     | Robes and dressing gowns.....         | 271               | 144                                   | 11,889                    | 68,717                                  |
| 2385          | 2385     | Waterproof outer garments.....        | 341               | 196                                   | 16,148                    | 111,342                                 |
| 2386          | 2386     | Leather and sheeplined clothing.....  | 114               | 50                                    | 3,352                     | 23,351                                  |
| 2387          | 2387     | Apparel belts.....                    | 389               | 141                                   | 9,841                     | 62,172                                  |
| 2389          | 2389     | Apparel, n.e.c.....                   | 270               | 108                                   | 7,225                     | 43,211                                  |
| 2391          | 2391     | Curtains and draperies.....           | 1,121             | 255                                   | 21,955                    | 131,995                                 |
| 2392          | 2392     | Housefurnishings, n.e.c.....          | 1,239             | 422                                   | 39,690                    | 285,759                                 |
| 2393          | 2393     | Textile bags.....                     | 192               | 88                                    | 7,191                     | 56,523                                  |
| 2394          | 2394     | Canvas products.....                  | 881               | 124                                   | 11,170                    | 75,534                                  |
| 2395          | 2395     | Pleating and stitching.....           | 1,316             | 245                                   | 16,353                    | 95,240                                  |
| 2396          | 2396     | Apparel findings.....                 | 756               | 213                                   | 24,539                    | 227,810                                 |
| 2397          | 2397     | Schiffli machine embroideries.....    | 759               | 68                                    | 6,145                     | 55,411                                  |
| 2399          | 2399     | Textile products, n.e.c.....          | 1,044             | 240                                   | 21,350                    | 145,153                                 |

\*Represents part of the specified industry. (NA) Not available.

## Composition of Industries in the 1963 SIC--Continued

### Part 1. Derivation of 1963 SIC Industries from 1958 SIC Industries--Continued

| Industry code |          | Industry title                       | Establishments |                           | All employees<br>(number) | Value added by manufacture<br>(\$1,000) |
|---------------|----------|--------------------------------------|----------------|---------------------------|---------------------------|---|
| 1963 SIC      | 1958 SIC |                                      | Total          | With 20 employees or more |                           |   |
|               |          |                                      | (number)       | (number)                  |                           |   |
| 2411          | 2411     | Logging camps and contractors.....   | 13,588         | 557                       | 73,130                    | 520,457                                 |
| 2421          | 2421     | Sawmills and planing mills.....      | 12,189         | 2,151                     | 207,365                   | 1,376,080                               |
| 2426          | 2426     | Hardwood dimension and flooring..... | 642            | 317                       | 28,128                    | 155,083                                 |
| 2429          | 2429     | Special product sawmills, n.e.c..... | 541            | 107                       | 7,164                     | 41,355                                  |
| 2431          | 2431     | Millwork plants.....                 | 3,770          | 748                       | 65,283                    | 524,041                                 |
| 2432          | 2432     | Veneer and plywood plants.....       | 641            | 503                       | 66,155                    | 559,211                                 |
| 2433          | 2433     | Prefabricated wood products.....     | 559            | 203                       | 15,806                    | 156,593                                 |
| 2441          | 2441     | Nailed wooden boxes and shook.....   | 663            | 183                       | 14,483                    | 85,046                                  |
| 2442          | 2442     | Wirebound boxes and crates.....      | 117            | 70                        | 9,893                     | 55,606                                  |
| 2443          | 2443     | Veneer and plywood containers.....   | 99             | 44                        | 3,953                     | 16,086                                  |
| 2445          | 2445     | Cooperage.....                       | 107            | 23                        | 2,616                     | 17,494                                  |
| 2491          | 2491     | Wood preserving.....                 | 338            | 157                       | 11,178                    | 93,265                                  |
| 2499          | ----     | Wood products, n.e.c.....            | 2,896          | 702                       | 57,981                    | 420,283                                 |
| 2499          | 2499     | Wood products, n.e.c.....            | 2,896          | 702                       | 57,981                    | 420,283                                 |
| 2661*         | 2661*    | Building paper and board mills.....  | 2,896          | 702                       | 57,981                    | 420,283                                 |
| 2511          | 2511     | Wood furniture, not upholstered..... | 3,063          | 992                       | 140,982                   | 993,200                                 |
| 2512          | 2512     | Wood furniture, upholstered.....     | 1,785          | 713                       | 67,850                    | 506,727                                 |
| 2514          | 2514     | Metal household furniture.....       | 517            | 244                       | 29,346                    | 247,003                                 |
| 2515          | 2515     | Mattresses and bedsprings.....       | 1,120          | 340                       | 30,061                    | 285,510                                 |
| 2519          | 2519     | Household furniture, n.e.c.....      | 75             | 30                        | 2,054                     | 15,054                                  |
| 2521          | 2521     | Wood office furniture.....           | 138            | 58                        | 6,516                     | 57,018                                  |
| 2522          | 2522     | Metal office furniture.....          | 170            | 107                       | 19,928                    | 228,329                                 |
| 2531          | 2531     | Public building furniture.....       | 430            | 165                       | 17,317                    | 147,253                                 |
| 2541          | 2541     | Wood partitions and fixtures.....    | 1,594          | 347                       | 24,343                    | 219,194                                 |
| 2542          | 2542     | Metal partitions and fixtures.....   | 513            | 167                       | 20,290                    | 214,301                                 |
| 2591          | 2591     | Venetian blinds and shades.....      | 717            | 59                        | 10,102                    | 88,905                                  |
| 2599          | 2599     | Furniture and fixtures, n.e.c.....   | 356            | 91                        | 7,540                     | 65,871                                  |
| 2611          | 2611     | Pulp mills.....                      | 45             | 40                        | 15,123                    | 295,804                                 |
| 2621          | 2621     | Paper mills, except building.....    | 325            | 313                       | 129,848                   | 1,857,203                               |
| 2631          | 2631     | Paperboard mills.....                | 271            | 259                       | 63,398                    | 1,186,224                               |
| 2641          | 2641     | Paper coating and glazing.....       | 387            | 181                       | 31,983                    | 457,367                                 |
| 2642          | 2642     | Envelopes.....                       | 230            | 173                       | 20,728                    | 188,963                                 |
| 2643          | 2643     | Bags, except textile bags.....       | 586            | 297                       | 42,343                    | 369,685                                 |
| 2644          | 2644     | Wallpaper.....                       | 79             | 31                        | 2,194                     | 20,907                                  |
| 2645          | 2645     | Die cut paper and board.....         | 425            | 156                       | 15,135                    | 183,185                                 |
| 2646          | 2646     | Pressed and molded pulp goods.....   | 59             | 42                        | 5,720                     | 70,006                                  |
| 2647          | ----     | Sanitary paper products.....         | 119            | 77                        | 19,108                    | 369,711                                 |
| 2649*         | 2649*    | Paper and board products, n.e.c..... | 119            | 77                        | 19,108                    | 369,711                                 |
| 2649          | ----     | Converted paper products, n.e.c..... | 610            | 239                       | 29,514                    | 302,546                                 |
| 2649*         | 2649*    | Paper and board products, n.e.c..... | 610            | 239                       | 29,514                    | 302,546                                 |
| 2651          | 2651     | Folding paperboard boxes.....        | 636            | 418                       | 51,291                    | 476,866                                 |
| 2652          | 2652     | Set-up paperboard boxes.....         | 503            | 317                       | 20,459                    | 131,688                                 |
| 2653          | 2653     | Corrugated shipping containers.....  | 923            | 651                       | 83,229                    | 804,012                                 |
| 2654          | 2654     | Sanitary food containers.....        | 186            | 144                       | 32,879                    | 402,211                                 |
| 2655          | 2655     | Fiber cans, tubes, drums, etc.....   | 246            | 137                       | 13,188                    | 126,196                                 |
| 2661          | ----     | Building paper and board mills.....  | 83             | 77                        | 11,874                    | 153,103                                 |
| 2661*         | 2661*    | Building paper and board mills.....  | 83             | 77                        | 11,874                    | 153,103                                 |
| 2711          | 2711     | Newspapers.....                      | 8,331          | 1,865                     | 306,439                   | 3,201,872                               |
| 2721          | 2721     | Periodicals.....                     | 2,630          | 402                       | 67,730                    | 1,349,030                               |
| 2731          | 2731     | Books, publishing and printing.....  | 993            | 256                       | 46,812                    | 995,736                                 |
| 2732          | 2732     | Book printing.....                   | 683            | 275                       | 36,101                    | 358,294                                 |
| 2741          | 2741     | Miscellaneous publishing.....        | 1,374          | 177                       | 22,551                    | 252,932                                 |
| 2751          | 2751     | Printing, except lithographic.....   | 12,109         | 1,404                     | 170,215                   | 1,578,275                               |
| 2752          | 2752     | Printing, lithographic.....          | 6,822          | 1,339                     | 121,072                   | 1,302,046                               |
| 2753          | 2753     | Engraving and plate printing.....    | 580            | 105                       | 9,022                     | 80,748                                  |
| 2761          | 2761     | Manifold business forms.....         | 502            | 250                       | 28,796                    | 377,710                                 |
| 2771          | 2771     | Greeting card manufacturing.....     | 257            | 93                        | 21,535                    | 204,608                                 |

\*Represents part of the specified industry. (NA) Not available.



## Composition of Industries in the 1963 SIC--Continued

### Part 1. Derivation of 1963 SIC Industries from 1958 SIC Industries--Continued

| Industry code |          | Industry title                          | Establishments    |                                       | All employees<br>(number) | Value added by manufacture<br>(\$1,000) |
|---------------|----------|---|-------------------|---------------------------------------|---------------------------|---|
| 1963 SIC      | 1958 SIC |   | Total<br>(number) | With 20 employees or more<br>(number) |                           |   |
| 2782          | 2782     | Blank books; looseleaf binders.....     | 410               | 158                                   | 17,899                    | 168,465                                 |
| 2789          | 2789     | Bookbinding and related work.....       | 1,043             | 311                                   | 24,338                    | 172,298                                 |
| 2791          | 2791     | Typesetting.....                        | 1,289             | 282                                   | 20,997                    | 205,450                                 |
| 2793          | 2793     | Photoengraving.....                     | 883               | 218                                   | 14,620                    | 171,796                                 |
| 2794          | 2794     | Electrotyping and stereotyping.....     | 184               | 80                                    | 5,116                     | 57,173                                  |
| 2812          | 2812     | Alkalies and chlorine.....              | 38                | 37                                    | 19,652                    | 389,243                                 |
| 2813          | 2813     | Industrial gases.....                   | 456               | 146                                   | 9,809                     | 260,182                                 |
| 2814          | 2814     | Cyclic (coal tar) crudes.....           | 36                | 17                                    | 1,636                     | 35,103                                  |
| 2815          | 2815     | Intermediate coal tar products.....     | 141               | 84                                    | 26,089                    | 570,234                                 |
| 2816          | 2816     | Inorganic pigments.....                 | 96                | 49                                    | 11,544                    | 286,407                                 |
| 2818          | 2818     | Organic chemicals, n.e.c.....           | 464               | 241                                   | 85,492                    | 2,727,450                               |
| 2819          | 2819     | Inorganic chemicals, n.e.c.....         | 674               | 323                                   | 82,430                    | 1,902,563                               |
| 2821          | 2821     | Plastics materials and resins.....      | 509               | 256                                   | 61,366                    | 1,202,349                               |
| 2822          | 2822     | Synthetic rubber.....                   | 24                | 24                                    | 11,840                    | 329,520                                 |
| 2823          | 2823     | Cellulosic man-made fibers.....         | 19                | 19                                    | 30,086                    | 411,529                                 |
| 2824          | 2824     | Organic fibers, noncellulosic.....      | 25                | 24                                    | 41,421                    | 922,001                                 |
| 2831          | 2831     | Biological products.....                | 113               | 40                                    | 5,789                     | 60,377                                  |
| 2833          | 2833     | Medicinals and botanicals.....          | 138               | 42                                    | 8,128                     | 151,297                                 |
| 2834          | 2834     | Pharmaceutical preparations.....        | 1,011             | 319                                   | 85,084                    | 2,595,657                               |
| 2841          | 2841     | Soap and other detergents.....          | 704               | 172                                   | 30,794                    | 1,137,425                               |
| 2842          | 2842     | Polishes and sanitation goods.....      | 1,101             | 173                                   | 16,332                    | 420,440                                 |
| 2843          | 2843     | Surface active agents.....              | 148               | 59                                    | 4,108                     | 75,698                                  |
| 2844          | 2844     | Toilet preparations.....                | 707               | 183                                   | 34,338                    | 1,232,883                               |
| 2851          | ----     | Paints and allied products.....         | 1,788             | 654                                   | 61,267                    | 1,111,681                               |
|               | 2851     | Paints and varnishes.....               | 1,788             | 654                                   | 61,267                    | 1,111,681                               |
|               | 2852     | Putty and caulking compounds.....       |                   |                                       |                           |   |
| 2861          | 2861     | Gum and wood chemicals.....             | 246               | 53                                    | 6,787                     | 100,329                                 |
| 2871          | 2871     | Fertilizers.....                        | 281               | 199                                   | 19,992                    | 287,800                                 |
| 2872          | 2872     | Fertilizers, mixing only.....           | 733               | 232                                   | 13,752                    | 164,140                                 |
| 2879          | ----     | Agricultural chemicals, n.e.c.....      | 340               | 112                                   | 9,090                     | 176,333                                 |
|               | 2873     | Agricultural pesticides.....            | 340               | 112                                   | 9,090                     | 176,333                                 |
|               | 2879     | Agricultural chemicals, n.e.c.....      |                   |                                       |                           |   |
| 2891          | 2891     | Glue and gelatin.....                   | 368               | 104                                   | 8,521                     | 147,006                                 |
| 2892          | 2892     | Explosives.....                         | 68                | 47                                    | 14,814                    | 165,733                                 |
| 2893          | 2893     | Printing ink.....                       | 348               | 103                                   | 8,455                     | 125,138                                 |
| 2895          | 2895     | Carbon black.....                       | 33                | 31                                    | 3,010                     | 91,752                                  |
| 2899          | ----     | Chemical preparations, n.e.c.....       | 1,384             | 242                                   | 25,788                    | 505,868                                 |
|               | 2894     | Fatty acids.....                        | 12                | (NA)                                  | 1,711                     | 36,473                                  |
|               | 2899     | Chemical preparations, n.e.c.....       | 1,372             | (NA)                                  | 24,077                    | 469,395                                 |
| 2911          | 2911     | Petroleum refining.....                 | 427               | 297                                   | 119,297                   | 3,137,603                               |
| 2951          | 2951     | Paving mixtures and blocks.....         | 762               | 127                                   | 9,680                     | 165,584                                 |
| 2952          | 2952     | Asphalt felts and coatings.....         | 230               | 140                                   | 14,581                    | 189,981                                 |
| 2992          | 2992     | Lubricating oils and greases.....       | 353               | 108                                   | 8,433                     | 199,074                                 |
| 2999          | 2999     | Petroleum and coal products, n.e.c..... | 67                | 17                                    | 1,495                     | 20,989                                  |
| 3011          | 3011     | Tires and inner tubes.....              | 155               | 96                                    | 85,259                    | 1,321,712                               |
| 3021          | 3021     | Rubber footwear.....                    | 53                | 46                                    | 29,147                    | 216,959                                 |
| 3031          | 3031     | Reclaimed rubber.....                   | 13                | 13                                    | 2,010                     | 27,378                                  |
| 3069          | 3069     | Rubber products, n.e.c.....             | 1,173             | 620                                   | 132,228                   | 1,427,022                               |
| 3079          | 3079     | Plastic products, n.e.c.....            | 4,334             | 1,674                                 | 166,315                   | 1,660,882                               |
| 3111          | 3111     | Leather tanning and finishing.....      | 525               | 256                                   | 31,417                    | 273,092                                 |
| 3121          | 3121     | Industrial leather belting.....         | 83                | 23                                    | 2,870                     | 32,915                                  |
| 3131          | 3131     | Footwear cut stock.....                 | 446               | 204                                   | 14,339                    | 90,611                                  |
| 3141          | 3141     | Shoes, except rubber.....               | 1,040             | 815                                   | 201,728                   | 1,214,740                               |
| 3142          | 3142     | House slippers.....                     | 153               | 97                                    | 11,039                    | 64,555                                  |
| 3151          | 3151     | Leather gloves.....                     | 166               | 87                                    | 7,718                     | 32,194                                  |
| 3161          | 3161     | Luggage.....                            | 379               | 145                                   | 16,409                    | 112,796                                 |
| 3171          | 3171     | Handbags and purses.....                | 545               | 262                                   | 24,548                    | 142,554                                 |
| 3172          | 3172     | Small leather goods.....                | 340               | 117                                   | 12,432                    | 82,385                                  |
| 3199          | 3199     | Leather goods, n.e.c.....               | 370               | 67                                    | 4,989                     | 32,730                                  |

\*Represents part of the specified industry. (NA) Not available.

## Composition of Industries in the 1963 SIC--Continued

### Part 1. Derivation of 1963 SIC Industries from 1958 SIC Industries--Continued

| Industry code |          | Industry title                        | Establishments    |                                       | All employees<br>(number) | Value added by manufacture<br>(\$1,000) |
|---------------|----------|---------------------------------------|-------------------|---------------------------------------|---------------------------|---|
| 1963 SIC      | 1958 SIC |                                       | Total<br>(number) | With 20 employees or more<br>(number) |                           |   |
| 3211          | 3211     | Flat glass.....                       | 31                | 30                                    | 22,815                    | 364,466                                 |
| 3221          | 3221     | Glass containers.....                 | 113               | 105                                   | 59,987                    | 629,608                                 |
| 3229          | 3229     | Pressed and blown glass, n.e.c.....   | 107               | 95                                    | 37,999                    | 472,212                                 |
| 3231          | 3231     | Products of purchased glass.....      | 1,044             | 249                                   | 26,158                    | 309,734                                 |
| 3241          | 3241     | Cement, hydraulic.....                | 188               | 179                                   | 34,863                    | 785,681                                 |
| 3251          | 3251     | Brick and structural tile.....        | 512               | 400                                   | 28,620                    | 216,548                                 |
| 3253          | 3253     | Ceramic wall and floor tile.....      | 90                | 64                                    | 12,795                    | 110,571                                 |
| 3255          | 3255     | Clay refractories.....                | 150               | 109                                   | 11,431                    | 118,248                                 |
| 3259          | 3259     | Structural clay products, n.e.c.....  | 164               | 108                                   | 12,188                    | 108,442                                 |
| 3261          | 3261     | Vitreous plumbing fixtures.....       | 49                | 43                                    | 9,280                     | 101,502                                 |
| 3262          | 3262     | Vitreous china food utensils.....     | 31                | 21                                    | 6,314                     | 42,504                                  |
| 3263          | 3263     | Fine earthenware food utensils.....   | 21                | 18                                    | 7,349                     | 41,046                                  |
| 3264          | 3264     | Porcelain electrical supplies.....    | 79                | 49                                    | 10,170                    | 90,001                                  |
| 3269          | 3269     | Pottery products, n.e.c.....          | 458               | 98                                    | 9,085                     | 62,107                                  |
| 3271          | 3271     | Concrete block and brick.....         | 1,841             | 367                                   | 23,759                    | 245,525                                 |
| 3272          | 3272     | Other concrete products.....          | 3,451             | 716                                   | 52,297                    | 539,967                                 |
| 3273          | 3273     | Ready mixed concrete.....             | 4,621             | 1,021                                 | 71,523                    | 981,997                                 |
| 3274          | 3274     | Lime.....                             | 125               | 68                                    | 6,778                     | 95,135                                  |
| 3275          | 3275     | Gypsum products.....                  | 122               | 72                                    | 11,491                    | 259,659                                 |
| 3281          | 3281     | Cut stone and stone products.....     | 893               | 211                                   | 18,340                    | 131,465                                 |
| 3291          | 3291     | Abrasive products.....                | 378               | 149                                   | 28,170                    | 416,415                                 |
| 3292          | 3292     | Asbestos products.....                | 124               | 84                                    | 19,516                    | 269,067                                 |
| 3293          | 3293     | Gaskets and insulations.....          | 295               | 111                                   | 16,825                    | 160,734                                 |
| 3295          | 3295     | Minerals, ground or treated.....      | 415               | 97                                    | 7,330                     | 102,079                                 |
| 3296          | 3296     | Mineral wool.....                     | 123               | 67                                    | 14,733                    | 206,846                                 |
| 3297          | 3297     | Nonclay refractories.....             | 93                | 68                                    | 8,572                     | 129,139                                 |
| 3299          | 3299     | Nonmetallic products, n.e.c.....      | 320               | 56                                    | 5,471                     | 53,289                                  |
| 3312          | 3312     | Blast furnaces and steel mills.....   | 288               | 247                                   | 500,550                   | 7,506,433                               |
| 3313          | 3313     | Electrometallurgical products.....    | 36                | 30                                    | 10,437                    | 145,503                                 |
| 3315          | 3315     | Steel wire drawing, etc.....          | 200               | 133                                   | 21,280                    | 253,009                                 |
| 3316          | 3316     | Cold finishing of steel shapes.....   | 81                | 68                                    | 13,700                    | 223,977                                 |
| 3317          | 3317     | Steel pipe and tube.....              | 141               | 115                                   | 22,882                    | 295,242                                 |
| 3321          | 3321     | Gray iron foundries.....              | 1,139             | 767                                   | 120,528                   | 1,168,478                               |
| 3322          | 3322     | Malleable iron foundries.....         | 81                | 71                                    | 22,297                    | 204,557                                 |
| 3323          | 3323     | Steel foundries.....                  | 267               | 220                                   | 56,810                    | 586,914                                 |
| 3331          | 3331     | Primary copper.....                   | 33                | 33                                    | 14,949                    | 285,510                                 |
| 3332          | 3332     | Primary lead.....                     | 10                | 10                                    | 2,578                     | 24,876                                  |
| 3333          | 3333     | Primary zinc.....                     | 18                | 18                                    | 8,065                     | 98,789                                  |
| 3334          | 3334     | Primary aluminum.....                 | 23                | 22                                    | 18,133                    | 499,576                                 |
| 3339          | 3339     | Primary nonferrous metals, n.e.c..... | 35                | 26                                    | 5,064                     | 103,830                                 |
| 3341          | 3341     | Secondary nonferrous metals.....      | 459               | 179                                   | 15,445                    | 228,190                                 |
| 3351          | 3351     | Copper rolling and drawing.....       | 112               | 92                                    | 38,949                    | 478,393                                 |
| 3352          | 3352     | Aluminum rolling and drawing.....     | 212               | 153                                   | 54,263                    | 721,171                                 |
| 3356          | 3356     | Rolling and drawing, n.e.c.....       | 125               | 67                                    | 17,375                    | 250,589                                 |
| 3357          | 3357     | Nonferrous wire drawing, etc.....     | 299               | 227                                   | 56,418                    | 677,535                                 |
| 3361          | 3361     | Aluminum castings.....                | 954               | 321                                   | 36,216                    | 343,863                                 |
| 3362          | 3362     | Brass, bronze, copper castings.....   | 549               | 193                                   | 15,341                    | 144,092                                 |
| 3369          | 3369     | Nonferrous castings, n.e.c.....       | 391               | 165                                   | 17,686                    | 168,530                                 |
| 3391          | 3391     | Iron and steel forgings.....          | 272               | 189                                   | 36,317                    | 395,302                                 |
| 3392          | 3392     | Nonferrous forgings.....              | 34                | 19                                    | 6,297                     | 71,378                                  |
| 3399          | 3399     | Primary metal industries, n.e.c.....  | 754               | 218                                   | 14,956                    | 192,250                                 |
| 3411          | 3411     | Metal cans.....                       | 270               | 206                                   | 53,245                    | 830,515                                 |
| 3421          | 3421     | Cutlery.....                          | 161               | 67                                    | 11,837                    | 213,998                                 |
| 3423          | 3423     | Hand and edge tools.....              | 716               | 255                                   | 31,480                    | 364,265                                 |
| 3425          | 3425     | Hand saws and saw blades.....         | 76                | 42                                    | 5,095                     | 65,634                                  |
| 3429          | 3429     | Hardware, n.e.c.....                  | 1,070             | 447                                   | 88,729                    | 1,069,080                               |
| 3431          | 3431     | Metal plumbing fixtures.....          | 81                | 45                                    | 11,011                    | 139,859                                 |

\*Represents part of the specified industry. (NA) Not available.



## Composition of Industries in the 1963 SIC--Continued

### Part 1. Derivation of 1963 SIC Industries from 1958 SIC Industries--Continued

| Industry code |          | Industry title                          | Establishments    |                                       | All employees<br>(number) | Value added by manufacture<br>(\$1,000) |
|---------------|----------|---|-------------------|---------------------------------------|---------------------------|---|
| 1963 SIC      | 1958 SIC |   | Total<br>(number) | With 20 employees or more<br>(number) |                           |   |
| 3432          | 3432     | Plumbing fittings, brass goods.....     | 250               | 102                                   | 15,129                    | 154,752                                 |
| 3433          | 3433     | Heating equipment, except electric..... | 648               | 280                                   | 42,020                    | 495,652                                 |
| 3441          | 3441     | Fabricated structural steel.....        | 1,718             | 817                                   | 85,423                    | 814,805                                 |
| 3442          | 3442     | Metal doors, sash, and trim.....        | 1,817             | 628                                   | 62,799                    | 570,370                                 |
| 3443          | 3443     | Boiler shop products.....               | 1,383             | 601                                   | 75,018                    | 770,064                                 |
| 3444          | 3444     | Sheet metal work.....                   | 3,250             | 755                                   | 61,651                    | 632,384                                 |
| 3446          | ----     | Architectural metal work.....           | 1,334             | 173                                   | 15,587                    | 148,763                                 |
|               | 3449*    | Miscellaneous metal work, n.e.c.....    | 1,334             | 173                                   | 15,587                    | 148,763                                 |
| 3449          | ----     | Miscellaneous metal work, n.e.c.....    | 697               | 246                                   | 24,992                    | 283,427                                 |
|               | 3449*    | Miscellaneous metal work, n.e.c.....    | 697               | 246                                   | 24,992                    | 283,427                                 |
| 3451          | 3451     | Screw machine products.....             | 1,874             | 516                                   | 36,909                    | 358,961                                 |
| 3452          | 3452     | Bolts, nuts, rivets and washers.....    | 573               | 323                                   | 57,618                    | 695,276                                 |
| 3461          | 3461     | Metal stampings.....                    | 2,574             | 1,116                                 | 132,179                   | 1,368,993                               |
| 3471          | 3471     | Plating and polishing.....              | 3,023             | 677                                   | 44,962                    | 370,202                                 |
| 3479          | 3479     | Metal coating, engraving, etc.....      | 1,258             | 276                                   | 20,669                    | 184,546                                 |
| 3481          | 3481     | Fabricated wire products, n.e.c.....    | 1,567             | 557                                   | 55,514                    | 539,137                                 |
| 3491          | 3491     | Metal barrels, drums, and pails.....    | 145               | 93                                    | 10,508                    | 119,617                                 |
| 3492          | 3492     | Safes and vaults.....                   | 32                | 15                                    | 3,346                     | 56,223                                  |
| 3493          | 3493     | Steel springs.....                      | 96                | 49                                    | 6,287                     | 69,305                                  |
| 3494          | 3494     | Valves and pipe fittings.....           | 646               | 374                                   | 80,407                    | 942,700                                 |
| 3496          | 3496     | Collapsible tubes.....                  | 24                | 19                                    | 3,984                     | 30,562                                  |
| 3497          | 3497     | Metal foil and leaf.....                | 67                | 40                                    | 4,981                     | 63,486                                  |
| 3498          | 3498     | Fabricated pipe and fittings.....       | 349               | 146                                   | 13,007                    | 144,598                                 |
| 3499          | 3499     | Fabricated metal products, n.e.c.....   | 1,277             | 346                                   | 28,302                    | 299,326                                 |
| 3511          | 3511     | Steam engines and turbines.....         | 22                | 21                                    | 30,917                    | 379,875                                 |
| 3519          | 3519     | Internal combustion engines.....        | 143               | 81                                    | 55,687                    | 733,628                                 |
| 3522          | 3522     | Farm machinery and equipment.....       | 1,568             | 558                                   | 112,614                   | 1,328,381                               |
| 3531          | 3531     | Construction machinery.....             | 617               | 305                                   | 104,520                   | 1,301,266                               |
| 3532          | 3532     | Mining machinery and equipment.....     | 204               | 93                                    | 16,910                    | 215,406                                 |
| 3533          | 3533     | Oilfield machinery.....                 | 408               | 176                                   | 29,203                    | 398,152                                 |
| 3534          | 3534     | Elevators and moving stairways.....     | 142               | 74                                    | 12,393                    | 201,527                                 |
| 3535          | 3535     | Conveyors.....                          | 454               | 175                                   | 20,778                    | 270,475                                 |
| 3536          | 3536     | Hoists, cranes, and monorails.....      | 120               | 56                                    | 9,585                     | 112,327                                 |
| 3537          | 3537     | Industrial trucks and tractors.....     | 314               | 108                                   | 17,570                    | 233,116                                 |
| 3541          | 3541     | Metal-cutting machine tools.....        | 801               | 269                                   | 61,058                    | 699,341                                 |
| 3542          | 3542     | Metal-forming machine tools.....        | 366               | 146                                   | 22,078                    | 281,287                                 |
| 3544          | 3544     | Special dies and tools.....             | 5,896             | 1,133                                 | 90,860                    | 1,029,338                               |
| 3545          | 3545     | Machine tool accessories.....           | 1,038             | 347                                   | 46,994                    | 559,258                                 |
| 3548          | 3548     | Metalworking machinery, n.e.c.....      | 435               | 168                                   | 38,012                    | 468,435                                 |
| 3551          | 3551     | Food products machinery.....            | 681               | 279                                   | 31,684                    | 380,406                                 |
| 3552          | 3552     | Textile machinery.....                  | 561               | 216                                   | 36,004                    | 314,190                                 |
| 3553          | 3553     | Woodworking machinery.....              | 249               | 91                                    | 12,057                    | 146,998                                 |
| 3554          | 3554     | Paper industries machinery.....         | 217               | 92                                    | 18,605                    | 217,475                                 |
| 3555          | 3555     | Printing trades machinery.....          | 490               | 136                                   | 22,952                    | 285,879                                 |
| 3559          | 3559     | Special industry machinery, n.e.c.....  | 1,091             | 387                                   | 49,950                    | 561,768                                 |
| 3561          | 3561     | Pumps and compressors.....              | 642               | 267                                   | 61,322                    | 768,787                                 |
| 3562          | 3562     | Ball and roller bearings.....           | 125               | 93                                    | 52,316                    | 627,694                                 |
| 3564          | 3564     | Blowers and fans.....                   | 237               | 97                                    | 15,244                    | 180,801                                 |
| 3565          | 3565     | Industrial patterns.....                | 1,209             | 106                                   | 9,914                     | 112,587                                 |
| 3566          | 3566     | Power transmission equipment.....       | 532               | 272                                   | 46,670                    | 555,710                                 |
| 3567          | 3567     | Industrial furnaces and ovens.....      | 239               | 94                                    | 12,394                    | 153,477                                 |
| 3569          | 3569     | General industry machines, n.e.c.....   | 777               | 277                                   | 35,559                    | 424,084                                 |
| 3571          | 3571     | Computing and related machines.....     | 248               | 139                                   | 96,370                    | 1,101,484                               |
| 3572          | 3572     | Typewriters.....                        | 21                | 16                                    | 18,023                    | 243,190                                 |
| 3576          | 3576     | Scales and balances.....                | 85                | 35                                    | 5,765                     | 64,362                                  |
| 3579          | 3579     | Office machines, n.e.c.....             | 161               | 75                                    | 16,980                    | 224,654                                 |
| 3581          | 3581     | Automatic vending machines.....         | 158               | 68                                    | 11,672                    | 121,365                                 |
| 3582          | 3582     | Commercial laundry equipment.....       | 115               | 58                                    | 6,542                     | 70,771                                  |
| 3585          | 3585     | Refrigeration machinery.....            | 698               | 347                                   | 72,330                    | 892,686                                 |
| 3586          | 3586     | Measuring and dispensing pumps.....     | 43                | 27                                    | 6,768                     | 91,713                                  |

\*Represents part of the specified industry. (NA) Not available.

## Composition of Industries in the 1963 SIC--Continued

### Part 1. Derivation of 1963 SIC Industries from 1958 SIC Industries--Continued

| Industry code |          | Industry title                         | Establishments    |                                       | All employees<br>(number) | Value added by manufacture<br>(\$1,000) |
|---------------|----------|--|-------------------|---------------------------------------|---------------------------|---|
| 1963 SIC      | 1958 SIC |  | Total<br>(number) | With 20 employees or more<br>(number) |                           |   |
| 3589          | ----     | Service industry machines, n.e.c.....  | 506               | 142                                   | 15,257                    | 192,379                                 |
|               | 3584     | Vacuum cleaners, industrial.....       | 506               | 142                                   | 15,257                    | 192,379                                 |
|               | 3589     | Service industry machines, n.e.c.....  |                   |                                       |                           |   |
| 3599          | 3599     | Miscellaneous machinery.....           | 12,090            | 1,402                                 | 135,820                   | 1,366,327                               |
| 3611          | 3611     | Electric measuring instruments.....    | 560               | 209                                   | 44,715                    | 505,309                                 |
| 3612          | 3612     | Transformers.....                      | 177               | 99                                    | 33,365                    | 381,514                                 |
| 3613          | 3613     | Switchgear and switchboards.....       | 400               | 214                                   | 54,045                    | 647,838                                 |
| 3621          | 3621     | Motors and generators.....             | 384               | 244                                   | 94,170                    | 993,207                                 |
| 3622          | 3622     | Industrial controls.....               | 339               | 108                                   | 32,990                    | 450,507                                 |
| 3623          | 3623     | Electric welding apparatus.....        | 149               | 75                                    | 9,629                     | 162,411                                 |
| 3624          | 3624     | Carbon and graphite products.....      | 53                | 40                                    | 10,123                    | 141,423                                 |
| 3629          | 3629     | Electric industrial goods, n.e.c.....  | 231               | 109                                   | 14,041                    | 141,633                                 |
| 3631          | 3631     | Household cooking equipment.....       | 83                | 53                                    | 19,191                    | 230,285                                 |
| 3632          | 3632     | Household refrigerators.....           | 34                | 25                                    | 43,065                    | 631,269                                 |
| 3633          | 3633     | Household laundry equipment.....       | 39                | 28                                    | 18,343                    | 353,863                                 |
| 3634          | 3634     | Electric housewares and fans.....      | 312               | 136                                   | 38,801                    | 463,845                                 |
| 3635          | 3635     | Household vacuum cleaners.....         | 34                | 13                                    | 5,682                     | 116,137                                 |
| 3636          | 3636     | Sewing machines.....                   | 86                | 17                                    | 7,646                     | 98,328                                  |
| 3639          | 3639     | Household appliances, n.e.c.....       | 112               | 67                                    | 13,127                    | 204,188                                 |
| 3641          | 3641     | Electric lamps.....                    | 81                | 50                                    | 23,404                    | 362,235                                 |
| 3642          | 3642     | Lighting fixtures.....                 | 1,239             | 480                                   | 53,866                    | 587,834                                 |
| 3643          | 3643     | Current carrying devices.....          | 449               | 180                                   | 35,424                    | 355,643                                 |
| 3644          | 3644     | Noncurrent carrying devices.....       | 182               | 103                                   | 20,290                    | 253,918                                 |
| 3651          | 3651     | Radio and TV receiving sets.....       | 348               | 178                                   | 81,264                    | 911,954                                 |
| 3652          | 3652     | Phonograph records.....                | 167               | 60                                    | 9,554                     | 125,388                                 |
| 3661          | 3661     | Telephone; telegraph apparatus.....    | 90                | 56                                    | 89,465                    | 1,013,792                               |
| 3662          | 3662     | Radio, TV communication equipment..... | 1,132             | 635                                   | 387,384                   | 4,327,671                               |
| 3671          | 3671     | Electron tubes, receiving type.....    | 42                | 22                                    | 25,850                    | 250,681                                 |
| 3672          | 3672     | Cathode ray picture tubes.....         | 151               | 28                                    | 10,916                    | 128,354                                 |
| 3673          | 3673     | Electron tubes, transmitting.....      | 57                | 45                                    | 18,704                    | 204,614                                 |
| 3674          | ----     | Semiconductors.....                    | 107               | 87                                    | 56,349                    | 467,035                                 |
|               | 3679*    | Electronic components, n.e.c.....      | 107               | 87                                    | 56,349                    | 467,035                                 |
| 3679          | ----     | Electronic components, n.e.c.....      | 1,934             | 968                                   | 176,708                   | 1,457,433                               |
|               | 3679*    | Electronic components, n.e.c.....      | 1,934             | 968                                   | 176,708                   | 1,457,433                               |
| 3691          | 3691     | Storage batteries.....                 | 252               | 120                                   | 17,512                    | 244,152                                 |
| 3692          | 3692     | Primary batteries, dry and wet.....    | 46                | 29                                    | 8,478                     | 113,787                                 |
| 3693          | 3693     | X-ray apparatus and tubes.....         | 58                | 30                                    | 6,236                     | 86,534                                  |
| 3694          | 3694     | Engine electrical equipment.....       | 182               | 98                                    | 40,559                    | 496,662                                 |
| 3699          | 3699     | Electrical products, n.e.c.....        | 350               | 106                                   | 10,923                    | 101,221                                 |
| 3713          | 3713     | Truck and bus bodies.....              | 610               | 208                                   | 24,466                    | 229,472                                 |
| 3715          | 3715     | Truck trailers.....                    | 197               | 105                                   | 19,429                    | 205,475                                 |
| 3717          | 3717     | Motor vehicles and parts.....          | 1,958             | 909                                   | 649,926                   | 12,345,630                              |
| 3721          | 3721     | Aircraft.....                          | 100               | 65                                    | 302,201                   | 3,542,695                               |
| 3722          | 3722     | Aircraft engines and parts.....        | 232               | 172                                   | 190,834                   | 2,244,317                               |
| 3723          | 3723     | Aircraft propellers and parts.....     | 14                | 8                                     | 11,183                    | 113,433                                 |
| 3729          | 3729     | Aircraft equipment, n.e.c.....         | 1,000             | 470                                   | 175,167                   | 1,966,904                               |
| 3731          | 3731     | Ship building and repairing.....       | 334               | 200                                   | 114,649                   | 1,009,690                               |
| 3732          | 3732     | Boat building and repairing.....       | 1,626             | 268                                   | 24,861                    | 183,059                                 |
| 3741          | 3741     | Locomotives and parts.....             | 24                | 12                                    | 14,337                    | 186,241                                 |
| 3742          | 3742     | Railroad and street cars.....          | 78                | 58                                    | 30,742                    | 355,230                                 |
| 3751          | 3751     | Motorcycles, bicycles, and parts.....  | 88                | 33                                    | 9,662                     | 82,245                                  |
| 3791          | 3791     | Trailer coaches.....                   | 413               | 252                                   | 25,669                    | 232,460                                 |
| 3799          | 3799     | Transportation equipment, n.e.c.....   | 522               | 108                                   | 8,032                     | 68,823                                  |
| 3811          | 3811     | Scientific instruments.....            | 594               | 213                                   | 33,084                    | 358,588                                 |
| 3821          | 3821     | Mechanical measuring devices.....      | 670               | 258                                   | 62,353                    | 732,529                                 |
| 3822          | 3822     | Automatic temperature controls.....    | 104               | 54                                    | 31,685                    | 379,091                                 |
| 3831          | 3831     | Optical instruments and lenses.....    | 280               | 79                                    | 11,924                    | 131,917                                 |
| 3841          | 3841     | Surgical and medical instruments.....  | 294               | 117                                   | 15,145                    | 168,556                                 |

\*Represents part of the specified industry. (NA) Not available.



## Composition of Industries in the 1963 SIC--Continued

### Part 1. Derivation of 1963 SIC Industries from 1958 SIC Industries--Continued

| Industry code |          | Industry title                           | Establishments    |                                       | All employees<br>(number) | Value added by manufacture<br>(\$1,000) |
|---------------|----------|--|-------------------|---------------------------------------|---------------------------|---|
| 1963 SIC      | 1958 SIC |  | Total<br>(number) | With 20 employees or more<br>(number) |                           |   |
| 3842          | 3842     | Surgical appliances and supplies.....    | 704               | 162                                   | 28,267                    | 370,273                                 |
| 3843          | 3843     | Dental equipment and supplies.....       | 316               | 66                                    | 8,008                     | 95,876                                  |
| 3851          | 3851     | Ophthalmic goods.....                    | 229               | 109                                   | 20,296                    | 177,898                                 |
| 3861          | 3861     | Photographic equipment.....              | 538               | 187                                   | 64,937                    | 1,270,132                               |
| 3871          | 3871     | Watches and clocks.....                  | 167               | 76                                    | 27,047                    | 288,053                                 |
| 3872          | 3872     | Watchcases.....                          | 53                | 22                                    | 2,706                     | 19,218                                  |
| 3911          | 3911     | Jewelry, precious metal.....             | 1,438             | 218                                   | 23,551                    | 234,925                                 |
| 3912          | 3912     | Jewelers' findings and materials.....    | 228               | 67                                    | 4,816                     | 33,958                                  |
| 3913          | 3913     | Lapidary work.....                       | 318               | 15                                    | 1,535                     | 16,129                                  |
| 3914          | 3914     | Silverware and plated ware.....          | 209               | 87                                    | 13,249                    | 130,735                                 |
| 3931          | 3931     | Musical instruments and parts.....       | 320               | 126                                   | 20,095                    | 179,035                                 |
| 3941          | 3941     | Games and toys.....                      | 797               | 351                                   | 51,835                    | 444,101                                 |
| 3942          | 3942     | Dolls.....                               | 410               | 160                                   | 16,213                    | 138,100                                 |
| 3943          | 3943     | Children's vehicles.....                 | 64                | 31                                    | 4,542                     | 35,304                                  |
| 3949          | 3949     | Sporting and athletic goods.....         | 1,419             | 345                                   | 40,543                    | 360,980                                 |
| 3951          | 3951     | Pens and mechanical pencils.....         | 139               | 67                                    | 11,562                    | 119,069                                 |
| 3952          | 3952     | Lead pencils and art goods.....          | 144               | 57                                    | 6,868                     | 64,731                                  |
| 3953          | 3953     | Marking devices.....                     | 616               | 90                                    | 7,625                     | 85,572                                  |
| 3955          | 3955     | Carbon paper and inked ribbons.....      | 102               | 52                                    | 5,539                     | 68,353                                  |
| 3961          | 3961     | Costume jewelry.....                     | 912               | 204                                   | 21,655                    | 150,999                                 |
| 3962          | 3962     | Artificial flowers.....                  | 384               | 70                                    | 4,958                     | 29,194                                  |
| 3963          | 3963     | Buttons.....                             | 290               | 69                                    | 5,599                     | 43,751                                  |
| 3964          | 3964     | Needles, pins, and fasteners.....        | 343               | 149                                   | 20,271                    | 190,868                                 |
| 3981          | 3981     | Brooms and brushes.....                  | 643               | 167                                   | 16,637                    | 167,866                                 |
| 3982          | 3982     | Hard surface floor coverings.....        | 16                | 13                                    | 6,192                     | 118,832                                 |
| 3983          | 3983     | Matches.....                             | 26                | 23                                    | 4,647                     | 38,666                                  |
| 3984          | 3984     | Candles.....                             | 111               | 32                                    | 3,167                     | 26,306                                  |
| 3987          | 3987     | Lamp shades.....                         | 228               | 48                                    | 3,583                     | 20,476                                  |
| 3988          | 3988     | Morticians' goods.....                   | 617               | 224                                   | 17,283                    | 158,422                                 |
| 3992          | 3992     | Furs, dressed and dyed.....              | 132               | 26                                    | 2,577                     | 30,240                                  |
| 3993          | 3993     | Signs and advertising displays.....      | 3,206             | 570                                   | 43,476                    | 407,478                                 |
| 3995          | 3995     | Umbrellas, parasols, and canes.....      | 112               | 35                                    | 2,604                     | 16,101                                  |
| 3999          | 3999     | Miscellaneous products, n.e.c.....       | 1,499             | 322                                   | 30,138                    | 252,170                                 |
| 1911          | 1911     | Guns, howitzers, and mortars.....        | 60                | 37                                    | 24,988                    | 235,211                                 |
| 1999          | 1999     | Ordnance and accessories, n.e.c.....     |                   |                                       |                           |   |
| 1925          | 1925     | Complete guided missiles.....            | 31                | 29                                    | 148,908                   | 1,924,812                               |
| 1929          | ----     | Ammunition, n.e.c.....                   | 44                | 34                                    | 32,578                    | 285,774                                 |
|               | 1921     | Artillery ammunition.....                |                   |                                       |                           |   |
|               | 1922     | Ammunition loading.....                  |                   |                                       |                           |   |
|               | 1929     | Ammunition, n.e.c.....                   |                   |                                       |                           |   |
| 1931          | 1931     | Tanks and tank components.....           | 26                | 19                                    | 11,307                    | 148,369                                 |
| 1941          | 1941     | Sighting and fire control equipment..... | 13                | 8                                     | 9,249                     | 96,281                                  |
| 1951          | 1951     | Small arms, 30mm and under.....          | 52                | 23                                    | 9,995                     | 88,302                                  |
| 1961          | 1961     | Small arms ammunition.....               | 31                | 13                                    | 8,909                     | 103,772                                 |

\*Represents part of the specified industry. (NA) Not available.

## Composition of Industries in the 1963 SIC--Continued

### Part 2. Distribution of 1958 SIC Industries Among 1963 SIC Industries

| Industry code |          | Industry title                        | Establishments    |                                       | All employees<br>(number) | Value added by manufacture<br>(\$1,000) |
|---------------|----------|---------------------------------------|-------------------|---------------------------------------|---------------------------|---|
| 1958 SIC      | 1963 SIC |                                       | Total<br>(number) | With 20 employees or more<br>(number) |                           |   |
| 2011          | 2011     | Meat slaughtering plants.....         | 2,992             | 976                                   | 180,873                   | 1,908,309                               |
| 2013          | 2013     | Meat processing plants.....           | 1,341             | 483                                   | 48,599                    | 563,362                                 |
| 2015          | 2015     | Poultry dressing plants.....          | 967               | 559                                   | 70,104                    | 410,909                                 |
| 2021          | 2021     | Creamery butter.....                  | 766               | 178                                   | 11,992                    | 132,665                                 |
| 2022          | ----     | Natural cheese.....                   | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
|               | 2022*    | Natural and process cheese.....       | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
| 2023          | 2023     | Condensed and evaporated milk.....    | 281               | 166                                   | 12,255                    | 236,250                                 |
| 2024          | 2024     | Ice cream and frozen desserts.....    | 1,081             | 387                                   | 29,143                    | 433,006                                 |
| 2025          | ----     | Special dairy products.....           | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
|               | 2022 *   | Natural and process cheese.....       | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
| 2026          | 2026     | Fluid milk.....                       | 4,619             | 1,948                                 | 185,050                   | 2,203,196                               |
| 2031          | 2031     | Canned and cured seafoods.....        | 405               | 196                                   | 17,271                    | 174,634                                 |
| 2032          | 2032     | Canned specialties.....               | 173               | 77                                    | 25,156                    | 540,835                                 |
| 2033          | 2033     | Canned fruits and vegetables.....     | 1,430             | 836                                   | 102,388                   | 1,029,467                               |
| 2034          | 2034     | Dehydrated foods products.....        | 176               | 80                                    | 9,152                     | 115,795                                 |
| 2035          | 2035     | Pickles, sauces, salad dressings..... | 588               | 184                                   | 19,041                    | 249,397                                 |
| 2036          | 2036     | Fresh or frozen packaged fish.....    | 547               | 255                                   | 20,066                    | 118,451                                 |
| 2037          | 2037     | Frozen fruits and vegetables.....     | 650               | 346                                   | 51,750                    | 550,231                                 |
| 2041          | 2041     | Flour mills.....                      | 618               | 218                                   | 22,405                    | 373,090                                 |
| 2042          | 2042     | Prepared animal feeds.....            | 2,590             | 711                                   | 54,649                    | 983,691                                 |
| 2043          | 2043     | Cereal preparations.....              | 48                | 30                                    | 11,358                    | 365,022                                 |
| 2044          | 2044     | Rice milling.....                     | 74                | 49                                    | 4,256                     | 80,507                                  |
| 2045          | 2045     | Blended and prepared flour.....       | 165               | 60                                    | 7,199                     | 177,826                                 |
| 2046          | 2046     | Wet corn milling.....                 | 60                | 20                                    | 13,236                    | 290,918                                 |
| 2051          | 2051     | Bread and related products.....       | 5,010             | 1,904                                 | 236,984                   | 2,403,782                               |
| 2052          | 2052     | Biscuit, crackers, and cookies.....   | 356               | 208                                   | 43,160                    | 627,040                                 |
| 2061          | 2061     | Raw cane sugar.....                   | 74                | 73                                    | 8,263                     | 135,686                                 |
| 2062          | 2062     | Cane sugar refining.....              | 25                | 25                                    | 12,443                    | 254,418                                 |
| 2063          | 2063     | Beet sugar.....                       | 65                | 62                                    | 11,297                    | 200,698                                 |
| 2071          | 2071     | Confectionery products.....           | 1,211             | 411                                   | 63,643                    | 635,393                                 |
| 2072          | 2072     | Chocolate and cocoa products.....     | 28                | 23                                    | 8,743                     | 184,796                                 |
| 2073          | 2073     | Cheewing gum.....                     | 24                | 17                                    | 5,558                     | 135,848                                 |
| 2082          | 2082     | Malt liquors.....                     | 222               | 180                                   | 62,643                    | 1,286,036                               |
| 2083          | 2083     | Malt.....                             | 42                | 31                                    | 1,925                     | 43,979                                  |
| 2084          | 2084     | Wines and brandy.....                 | 222               | 70                                    | 6,111                     | 137,281                                 |
| 2085          | 2085     | Distilled liquor except brandy.....   | 107               | 89                                    | 18,009                    | 623,736                                 |
| 2086          | 2086     | Bottled and canned soft drinks.....   | 3,905             | 1,530                                 | 106,850                   | 1,233,629                               |
| 2087          | 2087     | Flavorings.....                       | 520               | 97                                    | 9,083                     | 400,173                                 |
| 2091          | 2091     | Cottonseed oil mills.....             | 188               | 153                                   | 8,372                     | 100,815                                 |
| 2092          | 2092     | Soybean oil mills.....                | 102               | 71                                    | 6,478                     | 152,143                                 |
| 2093          | 2093     | Vegetable oil mills, n.e.c.....       | 47                | 22                                    | 1,952                     | 42,692                                  |
| 2094          | ----     | Grease and tallow.....                | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
|               | 2094*    | Animal and marine fats and oils.....  | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
| 2095          | ----     | Animal oils, n.e.c.....               | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
|               | 2094*    | Animal and marine fats and oils.....  | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
| 2096          | 2096     | Shortening and cooking oils.....      | 115               | 86                                    | 13,511                    | 264,501                                 |
| 2097          | 2097     | Manufactured ice.....                 | 1,199             | 135                                   | 10,757                    | 90,204                                  |
| 2098          | 2098     | Macaroni and spaghetti.....           | 221               | 70                                    | 7,270                     | 96,012                                  |
| 2099          | ----     | Food preparations, n.e.c.....         | 2,514             | 680                                   | 71,402                    | 1,466,017                               |
|               | 2095     | Roasted coffee.....                   | 324               | 133                                   | 17,125                    | 616,407                                 |
|               | 2099     | Food preparations, n.e.c.....         | 2,190             | 547                                   | 54,277                    | 849,610                                 |
| 2111          | 2111     | Cigarettes.....                       | 14                | 14                                    | 35,568                    | 1,310,325                               |
| 2121          | 2121     | Cigars.....                           | 193               | 82                                    | 20,731                    | 192,998                                 |
| 2131          | 2131     | Chewing and smoking tobacco.....      | 51                | 25                                    | 4,058                     | 73,975                                  |
| 2141          | 2141     | Tobacco stemming and redrying.....    | 136               | 110                                   | 16,973                    | 103,296                                 |

\*Represents part of the specified industry. (NA) Not available.



## Composition of Industries in the 1963 SIC--Continued

### Part 2. Distribution of 1958 SIC Industries Among 1963 SIC Industries--Continued

| Industry code |          | Industry title                        | Establishments    |                                       | All employees<br>(number) | Value added by manufacture<br>(\$1,000) |
|---------------|----------|---------------------------------------|-------------------|---------------------------------------|---------------------------|---|
| 1958 SIC      | 1963 SIC |                                       | Total<br>(number) | With 20 employees or more<br>(number) |                           |   |
| 2211          | 2211     | Weaving mills, cotton.....            | 407               | 350                                   | 208,993                   | 1,256,753                               |
| 2221          | 2221     | Weaving mills, synthetics.....        | 355               | 300                                   | 88,157                    | 661,535                                 |
| 2231          | 2231     | Weaving, finishing mills, wool.....   | 361               | 249                                   | 47,429                    | 386,622                                 |
| 2241          | 2241     | Narrow fabric mills.....              | 384               | 215                                   | 23,154                    | 172,493                                 |
| 2251          | 2251     | Women's hosiery, except socks.....    | 939               | 606                                   | 94,867                    | 488,511                                 |
| 2252          | 2252     | Hosiery, n.e.c.....                   |                   |                                       |                           |   |
| 2253          | 2253     | Knit outerwear mills.....             | 1,185             | 666                                   | 68,570                    | 463,585                                 |
| 2254          | 2254     | Knit underwear mills.....             | 118               | 104                                   | 28,364                    | 170,709                                 |
| 2256          | 2256     | Knit fabric mills.....                | 518               | 243                                   | 25,046                    | 252,908                                 |
| 2259          | 2259     | Knitting mills, n.e.c.....            | 88                | 45                                    | 3,639                     | 20,309                                  |
| 2261          | 2261     | Finishing plants, cotton.....         | 238               | 140                                   | 42,055                    | 332,290                                 |
| 2262          | 2262     | Finishing plants, synthetic.....      | 205               | 138                                   | 19,528                    | 176,819                                 |
| 2269          | 2269     | Finishing plants, n.e.c.....          | 178               | 85                                    | 9,236                     | 73,159                                  |
| 2271          | 2271     | Woven carpets and rugs.....           | 64                | 31                                    | 13,357                    | 120,004                                 |
| 2272          | 2272     | Tufted carpets and rugs.....          | 181               | 121                                   | 19,854                    | 259,343                                 |
| 2279          | 2279     | Carpets and rugs, n.e.c.....          | 104               | 35                                    | 2,445                     | 15,595                                  |
| 2281          | 2281     | Yarn mills, except wool.....          | 317               | 284                                   | 61,647                    | 363,177                                 |
| 2282          | 2282     | Throwing and winding mills.....       | 180               | 110                                   | 13,559                    | 93,649                                  |
| 2283          | 2283     | Wool yarn mills.....                  | 144               | 121                                   | 17,385                    | 119,718                                 |
| 2284          | 2284     | Thread mills.....                     | 71                | 36                                    | 10,056                    | 75,821                                  |
| 2291          | 2291     | Felt goods, n.e.c.....                | 36                | 30                                    | 4,952                     | 58,625                                  |
| 2292          | 2292     | Lace goods.....                       | 152               | 51                                    | 4,912                     | 31,472                                  |
| 2293          | 2293     | Padding and upholstery filling.....   | 183               | 73                                    | 6,932                     | 65,588                                  |
| 2294          | 2294     | Processed textile waste.....          | 141               | 59                                    | 4,240                     | 30,961                                  |
| 2295          | 2295     | Coated fabric, not rubberized.....    | 161               | 86                                    | 13,475                    | 177,307                                 |
| 2296          | 2296     | Tire cord and fabric.....             | 20                | 19                                    | 9,163                     | 72,267                                  |
| 2297          | 2297     | Scouring and combing plants.....      | 69                | 38                                    | 5,798                     | 45,402                                  |
| 2298          | 2298     | Cordage and twine.....                | 167               | 76                                    | 8,920                     | 57,614                                  |
| 2299          | 2299     | Textile goods, n.e.c.....             | 137               | 56                                    | 7,283                     | 78,746                                  |
| 2311          | 2311     | Men's and boys' suits and coats.....  | 1,112             | 635                                   | 122,679                   | 831,910                                 |
| 2321          | 2321     | Men's dress shirts and nightwear..... | 834               | 566                                   | 113,193                   | 601,620                                 |
| 2322          | 2322     | Men's and boys' underwear.....        | 80                | 63                                    | 12,084                    | 63,186                                  |
| 2323          | 2323     | Men's and boys' neckwear.....         | 341               | 117                                   | 8,385                     | 58,136                                  |
| 2327          | 2327     | Separate trousers.....                | 735               | 423                                   | 73,848                    | 383,134                                 |
| 2328          | 2328     | Work clothing.....                    | 439               | 353                                   | 62,477                    | 330,653                                 |
| 2329          | 2329     | Men's and boys' clothing, n.e.c.....  | 554               | 365                                   | 35,917                    | 183,224                                 |
| 2331          | 2331     | Women's and misses' blouses.....      | 1,175             | 718                                   | 57,595                    | 300,525                                 |
| 2335          | 2335     | Women's and misses' dresses.....      | 4,752             | 3,013                                 | 200,003                   | 1,180,883                               |
| 2337          | 2337     | Women's suits, coats, and skirts..... | 2,516             | 1,380                                 | 88,332                    | 637,869                                 |
| 2339          | 2339     | Women's outerwear, n.e.c.....         | 1,297             | 709                                   | 59,536                    | 340,462                                 |
| 2341          | 2341     | Women's and children's underwear..... | 1,069             | 628                                   | 76,723                    | 430,771                                 |
| 2342          | 2342     | Corsets and allied garments.....      | 351               | 234                                   | 37,144                    | 310,150                                 |
| 2351          | 2351     | Millinery.....                        | 711               | 221                                   | 14,183                    | 93,168                                  |
| 2352          | 2352     | Hats and caps.....                    | 436               | 173                                   | 16,608                    | 91,277                                  |
| 2361          | 2361     | Children's dresses and blouses.....   | 667               | 412                                   | 35,792                    | 205,623                                 |
| 2363          | 2363     | Children's coats and suits.....       | 285               | 152                                   | 11,848                    | 72,735                                  |
| 2369          | 2369     | Children's outerwear, n.e.c.....      | 624               | 360                                   | 34,244                    | 188,344                                 |
| 2371          | 2371     | Fur goods.....                        | 1,591             | 94                                    | 9,289                     | 110,619                                 |
| 2381          | 2381     | Fabric dress and work gloves.....     | 197               | 103                                   | 12,771                    | 64,372                                  |
| 2384          | 2384     | Robes and dressing gowns.....         | 271               | 144                                   | 11,889                    | 68,717                                  |
| 2385          | 2385     | Waterproof outer garments.....        | 341               | 196                                   | 16,148                    | 111,342                                 |
| 2386          | 2386     | Leather and sheeplined clothing.....  | 114               | 50                                    | 3,352                     | 23,351                                  |
| 2387          | 2387     | Apparel belts.....                    | 389               | 141                                   | 9,841                     | 62,172                                  |
| 2389          | 2389     | Apparel, n.e.c.....                   | 270               | 108                                   | 7,225                     | 43,211                                  |
| 2391          | 2391     | Curtains and draperies.....           | 1,121             | 255                                   | 21,955                    | 131,995                                 |
| 2392          | 2392     | Housefurnishings, n.e.c.....          | 1,239             | 422                                   | 39,690                    | 285,759                                 |
| 2393          | 2393     | Textile bags.....                     | 192               | 88                                    | 7,191                     | 56,523                                  |
| 2394          | 2394     | Canvas products.....                  | 881               | 124                                   | 11,170                    | 73,534                                  |
| 2395          | 2395     | Pleating and stitching.....           | 1,316             | 245                                   | 16,353                    | 95,240                                  |
| 2396          | 2396     | Apparel findings.....                 | 756               | 213                                   | 24,539                    | 227,810                                 |
| 2397          | 2397     | Schiffli machine embroideries.....    | 759               | 68                                    | 6,145                     | 55,411                                  |
| 2399          | 2399     | Textile products, n.e.c.....          | 1,044             | 240                                   | 21,350                    | 145,153                                 |

\*Represents part of the specified industry. (NA) Not available.

## Composition of Industries in the 1963 SIC--Continued

### Part 2. Distribution of 1958 SIC Industries Among 1963 SIC Industries--Continued

| Industry code |          | Industry title                        | Establishments    |                                       | All employees<br>(number) | Value added by manufacture<br>(\$1,000) |
|---------------|----------|---------------------------------------|-------------------|---------------------------------------|---------------------------|---|
| 1958 SIC      | 1963 SIC |                                       | Total<br>(number) | With 20 employees or more<br>(number) |                           |   |
| 2411          | 2411     | Logging camps and contractors.....    | 1,388             | 557                                   | 73,130                    | 520,457                                 |
| 2421          | 2421     | Sawmills and planing mills.....       | 12,189            | 2,151                                 | 207,365                   | 1,376,080                               |
| 2426          | 2426     | Hardwood dimension and flooring.....  | 642               | 317                                   | 28,128                    | 155,083                                 |
| 2429          | 2429     | Special products sawmills, n.e.c..... | 541               | 107                                   | 7,164                     | 41,355                                  |
| 2431          | 2431     | Millwork plants.....                  | 3,770             | 748                                   | 65,283                    | 524,041                                 |
| 2432          | 2432     | Veneer and plywood plants.....        | 641               | 503                                   | 66,155                    | 559,211                                 |
| 2433          | 2433     | Prefabricated wood products.....      | 559               | 203                                   | 15,806                    | 156,593                                 |
| 2441          | 2441     | Nailed wooden boxes and shooks.....   | 663               | 183                                   | 14,483                    | 85,046                                  |
| 2442          | 2442     | Wirebound boxes and crates.....       | 117               | 70                                    | 9,893                     | 55,606                                  |
| 2443          | 2443     | Veneer and plywood containers.....    | 99                | 44                                    | 3,953                     | 16,086                                  |
| 2445          | 2445     | Cooperage.....                        | 107               | 23                                    | 2,616                     | 17,494                                  |
| 2491          | 2491     | Wood preserving.....                  | 338               | 157                                   | 11,178                    | 93,265                                  |
| 2499          | ----     | Wood products, n.e.c.....             | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
|               | 2499*    | Wood products, n.e.c.....             | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
| 2511          | 2511     | Wood furniture, not upholstered.....  | 3,063             | 992                                   | 140,982                   | 993,200                                 |
| 2512          | 2512     | Wood furniture, upholstered.....      | 1,785             | 713                                   | 67,850                    | 506,727                                 |
| 2514          | 2514     | Metal household furniture.....        | 517               | 244                                   | 29,346                    | 247,003                                 |
| 2515          | 2515     | Mattresses and bedsprings.....        | 1,120             | 340                                   | 30,061                    | 285,510                                 |
| 2519          | 2519     | Household furniture, n.e.c.....       | 75                | 30                                    | 2,054                     | 15,054                                  |
| 2521          | 2521     | Wood office furniture.....            | 138               | 58                                    | 6,516                     | 57,018                                  |
| 2522          | 2522     | Metal office furniture.....           | 170               | 107                                   | 19,928                    | 228,329                                 |
| 2531          | 2531     | Public building furniture.....        | 430               | 165                                   | 17,317                    | 147,253                                 |
| 2541          | 2541     | Wood partitions and fixtures.....     | 1,594             | 347                                   | 24,343                    | 219,194                                 |
| 2542          | 2542     | Metal partitions and fixtures.....    | 513               | 167                                   | 20,290                    | 214,301                                 |
| 2591          | 2591     | Venetian blinds and shades.....       | 717               | 59                                    | 10,102                    | 88,905                                  |
| 2599          | 2599     | Furniture and fixtures, n.e.c.....    | 356               | 91                                    | 7,540                     | 65,871                                  |
| 2611          | 2611     | Pulp mills.....                       | 45                | 40                                    | 15,123                    | 295,804                                 |
| 2621          | 2621     | Paper mills, except building.....     | 325               | 313                                   | 129,848                   | 1,857,203                               |
| 2631          | 2631     | Paperboard mills.....                 | 271               | 259                                   | 63,398                    | 1,186,224                               |
| 2641          | 2641     | Paper coating and glazing.....        | 387               | 181                                   | 31,983                    | 457,367                                 |
| 2642          | 2642     | Envelopes.....                        | 230               | 173                                   | 20,728                    | 188,963                                 |
| 2643          | 2643     | Bags, except textile bags.....        | 586               | 297                                   | 42,343                    | 369,685                                 |
| 2644          | 2644     | Wallpaper.....                        | 79                | 31                                    | 2,194                     | 20,907                                  |
| 2645          | 2645     | Die cut paper and board.....          | 425               | 156                                   | 15,135                    | 183,185                                 |
| 2646          | 2646     | Pressed and molded pulp goods.....    | 59                | 42                                    | 5,720                     | 70,006                                  |
| 2649          | ----     | Paper and board products, n.e.c.....  | 729               | 316                                   | 48,622                    | 672,257                                 |
|               | 2647     | Sanitary paper products.....          | 119               | 77                                    | 19,108                    | 369,711                                 |
|               | 2649     | Converted paper products, n.e.c.....  | 610               | 239                                   | 29,514                    | 302,546                                 |
| 2651          | 2651     | Folding paperboard boxes.....         | 636               | 418                                   | 51,291                    | 476,866                                 |
| 2652          | 2652     | Set-up paperboard boxes.....          | 503               | 317                                   | 20,459                    | 131,688                                 |
| 2653          | 2653     | Corrugated shipping containers.....   | 923               | 651                                   | 83,229                    | 804,012                                 |
| 2654          | 2654     | Sanitary food containers.....         | 186               | 144                                   | 32,879                    | 402,211                                 |
| 2655          | 2655     | Fiber cans, tubes, drums, etc.....    | 246               | 137                                   | 13,188                    | 126,196                                 |
| 2661          | ----     | Building paper and board mills.....   | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
|               | 2661     | Building paper and board mills.....   | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
|               | 2499*    | Wood products, n.e.c.....             | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
| 2711          | 2711     | Newspapers.....                       | 8,331             | 1,865                                 | 306,439                   | 3,201,872                               |
| 2721          | 2721     | Periodicals.....                      | 2,630             | 402                                   | 67,730                    | 1,349,030                               |
| 2731          | 2731     | Books, publishing and printing.....   | 993               | 256                                   | 46,812                    | 995,736                                 |
| 2732          | 2732     | Book printing.....                    | 683               | 275                                   | 36,101                    | 358,294                                 |
| 2741          | 2741     | Miscellaneous publishing.....         | 1,374             | 177                                   | 22,551                    | 252,932                                 |
| 2751          | 2751     | Printing, except lithographic.....    | 12,109            | 1,404                                 | 170,215                   | 1,578,275                               |
| 2752          | 2752     | Printing, lithographic.....           | 6,822             | 1,339                                 | 121,072                   | 1,302,046                               |
| 2753          | 2753     | Engraving and plate printing.....     | 580               | 105                                   | 9,022                     | 80,748                                  |
| 2761          | 2761     | Manifold business forms.....          | 502               | 250                                   | 28,796                    | 377,710                                 |
| 2771          | 2771     | Greeting card manufacturing.....      | 257               | 93                                    | 21,535                    | 204,608                                 |

\*Represents part of the specified industry. (NA) Not available.



## Composition of Industries in the 1963 SIC--Continued

### Part 2. Distribution of 1958 SIC Industries Among 1963 SIC Industries--Continued

| Industry code |          | Industry title   | Establishments    |                                       | All employees<br>(number) | Value added by manufacture<br>(\$1,000) |
|---------------|----------|--|-------------------|---------------------------------------|---------------------------|---|
| 1958 SIC      | 1963 SIC |  | Total<br>(number) | With 20 employees or more<br>(number) |                           |   |
| 2782          | 2782     | Blankbooks; looseleaf binders.....                                   | 410               | 158                                   | 17,899                    | 168,465                                 |
| 2789          | 2789     | Bookbinding and related work.....                                    | 1,043             | 311                                   | 24,338                    | 172,298                                 |
| 2791          | 2791     | Typesetting.....   | 1,289             | 282                                   | 20,997                    | 205,450                                 |
| 2793          | 2793     | Photoengraving.....  | 883               | 218                                   | 14,620                    | 171,796                                 |
| 2794          | 2794     | Electrotyping and stereotyping.....                                  | 184               | 80                                    | 5,116                     | 57,173                                  |
| 2812          | 2812     | Alkalies and chlorine.....   | 38                | 37                                    | 19,652                    | 389,243                                 |
| 2813          | 2813     | Industrial gases.....  | 456               | 146                                   | 9,809                     | 260,182                                 |
| 2814          | 2814     | Cyclic (coal tar) crudes.....  | 36                | 17                                    | 1,636                     | 35,103                                  |
| 2815          | 2815     | Intermediate coal tar products.....                                  | 141               | 84                                    | 26,089                    | 570,234                                 |
| 2816          | 2816     | Inorganic pigments.....  | 96                | 49                                    | 11,544                    | 286,407                                 |
| 2818          | 2818     | Organic chemicals, n.e.c.....  | 464               | 241                                   | 85,492                    | 2,727,450                               |
| 2819          | 2819     | Inorganic chemicals, n.e.c.....                                      | 674               | 323                                   | 82,430                    | 1,902,673                               |
| 2821          | 2821     | Plastics materials and resins.....                                   | 509               | 256                                   | 61,366                    | 1,202,349                               |
| 2822          | 2822     | Synthetic rubber.....  | 24                | 24                                    | 11,840                    | 329,520                                 |
| 2823          | 2823     | Cellulosic man-made fibers.....                                      | 19                | 19                                    | 30,086                    | 411,529                                 |
| 2824          | 2824     | Organic fibers, noncellulosic.....                                   | 25                | 24                                    | 41,421                    | 922,001                                 |
| 2831          | 2831     | Biological products.....   | 113               | 40                                    | 5,789                     | 60,377                                  |
| 2833          | 2833     | Medicinals and botanicals.....                                       | 138               | 42                                    | 8,128                     | 151,297                                 |
| 2834          | 2834     | Pharmaceutical preparations.....                                     | 1,011             | 319                                   | 85,084                    | 2,595,657                               |
| 2841          | 2841     | Soap and other detergents.....                                       | 704               | 172                                   | 30,794                    | 1,137,425                               |
| 2842          | 2842     | Polishes and sanitation goods.....                                   | 1,101             | 173                                   | 16,332                    | 420,440                                 |
| 2843          | 2843     | Surface active agents.....   | 148               | 59                                    | 4,108                     | 75,698                                  |
| 2844          | 2844     | Toilet preparations.....   | 707               | 183                                   | 34,338                    | 1,232,883                               |
| 2851          | ----     | Paints and varnishes.....  | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
|               | 2851*    | Paints and allied products.....                                      | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
| 2852          | ----     | Putty and caulking compounds.....                                    | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
|               | 2851*    | Paints and allied products.....                                      | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
| 2861          | 2861     | Gum and wood chemicals.....  | 246               | 53                                    | 6,787                     | 100,329                                 |
| 2871          | 2871     | Fertilizers.....   | 281               | 199                                   | 19,992                    | 287,800                                 |
| 2872          | 2872     | Fertilizers, mixing only.....  | 733               | 232                                   | 13,752                    | 164,140                                 |
| 2873          | ----     | Agricultural pesticides.....   | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
|               | 2879*    | Agricultural chemicals, n.e.c.....                                   | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
| 2879          | ----     | Agricultural chemicals, n.e.c.....                                   | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
|               | 2879*    | Agricultural pesticides and other agricultural chemicals, n.e.c..... | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
| 2891          | 2891     | Glue and gelatin.....  | 368               | 104                                   | 8,521                     | 147,006                                 |
| 2892          | 2892     | Explosives.....  | 68                | 47                                    | 14,814                    | 165,733                                 |
| 2893          | 2893     | Printing ink.....  | 348               | 103                                   | 8,455                     | 125,138                                 |
| 2894          | ----     | Fatty acids.....   | 12                | (NA)                                  | 1,711                     | 36,473                                  |
|               | 2899*    | Chemical preparations, n.e.c.....                                    | 12                | (NA)                                  | 1,711                     | 36,473                                  |
| 2895          | 2895     | Carbon black.....  | 33                | 31                                    | 3,010                     | 91,752                                  |
| 2899          | ----     | Chemical preparations, n.e.c.....                                    | 1,372             | (NA)                                  | 24,077                    | 469,395                                 |
|               | 2899*    | Chemical preparations, n.e.c.....                                    | 1,372             | (NA)                                  | 24,077                    | 469,395                                 |
| 2911          | 2911     | Petroleum refining.....  | 427               | 297                                   | 119,297                   | 3,137,603                               |
| 2951          | 2951     | Paving mixtures and blocks.....                                      | 762               | 127                                   | 9,680                     | 165,584                                 |
| 2952          | 2952     | Asphalt felts and coatings.....                                      | 230               | 140                                   | 14,581                    | 189,981                                 |
| 2992          | 2992     | Lubricating oils and greases.....                                    | 353               | 108                                   | 8,433                     | 199,074                                 |
| 2999          | 2999     | Petroleum and coal products, n.e.c.....                              | 67                | 17                                    | 1,495                     | 20,989                                  |
| 3011          | 3011     | Tires and inner tubes.....   | 155               | 96                                    | 85,259                    | 1,321,712                               |
| 3021          | 3021     | Rubber footwear.....   | 53                | 46                                    | 29,147                    | 216,959                                 |
| 3031          | 3031     | Reclaimed rubber.....  | 13                | 13                                    | 2,010                     | 27,378                                  |
| 3069          | 3069     | Rubber products, n.e.c.....  | 1,173             | 620                                   | 132,228                   | 1,427,022                               |
| 3079          | 3079     | Plastics products, n.e.c.....  | 4,334             | 1,674                                 | 166,315                   | 1,660,882                               |
| 3111          | 3111     | Leather tanning and finishing.....                                   | 525               | 256                                   | 31,417                    | 273,092                                 |
| 3121          | 3121     | Industrial leather belting.....                                      | 83                | 23                                    | 2,870                     | 32,915                                  |
| 3131          | 3131     | Footwear cut stock.....  | 446               | 204                                   | 14,339                    | 90,611                                  |
| 3141          | 3141     | Shoes, except rubber.....  | 1,040             | 815                                   | 201,728                   | 1,214,740                               |
| 3142          | 3142     | House slippers.....  | 153               | 97                                    | 11,039                    | 64,555                                  |

\*Represents part of the specified industry. (NA) Not available.

## Composition of Industries in the 1963 SIC--Continued

### Part 2. Distribution of 1958 SIC Industries Among 1963 SIC Industries--Continued

| Industry code |          | Industry title                        | Establishments    |                                       | All employees<br>(number) | Value added by manufacture<br>(\$1,000) |
|---------------|----------|---------------------------------------|-------------------|---------------------------------------|---------------------------|---|
| 1958 SIC      | 1963 SIC |                                       | Total<br>(number) | With 20 employees or more<br>(number) |                           |   |
| 3151          | 3151     | Leather gloves.....                   | 166               | 87                                    | 7,718                     | 32,194                                  |
| 3161          | 3161     | Luggage.....                          | 379               | 145                                   | 16,409                    | 112,796                                 |
| 3171          | 3171     | Handbags and purses.....              | 545               | 262                                   | 24,548                    | 142,554                                 |
| 3172          | 3172     | Small leather goods.....              | 340               | 117                                   | 12,432                    | 82,385                                  |
| 3199          | 3199     | Leather goods, n.e.c.....             | 370               | 67                                    | 4,989                     | 32,730                                  |
| 3211          | 3211     | Flat glass.....                       | 31                | 30                                    | 22,815                    | 364,466                                 |
| 3221          | 3221     | Glass containers.....                 | 113               | 105                                   | 59,987                    | 629,608                                 |
| 3229          | 3229     | Pressed and blown glass, n.e.c.....   | 107               | 95                                    | 37,999                    | 472,212                                 |
| 3231          | 3231     | Products of purchased glass.....      | 1,044             | 249                                   | 26,158                    | 309,734                                 |
| 3241          | 3241     | Cement, hydraulic.....                | 188               | 179                                   | 34,863                    | 785,681                                 |
| 3251          | 3251     | Brick and structural tile.....        | 512               | 400                                   | 28,620                    | 216,548                                 |
| 3253          | 3253     | Ceramic wall and floor tile.....      | 90                | 64                                    | 12,795                    | 110,571                                 |
| 3255          | 3255     | Clay refractories.....                | 150               | 109                                   | 11,431                    | 118,248                                 |
| 3259          | 3259     | Structural clay products, n.e.c.....  | 164               | 108                                   | 12,188                    | 108,442                                 |
| 3261          | 3261     | Vitreous plumbing fixtures.....       | 49                | 43                                    | 9,280                     | 101,502                                 |
| 3262          | 3262     | Vitreous china food utensils.....     | 31                | 21                                    | 6,314                     | 42,504                                  |
| 3263          | 3263     | Earthenware food utensils.....        | 21                | 18                                    | 7,349                     | 41,046                                  |
| 3264          | 3264     | Porcelain electrical supplies.....    | 79                | 49                                    | 10,170                    | 90,001                                  |
| 3269          | 3269     | Pottery products, n.e.c.....          | 458               | 98                                    | 9,085                     | 62,107                                  |
| 3271          | 3271     | Concrete block and brick.....         | 1,841             | 367                                   | 23,759                    | 245,525                                 |
| 3272          | 3272     | Other concrete products.....          | 3,451             | 716                                   | 52,297                    | 539,967                                 |
| 3273          | 3273     | Ready mixed concrete.....             | 4,621             | 1,021                                 | 71,523                    | 981,997                                 |
| 3274          | 3274     | Lime.....                             | 125               | 68                                    | 6,778                     | 95,135                                  |
| 3275          | 3275     | Gypsum products.....                  | 122               | 72                                    | 11,491                    | 259,659                                 |
| 3281          | 3281     | Cut stone and stone products.....     | 893               | 211                                   | 18,340                    | 131,465                                 |
| 3291          | 3291     | Abrasive products.....                | 378               | 149                                   | 28,170                    | 416,415                                 |
| 3292          | 3292     | Asbestos products.....                | 124               | 84                                    | 19,516                    | 269,067                                 |
| 3293          | 3293     | Gaskets and insulations.....          | 295               | 111                                   | 16,825                    | 160,734                                 |
| 3295          | 3295     | Minerals, ground or treated.....      | 415               | 97                                    | 7,330                     | 102,079                                 |
| 3296          | 3296     | Mineral wool.....                     | 123               | 67                                    | 14,733                    | 206,846                                 |
| 3297          | 3297     | Nonclay refractories.....             | 93                | 68                                    | 8,572                     | 129,139                                 |
| 3299          | 3299     | Nonmetallic products, n.e.c.....      | 320               | 56                                    | 5,471                     | 53,289                                  |
| 3312          | 3312     | Blast furnaces and steel mills.....   | 288               | 247                                   | 500,550                   | 7,506,433                               |
| 3313          | 3313     | Electrometallurgical products.....    | 36                | 30                                    | 10,437                    | 145,503                                 |
| 3315          | 3315     | Steel wire drawing, etc.....          | 200               | 133                                   | 21,280                    | 253,009                                 |
| 3316          | 3316     | Cold finishing of steel shapes.....   | 81                | 68                                    | 13,700                    | 223,977                                 |
| 3317          | 3317     | Steel pipe and tube.....              | 141               | 115                                   | 22,882                    | 295,242                                 |
| 3321          | 3321     | Gray iron foundries.....              | 1,139             | 767                                   | 120,528                   | 1,168,478                               |
| 3322          | 3322     | Malleable iron foundries.....         | 81                | 71                                    | 22,297                    | 204,557                                 |
| 3323          | 3323     | Steel foundries.....                  | 267               | 220                                   | 56,810                    | 586,914                                 |
| 3331          | 3331     | Primary copper.....                   | 33                | 33                                    | 14,949                    | 285,510                                 |
| 3332          | 3332     | Primary lead.....                     | 10                | 10                                    | 2,578                     | 24,876                                  |
| 3333          | 3333     | Primary zinc.....                     | 18                | 18                                    | 8,065                     | 98,789                                  |
| 3334          | 3334     | Primary aluminum.....                 | 23                | 22                                    | 18,133                    | 499,576                                 |
| 3339          | 3339     | Primary nonferrous metals, n.e.c..... | 35                | 26                                    | 5,064                     | 103,830                                 |
| 3341          | 3341     | Secondary nonferrous metals.....      | 459               | 179                                   | 15,445                    | 228,190                                 |
| 3351          | 3351     | Copper rolling and drawing.....       | 112               | 92                                    | 38,949                    | 478,393                                 |
| 3352          | 3352     | Aluminum rolling and drawing.....     | 212               | 153                                   | 54,263                    | 721,171                                 |
| 3356          | 3356     | Rolling and drawing, n.e.c.....       | 125               | 67                                    | 17,375                    | 250,589                                 |
| 3357          | 3357     | Nonferrous wire drawing, etc.....     | 299               | 227                                   | 56,418                    | 677,535                                 |
| 3361          | 3361     | Aluminum castings.....                | 954               | 321                                   | 36,216                    | 343,863                                 |
| 3362          | 3362     | Brass, bronze, copper castings.....   | 549               | 193                                   | 15,341                    | 144,092                                 |
| 3369          | 3369     | Nonferrous castings, n.e.c.....       | 391               | 165                                   | 17,686                    | 168,530                                 |
| 3391          | 3391     | Iron and steel forgings.....          | 272               | 189                                   | 36,317                    | 395,302                                 |
| 3392          | 3392     | Nonferrous forgings.....              | 34                | 19                                    | 6,297                     | 71,378                                  |
| 3399          | 3399     | Primary metal industries, n.e.c.....  | 754               | 218                                   | 14,956                    | 192,250                                 |
| 3411          | 3411     | Metal cans.....                       | 270               | 206                                   | 53,245                    | 830,515                                 |
| 3421          | 3421     | Cutlery.....                          | 161               | 67                                    | 11,837                    | 213,998                                 |
| 3423          | 3423     | Hand and edge tools.....              | 716               | 255                                   | 31,480                    | 364,265                                 |
| 3425          | 3425     | Hand saws and saw blades.....         | 76                | 42                                    | 5,095                     | 65,634                                  |

\*Represents part of the specified industry. (NA) Not available.



## Composition of Industries in the 1963 SIC--Continued

### Part 2. Distribution of 1958 SIC Industries Among 1963 SIC Industries--Continued

| Industry code |          | Industry title                          | Establishments    |                                       | All employees<br>(number) | Value added by manufacture<br>(\$1,000) |
|---------------|----------|---|-------------------|---------------------------------------|---------------------------|---|
| 1958 SIC      | 1963 SIC |   | Total<br>(number) | With 20 employees or more<br>(number) |                           |   |
| 3429          | 3429     | Hardware, n.e.c.....                    | 1,070             | 447                                   | 88,729                    | 1,069,080                               |
| 3431          | 3431     | Metal plumbing fixtures.....            | 81                | 45                                    | 11,011                    | 139,859                                 |
| 3432          | 3432     | Plumbing fittings, brass goods.....     | 250               | 102                                   | 15,129                    | 154,752                                 |
| 3433          | 3433     | Heating equipment, except electric..... | 648               | 280                                   | 42,020                    | 495,652                                 |
| 3441          | 3441     | Fabricated structural steel.....        | 1,718             | 817                                   | 85,423                    | 814,805                                 |
| 3442          | 3442     | Metal doors, sash, and trim.....        | 1,817             | 628                                   | 62,799                    | 570,370                                 |
| 3443          | 3443     | Boiler shop products.....               | 1,383             | 601                                   | 75,018                    | 770,064                                 |
| 3444          | 3444     | Sheet metal work.....                   | 3,250             | 755                                   | 61,651                    | 632,384                                 |
| 3449          | ----     | Miscellaneous metal work, n.e.c.....    | 2,031             | 419                                   | 40,579                    | 432,190                                 |
|               | 3446     | Architectural metal work.....           | 1,334             | 173                                   | 15,587                    | 148,763                                 |
|               | 3449     | Miscellaneous metal work.....           | 697               | 246                                   | 24,992                    | 283,427                                 |
| 3451          | 3451     | Screw machine products.....             | 1,874             | 516                                   | 36,909                    | 358,961                                 |
| 3452          | 3452     | Bolts, nuts, rivets and washers.....    | 573               | 323                                   | 57,618                    | 695,276                                 |
| 3461          | 3461     | Metal stampings.....                    | 2,574             | 1,116                                 | 132,179                   | 1,368,993                               |
| 3471          | 3471     | Plating and polishing.....              | 3,023             | 677                                   | 44,962                    | 370,202                                 |
| 3479          | 3479     | Metal coating, engraving, etc.....      | 1,258             | 276                                   | 20,669                    | 184,546                                 |
| 3481          | 3481     | Fabricated wire products, n.e.c.....    | 1,567             | 557                                   | 55,514                    | 539,137                                 |
| 3491          | 3491     | Metal barrels, drums and pails.....     | 145               | 93                                    | 10,508                    | 119,617                                 |
| 3492          | 3492     | Safes and vaults.....                   | 32                | 15                                    | 3,346                     | 56,223                                  |
| 3493          | 3493     | Steel springs.....                      | 96                | 49                                    | 6,287                     | 69,305                                  |
| 3494          | 3494     | Valves and pipe fittings.....           | 646               | 374                                   | 80,407                    | 942,700                                 |
| 3496          | 3496     | Collapsible tubes.....                  | 24                | 19                                    | 3,984                     | 30,562                                  |
| 3497          | 3497     | Metal foil and leaf.....                | 67                | 40                                    | 4,981                     | 63,486                                  |
| 3498          | 3498     | Fabricated pipe and fittings.....       | 349               | 146                                   | 13,007                    | 144,598                                 |
| 3499          | 3499     | Fabricated metal products, n.e.c.....   | 1,277             | 346                                   | 28,302                    | 299,326                                 |
| 3511          | 3511     | Steam engines and turbines.....         | 22                | 21                                    | 30,917                    | 379,875                                 |
| 3519          | 3519     | Internal combustion engines.....        | 143               | 81                                    | 55,687                    | 733,628                                 |
| 3522          | 3522     | Farm machinery and equipment.....       | 1,568             | 558                                   | 112,614                   | 1,328,381                               |
| 3531          | 3531     | Construction machinery.....             | 617               | 305                                   | 104,520                   | 1,301,266                               |
| 3532          | 3532     | Mining machinery and equipment.....     | 204               | 93                                    | 16,910                    | 215,406                                 |
| 3533          | 3533     | Oil field machinery.....                | 408               | 176                                   | 29,203                    | 398,152                                 |
| 3534          | 3534     | Elevators and moving stairways.....     | 142               | 74                                    | 12,393                    | 201,527                                 |
| 3535          | 3535     | Conveyors.....                          | 454               | 175                                   | 20,778                    | 270,475                                 |
| 3536          | 3536     | Hoists, cranes, and monorails.....      | 120               | 56                                    | 9,585                     | 112,327                                 |
| 3537          | 3537     | Industrial trucks and tractors.....     | 314               | 108                                   | 17,570                    | 233,116                                 |
| 3541          | 3541     | Metal-cutting machine tools.....        | 801               | 269                                   | 61,058                    | 699,341                                 |
| 3542          | 3542     | Metal-forming machine tools.....        | 366               | 146                                   | 22,078                    | 281,287                                 |
| 3544          | 3544     | Special dies and tools.....             | 5,896             | 1,133                                 | 90,360                    | 1,029,338                               |
| 3545          | 3545     | Machine tool accessories.....           | 1,038             | 347                                   | 46,994                    | 559,258                                 |
| 3548          | 3548     | Metalworking machinery, n.e.c.....      | 435               | 168                                   | 38,012                    | 468,435                                 |
| 3551          | 3551     | Food products machinery.....            | 681               | 279                                   | 31,684                    | 380,406                                 |
| 3552          | 3552     | Textile machinery.....                  | 561               | 216                                   | 36,004                    | 314,190                                 |
| 3553          | 3553     | Woodworking machinery.....              | 249               | 91                                    | 12,057                    | 146,998                                 |
| 3554          | 3554     | Paper industries machinery.....         | 217               | 92                                    | 18,605                    | 217,475                                 |
| 3555          | 3555     | Printing trades machinery.....          | 490               | 136                                   | 22,952                    | 285,879                                 |
| 3559          | 3559     | Special industry machinery, n.e.c.....  | 1,091             | 387                                   | 49,950                    | 561,768                                 |
| 3561          | 3561     | Pumps and compressors.....              | 642               | 267                                   | 61,322                    | 768,787                                 |
| 3562          | 3562     | Ball and roller bearings.....           | 125               | 93                                    | 52,316                    | 627,694                                 |
| 3564          | 3564     | Blowers and fans.....                   | 237               | 97                                    | 15,244                    | 180,801                                 |
| 3565          | 3565     | Industrial patterns.....                | 1,209             | 106                                   | 9,914                     | 112,587                                 |
| 3566          | 3566     | Power transmission equipment.....       | 532               | 272                                   | 46,670                    | 555,710                                 |
| 3567          | 3567     | Industrial furnaces and ovens.....      | 239               | 94                                    | 12,394                    | 153,477                                 |
| 3569          | 3569     | General industry machines, n.e.c.....   | 777               | 277                                   | 35,559                    | 424,084                                 |
| 3571          | 3571     | Computing and related machines.....     | 248               | 139                                   | 96,370                    | 1,101,484                               |
| 3572          | 3572     | Typewriters.....                        | 21                | 16                                    | 18,023                    | 243,190                                 |
| 3576          | 3576     | Scales and balances.....                | 85                | 35                                    | 5,765                     | 64,362                                  |
| 3579          | 3579     | Office machines, n.e.c.....             | 161               | 75                                    | 16,980                    | 224,654                                 |
| 3581          | 3581     | Automatic vending machines.....         | 158               | 68                                    | 11,672                    | 121,365                                 |
| 3582          | 3582     | Commercial laundry equipment.....       | 115               | 58                                    | 6,542                     | 70,771                                  |
| 3584          | ----     | Vacuum cleaners, industrial.....        | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
|               | 3589*    | Service industry machines, n.e.c.....   | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |

\*Represents part of the specified industry. (NA) Not available.

## Composition of Industries in the 1963 SIC--Continued

### Part 2. Distribution of 1958 SIC Industries Among 1963 SIC Industries--Continued

| Industry code |          | Industry title                          | Establishments    |                                       | All employees<br>(number) | Value added by manufacture<br>(\$1,000) |
|---------------|----------|---|-------------------|---------------------------------------|---------------------------|---|
| 1958 SIC      | 1963 SIC |   | Total<br>(number) | With 20 employees or more<br>(number) |                           |   |
| 3585          | 3585     | Refrigeration machinery.....            | 698               | 347                                   | 72,330                    | 892,686                                 |
| 3586          | 3586     | Measuring and dispensing pumps.....     | 43                | 27                                    | 6,768                     | 91,713                                  |
| 3589          | ----     | Service industry machines, n.e.c.....   | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
|               | 3589*    | Service industry machines, n.e.c.....   | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
| 3599          | 3599     | Miscellaneous machinery.....            | 12,090            | 1,402                                 | 135,820                   | 1,336,327                               |
| 3611          | 3611     | Electric measuring instruments.....     | 560               | 209                                   | 44,715                    | 505,309                                 |
| 3612          | 3612     | Transformers.....                       | 177               | 99                                    | 33,365                    | 381,514                                 |
| 3613          | 3613     | Switchgear and switchboards.....        | 400               | 214                                   | 54,045                    | 647,838                                 |
| 3621          | 3621     | Motors and generators.....              | 384               | 244                                   | 94,170                    | 993,207                                 |
| 3622          | 3622     | Industrial controls.....                | 339               | 108                                   | 32,990                    | 450,507                                 |
| 3623          | 3623     | Welding apparatus.....                  | 149               | 75                                    | 9,629                     | 162,411                                 |
| 3624          | 3624     | Carbon and graphite products.....       | 53                | 40                                    | 10,123                    | 141,423                                 |
| 3629          | 3629     | Electric industrial goods, n.e.c.....   | 231               | 109                                   | 14,041                    | 141,633                                 |
| 3631          | 3631     | Household cooking equipment.....        | 83                | 53                                    | 19,191                    | 230,285                                 |
| 3632          | 3632     | Household refrigerators.....            | 34                | 25                                    | 43,065                    | 631,269                                 |
| 3633          | 3633     | Household laundry equipment.....        | 39                | 28                                    | 18,343                    | 353,863                                 |
| 3634          | 3634     | Electric housewares and fans.....       | 312               | 136                                   | 38,801                    | 463,845                                 |
| 3635          | 3635     | Household vacuum cleaners.....          | 34                | 13                                    | 5,682                     | 116,137                                 |
| 3636          | 3636     | Sewing machines.....                    | 86                | 17                                    | 7,646                     | 98,328                                  |
| 3639          | 3639     | Household appliances, n.e.c.....        | 112               | 67                                    | 13,127                    | 204,188                                 |
| 3641          | 3641     | Electric lamps.....                     | 81                | 50                                    | 23,404                    | 362,235                                 |
| 3642          | 3642     | Lighting fixtures.....                  | 1,239             | 480                                   | 53,866                    | 587,834                                 |
| 3643          | 3643     | Current carrying devices.....           | 449               | 180                                   | 35,424                    | 355,643                                 |
| 3644          | 3644     | Noncurrent carrying devices.....        | 182               | 103                                   | 20,290                    | 253,918                                 |
| 3651          | 3651     | Radio and TV receiving sets.....        | 348               | 178                                   | 81,264                    | 911,954                                 |
| 3652          | 3652     | Phonograph records.....                 | 167               | 60                                    | 9,554                     | 125,388                                 |
| 3661          | 3661     | Telephone; telegraph apparatus.....     | 90                | 56                                    | 89,465                    | 1,013,792                               |
| 3662          | 3662     | Radio, TV communications equipment..... | 1,132             | 635                                   | 387,384                   | 4,327,671                               |
| 3671          | 3671     | Electron tubes, receiving type.....     | 42                | 22                                    | 25,850                    | 250,681                                 |
| 3672          | 3672     | Cathode ray picture tubes.....          | 151               | 28                                    | 10,916                    | 128,354                                 |
| 3673          | 3673     | Electron tubes, transmitting.....       | 57                | 45                                    | 18,704                    | 204,614                                 |
| 3679          | ----     | Electronic components, n.e.c.....       | 2,041             | 1,055                                 | 233,057                   | 1,924,468                               |
|               | 3674     | Semiconductors.....                     | 107               | 87                                    | 56,349                    | 467,035                                 |
|               | 3679     | Electronic components, n.e.c.....       | 1,934             | 968                                   | 176,708                   | 1,457,433                               |
| 3691          | 3691     | Storage batteries.....                  | 252               | 120                                   | 17,512                    | 244,152                                 |
| 3692          | 3692     | Primary batteries, dry and wet.....     | 46                | 29                                    | 8,478                     | 113,787                                 |
| 3693          | 3693     | X-ray apparatus and tubes.....          | 58                | 30                                    | 6,236                     | 86,534                                  |
| 3694          | 3694     | Engine electrical equipment.....        | 182               | 98                                    | 40,559                    | 496,662                                 |
| 3699          | 3699     | Electrical products, n.e.c.....         | 350               | 106                                   | 10,923                    | 101,221                                 |
| 3713          | 3713     | Truck and bus bodies.....               | 610               | 208                                   | 24,466                    | 229,472                                 |
| 3715          | 3715     | Truck trailers.....                     | 197               | 105                                   | 19,429                    | 205,475                                 |
| 3717          | 3717     | Motor vehicles and parts.....           | 1,958             | 909                                   | 649,926                   | 12,345,630                              |
| 3721          | 3721     | Aircraft.....                           | 100               | 65                                    | 302,201                   | 3,542,695                               |
| 3722          | 3722     | Aircraft engines and parts.....         | 232               | 172                                   | 190,834                   | 2,244,317                               |
| 3723          | 3723     | Aircraft propellers and parts.....      | 14                | 8                                     | 11,183                    | 113,433                                 |
| 3729          | 3729     | Aircraft equipment, n.e.c.....          | 1,000             | 470                                   | 175,167                   | 1,966,904                               |
| 3731          | 3731     | Ship building and repairing.....        | 334               | 200                                   | 114,649                   | 1,009,690                               |
| 3732          | 3732     | Boat building and repairing.....        | 1,626             | 268                                   | 24,861                    | 183,059                                 |
| 3741          | 3741     | Locomotives and parts.....              | 24                | 12                                    | 14,337                    | 186,241                                 |
| 3742          | 3742     | Railroad and street cars.....           | 78                | 58                                    | 30,742                    | 355,230                                 |
| 3751          | 3751     | Motorcycles, bicycles, and parts.....   | 88                | 33                                    | 9,662                     | 82,245                                  |
| 3791          | 3791     | Trailer coaches.....                    | 413               | 252                                   | 25,669                    | 232,460                                 |
| 3799          | 3799     | Transportation equipment, n.e.c.....    | 522               | 108                                   | 8,032                     | 68,823                                  |
| 3811          | 3811     | Scientific instruments.....             | 594               | 213                                   | 33,084                    | 358,588                                 |
| 3821          | 3821     | Mechanical measuring devices.....       | 670               | 258                                   | 62,353                    | 732,529                                 |
| 3822          | 3822     | Automatic temperature controls.....     | 104               | 54                                    | 31,685                    | 379,091                                 |
| 3831          | 3831     | Optical instruments and lenses.....     | 280               | 79                                    | 11,924                    | 131,917                                 |
| 3841          | 3841     | Surgical and medical instruments.....   | 294               | 117                                   | 15,145                    | 168,556                                 |
| 3842          | 3842     | Surgical appliances and supplies.....   | 704               | 162                                   | 28,267                    | 370,273                                 |

\*Represents part of the specified industry. (NA) Not available.



## Composition of Industries in the 1963 SIC--Continued

### Part 2. Distribution of 1958 SIC Industries Among 1963 SIC Industries--Continued

| Industry code |          | Industry title                           | Establishments    |                                       | All employees<br>(number) | Value added by manufacture<br>(\$1,000) |
|---------------|----------|--|-------------------|---------------------------------------|---------------------------|---|
| 1958 SIC      | 1963 SIC |  | Total<br>(number) | With 20 employees or more<br>(number) |                           |   |
| 3843          | 3843     | Dental equipment and supplies.....       | 316               | 66                                    | 8,008                     | 95,876                                  |
| 3851          | 3851     | Ophthalmic goods.....                    | 229               | 109                                   | 20,296                    | 177,898                                 |
| 3861          | 3861     | Photographic equipment.....              | 538               | 187                                   | 64,937                    | 1,270,132                               |
| 3871          | 3871     | Watches and clocks.....                  | 167               | 76                                    | 27,047                    | 288,053                                 |
| 3872          | 3872     | Watchcases.....                          | 53                | 22                                    | 2,706                     | 19,218                                  |
| 3911          | 3911     | Jewelry, precious metal.....             | 1,438             | 218                                   | 23,551                    | 234,925                                 |
| 3912          | 3912     | Jewelers' findings and materials.....    | 228               | 67                                    | 4,816                     | 33,958                                  |
| 3913          | 3913     | Lapidary work.....                       | 318               | 15                                    | 1,535                     | 16,129                                  |
| 3914          | 3914     | Silverware and plated ware.....          | 209               | 87                                    | 13,249                    | 130,735                                 |
| 3931          | 3931     | Musical instruments and parts.....       | 320               | 126                                   | 20,095                    | 179,035                                 |
| 3941          | 3941     | Games and toys.....                      | 797               | 351                                   | 51,835                    | 444,101                                 |
| 3942          | 3942     | Dolls.....                               | 410               | 160                                   | 16,213                    | 138,100                                 |
| 3943          | 3943     | Childrens' vehicles.....                 | 64                | 31                                    | 4,542                     | 35,304                                  |
| 3949          | 3949     | Sporting and athletic goods.....         | 1,419             | 345                                   | 40,543                    | 360,980                                 |
| 3951          | 3951     | Pens and mechanical pencils.....         | 139               | 67                                    | 11,562                    | 119,069                                 |
| 3952          | 3952     | Lead pencils and art goods.....          | 144               | 57                                    | 6,868                     | 67,731                                  |
| 3953          | 3953     | Marking devices.....                     | 616               | 90                                    | 7,625                     | 85,572                                  |
| 3955          | 3955     | Carbon paper and inked ribbons.....      | 102               | 52                                    | 5,539                     | 68,353                                  |
| 3961          | 3961     | Costume jewelry.....                     | 912               | 204                                   | 21,655                    | 150,999                                 |
| 3962          | 3962     | Artificial flowers.....                  | 384               | 70                                    | 4,958                     | 29,194                                  |
| 3963          | 3963     | Buttons.....                             | 290               | 69                                    | 5,599                     | 43,751                                  |
| 3964          | 3964     | Needles, pins, and fasteners.....        | 343               | 149                                   | 20,271                    | 190,868                                 |
| 3981          | 3981     | Brooms and brushes.....                  | 643               | 167                                   | 16,637                    | 167,866                                 |
| 3982          | 3982     | Hard surface floor coverings.....        | 16                | 13                                    | 6,192                     | 118,832                                 |
| 3983          | 3983     | Matches.....                             | 26                | 23                                    | 4,647                     | 38,666                                  |
| 3984          | 3984     | Candles.....                             | 111               | 32                                    | 3,167                     | 26,306                                  |
| 3987          | 3987     | Lamp shades.....                         | 228               | 48                                    | 3,583                     | 20,476                                  |
| 3988          | 3988     | Morticians' goods.....                   | 617               | 224                                   | 17,283                    | 158,422                                 |
| 3992          | 3992     | Furs, dressed and dyed.....              | 132               | 26                                    | 2,577                     | 30,240                                  |
| 3993          | 3993     | Signs and advertising displays.....      | 3,206             | 570                                   | 43,476                    | 407,478                                 |
| 3995          | 3995     | Umbrellas, parasols, and canes.....      | 112               | 35                                    | 2,604                     | 16,101                                  |
| 3999          | 3999     | Miscellaneous products, n.e.c.....       | 1,499             | 322                                   | 30,138                    | 252,170                                 |
| 1911          | 1911     | Guns, howitzers, and mortars.....        | 60                | 37                                    | 24,988                    | 235,211                                 |
| 1999          | 1999     | Ordnance and accessories, n.e.c.....     |                   |                                       |                           |   |
| 1921          | ----     | Artillery ammunition.....                | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
| 1929*         | 1929*    | Ammunition, n.e.c.....                   | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
| 1922          | ----     | Ammunition loading.....                  | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
| 1929*         | 1929*    | Ammunition, n.e.c.....                   | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
| 1925          | 1925     | Complete guided missiles.....            | 31                | 29                                    | 148,908                   | 1,924,812                               |
| 1929          | ----     | Ammunition, n.e.c.....                   | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
| 1929*         | 1929*    | Ammunition, n.e.c.....                   | (NA)              | (NA)                                  | (NA)                      | (NA)                                    |
| 1931          | 1931     | Tanks and tank components.....           | 26                | 19                                    | 11,307                    | 148,369                                 |
| 1941          | 1941     | Sighting and fire control equipment..... | 13                | 8                                     | 9,249                     | 96,281                                  |
| 1951          | 1951     | Small arms, 30mm and under.....          | 52                | 23                                    | 9,995                     | 88,302                                  |
| 1961          | 1961     | Small arms ammunition.....               | 31                | 13                                    | 8,909                     | 103,772                                 |

\*Represents part of the specified industry.

(NA) Not available.





## Appendix D

### CENSUS REPORT FORMS AND PUNCH CARDS

In the 1963 Census of Manufactures, approximately 180 standard length report forms were employed in collecting data from all "annual survey of manufactures" establishments and from all of the larger "non-annual survey" establishments. A typical report form, MC-35Q, sent to establishments primarily producing industrial furnaces and ovens, is reproduced on pages D-2 to D-13 of this appendix. Inquiry items 1 to 16 were identical on all forms. Differences among forms are reflected in items 17 and 18, requesting information, respectively, on materials consumed in manufacture and products and services of the establishment. These items were "tailored" to reporting by establishments primarily utilizing the selected materials shown and primarily producing the products or performing the manufacturing services listed. Items 19, 20, and 21 are similarly different among forms and were intended to secure information of special significance to the industries primarily covered on the report form. For annual survey establishments, the front sheet of the 1963 report form was the annual survey report form used for 1962 and 1963 with provisions for entering figures for 1963.

In addition to the standard length forms, 50 short or abbreviated forms were used for smaller establishments. A copy of one such short form, MC-36Z, covering electrical machinery, equipment and supplies, is reproduced on pages D-22 to D-24 of this appendix. The size cut-off for the use of these short forms varied by industry, in most instances below 6 and in the others below 10 employees. The abbreviated forms requested information on a few key items: Number of employees; payrolls; total

cost of materials; and value of shipments by class of product. For those few industries in which small plants constituted a significant proportion of the total value of shipments, modified short forms were designed to collect some detail on the individual products shipped and less frequently on the types of materials used. The appendix also reproduces the general instructions for completing the standard length report forms. No instructions accompanied the short forms; all reporting instructions were contained on the form itself.

Copies of the basic punch cards utilized for tabulating the data reported on the 1963 Census of Manufactures forms are shown on page D-25. One card was used for punching data reported on the standard length form; the other for the short form.

For the 1963 Census of Manufactures, additional report forms were used to cover separately operated central administrative offices and auxiliary units, plants under construction but not operated in 1963, etc. Copies of these forms are not shown in this appendix but are described in the introductory text appearing at the beginning of this volume.

A copy of Form MC-D3, covering Department of Defense owned and operated establishments, primarily engaged in manufacture or in research and development, will be found on pages D-26 to D-29 of this appendix. Statistics developed from these forms will be found in the special report section of this volume.

On pages D-30 to D-31 is a copy of supplemental report form MA-175, Report on Shipments to or Receipts for Work Done for Federal Government Agencies and Their Contractors and Suppliers in 1963. Pages D-32 to D-33 contain a copy of supplemental form MA-161, Exports of Manufactured Products 1963. Data from both of these supplemental surveys are published in the special reports section of this volume.



U.S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS

FORM MC-35Q  
(3517)

# 1963 CENSUS OF MANUFACTURES

## INDUSTRIAL FURNACES AND OVENS

**PLEASE NOTE:**

- A.** The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. Incomplete and inaccurate answers will result in correspondence which is both costly and time consuming. Be sure to **complete every item**. Enter "0" in Items 2-8 if appropriate.
- B.** If book records are not available, reasonably accurate estimates for most items are acceptable for the statistical purposes of this survey.
- C.** Please complete and return this form in the envelope provided to the **Jeffersonville Census Operations Office, Jeffersonville, Indiana**. If filing by due date causes an undue burden, a request for extension should be directed to that office.
- D. SEE SUPPLEMENTAL INSTRUCTIONS ON PAGE 6.**
- E. PLEASE READ INSTRUCTIONS BEFORE COMPLETING REPORT.**

**ITEM 1. GENERAL INFORMATION**

**A. NAME OF ESTABLISHMENT**

**B. PHYSICAL LOCATION OF ESTABLISHMENT ON December 31, 1963.** (Your answers to this item should relate to the ACTUAL PHYSICAL LOCATION of this establishment which may be different from the mailing address.)

(1) Street and number of establishment location\*

\* If establishment location cannot be described by street and number, give name (and number, if any) of road or highway and sufficient information to locate establishment, e.g., Rt. 25, 3 miles south of Charlottesville.

(2) Place (Check type of place and enter name)

Type (Check first applicable one) Name of place

City

Village or Borough

Town

Township

Other (Specify)

(3) Is the establishment within the legal boundary of the place reported in (2) above? . . . . .  Yes  No

**CONFIDENTIAL**—Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation or regulation. Copies retained in your files are also immune from legal process.

In correspondence pertaining to this report please refer to the 11-digit file number in the box above your name.

MC-35Q (3517)

(Please correct if mailing address has changed)

**ITEM 2. NUMBER OF EMPLOYEES**

**Production Workers**—Workers (up through the working foreman level) engaged in fabricating, processing, assembling, inspecting, receiving, packing, warehousing, shipping (but not delivering), maintenance, repair, janitorial, watchman services, product development, auxiliary production for plant's own use (e.g., powerplant), recordkeeping, and other closely associated services. Exclude proprietors and partners.

**All Other Employees**—Nonproduction personnel, including those engaged in the following activities: supervision above working foreman level, sales (including driver salesmen), sales delivery (truck drivers and helpers), advertising, credit collection, installation and servicing of own products, clerical and routine office functions, executive, purchasing, finance, legal, personnel (incl. cafeteria, etc.), professional and technical. Exclude proprietors and partners.

(See Supplemental Instructions on Page 6)

**IMPORTANT:** Figures for dollars, man-hours and KWH (in Items 3-8) should be rounded to THOUSANDS. If you wish you may report to the nearest unit. In either case, **please be careful to enter your figures in the CORRECT COLUMNS.**

(See example at right)

**ITEM 3. PAYROLLS**

Enter the total (before deductions) of wages, salaries, bonuses, commissions, and other remunerations paid in 1963 to "Production Workers," and "All Other Employees," as defined in Item 2 above. Exclude payments to proprietors and partners.

(See Supplemental Instructions on Page 6)

| 1963   |        | 1963      |             | Key |
|--|--------|-----------|-------------|-----|
| a. March   | b. May | c. August | d. November |     |
| Number of production workers during pay period ended nearest 15th of—      |        |           |             | 0-1 |
| e. Sum of lines a-d  |        |           |             | 0-2 |
| f. AVERAGE NUMBER (Divide sum on Line e by 4—omit fractions and decimals.) |        |           |             | 0-3 |
| g. All other employees, March 15, 1963                                     |        |           |             | 0-4 |
| h. TOTAL NUMBER OF EMPLOYEES (Sum of lines f and g)                        |        |           |             | 0-5 |

| Mil-lions | Thou-sands | Dol-lars | Cen-ts |
|-----------|------------|----------|--------|
| 000       | 000        | 000      | XXX    |
| \$ 1      | 126        |          | XXX    |
| \$ 1      | 125        | 628      | XXX    |

If the payroll is \$1,125,628.28:

Preferred method →  
Acceptable method →

**EXAMPLE**

| Mil. | Thous. | Dol-lars | Cen-ts |
|------|--------|----------|--------|
|      |        |          | 1      |
| \$   |        |          | 1-1    |
| \$   |        |          | 1-2    |
| \$   |        |          | 1-3    |

a. Production workers' wages

b. All other employees' salaries and wages

c. TOTAL PAYROLL (Sum of lines a and b)



**ITEM 4. PLANT MAN-HOURS OF PRODUCTION WORKERS BY QUARTER**

Enter the total number of plant man-hours of production workers (as defined in Item 2 above) for each calendar quarter (or comparable 13-week period) of 1963. Do not include hours for paid vacations, holidays or sick leave.

| Quarter   | Millions | Thousands | Net | Code |
|---|----------|-----------|-----|------|
| a. January through March 1963   |          |           |     | 1-4  |
| b. April through June 1963  |          |           |     | 1-5  |
| c. July through September 1963  |          |           |     | 1-6  |
| d. October through December 1963  |          |           |     | 1-7  |
| e. TOTAL PRODUCTION WORKERS' MAN-HOURS (Sum of Lines a-d)                     |          |           |     | 1-8  |
| f. TOTAL COST (Sum of Lines a-e)  |          |           |     | 2    |
| a. Cost of materials, parts, components, containers, supplies, etc., consumed | \$       |           |     | 2-1  |
| b. Cost of goods sold without further manufacture, processing or assembly     | \$       |           |     | 2-2  |
| c. Cost of fuels consumed   | \$       |           |     | 2-3  |
| d. Cost of purchased electricity  | \$       |           |     | 2-4  |
| e. Cost of contract work done for you by others on your materials             | \$       |           |     | 2-5  |
| f. TOTAL COST (Sum of Lines a-e)  | \$       |           |     | 2-6  |

**ITEM 5. COST OF MATERIALS, FUELS, ELECTRICITY AND CONTRACT WORK**

On Lines a and c, report the cost of all items actually consumed or put into production in 1963, whether purchased, withdrawn from inventories, or received from other establishments of this company. Purchase records instead of consumption records may be used if purchases closely approximate consumption. "Cost" refers to amounts actually paid or payable after discounts, and includes freight and other direct charges incurred in acquiring the items. (See Supplemental Instructions on Page 6)

**ITEM 6. INVENTORIES OF THIS ESTABLISHMENT**

Report all inventories of this establishment at the beginning and end of 1963 on a comparable basis. The reported figures should be in terms of cost (if feasible, on a current cost basis).

| Type of inventory  | Beginning of 1963 |           |      | End of 1963 |           |      |
|--|-------------------|-----------|------|-------------|-----------|------|
|  | Millions          | Thousands | Cost | Millions    | Thousands | Cost |
| a. Finished products                                     | \$                |           |      |             |           |      |
| b. Work-in-process                                       | \$                |           |      |             |           |      |
| c. Materials, supplies, fuels, etc.                      | \$                |           |      |             |           |      |
| d. TOTAL (Sum of a, b, & c)                              | \$                |           |      | \$          |           |      |
| e. New structures and additions to plant                 | \$                |           |      |             |           |      |
| b. New machinery and new equipment                       | \$                |           |      |             |           |      |
| c. Used plant and used equipment acquired from others    | \$                |           |      |             |           |      |
| d. TOTAL CAPITAL EXPENDITURES (Sum of Lines a, b, and c) | \$                |           |      |             |           |      |

**ITEM 7. CAPITAL EXPENDITURES (Exclude land)**

Expenditures refer to all costs actually incurred during 1963 which are chargeable to the fixed assets accounts and which are of the type for which depreciation accounts are ordinarily maintained. Do not include the cost of maintenance and repairs charged as current operating expense. If you did not make any expenditure of the kind described, enter "0" on Line d.

(4) County

(5) State

**C. FORM OF OWNERSHIP AT END OF 1963**

- (Check one)
- 1  Individual proprietor
  - 2  Partnership
  - 0  Corporation (Do not include any form of cooperative association)
  - 8  Cooperative association (corporate or non-corporate)
  - 9  Other (Specify) \_\_\_\_\_

**D. FEDERAL SOCIAL SECURITY IDENTIFICATION NUMBER**

Enter identification number used for this establishment (as shown on Employer's Quarterly Federal Tax Return, Treasury form 941).

**E. COMPANY ORGANIZATION**

- (1) Does this company operate more than one place of business under the same Identification Number shown in D above? Yes  No
  - (2) Does this company own or control another company? Yes  No
  - (3) Is this company owned or controlled by another company? Yes  No
- (If "Yes" is checked in Part (3), give name and address of owning or controlling company.)

**FOR CENSUS USE ONLY**

|   |    |    |    |    |    |    |    |
|---|----|----|----|----|----|----|----|
| 1 | 2  | 3  | 4  | 5  | 6  | 7  | 8  |
|   |    |    |    |    |    |    |    |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

**ITEM 8**

**QUANTITY OF ELECTRICITY DURING 1963**

|   | Kilowatt hours | Key      |          |           |
|---|----------------|----------|----------|-----------|
|   |                | Billions | Millions | Thousands |
| <b>Include on Line a,</b> all electricity purchased   |                |          |          | 4-5       |
| <b>Include on Line b,</b> all electricity generated in this establishment whether for use by this establishment or for sale |                |          |          | 4-6       |
| <b>Include on Line c,</b> sales or transfers of electricity generated or purchased by this establishment                    |                |          |          | 4-7       |

**a.** Purchased electricity  
(For which cost is reported in Item 5d)

**b.** Generated electricity  
(Gross less generating station use)

**c.** Electricity sold or transferred to other plants

**ITEMS 9-11**

Not applicable to this form.

**ITEM 12**

**CHANGES IN OWNERSHIP OR OPERATION OF ESTABLISHMENT**

Please check proper box and furnish information requested below for 1963.

a. Did the company have any manufacturing plants under construction but not yet in operation during 1963? If "Yes," describe in Remarks Section.

b. Changes in ownership or operation of this establishment during 1963

(1) Purchased (Enter date, name, and address of former owner in Remarks Section)

(2) Sold (Enter date, name, and address of purchaser in Remarks Section)

(3) Discontinued operations:

(a) Plant dismantled or destroyed

(b) Inactive

(4) Reorganized (Partnership change or change in corporate status)

(5) Started new business in 1963 (No previous owner)

(6) Remained the same as in the previous year

(7) Other changes in ownership (Describe in Remarks Section)

|  | 1963 |    |
|--|------|----|
|  | Yes  | No |
|  |      |    |
|  |      |    |
|  |      |    |
|  |      |    |
|  |      |    |
|  |      |    |
|  |      |    |
|  |      |    |
|  |      |    |



**ITEM 13**

**CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT (Please complete this item after you have answered all items on the report.)**

The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report:

- a. Review the report carefully to see that no items are omitted for the year being covered.
- b. Enter the results after calculating the four "reasonableness" checks (described below) and review the results.
- c. Correct your report for any errors you find; explain unusual figures in Remarks Section.

| "Reasonableness" checks                         | Calculation required for each check<br>(Use figures reported in "Millions and Thousands" columns) | Resulting figures<br>for 1963 |
|---|---|-------------------------------|
| (1) Average hourly wages per production worker  | Item 3a (Production workers' wages) ÷<br>Item 4e (Total man-hours)                                | \$                            |
| (2) Hours worked per year per production worker | Item 4e (Total man-hours) X 1000 ÷<br>Item 2f (Average number of production workers)              | Hrs.                          |
| (3) Salaries and wages per dollar of shipments  | Item 3c (Total payroll) ÷<br>Item 18 (Total value of shipments)                                   | ¢                             |
| (4) Materials cost per dollar of shipments      | Item 5f (Total materials cost) ÷<br>Item 18 (Total value of shipments)                            | ¢                             |

(5) Is the total for value of shipments (Item 18) greater than the sum for payroll (Item 3c) plus total cost of materials, etc. (Item 5f)?

Yes  No (If "No," please explain in Remarks Section)

**ITEM 14**

**REMARKS PERTAINING TO THE REPORT**

**ITEM 15**

Not applicable to this form.

**1963 CENSUS OF MANUFACTURES**  
**INDUSTRIAL FURNACES AND OVENS—Continued**

Name of establishment (Same as address box)

4-8

**ITEM 16**

**INDUSTRIAL WATER USE DURING 1963**

a. The total quantity of water intake (fresh and brackish) in this establishment during the entire year 1963— (Check one box only)

- 1  Under 1 million gallons
- 2  1 to 9 million gallons
- 3  10 to 19 million gallons
- 4  20 to 99 million gallons
- 5  100 million gallons or over

b. Was your principal source of water (1) from a publicly- or privately-owned utility; or, (2) from other source? . . . 1  Utility 2  Other source

**ITEM 17**

**CONSUMPTION OF SELECTED MATERIALS DURING 1963**

REPORT SEPARATELY FOR EACH LISTED MATERIAL THAT WAS ACTUALLY CONSUMED OR PUT IN PRODUCTION DURING 1963

**Section A—CONSUMPTION OF MATERIALS PURCHASED OR RECEIVED FROM OTHER ESTABLISHMENTS**

**INSTRUCTIONS**

The sum (Line 17) of the costs of the listed items, including that for "All other materials, parts, containers, and supplies consumed," should be the same as Item 5a.

Detailed instructions regarding the valuation of materials transferred from other establishments of your company are included in the Instruction Manual.

If consumption records are unavailable, figures may be derived from purchase or receipt records. (See Instruction Manual)

For items produced in this establishment and consumed or incorporated in products made in this establishment, enter quantities in Section B of Item 17, Page 4.

**NOTE:** Cost figures preferably should be rounded to THOUSANDS OF DOLLARS. If you wish, you may report to the nearest dollar. Please be careful to enter your figures in the CORRECT COLUMNS. (See example at right)

**If \$5,000 or more of the listed item was consumed—**  
**Column (C)—Quantity**—Enter the quantity in the unit of measure specified in Column (B-2). Omit quantities if column is shaded.  
**Column (D)—Delivered Cost**—Enter the amount paid or payable, including delivery cost (freight-in).

**If some but less than \$5,000 of the listed item was consumed—**  
**Column (E)**—Enter an "X" in the box opposite the listed item. (Include the cost of materials checked with "All other materials, components, etc." Line 16.)

|    |          | Delivered cost (D) |         |
|----|----------|--------------------|---------|
|    | Millions | Thousands          | Dollars |
|    | 000      | 000                | 000     |
| \$ | 1        | 948                |         |
| \$ | 1        | 948                | 376     |

If the material cost for Line 1 is \$1,948,376:

Preferred method →  
Acceptable method →

**EXAMPLE**



| Line number | (A)                                      | (B-1)                | (B-2)                          | 7-2  |  | 7-3                |                    | 7-4   |                            |
|-------------|--|----------------------|--------------------------------|--|--|--------------------|--------------------|---|----------------------------|
|             |  |                      |                                | Consumption of purchased materials and of materials received from other establishments of your company | If \$5,000 or more of the listed item was consumed - | Delivered cost (D) | Delivered cost (D) |   |                            |
|             | Materials, parts and supplies            | Census material code | Unit of measure for quantities | Quantity   | Mil- lions   | Thou- sands        | 000                | If you consumed some but less than \$5,000 worth of the listed item - (Enter an "X" in the box) |                            |
|             | (A)                                      | (B-1)                | (B-2)                          | (C)  | 000  | 000                | 000                | (E)   |                            |
| 1           | MILL SHAPES AND FORMS (except castings)  | Carbon steel         | Short tons                     | Sheet and strip  | \$   |                    |                    | <input type="checkbox"/> 1  |                            |
| 2           |  |                      |                                | Plates   | \$   |                    |                    | <input type="checkbox"/> 1  |                            |
| 3           |  |                      |                                | Structural shapes  | \$   |                    |                    |   | <input type="checkbox"/> 1 |
| 4           |  |                      |                                | All other carbon steel mill shapes and forms   | \$   |                    |                    |   | <input type="checkbox"/> 1 |
| 5           | Alloy steel (except stainless)           | 331012               | Short tons                     |  | \$   |                    |                    | <input type="checkbox"/> 1  |                            |
| 6           |  |                      |                                | 331013   | Short tons   |                    | \$                 |   | <input type="checkbox"/> 1 |
| 7           | Stainless steel                          | 331015               | Short tons                     |  | \$   |                    |                    | <input type="checkbox"/> 1  |                            |
| 8           |  |                      |                                | 331019   | Short tons   |                    | \$                 |   | <input type="checkbox"/> 1 |
| 9           | Copper and copper-base alloy             | 331020               | Thousand pounds                |  | \$   |                    |                    | <input type="checkbox"/> 1  |                            |
| 10          |  |                      |                                | 331031   | Thousand pounds                                      |                    | \$                 |   | <input type="checkbox"/> 1 |
| 11          | Aluminum and aluminum-base alloy         | 335728               | Thousand pounds                |  | \$   |                    |                    | <input type="checkbox"/> 1  |                            |
| 12          |  |                      |                                | 335790   | Thousand pounds                                      |                    | \$                 |   | <input type="checkbox"/> 1 |
| 13          | Steel castings (rough and semi-finished) | 335102               | Thousand pounds                |  | \$   |                    |                    | <input type="checkbox"/> 1  |                            |
| 14          |  |                      |                                | 335123   | Thousand pounds                                      |                    | \$                 |   | <input type="checkbox"/> 1 |
| 15          | Steel castings (rough and semi-finished) | 335127               | Thousand pounds                |  | \$   |                    |                    | <input type="checkbox"/> 1  |                            |
| 16          |  |                      |                                | 335202   | Thousand pounds                                      |                    | \$                 |   | <input type="checkbox"/> 1 |
| 17          | Steel castings (rough and semi-finished) | 335205               | Thousand pounds                |  | \$   |                    |                    | <input type="checkbox"/> 1  |                            |
| 18          |  |                      |                                | 335209   | Thousand pounds                                      |                    | \$                 |   | <input type="checkbox"/> 1 |
| 19          | Steel castings (rough and semi-finished) | 332300               | Short tons                     |  | \$   |                    |                    | <input type="checkbox"/> 1  |                            |
| 20          |  |                      |                                | 332300   | Short tons   |                    | \$                 |   | <input type="checkbox"/> 1 |

Please continue on Page 4







PLEASE READ THE ENTIRE LIST OF PRODUCTS AND SERVICES BELOW BEFORE ANSWERING THIS INQUIRY

**INSTRUCTIONS**

**Report on Lines 1-20 for oil products made;** and on Lines 21-26 for **services and other activities** performed at this establishment during 1963.

**DO NOT COMBINE PRODUCT LINES.** If any of your products are not included in the listed items, report these on Lines 17-20.

**Products shipped and other receipts**—Report the quantity and value of each product made and physically shipped during 1963 from this establishment, **including products shipped to other plants**, sales branches, retail stores, or warehouses of your company and on consignment. Deduct returned goods. Also report the value of services performed at this establishment.

**Column (D)**—**Quantity**—Report quantities in number of units. Omit quantities if column is shaded.

**Column (E)**—**Value, f.o.b. plant**—Report totals based on net selling values, f.o.b. plant. Net selling values should not include discounts, allowances, freight charges, and excise taxes.

**Companies transferring products from this establishment to other manufacturing plants, sales branches, retail stores, or warehouses, should carefully study and follow instructions appearing in the Instruction Manual.**

**Installation (or construction of product)**—See Supplemental Instructions on Page 6.

Report on Line 26 the selling value, f.o.b. plant, of products which were resold as originally purchased and not used in further manufacturing, processing, or assembling of products made in this establishment.

**NOTE:** Value figures preferably should be rounded to **THOUSANDS OF DOLLARS**. If you wish, you may report to the nearest dollar. **Please be careful to enter your figures in the CORRECT COLUMNS.** (See example at right)

**EXAMPLE**

If the value of products for Line 3 is \$1,125,328.28:

| Value, f.o.b. plant (E) |             | Value, f.o.b. plant (E) |         |
|-------------------------|-------------|-------------------------|---------|
| Mil- lions              | Thou- sands | Dol- lars               | Cen- ts |
| 000                     | 000         | 000                     | XX      |
| \$ 1                    | 125         |                         | XX      |
| \$ 1                    | 125         | 328                     | XX      |

Preferred method →  
Acceptable method →

| Line number | Products and services (A)                                |  | Census product code (B-1) | Quantity (Number of units) (D) | Value, f.o.b. plant (E) |             |
|-------------|--|--|---------------------------|--------------------------------|-------------------------|-------------|
|             | Products shipped and other receipts                      | Products shipped and other receipts  |                           |                                | Mil- lions              | Thou- sands |
| 1           | ELECTRIC INDUSTRIAL FURNACES AND OVENS, METAL PROCESSING | Electric furnaces (excluding induction)  | 35671 11 45               |                                |                         | XX          |
|             |  | Metal melting  |                           |                                |                         |             |
| 2           | ELECTRIC INDUSTRIAL FURNACES AND OVENS, METAL PROCESSING | Metal processing and heat treating (such as annealing, hardening, carburizing, and porcelain enameling furnaces) | 35671 21 35               |                                |                         | XX          |
|             |  | Electrle, including infrared, industrial ovens   |                           |                                |                         |             |
| 3           |  |  | 35671 43 75               |                                |                         | XX          |

Please continue on Page 5

FORM MC-35Q U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS  
 1963 CENSUS OF MANUFACTURES  
 INDUSTRIAL FURNACES AND OVENS—Continued

File No. \_\_\_\_\_  
 Name of establishment (Same as address box) \_\_\_\_\_

Page 5

**ITEM 18 PRODUCTS AND SERVICES OF THIS ESTABLISHMENT DURING 1963—Continued**

See example on Page 4 (instructions) for reporting values

| Line number | Products and services<br>(A)  | Census product code<br>(B-1) | B-3                           |                            | B-4                                 |     |
|-------------|---|------------------------------|-------------------------------|----------------------------|-------------------------------------|-----|
|             |   |                              | Quantity<br>(Number of units) | Value, f.o.b. plant<br>(E) | Products shipped and other receipts | B-4 |
|             |   |                              |                               |                            |                                     |     |
| 4           | FUEL FIRED INDUSTRIAL FURNACES AND OVENS, METAL-PROCESSING  | 35672 11 25                  |                               |                            |                                     |     |
| 5           | Metal melting, including blast furnaces and cupolas   |                              |                               |                            |                                     |     |
| 6           | Metal processing and heat treating (such as annealing, hardening, carburizing, and porcelain enameling furnaces)  | 35672 21 15                  |                               |                            |                                     |     |
| 7           | Industrial ovens  | 35672 41 95                  |                               |                            |                                     |     |
| 8           | Hot rolling, forging, forming, and extruding  | 35672 61 75                  |                               |                            |                                     |     |
| 9           | Induction furnaces and heating equipment  |                              |                               |                            |                                     |     |
| 10          | Radio frequency type, including spark gap   | 35673 13 65                  |                               |                            |                                     |     |
|             | Line and motor-generator set frequency types  | 35673 15 15                  |                               |                            |                                     |     |
| 11          | Dielectric heating equipment (corresponds to Code 3567331 on Census Annual Form MA36N, Selected Electronic and Associated Products for 1963)  | 35673 31 85                  |                               |                            |                                     |     |
| 12          | Other electrical equipment for industrial use, except soldering irons<br>Industrial electric heating units and devices (except heating units for electric furnaces)<br>Tubular heaters<br>All other industrial electric heating units and devices (include strip, space, and ring heaters; water and oil immersion heaters; glue and compound pots, etc.) | 35673 51 65                  |                               |                            |                                     |     |



|    |  |   |             |  |    |    |
|----|--|---|-------------|--|----|----|
| 13 | Parts, attachments, and components for industrial furnaces and ovens, including electric heating units (sold separately) | 35673 91 25   |             |  |    | XX |
| 14 | Electric nonmetallic processing industrial furnaces and ovens, including kilns and lehrs                                 | 35595 91 72   |             |  | \$ | XX |
| 15 | Fuel fired kilns (cement, wood, and chemical processing)   | 35595 92 52   |             |  | \$ | XX |
| 16 | Other nonmetallic processing industrial furnaces and ovens, including kilns and lehrs                                    | 35595 33 82   |             |  | \$ | XX |
| 17 | ALL OTHER PRODUCTS MADE IN THIS ESTABLISHMENT  |   |             |  | \$ | XX |
| 18 |  |   |             |  | \$ | XX |
| 19 |  |   |             |  | \$ | XX |
| 20 |  |   |             |  | \$ | XX |
| 21 | CONTRACT WORK  | 93000 00 85   |             |  | \$ | XX |
| 22 | MISCELLANEOUS RECEIPTS   |   |             |  | \$ | XX |
| 23 |  | Sales of scrap and refuse   | 99980 13 86 |  | \$ | XX |
| 24 |  | Receipts for repair work  | 99980 61 76 |  | \$ | XX |
| 25 |  | Receipts for installation (or construction of products of this establishment) (See instructions on Page 6 for reporting of installation costs in Items 2, 3, 5, and 18) | 99980 31 06 |  | \$ | XX |
| 26 | RESALES  | 99980 98 96   |             |  | \$ | XX |
| 27 | TOTAL (Sum of figures on Lines 1-26, Column (E))   | 77000 00 88   |             |  | \$ | XX |

**ITEM 19**

**FACTORY AND FIELD ASSEMBLY OF INDUSTRIAL FURNACES AND OVENS**

Report the 1963 value of shipments for field and factory assembly of industrial furnaces and ovens reported in Item 18, Column (E), Lines 1-16. (See example on Page 4, Item 18 (Instructions), for reporting value of shipments in Column (C).)

| Line No. | Industrial furnaces and ovens (A) | Code (B) | Value of shipments (C) |           |
|----------|-----------------------------------|----------|------------------------|-----------|
|          |                                   |          | Millions               | Thousands |
| 1        | Field assembled                   | 44       | \$                     |           |
| 2        | Factory assembled                 | 55       | \$                     |           |

**ITEM 20**

**SELECTED METALWORKING AND RELATED OPERATIONS PERFORMED IN THIS ESTABLISHMENT DURING 1963**

**Section A**— Were any of the specified metalworking operations listed below performed in this establishment in 1963?

| Key | Yes                      |                          | No                       |                          |
|-----|--------------------------|--------------------------|--------------------------|--------------------------|
|     | 9-1                      | 20                       | 9-2                      | 1                        |
|     | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |

(Check one box)

**Section B**— If "Yes," indicate in Column (C) by checking appropriate boxes, which of the specified operations were performed in this establishment during 1963. A check should be entered either in the "Yes" box or "No" box for each operation. Where the "Yes" box is checked, show in Column (D) the approximate number of production workers on all shifts usually engaged in the specified operation.

| Line number | Operation (A)                                | Census Code (B) | Was this operation performed in this establishment during 1963? (C) |                          | Number of production workers (on all shifts) usually employed when operated (estimate if necessary) (D) |
|-------------|--|-----------------|---|--------------------------|---|
|             |  |                 | Yes   | No                       |   |
| 1           | Machine shop                                 | 09              | <input type="checkbox"/>  | <input type="checkbox"/> |   |
| 2           | Plate or structural fabrication              | 12              | <input type="checkbox"/>  | <input type="checkbox"/> |   |
| 3           | Stamping, blanking and forming of metals     | 13              | <input type="checkbox"/>  | <input type="checkbox"/> |   |
| 4           | Painting, lacquering and enameling on metals | 14              | <input type="checkbox"/>  | <input type="checkbox"/> |   |

**ITEM 21**

Not applicable to this form.



REMARKS

|                         |  |                          |
|-------------------------|--|--------------------------|
| <b>PERIOD OF REPORT</b> | This report covers the period from _____ to _____  |                          |
| <b>ITEM 22</b>          | Name of person to be contacted regarding this report   | Address<br>Telephone No. |
| <b>ITEM 23</b>          | <b>CERTIFICATION</b> —This report is substantially accurate and has been prepared in accordance with instructions. |                          |
|                         | Name of company  | Address                  |
|                         | Signature of authorized official   | Title<br>Date            |

**Supplemental Instructions**  
**The following instructions supplement the "General Instructions to Manufacturers for Preparing Reports"**

**INSTALLATION (OR CONSTRUCTION) OF PRODUCTS OF YOUR OWN MANUFACTURE**

(These instructions apply to companies engaged in installing or erecting their own manufactured products)

**When your product is installed or erected by a labor force separate from the regular force attached to your manufacturing establishment, do not include installation costs.**—The separate labor force may consist either of a distinct group of your employees not attached to your manufacturing plant, or of local labor hired by you in the field, or a combination of both of these. This labor force should be omitted from the sections on employment and payrolls (Items 2 and 3); the value of the installation services should not be included in the section on products shipped (Item 18); and, the amounts reported for cost of materials, etc. (Item 5), should be restricted to factory operations. However, include in Items 2g and 3b engineering and supervisory personnel on your regular plant payroll who may be engaged in installing or testing your products. If your records do not provide exact figures to serve as the basis for segregating these installation costs, carefully prepared estimates will be acceptable.

**When your product is installed or erected by the regular labor force of your manufacturing plant, operating out of the plant itself, installation costs and the value of installation services should be included.**—In installations of this type the employees will not be a separate group of workers located away from the premises of the manufacturing plant.

Include these workers engaged in installing your products in Items 2 and 3, "Employment and Payrolls 1963."

Receipts for installation services should be reported separately on Line 24, Item 18.

Do not include these receipts in the value of industrial furnaces and ovens as reported on Lines 1-16, Item 18.

If your records do not provide exact figures on the value of installation work, carefully prepared estimates will be acceptable.

In no case should installation costs (or the value of the service) be included in your report where the installing or erecting is performed by a separate company, whether the services of that company have been contracted for by your customer or by yourself.

**Please state in the Remarks Section of this form whether you install or erect your manufactured products.**—If you do such installation or erecting, you should further indicate whether or not the installation costs and value of such services are included in your report (using the above instructions as the basis for reporting).



## 1963 CENSUS OF MANUFACTURES

## REPORTING INSTRUCTIONS

*In all correspondence with the Census Bureau, please include the 11-digit file number which appears in the address box of the report form. High-speed electronic equipment will be used to identify both the correspondence and the reports in the 1963 Economic Censuses. If your correspondence does not include the Census file number, it will be returned for the addition of that number. Address all correspondence to JEFFERSONVILLE CENSUS OPERATIONS OFFICE, 1208 East 10th Street, Jeffersonville, Indiana.*

*Please do not mark or mar the two lines of symbols above the address on each form. These symbols or rectangles which are unique to each establishment will be photographed and used to record mechanically the receipt of your report form.*

*As you complete the reports for each establishment, please enter the 11-digit file number at the top of the odd numbered pages as requested.*

This booklet is provided to assist you in filling out the enclosed Census of Manufactures form(s) MC19A through MC39L. Please read these instructions and those appearing on the individual report forms for each item before entering your figures.

#### A. Who Should Report?

The Census of Manufactures reports are required by an Act of Congress (13 U.S.C.). The reports submitted are confidential and may be seen only by sworn Census employees. They may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.

Every concern is required to submit a separate Census report for each of its manufacturing establishments in the United States, the Virgin Islands, and Guam. Enterprises with more than one establishment must submit a separate report for each establishment operated during all or any part of 1963. Reports should be returned to the Jeffersonville Census Operations Office as shown on the enclosed envelope.

Based on Census Bureau records, a report form is provided for each establishment which your company operated in 1963. If you have not received sufficient forms to cover all the manufacturing establishments operated by your company, write for additional copies. Be sure to describe the type of activity carried on at the establishments for which you request additional forms.

#### 1. What Is a Manufacturing Establishment?

For purposes of the Census, a manufacturing establishment is defined as a single physical location where manufacturing operations are performed; for example, a factory, mill, or plant. Since the information reported will be summarized to totals for each industry, State, county and standard metropolitan statistical area, separate reports are required for different physical locations even though the establishments may be engaged in the same line of manufacturing.

If your company operates two or more units in distinctly different lines of manufacturing at the same location, you should also file a separate establishment report for each unit, provided separate records are maintained or substantially accurate reports for these separate activities can be prepared. It is not necessary to file separate reports for departments or organizational subdivisions within an establishment.

In completing your reports, a limited amount of prorating or estimating is acceptable when book records are not readily available.

#### 2. How To Report for Establishments not in Operation During 1963?

If any of your company's manufacturing establishments were not in operation at all during 1963, you should nevertheless return the report for each such establishment with a notation as to its status in Item 12 "Changes in ownership or operation of the establishment." If a manufacturing location was not in production, but had custodial employees, maintained inventories, or made shipments during the year, the information should be reported in the appropriate section of the report form.

#### B. What Activities Should Be Reported?

Each report should cover all the activities (manufacturing, fabricating, processing, and assembling) conducted within the establishment. The reported figures should also include activities such as the maintenance of plant and equipment, receiving, shipping, warehousing, storage, research, record keeping, health, safety, cafeteria, and other services, when carried on at the same physical location by the manufacturing establishment. The manufacturing establishment reports should exclude sales branches, sales offices, research laboratories, retail stores, mining activities, and general administrative offices, if they are operated as separate establishments. However, separate Census of Business, Census of Mineral Industries, or Central office or auxiliary reports should be submitted for each of these establishments.



Please note that establishments engaged in the activities listed below are considered to be manufacturing for the purposes of this Census:

Apparel jobbing and contracting  
Assembling from purchased components  
Commission processing of materials owned by others  
Job casting, stamping, machinery  
Lapidary work  
Logging camps and logging  
Machine shops, including those operating on a job order basis  
Manufacturing and delivering ready-mixed concrete  
Milk pasteurizing and bottling  
Plating, galvanizing, polishing materials owned by others etc.  
Poultry dressing  
Printing  
Publishing: Book, magazine, periodical, etc.  
Rebuilding on a factory basis  
Sawmills  
Seafood, fresh packaged or frozen  
Ship and boat repairing  
Wood preserving

#### C. What Period Should Each Report Cover?

Each report should cover the calendar year 1963. If your book records are not on a calendar year basis, carefully prepared estimates will be acceptable. If reporting on a calendar year basis will involve considerable additional costs, and your fiscal year covers at least 10 months of calendar year 1963 (i.e., ends between October 31, 1963 and February 29, 1964), you may report on a fiscal basis. However, all employment, payroll, and man-hour figures should relate to the calendar year rather than the fiscal year. (These calendar year payroll records should be available from your tax records.)

In the certification, the dates should show the exact period which the report covers. Thus, if an establishment began to operate or ceased to operate within the year, the dates should span only that part of the year during which the plant was in operation. If the ownership changed during the year, complete the report only for that part of 1963 in which your company owned and operated the establishment. Report in Item 12 the appropriate information on changes in ownership or operations.

#### D. How Should Multiple Establishment Companies Determine Transfer Values of Products and Materials from One Establishment to Another ("Interplant Transfers")?

One of the important statistical measures of manufacturing activity is "value added by manufacture," which is derived by the Census Bureau from the figures reported for value of shipments, cost of materials and inventories.

In order for statistics on value added and other subjects to be comparable from industry to industry or area to area, it is necessary that the operations of each establishment of a multiple establishment organization be reported as though the establishment were a separate "economic" unit. This means that the value of interplant transfers within a company should include, in addition to

direct costs of production, a reasonable proportion of "all other costs (company overhead) and profits." The establishments receiving such transfers should report them as materials consumed (or inventories of materials, etc.) at the same value plus costs of freight and other direct handling charges. (See Item 5.)

#### ITEMS ON THE REPORT FORM

Item 1. (See instructions on Form.)

Item 2. Number of employees.—(You may follow the definition of employees specified by your State Employment Security Agency.)—Report employees at the establishment who worked or received pay for any part of the pay period (preferably one week) ending nearest the 15th of the specified months (i.e., March, May, August, and November of 1963 for "production workers" and March only for "all other employees"). Include all persons on paid sick leave, paid holidays, and paid vacation during these pay periods; exclude members of armed forces and pensioners carried on your active rolls. Include officers at this establishment, if a corporation; if an unincorporated concern, exclude proprietor or partners.

Items 2e and 2f.—Divide the total on Line 2e by FOUR and enter the result on Line 2f; divide by FOUR even if the establishment did not operate in all four periods.

Item 3. Payrolls. (You should follow the definition of salaries and wages that is used for calculating the withholding tax.) Report the gross earnings paid in calendar year 1963 to employees on the payroll at the establishment prior to such deductions as employee's Social Security contributions, withholding taxes, group insurance premiums, union dues, and savings bonds. Include in gross earnings commissions, dismissal pay, pay bonuses, vacation and sick-leave pay, and the cash equivalent of compensation paid in kind. Include salaries of officers of this establishment, if a corporation; if an unincorporated concern, exclude payments to proprietor or partners. Exclude payments to agricultural employees, fishermen, members of armed forces, and pensioners carried on your active payroll.

Item 4. Plant Man-Hours of Production Workers, by Quarter.—"Plant man-hours" of production workers are designed to measure the over-all activity of the plant during each quarter. The figures should include all man-hours worked or paid for, except hours paid for vacations, holidays, or sick leave. If an employee elects to work during the vacation period, report only actual hours worked by such employee. Overtime hours should be reported as actual hours worked, not straight-time equivalent hours.

Item 5. Cost of Materials, Fuels, Electricity and Contract Work.—The entries in this item are used by the Census Bureau to calculate the 1963 value added by manufacture. The figures reported, therefore, should represent the total cost of materials, supplies, semi-finished goods, fuels, etc., actually consumed or put into production during 1963.

If your records do not show the amounts actually consumed or put into production during 1963, the reported figures may be derived from purchase and other records. Cost of purchases may be used if these do not differ significantly from the amounts actually used. However, if



consumption of any major item differs significantly from purchases, the amount used may be estimated by adding beginning inventories to the amounts purchased and subtracting from this total the cost of goods on hand at the end of the year.

Cost is delivered cost and should be the amount actually paid or payable after discounts and should include freight and other direct charges incurred by the establishment in acquiring materials and supplies consumed. The cost figures for consumption should represent receipts from all sources, i.e., amounts purchased from other establishments, withdrawn from inventories, or obtained from other establishments of the same company. However, if intermediate products were made in this establishment in 1963 and incorporated into other products also made in this establishment, the reported figures should only include the costs of the materials from which the semi-finished items were made.

For materials, parts, and supplies received from other establishments of your company, cost should be checked against the values reported for the plant producing and transferring the codes (see Item D above). Freight and other direct handling charges should be added.

**Item 5a. Cost of Materials, Parts, Components, Containers, Supplies, Etc., Consumed.**—The delivered cost figures reported in Item 5a should cover all raw materials, containers, scrap, and supplies, etc., which were: (1) put into production, (2) used as operating supplies, (3) used in repair and maintenance. Include also cost of materials owned by you but consumed by other companies to make products for your establishment under contract. Amounts paid to other companies for such contract work should be reported on Line 5e and should include freight in and out. If semi-finished goods, parts, or components were produced during 1963 and incorporated into finished products at the same plant during 1963, include the cost of raw materials used rather than the value of the intermediate products.

Include only physical goods used or put into production. Exclude services used or overhead charges. Exclude cost of such services as advertising, telephone, telegram and cable, insurance, developmental and research services or engineering, management, marketing and other professional consultants, etc., unless charges for such services are included in the prices paid for materials. Exclude also such overhead items as depreciation charges against plant and equipment; rent and rental allowances, interest payments, royalties, and patent fees. Exclude materials, supplies, machinery, and equipment which were used in the construction of new structures or additions to your plant, or new machinery and equipment, and which are chargeable to fixed assets accounts. Exclude products purchased and resold without further manufacture or processing or assembly; their costs should be included in Item 5b.

**Item 5b. Cost of Goods Sold Without Further Manufacture, Processing or Assembly in this Establishment.**—Report the cost of all products bought and resold in the same condition as when purchased and not made part of another product manufactured by this establishment. (Total sales value of all products resold is to be reported in Item 18 on the line for "Resales.")

**Item 5c. Fuel Consumed.**—Report the total amount actually paid or payable during 1963 for all fuels consumed for heat, power, or the generation of electricity. Do not include the estimated cost of fuels, such as sawdust or blast furnace gas, produced as a byproduct of your manufacturing activities. Include anthracite and bituminous coal, coke, natural and manufactured gas, fuel, oil, liquified petroleum gas, gasoline, and all other fuels including purchased steam. For selected industries, such as Carbon Black, Blast Furnaces and Coke Ovens, special reporting instructions on the report form provide that the above fuel types should be reported as materials in Item 5a rather than as a fuel Item 5c.

**Item 5d. Purchased Electric Energy.**—Report the total amount actually paid or payable for electric energy purchased during 1963 from other companies, or received from other establishments of your company. Exclude the value of electricity generated and used at this establishment.

**Item 5e. Cost of Work Done for You by Others on Your Own Materials (Contract Work).**—If any work was done by others on materials furnished by your establishment, report the total payments made during 1963 for such work, including freight out and in. Exclude the cost of materials worked on, which should be included in Item 5a.

**Item 6. Inventories of this Establishment.**—See report form.

**Item 7. Capital Expenditures for This Establishment (Exclude Expenditures for Land).**—Capital expenditures during 1963 may be determined by the following computation: The cost of additions completed during the year, plus construction-in-progress at the end of the year, minus construction-in-progress at the beginning of the year.

**Item 7a. New Structures and Additions to Plant.**—Report total expenditures during 1963 for new construction, (whether constructed on contract or by your own forces) major alterations, capitalized repairs, and improvement of buildings (including all new elevators, cranes, heating and ventilating equipment, essentially a part of the buildings), other fixed structures (such as blast furnaces, brick kilns, fractionating towers, shipways, and similar types of structures), and site improvements (such as roads, docks, tracks, parking lots, fences, utilities.)

**Item 7b. New Machinery and New Equipment.**—Report total expenditures at this establishment for new production machinery and equipment and other new machinery and equipment. Include replacements as well as additions to capacity. Include the value of improvements and capitalized repairs to machinery and equipment transferred from other establishments of this company or produced and used at this establishment. Include all new motors, lathes, punch presses and similar machinery and equipment for use in production, as well as all new office machines and fixtures, furniture, cafeteria and dressing room furnishings, automobiles and trucks, and other similar equipment.

**Item 7c. Used Plant and Used Equipment Acquired from Others.**—Report total expenditures at this establishment for old or existing plants and for second-hand equipment acquired from others (including the U.S. Government). Include at approximate market value machinery or equipment transferred from other plants of your company.



Item 8. Quantity of Electricity.—All quantities for electricity preferably should be reported in thousands of kilowatt hours. Please be careful to enter your figures in the CORRECT COLUMNS.

Item 8a. Purchased Electricity.—Report the quantity for which cost is reported in Item 5d.

Item 8b. Generated Electricity.—Enter the total quantity of electric energy generated in this plant (gross less generating station use) during 1963.

When totals are reported on this line, data relating to the activity of the power stations would also be included in other sections of this report. For example, the number of employees assigned to the power station, their wages and man-hours should be included in the figures reported in Items 2, 3, and 4; and the cost of fuels used to generate electricity, in Item 5c.

Item 8c. Electricity Sold or Transferred.—Enter the quantity of electric energy, which was also included in Items 8a and 8b but which was sold to other companies or transferred, to other manufacturing or non-manufacturing establishments of your company.

Items 9-11.—Not applicable to these forms.

Items 12-15.—See Report forms.

Item 16. Industrial Water Use During 1963 (See Instructions on Forms).—A selected group of establishments, consisting mainly of those consuming large quantities of water, will be required to supply the following additional detail on water consumed during 1964: total intake during the year distributed by source and type of use; quantity discharged; quantity recirculated; and quantity treated.

Items 17-23.—(See instructions on form.)

Period of Report.—Enter the month and day of the beginning and the end of period your report covers. If a calendar year report: "From January 1 to December 31, 1963;" if a fiscal year, specify which (such as "From December 1, 1962 to November 30, 1963).” If a part year report is submitted because the establishment was not in operation or under your company’s control for the entire year, specify the actual period covered: For example, January 1, 1963 to August 15, 1963 or June 1 to December 31, 1963.

U.S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS

**ANNUAL SURVEY OF MANUFACTURES**

(For 1963 this is the front sheet of the 1963 Census of Manufactures form)

**CONFIDENTIAL** - Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.

In correspondence pertaining to this report please refer to the 11-digit file number in the box above your name.

|       |   |   |
|-------|---|---|
| TAB   | V | X |
| IND-D | 2 |   |
| IND-T | 3 |   |
| AREA  | 4 |   |
| INFL  | 5 |   |
| S     | 6 |   |
| PPN   | 7 |   |

**COMPLETE EVERY ITEM (Enter "0" when appropriate)**

**ITEM 2 NUMBER OF EMPLOYEES**

Number of production workers during pay period ended nearest 15th of -

o. March  
b. May  
c. August  
d. November

Sum of Lines a through d

**f. AVERAGE NUMBER**  
(Divide sum on Line e by 4 - omit fractions and decimals)

**g. All other employees, March 15th**

**h. TOTAL NUMBER OF EMPLOYEES**  
(Sum of Lines f and g)

| 1962 | 1963 | 1964 | Key |
|------|------|------|-----|
|      |      |      | 0-1 |
|      |      |      | 0-2 |
|      |      |      | 0-3 |
|      |      |      | 0-4 |
|      |      |      | 0-5 |
|      |      |      | 0-6 |
|      |      |      | 0-7 |
|      |      |      | 0-8 |

**IMPORTANT: Report Items 3-11 in thousands. (If total payroll is \$15,662, enter \$16)**

| ITEM 3 PAYROLLS (\$000)                         | ITEM 4 PLANT MAN-HOURS OF PRODUCTION WORKERS BY QUARTER (000)       | ITEM 5 COST OF MATERIALS, FUELS, ELECTRICITY, CONTRACT WORK (\$000) |
|---|---|---|
| o. Production workers' wages                    | o. January through March  | o. Cost of materials, parts, components, containers, etc., consumed |
| b. All other employees' salaries and wages      | b. April through June   | b. Cost of products bought and resold as such                       |
| <b>c. TOTAL PAYROLLS (Sum of Lines a and b)</b> | c. July through September   | c. Cost of fuels consumed   |
|   | d. October through December   | d. Cost of purchased electricity                                    |
|   | <b>e. TOTAL PRODUCTION WORKERS' MAN-HOURS</b><br>(Sum of Lines o-d) | e. Cost of contract work done for you by others on your materials   |
|   |   | <b>f. TOTAL COST (Sum of Lines a-e)</b>                             |

**ITEM 1 - GENERAL INFORMATION**

A. NAME OF ESTABLISHMENT

B. PHYSICAL LOCATION OF ESTABLISHMENT on December 31, 1963. (Your answers to this item should relate to the ACTUAL PHYSICAL LOCATION of this establishment which may be different from the mailing address.)

(1) Street and number at establishment location \*

\* If establishment location cannot be described by street and number, give name (and number, if any) of road or highway and sufficient information to locate establishment, e.g., Rt. 25, 3 miles south of Charlottesville.

(2) Place (Check type of place and enter name)

|   |               |
|---|---------------|
| Type (Check first applicable one)           | Name of place |
| <input type="checkbox"/> City               |               |
| <input type="checkbox"/> Village or borough |               |
| <input type="checkbox"/> Town               |               |
| <input type="checkbox"/> Township           |               |
| <input type="checkbox"/> Other (Specify)    |               |



(3) Is the establishment within the legal boundary of the place reported in (2) above?  Yes  No

(4) County \_\_\_\_\_

(5) State \_\_\_\_\_

C. FORM OF OWNERSHIP AT END OF 1963  
(Check one)

1  Individual proprietor

2  Partnership

0  Corporation (Do not include any form of cooperative association.)

8  Cooperative association (corporate or noncorporate)

9  Other (Specify) \_\_\_\_\_

D. FEDERAL SOCIAL SECURITY IDENTIFICATION NUMBER

Enter identification number used for this establishment (as shown on Employer's Quarterly Federal Tax Return, Treasury Form 941).

1963 \_\_\_\_\_

1964 \_\_\_\_\_

E. COMPANY ORGANIZATION

(1) Does this company operate more than one place of business under the same Identification Number shown in D above?  Yes  No

(2) Does this company own or control another company?  Yes  No

(3) Is this company owned or controlled by another company?  Yes  No

(If "Yes" is checked in Part (3), give name and address of owning or controlling company.)

| FOR CENSUS USE ONLY |    |    |    |    |    |    |    |
|---------------------|----|----|----|----|----|----|----|
| 1                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9                   | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

| ITEM 6<br>INVENTORIES OF THIS ESTABLISHMENT AT END OF YEAR (\$000)                                     | ITEM 7<br>CAPITAL EXPENDITURES DURING YEAR (Exclude land) (\$000) | ITEM 8<br>QUANTITY OF ELECTRICITY (Thous. of KWH)            | ITEM 9<br>VALUE OF PRODUCTS SHIPPED AND OTHER RECEIPTS (\$000) | Product classes of this establishment (Describe)  | Product Class Code (See manual) | 1962                            | 1963 | 1964 |
|--|---|--|--|---|---------------------------------|---------------------------------|------|------|
|  |   |  |  |   |                                 | 3-1                             | 3-2  | 3-3  |
| a. Finished products inventories   | a. New structures and additions to this plant                     | a. Purchased electricity (for which cost is reported in 5d)  |  |   |                                 |                                 |      |      |
| b. Work-in-process inventories   | b. New machinery and new equipment                                | b. Generated electricity (gross less generating station use) |  |   |                                 |                                 |      |      |
| c. Materials, supplies, fuels, etc., inventories   | c. Used plant and used equipment acquired from others             | c. Electricity sold or transferred to other establishments   |  |   |                                 |                                 |      |      |
| d. TOTAL INVENTORIES, END OF YEAR (Sum of a-c)   | d. TOTAL CAPITAL EXPENDITURES (Sum of Lines a-c)                  |  |  |   |                                 |                                 |      |      |
|  |   |  |  | h. Insert total value of shipments reported in Item 9A on reverse side.   |                                 |                                 |      |      |
|  |   |  |  | i. Receipts for work or services performed by you for others on their materials (Describe)                            | 93000                           |                                 |      |      |
|  |   |  |  | j. Miscellaneous receipts (Repair work, installation, sales of scrap, etc.) (Describe)                                | 99980                           |                                 |      |      |
|  |   |  |  | k. Sales of products bought and resold without further manufacture, processing, or assembly. (Report cost in Item 5b) | 99989                           |                                 |      |      |
|  |   |  |  | l. TOTAL (Sum of values in Lines a-k)   | 77000                           |                                 |      |      |
| ITEM 10<br>QUANTITY OF PRODUCTS SHIPPED (If additional lines are needed, use Item 14 on reverse side.) |   |  |  |   |                                 | Unit of quantity (See manual)   |      |      |
| a. _____   |   |  |  |   |                                 | Product Class Code (See manual) |      |      |
| b. _____   |   |  |  |   |                                 | 1962                            |      |      |
| c. _____   |   |  |  |   |                                 | 1963                            |      |      |
| d. _____   |   |  |  |   |                                 | 1964                            |      |      |

Please continue on Page 2



ITEM 9A - VALUE OF PRODUCTS SHIPPED AND OTHER RECEIPTS (\$000)

| Additional product classes of this establishment<br>(Describe) | Product Class Code<br>(See manual) 5 | 1962        |             | 1963        |             | 1964        |             |
|--|--------------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|
|  |                                      | End of 1962 | End of 1962 | End of 1963 | End of 1963 | End of 1964 | End of 1964 |
| a.   |                                      |             |             |             |             |             |             |
| b.   |                                      |             |             |             |             |             |             |
| c.   |                                      |             |             |             |             |             |             |
| d.   |                                      |             |             |             |             |             |             |
| e. TOTAL   |                                      |             |             |             |             |             |             |

(Transfer to Item 9, Line h)

9 9-1 333 End of 1962 9-2 End of 1963 9-3 End of 1964 Key

a. Gross (book) value of fixed assets as of end of the year (original cost of buildings, structures, machinery, equipment, and other depreciable fixed assets). (See Instruction Manual)

b. Rental payments during year

Does this establishment use any rented or leased buildings, structures, or transportation, production or office equipment in its operations? . . . . . 1  Yes 2  No  
(If "Yes," please complete Lines (1) and (2) below)

(1) Rental payments (or equivalent charges) for use of buildings and structures (exclude payment for land).

(2) Rental payments (or equivalent charges) for use of transportation, production, and office equipment by this establishment.

NOTE: If rental payments are not made directly from the establishment's accounts but are handled centrally at a company or division level, please report the share of overhead or estimate the share of rental charges appropriate to the operation of this establishment.

(Please check proper box and furnish information requested below for each year)

a. Did the physical location of the establishment change since 1963? (If "Yes," please report the new location in Item 14)

b. If the answer to Item 1E(2) (Page 1) was "No," did the company have any plants under construction but not yet in operation?

c. Changes in ownership or operation of this establishment during the year

1. Purchased (Enter date, name, and address of former owner in Item 14)

2. Sold (Enter date, name, and address of purchaser in Item 14)

3. Went out of business (Specify date in Item 14)

4. Reorganized (Describe in Item 14, e.g., partnership change or change in corporate status)

5. Started new business (no previous owner)

6. Remained the same as in the previous year

ITEM 11  
VALUE OF  
FIXED  
ASSETS  
AND  
RENTAL  
PAYMENTS  
(\$000)

ITEM 12  
CHANGE IN  
PHYSICAL  
LOCATION OF  
ESTABLISH-  
MENT  
(FACTORY  
OR MILL);  
COMPANY  
ORGANIZA-  
TION; AND  
CHANGES IN  
OWNERSHIP  
OR OPERA-  
TION OF  
ESTABLISH-  
MENT

|    | 1963 |    | 1964 |    |
|----|------|----|------|----|
|    | Yes  | No | Yes  | No |
| a. |      |    |      |    |
| b. |      |    |      |    |
| c. |      |    |      |    |
| 1. |      |    |      |    |
| 2. |      |    |      |    |
| 3. |      |    |      |    |
| 4. |      |    |      |    |
| 5. |      |    |      |    |
| 6. |      |    |      |    |



The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report:

- (a) Review the report carefully to see that no items are omitted for the year being covered.
- (b) Calculate the four "reasonableness" checks described below, entering the figures for each, and review the results.
- (c) Correct your report for any errors you find; explain unusual figures in Item 14.

| "Reasonableness" checks   | Calculation required for each check   |      | Resulting figures for the year -- |      |
|---|---|------|-----------------------------------|------|
|   |   |      | 1963                              | 1964 |
| 1. Average hourly wages per production worker   | Item 3a (Production workers' wages) ÷<br>Item 4e (Total man-hours)                            | \$   | \$                                |      |
| 2. Hours worked per year per production worker  | Item 4c (Total man-hours) x 1000 ÷<br>Item 2f (Average number of production workers)          | Hrs. | Hrs.                              | Hrs. |
| 3. Salaries and wages per dollar of shipments   | Item 3c (Total payroll) ÷<br>Item 9f (Total value of shipments)                               | ¢    | ¢                                 | ¢    |
| 4. Materials cost per dollar of shipments   | Item 5f (Total materials cost) ÷<br>Item 9f (Total value of shipments)                        | ¢    | ¢                                 | ¢    |
| 5. Is the total for value of shipments (Item 9f) greater than the sum for payroll (Item 3c) plus total cost of materials, etc. (Item 5f)? . . . . . | <input type="checkbox"/> Yes <input type="checkbox"/> No (If "No," please explain in Item 14) |      |                                   |      |

| ITEM 13<br>CHECKS TO<br>ASSURE A<br>COMPLETE<br>AND<br>ACCURATE<br>REPORT            | 1963 | 1964 |
|--|------|------|
| ITEM 14<br>REMARKS<br>PERTAINING<br>TO THE<br>REPORT<br>FOR THE<br>SPECIFIED<br>YEAR |      |      |

|                          |  |                                 |               |
|--------------------------|--|---------------------------------|---------------|
| ITEM 15<br>CERTIFICATION | Name of person to contact if questions arise regarding this report   | Address (Revise when necessary) | Telephone No. |
|                          | CERTIFICATION - This report is substantially accurate, and covers -- |                                 |               |
| 1963 →                   | From   | Signature of authorized person  | Title         |
|                          | To   |                                 | Date          |
| 1964 →                   | From   | Signature of authorized person  | Title         |
|                          | To   |                                 | Date          |

FORM MC-36Z U.S. DEPARTMENT OF COMMERCE BUREAU OF THE CENSUS

1963 CENSUS OF MANUFACTURES

ELECTRICAL MACHINERY, EQUIPMENT AND SUPPLIES

PLEASE NOTE:

A. The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. Incomplete and inaccurate answers will result in correspondence which is both costly and time consuming. Be sure to complete every item. Enter "0" in items B-D, if appropriate. B. If book records are not available, reasonably accurate estimates for most items are acceptable for the statistical purposes of this survey.

C. Please complete and return this form in the envelope provided to the Jeffersonville Census Operations Office, Jeffersonville, Indiana. If filing by due date causes an undue burden, a request for extension should be directed to that office.

D. PLEASE READ INSTRUCTIONS BEFORE COMPLETING REPORT

Figures for dollars, (Items C, D, and E) should be rounded to THOUSANDS. If you wish you may report to the nearest unit. In either case, please be careful to enter your figures in the CORRECT COLUMNS. (See example below)

Table with 3 columns: Mil-lions, Thou-sands, Dol-lars. Example: \$1,125,628.28. Preferred method: \$ 1 126. Acceptable method: \$ 1 125 628 XX.

ITEM A - GENERAL INFORMATION

- 1. NAME OF ESTABLISHMENT
2. LOCATION OF ESTABLISHMENT
a. Street and number of establishment location
b. Place (City, Village, Town, Township)
c. Is the establishment within the legal boundary of the place reported in (b) above?
d. County
e. State

3. FORM OF OWNERSHIP AT END OF 1963 (Check one)

- 1 Individual proprietor
2 Partnership
0 Corporation (Do not include any form of cooperative association)
8 Cooperative association (corporate or noncorporate)
9 Other (Specify)

In correspondence pertaining to this report please refer to the 11-digit file number in the box above your name.

MC-36Z (3630)

(Please correct if mailing address has changed)

ITEM E - VALUE OF ALL PRODUCTS SOLD OR SHIPPED, AND OTHER RECEIPTS

1. Please describe the work that is done at this establishment (plant) Examples: Make mica parts for radios; assemble electric sockets.

2. Not applicable to this form.

3. PRODUCTS AND SERVICES

Table with columns: Line No., 8-1XX, 8, 8-4. Rows 1-4 describing products and services with census codes and values.



**4. FEDERAL SOCIAL SECURITY IDENTIFICATION NUMBER**

Enter identification number used for this establishment (as shown on Employer's Quarterly Federal Tax Return, Treasury Form 941).

|    |  |          |    |    |    |
|----|--|----------|----|----|----|
| 5  | Small household electric appliances (Specify kind)   | 36343 10 | 13 | \$ | XX |
| 6  | Parts and attachments for small household electrical appliances  | 36344 99 | 23 | \$ | XX |
| 7  | Portable lamps (residential - table, floor, wall, etc.)  | 36427 99 | 56 | \$ | XX |
| 8  | Current-carrying wiring devices  | 36430 00 | 74 | \$ | XX |
| 9  | Noncurrent-carrying wiring devices and supplies, except transmission hardware and conduit  | 36443 00 | 02 | \$ | XX |
| 10 | Radio and television broadcast equipment, and closed circuit systems   | 36622 99 | 14 | \$ | XX |
| 11 | Electronic components and accessories, including parts for electron tubes (except glass blanks)  | 36795 00 | 38 | \$ | XX |
| 12 | Storage batteries, SLI type  | 36911 99 | 83 | \$ | XX |
| 13 | All other products (List separately and describe)  |          |    | \$ | XX |
| 14 |  |          |    | \$ | XX |
| 15 |  |          |    | \$ | XX |
| 16 |  |          |    | \$ | XX |
| 17 | Receipts for work or services performed by you for others on their materials. (Describe operation performed and product)   |          |    | \$ | XX |
| 18 |  | 93000 99 | 05 | \$ | XX |
| 19 | Miscellaneous receipts (Repair work, installation, sales of scrap, etc.) (Describe)  | 99980 99 | 76 | \$ | XX |
| 20 | Sales of products bought and resold without further manufacture, processing or assembly in this establishment. (The cost of such products should be reported in Item D.) | 99989 99 | 86 | \$ | XX |
| 21 | <b>TOTAL</b><br>(Sum of Lines 1-20)  | 77000 99 | 08 | \$ | XX |

**ITEM B - NUMBER OF EMPLOYEES**  
(Exclude proprietor and partners)

Report the total number of paid employees during pay period ended nearest the 15th of:

1. March 1963

2. May 1963

3. August 1963

4. November 1963

| Key | Total number of paid employees |
|-----|--------------------------------|
|     |                                |
| 0-2 |                                |
| 0-3 |                                |
| 0-4 |                                |

**ITEM C - PAYROLLS**  
(Exclude payments to proprietor and partners)

Salaries and wages paid in 1963

**TOTAL** →

| Mil-<br>lions | Thou-<br>sands | Dol-<br>lars | XX |
|---------------|----------------|--------------|----|
|               |                |              |    |

**ITEM D - COST OF MATERIALS, PARTS, SUPPLIES, FUELS, ELECTRICITY, AND CONTRACT WORK**

Cost of materials, parts, components, supplies, containers, fuels, and electricity consumed in 1963. (Include the cost of work done for you by others on your own materials, and the cost of products bought and resold without further manufacture, processing, or assembly.)

**TOTAL** →

| Mil-<br>lions | Thou-<br>sands | Dol-<br>lars | XX |
|---------------|----------------|--------------|----|
|               |                |              |    |

| FOR CENSUS USE ONLY |    |    |    |    |    |    |    |
|---------------------|----|----|----|----|----|----|----|
| 1                   | 2  | 3  | 4  | 5  | 6  | 7  | 8  |
| 9                   | 10 | 11 | 12 | 13 | 14 | 15 | 16 |

**CERTIFICATION** - This report is substantially accurate and has been prepared in accordance with instructions.

Signature of authorized person \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_



## INSTRUCTIONS

**Item B - Number of Employees**—Report the total number of employees paid during the pay period ending nearest the 15th of the specified months. If an unincorporated business, exclude proprietor and partners from the reported totals.

**Item C - Payrolls**—Report the total paid as wages, salaries, bonuses and commission during 1963. If an unincorporated business, exclude payment to proprietor or partners. The definition of salaries and wages used for calculating the withholding tax may be followed.

**Item D - Cost of Materials, Parts, Supplies, Fuels, Electricity, and Contract Work**—Report the cost of all materials, parts, supplies, and containers consumed during 1963, which were used (a) directly to produce products, (b) as operating supplies, and (c) for repair and maintenance. Include the cost of goods bought for resale, the value for which is reported separately in Item E, Line 20. Include also the cost of fuels and electricity purchased.

The total reported should also include the cost of materials owned by you but processed by other companies which make products under contract for your firm and the cost of such contract work.

**Item E-3 - Value of All Products Sold or Shipped, and Other Receipts**—Enter on Line 21, Column (E), the total receipts from products sold or shipped, or services performed by this establishment during 1963. Account for all receipts of this establishment. Then report separately on Lines 1-12 in Column (E) the value of shipments of each product listed. Do not combine pre-printed product lines.

**Lines 13-17**—If some of the products you made in 1963 are not listed, please list each such product on a separate line under "All other products," and enter in Column (E) the 1963 value of shipments.

**Line 20**—Report sales of products which were resold as originally purchased and not used in further manufacturing, processing, or assembling of products made in this establishment.

**After completing this schedule, would you please—**

- (a) Review to see that entries have been made for all applicable items.
- (b) Compare the sum reported for payrolls (Item C) and Materials (Item D) with the total reported in Item E-3, Total Value of Products Shipped and Other Receipts.
- (c) If the sum for Items C and D exceeds the total on Line 21, Item E-3, please explain in "Remarks."

Remarks

**PLEASE NOTE:** In all correspondence with the Census Bureau, please include the 11-digit file number which appears in the address box of the report form. High-speed electronic equipment will be used to identify both the correspondence and the reports in the 1963 Economic Censuses. If your correspondence does not include the Census file number it will be returned for the addition of that number. Address all correspondence to JEFFERSONVILLE CENSUS OPERATIONS OFFICE, 1201 East 10th Street, Jeffersonville, Indiana.

Please do not mark or mar the two lines of symbols above the address on each form. These symbols or rectangles which are unique to each establishment will be photographed and used to record mechanically the receipt of your report form.





FORM MC-D3  
(12-24-63)

U.S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS

**1963 CENSUS OF MANUFACTURES**  
**DEPARTMENT OF DEFENSE ESTABLISHMENTS**  
**PRIMARILY ENGAGED IN MANUFACTURING AND**  
**ASSEMBLY AND/OR RESEARCH AND DEVELOPMENT**  
**OWNED AND OPERATED BY**  
**THE DEPARTMENT OF DEFENSE**  
(Includes shipyards)

**INSTRUCTIONS** - This report is to be prepared by those Department of Defense establishments whose primary activities are manufacture and assembly and/or research and development. All shipyards are included.  
The information requested is based upon reports now regularly prepared by most such establishments.

**CONFIDENTIAL** - Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.

In correspondence pertaining to this report please refer to the 11-digit file number in the box above your name.

Form MC-D3

**KEEP THIS COPY FOR YOUR FILES**  
**PLEASE COMPLETE AND RETURN THE FORM WHICH SHOWS YOUR NAME AND ADDRESS**

(Please correct if mailing address has changed)

**ITEM 1 - NAME AND PHYSICAL LOCATION OF ESTABLISHMENT ON DECEMBER 31, 1963**

**a. Name of establishment**

Your answers to parts b, c, d, e, and f of this item should relate to the **ACTUAL PHYSICAL LOCATION** of this establishment which may be different from the mailing address.

**b. Street and number at establishment location \***

\* If establishment location cannot be described by street and number, give name and number, if any, of road or highway and sufficient information to locate establishment, e.g. Rt. 25, 3 miles south of Charlesville.

**c. Type and name of place in which located (Check first applicable type and enter name of place.)**

| Type  | Name of place |
|---|---------------|
| <input type="checkbox"/> City               |               |
| <input type="checkbox"/> Village or borough |               |
| <input type="checkbox"/> Town               |               |
| <input type="checkbox"/> Township           |               |
| <input type="checkbox"/> Other (Specify)    |               |

**d. Is this establishment physically located within the legal boundaries of the place named in "c"?**

Yes  No

**e. County in which located**

**f. State**

**g. Telephone number of establishment**

**ITEM 3 - NATURE OF ACTIVITY**

Describe briefly the kind of activity of this establishment.  
If a manufacturing plant, list the three most important products.



| ITEM 4<br>EMPLOYMENT<br>AND<br>PAYROLLS<br>IN<br>CALENDAR<br>YEAR 1963<br>(Civilian<br>employees<br>only) | Class of employee | Number of civilian employees in 1963        |             |                  |                 |  | Total wages<br>and<br>salaries of<br>civilian<br>employees<br>(Thousands)<br>(G) |
|---|-------------------|---|-------------|------------------|-----------------|--|--|
|   |                   | At end of month                             |             |                  |                 |  |  |
|   |                   | (As reported on Civil Service form SF-113*) |             |                  |                 |  |  |
|   |                   | March<br>(A)                                | June<br>(B) | September<br>(C) | December<br>(D) | Sum of<br>columns A, B,<br>C, and D<br>(E) | Column E<br>divided by 4<br>(F)  |
| a. Wage Board employees   |                   |   |             |                  |                 |  | \$   |
| b. All others   |                   |   |             |                  |                 |  | \$   |
| c. TOTAL CIVILIAN<br>EMPLOYEES<br>(Sum of lines a and b)  |                   |   |             |                  |                 |  | \$   |

\* The number of Wage Board employees (line a) should be the same as reported on line 7 of SF-113. The total (line c) should be the same as reported on line 1 of SF-113.

| ITEM 5<br>MAN-DAYS OF<br>WAGE BOARD<br>EMPLOYEES<br>BY<br>CALENDAR<br>QUARTER<br>1963 | Enter the total number of<br>man-days of Wage Board<br>employees for each calendar<br>quarter of 1963. Do not<br>include days paid for<br>vacations, holidays, or sick<br>leave. | 1963 Quarterly period                           |                       |                           |                             | Man-Days<br>(Thousands)<br>(A) | Estimated<br>number of<br>man-hours**<br>(Thousands)<br>(B) |
|---|--|---|-----------------------|---------------------------|-----------------------------|--------------------------------|---|
|   |  | a. January through March                        | b. April through June | c. July through September | d. October through December |                                |   |
|   |  |   |                       |                           |                             |                                |   |
|   |  |   |                       |                           |                             |                                |   |
|   |  |   |                       |                           |                             |                                |   |
|   |  |   |                       |                           |                             |                                |   |
|   |  | e. TOTAL, 1963<br>(Sum of lines a, b, c, and d) |                       |                           |                             |                                |   |

\*\* Obtain figure for column (B) by multiplying column (A) by average number of hours per day per Wage Board employees in this establishment . . . . .





**ITEM 8**  
**CHECKS TO ASSURE A COMPLETE AND ACCURATE REPORT**  
 (Please complete this item after you have answered all items on this report.)

The Census Bureau reviews your report for omissions, inconsistencies, and unusual ratios. To save you future correspondence about these problems, please make the following checks before returning your report:

- a. Review this report carefully to see that no items are omitted.
- b. Calculate and enter the four "reasonableness" checks (described below), then review the resulting figures.
- c. Correct your report for any errors you find; explain unusual figures in "Remarks" section.

| "Reasonableness" checks  | Calculation required for each check   | Resulting figures for 1963 |
|--|---|----------------------------|
| (1) Average hourly wages per Wage Board employee   | Item 4a, column G (Wages paid Wage Board employees) ÷ item 5e, column B (Total estimated man-hours)                       | \$                         |
| (2) Man-days per year per Wage Board employee  | Item 5e, column A (Wage Board man-days in thousands) x 1,000 ÷ item 4a, column F (Average number of Wage Board employees) | Man-days                   |
| (3) Wages and salaries per dollar of earned revenue  | Item 7, line 2, (Wages and salaries of civilian employees) ÷ item 6, line 9 (Total earned revenue)                        | \$                         |
| (4) Is the total earned revenue (item 6, total) greater than total costs incurred (item 7, total)? | ..... <input type="checkbox"/> Yes <input type="checkbox"/> No (If "No," please explain in "Remarks" section.)            |                            |

**ITEM 9**  
**REMARKS PERTAINING TO THIS REPORT**

**PERIOD OF REPORT**  
 This report covers the period from \_\_\_\_\_ to \_\_\_\_\_.

**ITEM 10**  
 Name of person to be contacted regarding this report \_\_\_\_\_ Address \_\_\_\_\_ Telephone No. \_\_\_\_\_

**ITEM 11**  
**CERTIFICATION** - This report is substantially accurate and has been prepared in accordance with instructions.  
 Name of company \_\_\_\_\_ Address \_\_\_\_\_  
 Signature of authorized official \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_



FORM MA-175  
(6-29-64)

U.S. DEPARTMENT OF COMMERCE  
BUREAU OF THE CENSUS

**REPORT ON SHIPMENTS TO OR RECEIPTS FOR WORK DONE FOR FEDERAL GOVERNMENT AGENCIES AND THEIR CONTRACTORS AND SUPPLIERS IN 1963**

(Based on the Total Shipment Figures from the Annual Survey of Manufactures, Census Form MA-100)

TO: Bureau of the Census, Industry Division  
Washington, D.C. 20233

**CONFIDENTIAL** - Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.

ITEM 1 - In correspondence about the report for this establishment, please refer to your 11-digit file number below.

↓

(PLEASE RETURN THIS COPY)

ITEM 2 Please check the box which describes the 1963 receipts for shipments or other work done in this plant for Federal Government agencies and their contractors and suppliers:

None                       Up to \$100,000                       \$100,000 or more

For purposes of this report, such receipts will include payments received by you for work done by you on Federal Government prime contracts as well as the value of materials, components, subassemblies, and services supplied by you to Federal Government contractors and suppliers for use in their performance of Federal Government contracts.

If your response to this question was "\$100,000 or more," please complete the form on the reverse side. Otherwise, sign the form in the space provided below and return it.

**INTRODUCTORY NOTE**

The Census Bureau is conducting this survey to develop a measure of the level of industrial activity generated by the expenditures made by Federal Government agencies. Special attention is directed toward expenditures made by the Department of Defense (DOD), the National Aeronautics and Space Administration (NASA), and the Atomic Energy Commission (AEC).

Industrial activity generated by Federal Government expenditures is being measured in terms of receipts (including value of shipments) for work done, or for value of products shipped to Federal agencies, their contractors, subcontractors and suppliers. For each plant covered by the report such receipts will consist of two kinds of payments. The first is payments received for work done directly for Federal agencies on Government prime contracts. The second is payments received for work done for other Government contractors and suppliers for use in the performance of Federal Government contracts. Subcontract receipts reported will normally be based on payments made for work done on Government subcontracts when subject to the Renegotiation Act of 1951, as amended. These receipts should include the value of materials, components, subassemblies, and services supplied to other plants of the company (interplant transfers) as well as to contractors and suppliers outside the company for use in the performance of contracts. This is in accord with standard Census reporting procedures.

This survey is being conducted on an establishment or plant basis. This method of reporting is necessary so that the data reported by each plant may be tabulated by the geographic area in which the work is actually being performed. Additionally, it will permit the data to be classified by appropriate product class and Standard Industrial Classification.

**SPECIFIC INSTRUCTIONS**

Except as may be specifically requested, a report should be submitted for each establishment for which you received a preaddressed form. If additional forms are needed, please write to us specifying the address of the establishment for which a blank form is required. If you have any questions about the survey, write to the Bureau of the Census, Washington, D.C., 20233, referring to form MA-175 and to the file number in the upper right-hand corner of the address box. The basic concepts used in this survey (establishment, shipments, receipts, materials consumed, employment, etc.) are the same as those used in the Annual Survey of Manufactures (Form MA-100), and related figures reported on each form should agree.

Column (1), (2), and (3) - These entries--lines a through l--should correspond with those entered in item 9 and item 9A for the Product Class Description, the Product Class Code, and the 1963 data column from the related Census form MA-100 for 1963.

The three lines "i," "j," and "k" that follow specific product class entries, are in the same position in which they appear on form MA-100. Only "j" is expected to be of particular importance on form MA-175; "i" is an item primarily of interest to manufacturing industries not covered by form MA-175, such as textiles and apparel, coating and engraving, etc.; "k" is used by manufacturers to list the shipments of products they buy and ship without any manufacturing or assembling, usually to round out a product line. Line "j" on the other hand, can be very important in this survey. Receipts for research and development that have not been separately identified on form MA-100 should be reported here. (Note that research and development receipts for certain aerospace activities are to be supplied in lines "a" - "h" in the appropriate class of product (37216, 37223, 37226, 37293, 37294, 19253).) Line "j" would also be used for reporting receipts for installation or testing. Installation or testing costs of more than \$1 million done at other locations should not be reported on the form for the manufacturing plant. Instead, a separate MA-175 form should be filed for each such installation or test site. If you have such cases, it would be desirable to write to the Census Bureau describing the situation before completing the MA-175 forms.

Column (4) through (7) - Data reported should represent the total value of shipments, billings, or receipts (in \$000) from Federal Government agencies during 1963. For long lead time production or research, development, testing, and evaluation programs, the value of work done during the year is reported on the Annual Survey of Manufactures and on this report. Such a figure is represented by net billings, or payments received by you (including progress payments), for work done during the year. This method of estimating shipments to the Government has frequent application to work done on aircraft, abips, missiles, space vehicles, and the like, as well as work done on related systems.

Column (8) through (13) - Data reported should represent the value of receipts (in \$000) for work done by you for Government prime contractors and subcontractors for use in the performance of Government contracts. It is recognized that indirect Government work is not always identified as such. In view of this, it will be acceptable to use as a base receipts on Government subcontracts subject to the Renegotiation Act of 1951, as amended. Note particularly that the value of transfers to other plants of the company as well as receipts from contractors outside the company are to be included.

Column (8) through (11) - Data entered should represent the value of receipts (in \$000) for work done by you on subcontracts of DOD, NASA, AEC, and other Government agencies when the Government agency placing the prime contract is known to you.

Column (12) or (13) - Receipts for work done by you on Government subcontracts, for which Government agency the prime contract is not specifically known to you should be entered. If you know that the subcontract work is for DOD, NASA, or AEC, but you cannot specifically determine which, enter the value of receipts (in \$000) in column (12). If the subcontract work is for another Government agency, or for a Government agency unknown to you, enter the value of receipts (in \$000) in column (13).

Column (14) - Data reported should represent the difference between the total values of shipments and/or receipts, column (3), and the sum of entries in column (4) through (13).

|  |  |               |
|--|--|---------------|
| Name of person to contact regarding this report  | Address (Number and street, city, State, ZIP code) | Telephone No. |
| CERTIFICATION - This report is substantially accurate and has been prepared in accordance with instructions. |  |               |
| Name of company  | Address (Number and street, city, State, ZIP code) |               |
| Signature of authorized official   | Title  | Date          |



**REPORT ON SHIPMENTS TO OR RECEIPTS FOR FEDERAL GOVERNMENT AGENCIES AND THEIR CONTRACTORS AND SUPPLIERS IN 1963**

**ITEM 3** o. Total employment of this establishment, average for the year 1963 (Same as item 2h, 1963 column, Census form MA-100) → Total employees

b. Total materials, fuels consumed, etc., in 1963 by this establishment for all purposes (Same as item 5f, 1963 column, Census form MA-100) → Thousands of dollars

c. Name of establishment (Enter from address box on front of form) d. 11-digit file No.

**ITEM 4 - VALUE OF SHIPMENTS AND OTHER RECEIPTS OF THIS ESTABLISHMENT IN 1963**  
(Report values in thousands of dollars)

| Product classes of this establishment (Describe)  | Product class code | Total value of shipments and/or receipts | Shipments to or receipts for work done for Federal Government agencies and their contractors and suppliers in 1963 |          |                          |                            |         | Other shipments (Column 3 minus column 4 through column 13) |          |          |            |                               |            |  |  |  |  |  |  |
|---|--------------------|--|--|----------|--------------------------|----------------------------|---------|---|----------|----------|------------|-------------------------------|------------|--|--|--|--|--|--|
|   |                    |  | Direct on prime contracts  |          | Indirect on subcontracts |                            |         |   |          |          |            |                               |            |  |  |  |  |  |  |
|   |                    |  | DOD (4)  | NASA (5) | AEC (6)                  | Other Federal agencies (7) | DOD (8) |   | NASA (9) | AEC (10) | Other (11) | Either DOD, NASA, or AEC (12) | Other (13) |  |  |  |  |  |  |
| a.  | (1)                | (3)                                      |  |          |                          |                            |         |   |          |          |            |                               |            |  |  |  |  |  |  |
| b.  |                    |  |  |          |                          |                            |         |   |          |          |            |                               |            |  |  |  |  |  |  |
| c.  |                    |  |  |          |                          |                            |         |   |          |          |            |                               |            |  |  |  |  |  |  |
| d.  |                    |  |  |          |                          |                            |         |   |          |          |            |                               |            |  |  |  |  |  |  |
| e.  |                    |  |  |          |                          |                            |         |   |          |          |            |                               |            |  |  |  |  |  |  |
| f.  |                    |  |  |          |                          |                            |         |   |          |          |            |                               |            |  |  |  |  |  |  |
| g.  |                    |  |  |          |                          |                            |         |   |          |          |            |                               |            |  |  |  |  |  |  |
| h.  |                    |  |  |          |                          |                            |         |   |          |          |            |                               |            |  |  |  |  |  |  |
| i. Receipts for work or services performed by you for others on their materials (Describe)  |                    |  |  |          |                          |                            |         |   |          |          |            |                               |            |  |  |  |  |  |  |
| j. Other receipts - Particularly R and D not identified as to specific product class, and receipts for installation or testing (See instructions) | 93000              |  |  |          |                          |                            |         |   |          |          |            |                               |            |  |  |  |  |  |  |
| k. Shipments of products bought and resold without further manufacture, processing, or assembly   | 99980              |  |  |          |                          |                            |         |   |          |          |            |                               |            |  |  |  |  |  |  |
| l. TOTAL (Same as item 9, line 1, 1963 column, Census form MA-100)  | 99989              |  |  |          |                          |                            |         |   |          |          |            |                               |            |  |  |  |  |  |  |
|   | 77000              |  |  |          |                          |                            |         |   |          |          |            |                               |            |  |  |  |  |  |  |

|  |   |
|--|---|
| <p>FORM <b>MA-161</b><br/>(6-23-64)</p> <p style="text-align: center;">U.S. DEPARTMENT OF COMMERCE<br/>BUREAU OF THE CENSUS</p> <p style="text-align: center;"><b>EXPORTS OF<br/>MANUFACTURED PRODUCTS<br/>1963</b></p> <p style="text-align: center;"><b>PLANT REPORT</b></p> | <p><b>CONFIDENTIAL</b>—Response to this inquiry is required by Act of Congress (13 U.S.C.). The report you submit to the Census Bureau is confidential and may be seen only by sworn Census employees. It may not be used for purposes of taxation, investigation, or regulation. Copies retained in your files are also immune from legal process.</p> <p><b>Item 1</b> — Name and address of manufacturing plant (In correspondence pertaining to this report please refer to the 11-digit file number in the box above your name.)</p> |
| <p><b>TO:</b> Bureau of the Census, Industry Division<br/>Washington, D.C. 20233</p>   |   |
| <p><b>PLEASE READ INSTRUCTIONS<br/>ON REVERSE SIDE BEFORE<br/>COMPLETING YOUR REPORT.</b></p>  | <p>(PLEASE RETURN THIS COPY)</p>  |

|               |  |                        |
|---------------|--|------------------------|
| <b>Item 2</b> | <p><b>Did the plant identified in item 1 produce for export in 1963 more than \$25,000 worth of products?</b> (i.e., did it export this amount either directly or through some other parts of your company or its affiliates, or do you know that shipments of the plant to others were for export without further processing?) . . . . . <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p><i>If your response to this question is "No," sign the form in the space provided below and return it.</i></p> |                        |
| <b>Item 3</b> | <p><b>Total value of products shipped and other receipts in 1963, and exports in 1963</b></p> <p style="text-align: right;">(Thousands of dollars)</p>   | (Thousands of dollars) |
|               | <p><b>a.</b> Total value of products shipped and other receipts of this establishment in 1963 (Same as item 9, total for 1963 on your file copy of Form MA-100, Annual Survey of Manufactures)</p>   | \$                     |
|               | <p><b>b.</b> Products of this establishment exported by your company including products of this establishment shipped to others for export, 1963. (Included in 3a, above)</p>  | \$                     |
| <b>Item 4</b> | <p><b>Number of employees at this plant in 1963</b> (Same as your file copy of Form MA-100, Annual Survey of Manufactures, item 2, line h, 1963 column. The figure is an average of production workers plus all other employees.)</p>  | (Number)               |
| <b>Item 5</b> | <p><b>Products of this establishment exported by your company in 1960</b></p> <p>(Please be sure the figure posted for 1960 is consistent with the 1963 figure entered in item 3b, above. Make revision, if necessary.)</p>  | (Thousands of dollars) |
|               |  | \$                     |

|                                |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|
| <b>FOR CENSUS<br/>USE ONLY</b> |  |  |  |  |  |  |
|--------------------------------|--|--|--|--|--|--|

Remarks

|   |  |               |
|---|--|---------------|
| Name of person to contact regarding this report | Address (Number and street, city, State, ZIP code) | Telephone No. |
|---|--|---------------|

**CERTIFICATION** — This report is substantially accurate and has been prepared in accordance with instructions.

|                 |  |
|-----------------|--|
| Name of company | Address (Number and street, city, State, ZIP code) |
|-----------------|--|

|                                  |       |      |
|----------------------------------|-------|------|
| Signature of authorized official | Title | Date |
|----------------------------------|-------|------|



## INSTRUCTIONS

### INTRODUCTORY NOTE

We are conducting this survey to obtain statistics on the origin of exports of manufactured goods by States and smaller areas. This information is needed by various branches of government to assess the impact of foreign trade on the economy. If you have any questions about the survey, please write to the Bureau of the Census, Washington, D.C., 20233, referring to form MA-161 and to the 11-digit file number in the address box.

This survey is being conducted on an establishment or plant basis. This method of reporting is necessary so that export figures reported by each plant may be tabulated in the proper geographic area. A report is required for each establishment for which you received a preaddressed form. If additional forms are needed, please write to us, specifying the address of the establishment for which a blank form is required.

If the figures requested are not readily available from your records, carefully prepared estimates will be accepted.

### DEFINITION OF EXPORTS

The following description of exports is consistent with definitions used in compiling official foreign trade statistics of the United States. It is provided as a guide for respondents. A manufacturer would be expected to report according to his own definitions except where major differences might be expected. In such cases, he would be expected to estimate rather than compile revised data from detailed records.<sup>1</sup>

Exports as understood in this survey include shipments from the United States to foreign countries of products which are not subjected to further manufacture, fabrication, or assembly in this country before being shipped abroad. Exports include shipments to foreign subsidiaries or divisions of your company and its affiliates. Sales to the United States Government for shipment abroad are considered an export if the products are for a foreign nation. They are not classified as an export if for use by the United States Armed Forces.

<sup>1</sup> For example, some manufacturers are known to treat sales to Post Exchanges or to Puerto Rico differently than here described. These differences in most cases are not statistically significant.

Sales (shipments) to customers in Canada are classified as exports. Shipments to Alaska and Hawaii are not exports. Shipments to Puerto Rico are not classified as exports.

Exports do not include products shipped to domestic customers or other plants of your company who will further manufacture, fabricate, or assemble them. Please note, however, that the breaking down of bulk shipments of your products into smaller lots or packages by a wholesale exporter or by other units of your company is not considered to be further manufacturing, processing, or assembly.

### EXPORT VALUES

The export values to be reported on this form should be on the same basis as the values in item 3a, total shipments of the plant in 1963.

### EXPORTS OF THE PRODUCTS OF THIS PLANT BY THIS FIRM (item 3b)

**Item 3b will include**—Export shipments of your products by this establishment and export shipments of the products of this establishment by or on order of other parts of your company or its affiliates such as sales branches, sales offices, warehouses, export offices, and export subsidiaries.

**It will also include**—Sales for export of your products to or on order of export firms, and other sales known to you to be for export. Also, sales to the United States Government in this country for shipment abroad under military and economic assistance programs.

### 1960 EXPORTS

The value of products shipped for export by this establishment in 1960 has been entered in item 5, wherever the 1960 report form could be precisely matched. Please be sure the figure posted for 1960 is consistent with the 1963 figure entered in item 3b. Make revision, if necessary.

If no figure has been posted but the 1960 export figure is readily available, please enter the 1960 figure in item 5, otherwise leave the item blank.





# Appendix E

## **AUTHORITY FOR CENSUS: TITLE 13, UNITED STATES CODE**

(Codification of August 1954 amended by Acts of August 1957, September 1960, and June and October 1962)

### **Collection and publication: Five-year periods (131)**

The Secretary shall take, compile, and publish censuses of manufactures, of mineral industries, and of other businesses . . . in the year 1954 and every fifth year thereafter, and each such census shall relate to the year immediately preceding the taking thereof: **Provided**, That the censuses of manufactures, of mineral industries, and of other businesses, including the distributive trades and service establishments, directed to be taken in the year 1954 relating to the year 1953, shall be taken instead in the year 1955 relating to the year 1954.

### **Geographic scope of censuses (191a)**

Each of the censuses authorized by this chapter (other than censuses of population) shall include each State, the District of Columbia, Alaska, Hawaii, the Virgin Islands, Guam, and the Commonwealth of Puerto Rico, and as may be determined by the Secretary, such other possessions and areas over which the United States

exercises jurisdiction, control, or sovereignty. Censuses of population shall include all geographic areas referred to in the preceding sentence. Inclusion of other areas over which the United States exercises jurisdiction or control shall be subject to the concurrence of the Secretary of State.

### **Failure to answer questions affecting companies, businesses, religious bodies, and other organizations: False answers (224)**

Whoever, being the owner, official, agent, person in charge, or assistant to the person in charge, of any company, business, institution, establishment, religious body, or organization of any nature whatsoever, neglects or refuses, when requested by the Secretary or other authorized officer or employee of the Department of Commerce or bureau or agency thereof, whether such request be made by registered mail, by certified mail, by telegraph, by visiting representative, or by one or more of these methods, to answer completely and correctly to the best of his knowledge all questions relating to his company, business, institution, establishment, religious body, or other organization, or to records or statistics in his official custody, contained on any census or other schedule prepared and submitted to him under the authority of this title, shall be fined not more than \$500 or imprisoned not more than sixty days, or both; and if he willfully gives a false answer to any such question, he shall be fined not more than \$10,000 or imprisoned not more than one year, or both.





# Appendix F

## STANDARD METROPOLITAN STATISTICAL AREAS

(Area titles and definitions of the 2 Standard Consolidated Areas and the 217 Standard Metropolitan Statistical Areas in the United States established by the Bureau of the Budget as of August 4, 1964)

|  |   |
|--|---|
| <b>Chicago, Ill.-Northwestern Indiana Standard Consolidated Area</b> .....     | Consists of Chicago, Ill., and Gary-Hammond-East Chicago, Ind., Standard Metropolitan Statistical Areas   |
| <b>New York, N.Y.-Northeastern New Jersey Standard Consolidated Area</b> ..... | Consists of the following Standard Metropolitan Statistical Areas: New York, N.Y.; Newark, N.J.; Jersey City, N.J.; Paterson-Clifton-Passaic, N.J.; and of Middlesex and Somerset Counties, N.J.  |
| <b>Abilene, Tex.</b> .....   | Consists of Jones and Taylor Counties, Tex.   |
| <b>Akron, Ohio</b> .....   | Consists of Portage and Summit Counties, Ohio   |
| <b>Albany, Ga.</b> .....   | Coextensive with Dougherty County, Ga.  |
| <b>Albany-Schenectady-Troy, N.Y.</b> .....                                     | Consists of Albany, Rensselaer, Saratoga, and Schenectady Counties, N.Y.  |
| <b>Albuquerque, N. Mex.</b> .....  | Coextensive with Bernalillo County, N. Mex.   |
| <b>Allentown-Bethlehem-Easton, Pa.-N.J.</b> .....                              | Consists of Lehigh and Northampton Counties, Pa.; and Warren County, N.J.   |
| <b>Altoona, Pa.</b> .....  | Coextensive with Blair County, Pa.  |
| <b>Amarillo, Tex.</b> .....  | Consists of Potter and Randall Counties, Tex.   |
| <b>Anaheim-Santa Ana-Garden Grove, Calif.</b> .....                            | Coextensive with Orange County, Calif.  |
| <b>Ann Arbor, Mich.</b> .....  | Coextensive with Washtenaw County, Mich.  |
| <b>Asheville, N.C.</b> .....   | Coextensive with Buncombe County, N.C.  |
| <b>Atlanta, Ga.</b> .....  | Consists of Clayton, Cobb, De Kalb, Fulton, and Gwinnett Counties, Ga.  |
| <b>Atlantic City, N.J.</b> .....   | Coextensive with Atlantic County, N.J.  |
| <b>Augusta, Ga.-S.C.</b> .....   | Consists of Richmond County, Ga., and Aiken County, S.C.  |
| <b>Austin, Tex.</b> .....  | Coextensive with Travis County, Tex.  |
| <b>Bakersfield, Calif.</b> .....   | Coextensive with Kern County, Calif.  |
| <b>Baltimore, Md.</b> .....  | Consists of Baltimore city and Anne Arundel, Baltimore, Carroll, and Howard Counties, Md.   |
| <b>Baton Rouge, La.</b> .....  | Coextensive with East Baton Rouge Parish, La.   |
| <b>Bay City, Mich.</b> .....   | Coextensive with Bay County, Mich.  |
| <b>Beaumont-Port Arthur, Tex.</b> .....  | Consists of Jefferson and Orange Counties, Tex.   |
| <b>Billings, Mont.</b> .....   | Coextensive with Yellowstone County, Mont.  |
| <b>Binghamton, N.Y.-Pa.</b> .....  | Consists of Broome and Tioga Counties, N.Y., and Susquehanna County, Pa.  |
| <b>Birmingham, Ala.</b> .....  | Coextensive with Jefferson County, Ala.   |
| <b>Boise City, Idaho</b> .....   | Coextensive with Ada County, Idaho  |
| <b>Boston, Mass.</b> .....   | Consists of all of Suffolk County; Beverly, Lynn, Peabody, and Salem cities, and Danvers, Hamilton, Lynnfield, Manchester, Marblehead, Middleton, Nahant, Saugus, Swampscott, Topsfield, and Wenham towns in Essex County; Cambridge, Everett, Malden, Medford, Melrose, Newton, Somerville, Waltham, and Woburn cities, and Arlington, Ashland, Bedford, Belmont, Burlington, Concord, Framingham, Lexington, Lincoln, Natick, North Reading, Reading, Sherborn, Stoneham, Sudbury, Wakefield, Watertown, Wayland, Weston, Wilmington, and Winchester towns in Middlesex County; Quincy city, and Braintree, Brookline, Canton, Cohasset, Dedham, Dover, Holbrook, Medfield, Millis, Milton, Needham, Norfolk, Norwood, Randolph, Sharon, Walpole, Wellesley, Westwood, and Weymouth towns in Norfolk County; and Duxbury, Hanover, Hingham, Hull, Marshfield, Norwell, Pembroke, Rockland, and Scituate towns in Plymouth County, Mass. |
| <b>Bridgeport, Conn</b> .....  | Consists of Bridgeport and Shelton cities, and Easton, Fairfield, Monroe, Stratford, and Trumbull towns in Fairfield County; and Milford town in New Haven County, Conn.  |
| <b>Brockton, Mass.</b> .....   | Consists of Easton town in Bristol County; Avon and Stoughton towns in Norfolk County; and Brockton city, and Abington, Bridgewater, East Bridgewater, Hanson, West Bridgewater, and Whitman towns in Plymouth County, Mass.  |
| <b>Brownsville-Harlingen-San Benito, Tex.</b> .....                            | Coextensive with Cameron County, Tex.   |
| <b>Buffalo, N.Y.</b> .....   | Consists of Erie and Niagara Counties, N.Y.   |
| <b>Canton, Ohio</b> .....  | Coextensive with Stark County, Ohio   |
| <b>Cedar Rapids, Iowa</b> .....  | Coextensive with Linn County, Iowa  |
| <b>Champaign-Urbana, Ill.</b> .....  | Coextensive with Champaign County, Ill.   |
| <b>Charleston, S.C.</b> .....  | Consists of Berkeley and Charleston Counties, S.C.  |
| <b>Charleston, W. Va.</b> .....  | Coextensive with Kanawha County, W. Va.   |
| <b>Charlotte, N.C.</b> .....   | Consists of Mecklenburg and Union Counties, N.C.  |
| <b>Chattanooga, Tenn.-Ga.</b> .....  | Consists of Hamilton County, Tenn., and Walker County, Ga.  |



STANDARD METROPOLITAN STATISTICAL AREAS—Continued

|   |   |
|---|---|
| Chicago, Ill. -----                           | Consists of Cook, Du Page, Kane, Lake, McHenry, and Will Counties, Ill.   |
| Cincinnati, Ohio-Ky.-Ind. -----               | Consists of Clermont, Hamilton, and Warren Counties, Ohio; Boone, Campbell, and Kenton Counties, Ky.; and Dearborn County, Ind.   |
| Cleveland, Ohio -----                         | Consists of Cuyahoga, Geauga, Lake, and Medina Counties, Ohio   |
| Colorado Springs, Colo. -----                 | Coextensive with El Paso County, Colo.  |
| Columbia, S.C. -----                          | Consists of Lexington and Richland Counties, S.C.   |
| Columbus, Ga.-Ala. -----                      | Consists of Chattahoochee and Muscogee Counties, Ga., and Russell County, Ala.  |
| Columbus, Ohio -----                          | Consists of Delaware, Franklin, and Pickaway Counties, Ohio   |
| Corpus Christi, Tex. -----                    | Coextensive with Nueces County, Tex.  |
| Dallas, Tex. -----                            | Consists of Collin, Dallas, Denton, and Ellis Counties, Tex.  |
| Davenport-Rock Island-Moline, Iowa-Ill. ----- | Consists of Scott County, Iowa, and Henry and Rock Island Counties, Ill.  |
| Dayton, Ohio. -----                           | Consists of Greene, Miami, Montgomery, and Preble Counties, Ohio  |
| Decatur, Ill. -----                           | Coextensive with Macon County, Ill.   |
| Denver, Colo. -----                           | Consists of Adams, Arapahoe, Boulder, Denver, and Jefferson Counties, Colo.   |
| Des Moines, Iowa -----                        | Coextensive with Polk County, Iowa  |
| Detroit, Mich. -----                          | Consists of Macomb, Oakland, and Wayne Counties, Mich.  |
| Dubuque, Iowa -----                           | Coextensive with Dubuque County, Iowa   |
| Duluth-Superior, Minn.-Wis. -----             | Consists of St. Louis County, Minn., and Douglas County, Wis.   |
| Durham, N.C. -----                            | Coextensive with Durham County, N.C.  |
| El Paso, Tex. -----                           | Coextensive with El Paso County, Tex.   |
| Erie, Pa. -----                               | Coextensive with Erie County, Pa.   |
| Eugene, Oreg. -----                           | Coextensive with Lane County, Oreg.   |
| Evansville, Ind.-Ky. -----                    | Consists of Vanderburgh and Warrick Counties, Ind., and Henderson County, Ky.   |
| Fall River, Mass.-R.I. -----                  | Consists of Fall River city, and Somerset, Swansea, and Westport towns in Bristol County, Mass.; and Tiverton town in Newport County, R.I.  |
| Fargo-Moorhead, N. Dak.-Minn. -----           | Consists of Cass County, N. Dak., and Clay County, Minn.  |
| Fitchburg-Leominster, Mass. -----             | Consists of Shirley and Townsend towns in Middlesex County; and Fitchburg and Leominster cities, and Lunenburg and Westminster towns in Worcester County, Mass.   |
| Flint, Mich. -----                            | Consists of Genesee and Lapeer Counties, Mich.  |
| Fort Lauderdale-Hollywood, Fla. -----         | Coextensive with Broward County, Fla.   |
| Fort Smith, Ark.-Okla. -----                  | Consists of Crawford and Sebastian Counties, Ark.; and LeFlore and Sequoyah Counties, Okla.   |
| Fort Wayne, Ind. -----                        | Coextensive with Allen County, Ind.   |
| Fort Worth, Tex. -----                        | Consists of Johnson and Tarrant Counties, Tex.  |
| Fresno, Calif. -----                          | Coextensive with Fresno County, Calif.  |
| Gadsden, Ala. -----                           | Coextensive with Etowah County, Ala.  |
| Galveston-Texas City, Tex. -----              | Coextensive with Galveston County, Tex.   |
| Gary-Hammond-East Chicago, Ind. -----         | Consists of Lake and Porter Counties, Ind.  |
| Grand Rapids, Mich. -----                     | Consists of Kent and Ottawa Counties, Mich.   |
| Great Falls, Mont. -----                      | Coextensive with Cascade County, Mont.  |
| Green Bay, Wis. -----                         | Coextensive with Brown County, Wis.   |
| Greensboro-High Point, N.C. -----             | Coextensive with Guilford County, N.C.  |
| Greenville, S.C. -----                        | Consists of Greenville and Pickens Counties, S.C.   |
| Hamilton-Middletown, Ohio -----               | Coextensive with Butler County, Ohio  |
| Harrisburg, Pa. -----                         | Consists of Cumberland, Dauphin, and Perry Counties, Pa.  |
| Hartford, Conn. -----                         | Consists of Hartford city, and Avon, Bloomfield, Canton, East Granby, East Hartford, East Windsor, Enfield, Farmington, Glastonbury, Granby, Manchester, Newington, Rocky Hill, Simsbury, South Windsor, Suffield, West Hartford, Wethersfield, Windsor, and Windsor Locks towns in Hartford County; Cromwell town in Middlesex County; and Andover, Bolton, Coventry, Ellington, and Vernon towns in Tolland County, Conn. |
| Honolulu, Hawaii -----                        | Coextensive with Honolulu County, Hawaii  |
| Houston, Tex. -----                           | Coextensive with Harris County, Tex.  |
| Huntington-Ashland, W. Va.-Ky.-Ohio -----     | Consists of Cabell and Wayne Counties, W. Va.; Boyd County, Ky.; and Lawrence County, Ohio  |
| Huntsville, Ala. -----                        | Consists of Limestone and Madison Counties, Ala.  |
| Indianapolis, Ind. -----                      | Consists of Hamilton, Hancock, Hendricks, Johnson, Marion, Morgan, and Shelby Counties, Ind.  |
| Jackson, Mich. -----                          | Coextensive with Jackson County, Mich.  |
| Jackson, Miss. -----                          | Consists of Hinds and Rankin Counties, Miss.  |
| Jacksonville, Fla. -----                      | Coextensive with Duval County, Fla.   |
| Jersey City, N.J. -----                       | Coextensive with Hudson County, N.J.  |



STANDARD METROPOLITAN STATISTICAL AREAS—Continued

|   |  |
|---|--|
| Johnstown, Pa. -----                      | Consists of Cambria and Somerset Counties, Pa.   |
| Kalamazoo, Mich. -----                    | Coextensive with Kalamazoo County, Mich.   |
| Kansas City, Mo.-Kans. -----              | Consists of Cass, Clay, Jackson, and Platte Counties, Mo., and Johnson and Wyandotte Counties, Kans.   |
| Kenosha, Wis. -----                       | Coextensive with Kenosha County, Wis.  |
| Knoxville, Tenn. -----                    | Consists of Anderson, Blount, and Knox Counties, Tenn.   |
| Lafayette, La. -----                      | Coextensive with Lafayette Parish, La.   |
| Lake Charles, La. -----                   | Coextensive with Calcasieu Parish, La.   |
| Lancaster, Pa. -----                      | Coextensive with Lancaster County, Pa.   |
| Lansing, Mich. -----                      | Consists of Clinton, Eaton, and Ingham Counties, Mich.   |
| Laredo, Tex. -----                        | Coextensive with Webb County, Tex.   |
| Las Vegas, Nev. -----                     | Coextensive with Clark County, Nev.  |
| Lawrence-Haverhill, Mass.-N.H. -----      | Consists of Lawrence and Haverhill cities, and Andover, Georgetown, Groveland, Merrimac, Methuen, North Andover, and West Newbury towns in Essex County, Mass.; and Newton, Plaistow, and Salem towns in Rockingham County, N.H. |
| Lawton, Okla. -----                       | Coextensive with Comanche County, Okla.  |
| Lewiston-Auburn, Maine -----              | Consists of Auburn and Lewiston cities, and Lisbon town in Androscoggin County, Maine  |
| Lexington, Ky. -----                      | Coextensive with Fayette County, Ky.   |
| Lima, Ohio. -----                         | Coextensive with Allen County, Ohio  |
| Lincoln, Nebr. -----                      | Coextensive with Lancaster County, Nebr.   |
| Little Rock-North Little Rock, Ark. ----- | Coextensive with Pulaski County, Ark.  |
| Lorain-Elyria, Ohio -----                 | Coextensive with Lorain County, Ohio   |
| Los Angeles-Long Beach, Calif. -----      | Coextensive with Los Angeles County, Calif.  |
| Louisville, Ky.-Ind. -----                | Consists of Jefferson County, Ky., and Clark and Floyd Counties, Ind.  |
| Lowell, Mass. -----                       | Consists of Lowell city, and Billerica, Chelmsford, Dracut, Tewksbury, Tyngsborough, and Westford towns in Middlesex County, Mass.   |
| Lubbock, Tex. -----                       | Coextensive with Lubbock County, Tex.  |
| Lynchburg, Va. -----                      | Consists of Lynchburg city, and Amherst and Campbell Counties, Va.   |
| Macon, Ga. -----                          | Consists of Bibb and Houston Counties, Ga.   |
| Madison, Wis. -----                       | Coextensive with Dane County, Wis.   |
| Manchester, N.H. -----                    | Consists of Manchester city, and Bedford and Goffstown towns in Hillsborough County; and Hooksett town in Merrimack County, N.H.   |
| Memphis, Tenn.-Ark. -----                 | Consists of Shelby County, Tenn., and Crittenden County, Ark.  |
| Meriden, Conn. -----                      | Coextensive with Meriden city in New Haven County, Conn.   |
| Miami, Fla. -----                         | Coextensive with Dade County, Fla.   |
| Midland, Tex. -----                       | Coextensive with Midland County, Tex.  |
| Milwaukee, Wis. -----                     | Consists of Milwaukee, Ozaukee, and Waukesha Counties, Wis.  |
| Minneapolis-St. Paul, Minn. -----         | Consists of Anoka, Dakota, Hennepin, Ramsey, and Washington Counties, Minn.  |
| Mobile, Ala. -----                        | Consists of Baldwin and Mobile Counties, Ala.  |
| Monroe, La. -----                         | Coextensive with Ouachita Parish, La.  |
| Montgomery, Ala. -----                    | Consists of Elmore and Montgomery Counties, Ala.   |
| Muncie, Ind. -----                        | Coextensive with Delaware County, Ind.   |
| Muskegon-Muskegon Heights, Mich. -----    | Coextensive with Muskegon County, Mich.  |
| Nashville, Tenn. -----                    | Consists of Davidson, Sumner, and Wilson Counties, Tenn.   |
| New Bedford, Mass. -----                  | Consists of New Bedford city, and Acushnet, Dartmouth, and Fairhaven towns in Bristol County; and Marion and Mattapoisett towns in Plymouth County, Mass.  |
| New Britain, Conn. -----                  | Consists of New Britain city, and Berlin, Plainville, and Southington towns in Hartford County, Conn.  |
| New Haven, Conn. -----                    | Consists of New Haven city, and Bethany, Branford, East Haven, Guilford, Hamden, North Branford, North Haven, Orange, West Haven, and Woodbridge towns in New Haven County, Conn.  |
| New London-Groton-Norwich, Conn. -----    | Consists of New London and Norwich cities, and East Lyme, Griswold, Groton, Ledyard, Lisbon, Montville, Old Lyme, Preston, Sprague, Stonington, and Waterford towns in New London County, Conn.                                  |
| New Orleans, La. -----                    | Consists of Jefferson, Orleans, St. Bernard, and St. Tammany Parishes, La.   |
| New York, N.Y. -----                      | Consists of New York City, and Nassau, Rockland, Suffolk, and Westchester Counties, N.Y.   |
| Newark, N.J. -----                        | Consists of Essex, Morris, and Union Counties, N.J.  |
| Newport News-Hampton, Va. -----           | Consists of Newport News and Hampton cities, and York County, Va.  |
| Norfolk-Portsmouth, Va. -----             | Consists of Chesapeake, Norfolk, Portsmouth, and Virginia Beach cities, Va.  |

**STANDARD METROPOLITAN STATISTICAL AREAS—Continued**

|   |   |
|---|---|
| Norwalk, Conn. -----                          | Consists of Norwalk city, and Westport and Wilton towns in Fairfield County, Conn.  |
| Odessa, Tex. -----                            | Coextensive with Ector County, Tex.   |
| Ogden, Utah -----                             | Coextensive with Weber County, Utah   |
| Oklahoma City, Okla. -----                    | Consists of Canadian, Cleveland, and Oklahoma Counties, Okla.   |
| Omaha, Nebr.-Iowa -----                       | Consists of Douglas and Sarpy Counties, Nebr., and Pottawattamie County, Iowa   |
| Orlando, Fla. -----                           | Consists of Orange and Seminole Counties, Fla.  |
| Paterson-Clifton-Passaic, N.J. -----          | Consists of Bergen and Passaic Counties, N.J.   |
| Pensacola, Fla. -----                         | Consists of Escambia and Santa Rosa Counties, Fla.  |
| Peoria, Ill. -----                            | Consists of Peoria, Tazewell, and Woodford Counties, Ill.   |
| Philadelphia, Pa.-N.J. -----                  | Consists of Bucks, Chester, Delaware, Montgomery, and Philadelphia Counties, Pa., and Burlington, Camden, and Gloucester Counties, N.J.   |
| Phoenix, Ariz. -----                          | Coextensive with Maricopa County, Ariz.   |
| Pine Bluff, Ark. -----                        | Coextensive with Jefferson County, Ark.   |
| Pittsburgh, Pa. -----                         | Consists of Allegheny, Beaver, Washington, and Westmoreland Counties, Pa.   |
| Pittsfield, Mass. -----                       | Consists of Pittsfield city, and Dalton, Lanesborough, Lee, and Lenox towns in Berkshire County, Mass.  |
| Portland, Maine -----                         | Consists of Portland, South Portland, and Westbrook cities, and Cape Elizabeth, Cumberland, Falmouth, Gorham, Scarborough, and Yarmouth towns in Cumberland County, Maine   |
| Portland, Oreg.-Wash. -----                   | Consists of Clackamas, Multnomah, and Washington Counties, Oreg., and Clark County, Wash.   |
| Providence-Pawtucket-Warwick, R.I.-Mass. ---- | Consists of all of Bristol County; Warwick city, and Coventry, East Greenwich, and West Warwick towns in Kent County; Jamestown town in Newport County; Central Falls, Cranston, East Providence, Pawtucket, Providence, and Woonsocket cities, and Burrillville, Cumberland, Johnston, Lincoln, North Providence, North Smithfield, and Smithfield towns in Providence County; and Narragansett and North Kingstown towns in Washington County, R.I. Also, Attleboro city and North Attleborough, Rehoboth, and Seekonk towns in Bristol County, Mass.; Bellingham, Franklin, Plainville, and Wrentham towns in Norfolk County, Mass.; and Blackstone and Millville towns in Worcester County, Mass. |
| Provo-Orem, Utah -----                        | Coextensive with Utah County, Utah  |
| Pueblo, Colo. -----                           | Coextensive with Pueblo County, Colo.   |
| Racine, Wis. -----                            | Coextensive with Racine County, Wis.  |
| Raleigh, N.C. -----                           | Coextensive with Wake County, N.C.  |
| Reading, Pa. -----                            | Coextensive with Berks County, Pa.  |
| Reno, Nev. -----                              | Coextensive with Washoe County, Nev.  |
| Richmond, Va. -----                           | Consists of Richmond city, and Chesterfield, Hanover, and Henrico Counties, Va.   |
| Roanoke, Va. -----                            | Consists of Roanoke city and Roanoke County, Va.  |
| Rochester, N.Y. -----                         | Consists of Livingston, Monroe, Orleans, and Wayne Counties, N.Y.   |
| Rockford, Ill. -----                          | Consists of Boone and Winnebago Counties, Ill.  |
| Sacramento, Calif. -----                      | Consists of Placer, Sacramento, and Yolo Counties, Calif.   |
| Saginaw, Mich. -----                          | Coextensive with Saginaw County, Mich.  |
| St. Joseph, Mo. -----                         | Coextensive with Buchanan County, Mo.   |
| St. Louis, Mo.-Ill. -----                     | Consists of St. Louis city, and Franklin, Jefferson, St. Charles, and St. Louis Counties, Mo.; and Madison and St. Clair Counties, Ill.   |
| Salt Lake City, Utah -----                    | Consists of Davis and Salt Lake Counties, Utah  |
| San Angelo, Tex. -----                        | Coextensive with Tom Green County, Tex.   |
| San Antonio, Tex. -----                       | Consists of Bexar and Guadalupe Counties, Tex.  |
| San Bernardino-Riverside-Ontario, Calif. ---- | Consists of Riverside and San Bernardino Counties, Calif.   |
| San Diego, Calif. -----                       | Coextensive with San Diego County, Calif.   |
| San Francisco-Oakland, Calif. -----           | Consists of Alameda, Contra Costa, Marin, San Francisco, and San Mateo Counties, Calif.   |
| San Jose, Calif. -----                        | Coextensive with Santa Clara County, Calif.   |
| Santa Barbara, Calif. -----                   | Coextensive with Santa Barbara County, Calif.   |
| Savannah, Ga. -----                           | Coextensive with Chatham County, Ga.  |
| Scranton, Pa. -----                           | Coextensive with Lackawanna County, Pa.   |
| Seattle-Everett, Wash. -----                  | Consists of King and Snohomish Counties, Wash.  |
| Shreveport, La. -----                         | Consists of Bossier and Caddo Parishes, La.   |
| Sioux City, Iowa-Nebr. -----                  | Consists of Woodbury County, Iowa, and Dakota County, Nebr.   |
| Sioux Falls, S. Dak. -----                    | Coextensive with Minnehaha County, S. Dak.  |
| South Bend, Ind. -----                        | Consists of Marshall and St. Joseph Counties, Ind.  |
| Spokane, Wash. -----                          | Coextensive with Spokane County, Wash.  |



**STANDARD METROPOLITAN STATISTICAL AREAS—Continued**

|  |   |
|--|---|
| Springfield, Ill. -----                      | Coextensive with Sangamon County, Ill.  |
| Springfield, Mo. -----                       | Coextensive with Greene County, Mo.   |
| Springfield, Ohio -----                      | Coextensive with Clark County, Ohio   |
| Springfield-Chicopee-Holyoke, Mass.-Conn. -- | Consists of Chicopee, Holyoke, Springfield, and Westfield cities, and Agawam, East Longmeadow, Hampden, Longmeadow, Ludlow, Monson, Palmer, Southwick, West Springfield, and Wilbraham towns in Hampden County; Northampton city, and Easthampton, Granby, Hadley, and South Hadley towns in Hampshire County; and Warren town in Worcester County, Mass.; and Somers town in Tolland County, Conn. |
| Stamford, Conn. -----                        | Consists of Stamford city, and Darien, Greenwich, and New Canaan towns in Fairfield County, Conn.   |
| Steubenville-Weirton, Ohio-W. Va. -----      | Consists of Jefferson County, Ohio, and Brooke and Hancock Counties, W. Va.   |
| Stockton, Calif. -----                       | Coextensive with San Joaquin County, Calif.   |
| Syracuse, N.Y. -----                         | Consists of Madison, Onondaga, and Oswego Counties, N.Y.  |
| Tacoma, Wash. -----                          | Coextensive with Pierce County, Wash.   |
| Tampa-St. Petersburg, Fla. -----             | Consists of Hillsborough and Pinellas Counties, Fla.  |
| Terre Haute, Ind. -----                      | Consists of Clay, Sullivan, Vermillion, and Vigo Counties, Ind.   |
| Texarkana, Tex.-Ark. -----                   | Consists of Bowie County, Tex., and Miller County, Ark.   |
| Toledo, Ohio-Mich. -----                     | Consists of Lucas and Wood Counties, Ohio, and Monroe County, Mich.   |
| Topeka, Kans. -----                          | Coextensive with Shawnee County, Kans.  |
| Trenton, N.J. -----                          | Coextensive with Mercer County, N.J.  |
| Tucson, Ariz. -----                          | Coextensive with Pima County, Ariz.   |
| Tulsa, Okla. -----                           | Consists of Creek, Osage, and Tulsa Counties, Okla.   |
| Tuscaloosa, Ala. -----                       | Coextensive with Tuscaloosa County, Ala.  |
| Tyler, Tex. -----                            | Coextensive with Smith County, Tex.   |
| Utica-Rome, N.Y. -----                       | Consists of Herkimer and Oneida Counties, N.Y.  |
| Vallejo-Napa, Calif. -----                   | Consists of Napa and Solano Counties, Calif.  |
| Waco, Tex. -----                             | Coextensive with McLennan County, Tex.  |
| Washington, D.C.-Md.-Va. -----               | Consists of Washington, D.C.; Montgomery and Prince Georges Counties, Md.; and Alexandria, Fairfax, and Falls Church cities, and Arlington and Fairfax Counties, Va.  |
| Waterbury, Conn. -----                       | Consists of Thomaston, Watertown, and Woodbury towns in Litchfield County; and Waterbury city, Naugatuck borough, and Beacon Falls, Cheshire, Middlebury, Prospect, and Wolcott towns in New Haven, County, Conn.   |
| Waterloo, Iowa -----                         | Coextensive with Black Hawk County, Iowa  |
| West Palm Beach, Fla. -----                  | Coextensive with Palm Beach County, Fla.  |
| Wheeling, W. Va.-Ohio -----                  | Consists of Marshall and Ohio Counties, W. Va., and Belmont County, Ohio  |
| Wichita, Kans. -----                         | Consists of Butler and Sedgwick Counties, Kans.   |
| Wichita Falls, Tex. -----                    | Consists of Archer and Wichita Counties, Tex.   |
| Wilkes-Barre-Hazleton, Pa. -----             | Coextensive with Luzerne County, Pa.  |
| Wilmington, Del.-N.J.-Md. -----              | Consists of New Castle County, Del., Salem County, N.J., and Cecil County, Md.  |
| Winston-Salem, N.C. -----                    | Coextensive with Forsyth County, N.C.   |
| Worcester, Mass. -----                       | Consists of Worcester city, and Auburn, Berlin, Boylston, Brookfield, East Brookfield, Grafton, Holden, Leicester, Millbury, Northborough, Northbridge, North Brookfield, Oxford, Paxton, Shrewsbury, Spencer, Sterling, Sutton, Upton, Westborough, and West Boylston towns in Worcester County, Mass.   |
| York, Pa. -----                              | Consists of Adams and York Counties, Pa.  |
| Youngstown-Warren, Ohio -----                | Consists of Mahoning and Trumbull Counties, Ohio  |





# Appendix G

## **CURRENT INDUSTRIAL REPORTS (CIR) COMMODITY STATISTICS**

This appendix lists the 1963 Current Industrial Reports (CIR), a series of commodity surveys conducted by the Bureau of the Census, together with their frequency of publication. From many of these CIR's, selected data for 1963 were included in table 6 of the industry chapters of Volume II of the 1963 Census of Manufactures. The extreme right column lists the page numbers in the volume, including page numbers for data-containing footnotes, where

CIR data (as published in the 1963 census) may be found. Where the column for page number reference is blank, it signifies that no data from that CIR were published in the 1963 Census of Manufactures. It is to be noted that the CIR numbers and titles in this appendix relate to designations as separate published reports. References in the 1963 census volume itself will usually be in terms of the number and title of the CIR survey forms as mailed to the respondent for reporting in 1963.

For "frequency of publication," the letter symbols have the following meaning: M = Monthly; Q = Quarterly; SA = Semiannually; and A = Annually. In the extreme right column "Ftn." represents "footnote," on the page shown immediately to the left.

## Current Industrial Reports Commodity Statistics Included in Volume II of 1963 Census of Manufactures

| CIR series number | Title   | Frequency of publication | Pages of Volume II containing CIR data  | CIR series number | Title  | Frequency of publication | Pages of Volume II containing CIR data         |
|-------------------|---|--------------------------|---|-------------------|--|--------------------------|--|
| M20A              | Flour Milling Products  | M                        |   | M30E              | Plastics Bottles   | M                        |  |
| M20C              | Confectionery (Including Chocolate Products)                              | M                        |   | M31A              | Shoes and Slippers   | M                        |  |
| M20E              | Poultry and Livestock Feed Production                                     | A                        |   | M31E              | Luggage, Briefcases, and Personal Leather Goods  | Q                        | 31B-16   |
| M20F              | Salad Dressing, Mayonnaise, and Related Products                          | A                        | 20C-24  | M32C              | Refractories   | M                        | 32B-17; 32E-21, 23                             |
| M20J              | Fats and Oils - Vegetable Oil Crushers                                    | M                        |   | M32D              | Clay Construction Products   | M                        | 32B-19, Ftn. 3                                 |
| M20K              | Fats and Oils - Production, Consumption, and Factory and Warehouse Stocks | M                        | 20A-16, Ftn. 4  | M32E              | Pressed and Blown Glassware (Except Glass Containers)  | A                        | 32A-15, 16, 18                                 |
| M22A              | Woven Fabrics: Production, Inventories, and Unfilled Orders               | M                        |   | M32G              | Glass Containers   | M                        |  |
| M22D              | Consumption on the Woolen and Worsted Systems                             | M                        | 22F-23, Ftn. 6  | M32J              | Fibrous Glass  | A                        | 32A-18   |
| M22E              | Woolen and Worsted Machinery Activity                                     | A                        |   | M33A              | Iron and Steel Foundries and Steel Ingot Producers (Report on Products Shipped and Materials Used)           | M                        |  |
| M22F              | Yarn Production   | M                        | 22E-14, Note and Ftn. 7   | M33-1             | Iron and Steel Castings  | M                        | 33B-13, Ftn. 1                                 |
| M22G              | Narrow Fabrics  | A                        | 22A-21  | M33-2             | Aluminum Ingot and Mill Products   | M                        | 33D-35, Ftn. 5                                 |
| M22K              | Knit Cloth for Sale   | A                        | 22B-29, 30  | M33-3             | Inventories of Steel Mill Shapes   | M                        |  |
| M22L              | Tufted Textile Products   | SA                       | 23E-19  | M33B              | Steel Mill Products  | A                        | 33A-23-26, 29, 32, 34, 36, 38                  |
| M22M              | Stocks of Carpet Wool and Related Fibers                                  | Q                        |   | M33C              | Commercial Steel Forgings  | M                        | 33A-26, Ftn. 5; 33E-12, Ftn. 2                 |
| M22P              | Cotton, Man-Made Fiber Staple, and Linters                                | M                        |   | M33E              | Nonferrous Castings  | M                        |  |
| M22Q              | Rugs, Carpets, and Carpeting  | A                        | 22D-9   | M33G              | Magnesium Mill Products  | M                        | 33D-38   |
| M22S              | Cotton, Silk, and Man-Made Fiber Woven Goods Finished                     | A                        | 22C-14, Ftn. 2  | M34D              | Metal Cans   | M                        | 33A-38; 34A-16                                 |
| M22T.1            | Cotton Broad-Woven Goods  | Q                        | 22A-22, Ftn. 2  | M34E              | Plumbing Fixtures  | Q                        | 24-C-17; 32C-13; 34B-12                        |
| M22T.2            | Man-Made Fiber Broad-Woven Goods  | Q                        |   | M34G              | Steel Power Boilers  | A                        |  |
| M22T.3            | Wool Broad-Woven Goods  | Q                        | 22A-22, Ftn. 7  | M34H              | Closures for Containers  | M                        | 34D-22, Ftn. 5                                 |
| M22T.4            | Tire Cord and Tire Cord Fabrics   | Q                        | 22F-20  | M34K              | Steel Shipping Barrels, Drums, and Pails   | M                        | 34E-25   |
| M22T.5            | Nonwoven Fabrics (Bonded Fiber Fabrics and Conventional Felts)            | A                        | 22F-22  | M34N              | Heating and Cooking Equipment  | M                        | 34B-13-17; 36B-17, 20, 25                      |
| M22T.6            | Felts, Except Woven Felts and Hats  | Q                        | 23A-36-43, 43, Ftn. 4, 5; 23B-23-26, 26, Ftn. 9; 23C-31-37, 37, Ftn. 20; 23D-29 | M34P              | Aluminum Foil Converted  | A                        |  |
| M23A              | Apparel   | A                        |   | M35A              | Farm Machines and Equipment  | Q                        | 35A-16, 43; 37C-24                             |
| M23B              | Men's Apparel   | M                        |   | M35C              | Typewriters  | M                        |  |
| M23C              | Knit Underwear and Nightwear  | Q                        |   | M35D              | Construction Machinery   | Q                        | 35B-19-23, 29                                  |
| M23D              | Gloves and Mittens  | A                        | 23D-28; 31B-16  | M35F              | Mining Machinery and Equipment   | A                        | 35B-24; 37C-22                                 |
| M23H              | Women's, Misses', and Juniors' Apparel                                    | M                        |   | M35G              | Farm Pumps   | M                        | 35E-19, 26                                     |
| M23J              | Brassieres, Corsets, and Allied Garments                                  | A                        | 23C-33, 37, Ftn. 12, 13, 23C-39; 23D-30   | M35H              | Fans, Blowers, and Unit Heaters  | Q                        | 34B-15, 16; 35E-21, 26                         |
| M23X              | Sheets, Pillowcases, and Towels   | A                        | 22A-18; 23E-19, 20  | M35L              | Internal Combustion Engines  | A                        | 35A-15, 19-23, 43                              |
| M24C              | Red Cedar Shingles  | A                        |   | M35M              | Air-Conditioning and Refrigeration Equipment   | A                        | 35G-18-24, 28                                  |
| M24F              | Hardwood Plywood: Production and Shipments                                | A                        | 24B-12  | M35P              | Pumps and Compressors  | A                        | 35E-18-20, 26                                  |
| M24H              | Softwood Plywood and Veneer   | A                        |   | M35R              | Office, Computing, and Accounting Machines   | A                        | 35F-12, 13, 15                                 |
| M24T              | Lumber Production and Mill Stocks   | A                        |   | M35S              | Tractors (Except Garden Tractors)  | M                        | 35A-16, 40; 35B-19, 29                         |
| M25D              | Household Furniture and Bedding Products                                  | A                        |   | M35U              | Vending Machines   | A                        | 35G-18   |
| M25E              | Mattresses and Bedsprings   | M                        | 25A-19  | M35W              | Metalworking Machinery   | Q                        | 35C-17, 27                                     |
| M25H              | Office Furniture  | A                        | 25B-21  | M36A              | Switchgear, Switchboard Apparatus, Relays, and Industrial Controls   | A                        | 36A-27, 36, 39, Ftn. 5, 36A-41; 36D-39, Ftn. 5 |
| M26A              | Pulp, Paper, and Board  | M                        |   | M36B              | Electric Lamps   | Q                        | 36C-14   |
| M26F              | Converted Flexible Packaging Products                                     | M                        | 28A-20-31   | M36C              | Fluorescent Lamp Ballasts  | Q                        | 36A-26   |
| M28A              | Inorganic Chemicals and Gases   | M                        |   | M36D              | Electric Lamps   | M                        |  |
| M28D              | Superphosphate and Other Phosphatic Fertilizer Materials                  | M                        |   | M36E              | Electric Housewares and Fans   | A                        | 36B-19, 25                                     |
| M28F              | Paint, Varnish, and Lacquer   | M                        |   | M36H              | Motors and Generators  | A                        | 36A-29, 41                                     |
| M28G              | Pharmaceutical Preparations, Except Biologicals                           | A                        | 28C-9-13  | M36K              | Wiring Devices and Supplies  | A                        | 36C-17, 18                                     |
| M28W              | Animal Glue   | M                        |   | M36L              | Electric Lighting Fixtures   | A                        | 36C-15   |
| M29A              | Asphalt and Tar Roofing and Siding Products                               | M                        |   | M36M              | Home-Type Radio Receivers and Television Sets, Automobile Radios, Phonographs, and Record Player Attachments | A                        | 36D-27, 32                                     |
| M30A              | Rubber (Supply and Distribution for the United States)                    | M                        |   | M36N              | Selected Electronic and Associated Products  | A                        | 36A-24; 36D-27-29, 32; 36E-15, 19              |
| M30D              | Shipments of Selected Plastics Products                                   | A                        | 30A-19-22   | M37D              | Backlog of Orders for Aerospace Companies  | Q                        |  |
|                   |   |                          |   | M37E              | Aircraft Propellers  | SA                       |  |
|                   |   |                          |   | M37G              | Complete Aircraft and Aircraft Engines   | M                        | 37B-18, Ftn. 3, 5                              |
|                   |   |                          |   | M37L              | Truck Trailers   | M                        | 37A-13, 14                                     |
|                   |   |                          |   | M38B              | Selected Instruments and Related Products  | A                        | 19A-14; 36A-23, 41; 38A-25, 32                 |
|                   |   |                          |   | M38Q              | Atomic Energy Products   | A                        |  |



# Appendix H

## COMPARABILITY OF PRODUCT CLASSES BETWEEN THE 1963 AND 1958 CENSUSES OF MANUFACTURERS

This appendix lists those classes of products which were changed in coverage and/or in code between the 1958 and 1963 censuses of manufactures. Part 1 traces the comparability of classes as defined in 1963 and as changed from 1958; Part 2 shows comparability of classes as existing in 1958, and as altered for 1963.

The changed relationship between the classes of products between 1958 and 1963 resulted partly from a revision of the Standard Industrial Classification (SIC) (published early in 1963 as a supplement to the SIC Manual), on which classification codes and procedures employed by the Bureau of the Census are based. The supplement and manual referred to are published by the Bureau of the Budget and are available from the U.S. Government Printing Office, Washington, D.C. 20402. The 1963 revision was a limited one, confined to some reordering of 4-digit industries within 3-digit groups. In addition to product class changes resulting from the deletion of some industries defined in the Manual in 1958, and the defining of new industries out of existing industries, there were a considerable number of changes in product classes within the boundaries of unchanged 4-digit industries. These resulted from (1) an effort to isolate important product classes in growing areas, (2) a desire to recognize different end-uses or markets, and (3) a reexamination of the detailed commodity structure of some industries (for example, 2821, plastics materials, etc., and 2834, pharmaceutical preparations). All of these changes

are reflected in the accompanying tabular presentation of product class comparability.

Product classes, coded to five digits, represent an intermediate level of classification between the 4-digit establishment industry coding of the SIC and the 7-digit level used for product coding by the Bureau of the Census for the census of manufactures and for the more than 100 Current Industrial Reports published by the Bureau. Product classes, representing relatively homogeneous groupings of products, are utilized for requesting output data in the Annual Survey of Manufactures (ASM). In addition to data published in the ASM, production and/or shipments information for product classes are shown in the table 6 series of the industry chapters of the Census of Manufactures for 1963 (Volume II, **Industry Statistics**) and, for product-class specialization, in the general statistics in table 8. Production, shipments, inventory, and other data by product class will be found in numerous publications in the Current Industrial Reports series. Where applicable, table 6A of the industry chapters of the census of manufactures carries product data obtained from the Current Industrial Reports.

In the two parts of this appendix, the codes and descriptions of product classes affected by revision between 1958 and 1963 are given. In each of the parts, the product class or classes shown on the left are comparable to the class or classes shown on the right. For example, in Part 1, product classes 20221 and 20222 for 1963 are the equivalent in coverage to classes 20220 and 20252 for 1958. In Part 2, the reverse situation is the case. Where a product class shown in the left column is part of a product class in the right column, the class code in the right column contains an asterisk (\*). Thus, it is evident that a product class in one year may be a part of several product classes in the other year. Where such situations exist, comparability between the censuses becomes difficult at the product class level.

## Comparability of Product Classes

### Part 1. 1963 Census of Manufactures as Related to 1958 Census of Manufactures

| 1963               |  | 1958 equivalent    |   |
|--------------------|--|--------------------|---|
| Product class code | Product class description  | Product class code | Product class description   |
| 19291              | Ammunition except for small arms, n.e.c.   | 19210              | Artillery ammunition over 30 mm.(or over 1.18 inches)   |
| 19292              | Receipts for ammunition loading and assembly, over 30 mm. (or over 1.18 inches)        | 19220              | Receipts for ammunition loading and assembly, over 30 mm. (or over 1.18 inches)                     |
| 19253              | Research and development on guided missiles and space vehicles                         | 19253              | Research and development on guided missiles (complete)  |
| 19255              | All other services on complete missiles and space vehicles                             |                    |   |
| 19293              | Ammunition, n.e.c.   | 19290              | Ammunition, n.e.c.  |
| 20221              | Natural cheese, except cottage cheese  | 20220<br>20252     | Cheese, except cottage cheese<br>Process cheese (from purchased cheese)                             |
| 20222              | Process cheese and related products  |                    |   |
| 20341              | Dried and dehydrated fruits and vegetables and freeze dried products                   | 20340              | Dried and dehydrated fruits and vegetables and soup mix   |
| 20342              | Soup Mixes   |                    |   |
| 20943              | Animal and marine oil mill products, including foots                                   | 20950              | Animal and marine oil mill products, including foots  |
| 20951              | Roasted coffee, whole bean or ground   | 20995              | Roasted coffee  |
| 20952              | Concentrated coffee  |                    |   |
| 22513              | Finished seamless hosiery, full-length and knee-length (women's)                       | 22521              | Women's finished seamless hosiery, except anklets   |
| 22514              | Women's full-fashioned hosiery shipped in the greige                                   | 22512              | Women's full-fashioned hosiery shipped in the greige  |
| 22515              | Women's seamless full-length and knee-length hosiery shipped in the greige             | 22524              | Seamless hosiery shipped in the greige  |
| 22524              | Seamless hosiery shipped in the greige (except women's)                                |                    |   |
| 24996              | Hard pressed wood fiber board  | 26613              | Hard pressed wood fiber board   |
| 26471              | Sanitary napkins and tampons   | 26494              | Sanitary napkins and tampons  |
| 26472              | Sanitary tissue health products  | 26493              | Sanitary tissue health products   |
| 28211              | Unsupported plastics film, sheets, rods, tubes, from resins made in same establishment | 28211*             | Cellulose plastics materials, except from scrap   |
|                    |  | 28213*             | Synthetic resins, except resins for protective coatings   |
|                    |  | 28214              | Vinyl and polyethylene unsupported film and sheeting from resins manufactured in same establishment |
| 28213              | Thermoplastic resins, except resins for protective coatings                            | 28211*             | Cellulose plastics materials, except from scrap   |
|                    |  | 28213*             | Synthetic resins, except resins for protective coatings   |
| 28214              | Thermosetting resins, except resins for protective coatings                            | 28213*             | Synthetic resins, except resins for protective coatings   |
|                    |  | 28215*             | Plastics and resin materials, n.e.c.  |
| 28215              | Adhesives made from plastics and resin materials produced in same establishment        | 28211*             | Cellulose plastics materials, except from scrap   |
|                    |  | 28213*             | Synthetic resins, except resins for protective coatings   |
|                    |  | 28215*             | Plastics and resin materials, n.e.c.  |
| 28216              | Synthetic resins for protective coatings   | 28215*             | Plastics and resin materials, n.e.c.  |
| 28217              | Custom compounding of purchased resins   | 28215*             | Plastics and resin materials, n.e.c.  |
| 28219              | Plastics and resin materials, n.e.c.   | 28211*             | Cellulose plastics materials, except from scrap   |
|                    |  | 28213*             | Synthetic resins, except resins for protective coatings   |
|                    |  | 28215*             | Plastics and resin materials, n.e.c.  |
| 28331              | Synthetic organic medicinal chemicals in bulk  | 28331<br>28332     | Medicinal and botanical drugs, uncompounded, for human use  |
| 28332              | Other medicinal chemicals and botanical products, n.e.c. (in bulk)                     |                    |   |
|                    |  | 28332              | Medicinal drugs for veterinary use  |

\*Represents part.



## Comparability of Product Classes

### Part 1. 1963 Census of Manufactures as Related to 1958 Census of Manufactures--Con.

| 1963               |  | 1958 equivalent            |  |
|--------------------|--|----------------------------|--|
| Product class code | Product class description  | Product class code         | Product class description  |
| 28341              | Pharmaceutical preparations affecting neoplasms, endocrine system and metabolic disease, for human use | 28348<br>28349*            | Hormone preparations<br>Other pharmaceutical preparations  |
| 28342              | Pharmaceutical preparations acting on the central nervous system and the sense organs, for human use   | 28346*<br>28347*<br>28349* | Analgesics, including narcotics<br>Tranquilizers, sedatives, and hypnotics<br>Other pharmaceutical preparations        |
| 28343              | Pharmaceutical preparations acting on the cardiovascular system, for human use                         | 28347*<br>28349*           | Tranquilizers, sedatives, and hypnotics<br>Other pharmaceutical preparations   |
| 28344              | Pharmaceutical preparations acting on the respiratory system, for human use                            | 28343                      | Cough and cold preparations for human use  |
| 28345              | Pharmaceutical preparations acting on the digestive or genito-urinary systems, for human use           | 28344<br>28349*            | Laxatives and stomach and ulcer preparations for human use<br>Other pharmaceutical preparations                        |
| 28346              | Pharmaceutical preparations acting on the skin, for human use  | 28346*<br>28349*           | Analgesics, including narcotics<br>Other pharmaceutical preparations   |
| 28347              | Vitamin, nutrient and hematinic preparations, for human use  | 28345<br>28349*            | Vitamins for human use<br>Other pharmaceutical preparations  |
| 28348              | Pharmaceutical preparations affecting parasitic and infective diseases, for human use                  | 28342<br>28349*            | Antibiotic preparations for human use<br>Other pharmaceutical preparations   |
| 28349              | Pharmaceutical preparations for veterinary use   | 28341                      | Pharmaceutical preparations for veterinary use   |
| 28511              | Exterior oil-type trade sales paint products   | 28511                      | Paints, varnishes, and enamels - trade sales products  |
| 28512              | Exterior water-type trade sales paint products, including tinting bases                                |                            |  |
| 28513              | Interior oil-type trade sales paint products   |                            |  |
| 28514              | Interior water-type trade sales paint products, including tinting bases                                |                            |  |
| 28515              | Trade sales lacquers   | 28512                      | Industrial product finishes and special coatings   |
| 28516              | Industrial product finishes, except lacquers   |                            |  |
| 28517              | Industrial lacquers  |                            |  |
| 28518              | Putty, caulking compounds and allied products  | 28520                      | Putty, caulking compounds and allied products  |
| 28519              | Miscellaneous paint products   | 28514                      | Miscellaneous paint products   |
| 28790              | Agricultural pesticides and other agricultural chemicals   | 28730<br>28790             | Agricultural pesticides, herbicidal preparations, and similar agricultural chemicals<br>Agricultural chemicals, n.e.c. |
| 28921              | Industrial explosives  | 28920                      | Explosives   |
| 28922              | Explosives produced in government-owned, contractor-operated plants                                    |                            |  |
| 28992              | Fatty acids  | 28940                      | Fatty acids  |
| 30791              | Unsupported plastics film, sheets, rods, tubes, from purchased resins                                  | 30793*                     | Molded plastics products, n.e.c.   |
|                    |  | 30794                      | Unsupported vinyl and polyethylene film and sheeting made from purchased resins  |
|                    |  | 30799*                     | Fabricated plastics products, n.e.c.   |
| 30792              | Foamed plastics products   | 30796                      | Expanded or foamed plastics  |
| 30793              | Laminated plastics sheets, rods, tubes   | 30797                      | High pressure laminated plastics sheets  |
|                    |  | 30798                      | Laminated plastics sheets, rods, tubes, other than high pressure   |
| 30794              | Packaging and shipping containers, plastics  | 30793*                     | Molded plastics products, n.e.c.   |
|                    |  | 30799*                     | Fabricated plastics products, n.e.c.   |
| 30795              | Industrial plastics products   | 30793*                     | Molded plastics products, n.e.c.   |
|                    |  | 30799*                     | Fabricated plastics products, n.e.c.   |

\* Represents part.

## Comparability of Product Classes

### Part 1. 1963 Census of Manufactures as Related to 1958 Census of Manufactures--Con.

| 1963               |  | 1958 equivalent    |   |         |  |
|--------------------|--|--------------------|---|---------|--|
| Product class code | Product class description  | Product class code | Product class description   |         |  |
| 30796              | Construction plastics products   | 30792*             | Plastic pipe, hose, tubing, and fittings  |         |  |
|                    |  | 30793*             | Molded plastics products, n.e.c.  |         |  |
|                    |  | 30795              | Unsupported plastics floor and wall covering  |         |  |
|                    |  | 30799*             | Fabricated plastics products, n.e.c.  |         |  |
| 30797              | Plastics dinnerware, tableware, and kitchenware  | 30791*             | Plastics dinnerware and housewares, except sheet goods products   |         |  |
|                    |  | 30799*             | Fabricated plastics products, n.e.c.  |         |  |
| 30798              | Consumer and commercial plastics products, n.e.c.  | 30791*             | Plastics dinnerware and housewares, except sheet goods  |         |  |
|                    |  | 30792*             | Plastic pipe, hose, tubing, and fittings  |         |  |
|                    |  | 30793*             | Molded plastics products, n.e.c.  |         |  |
|                    |  | 30799*             | Fabricated plastics products, n.e.c.  |         |  |
| 32722              | Precast concrete products  | 32722              | Precast and prestressed concrete products, except concrete pipe   |         |  |
| 32723              | Prestressed concrete products  |                    |   |         |  |
| 32950              | Minerals and earths, ground or otherwise treated   | 32950              | Minerals and earths, ground or otherwise treated  |         |  |
|                    |  | 32961*             | Mineral wool for structural insulation  |         |  |
|                    |  | 32962*             | Mineral wool for industrial and equipment insulation  |         |  |
| 33347              | Aluminum ingot made in primary aluminum industry   | } 33341            | Primary aluminum-base alloys (pig, ingot, shot, etc.)   |         |  |
| 33348              | Aluminum extrusion billet made in primary aluminum industry                                |                    |   | 33342   | Primary unalloyed aluminum                         |
| 33417              | Aluminum ingot made by secondary smelters  |                    |   | } 33411 | Secondary aluminum base alloys (ingot, shot, etc.) |
| 33418              | Aluminum extrusion billet made by secondary smelters                                       |                    |   |         |  |
| 33527              | Aluminum ingot made in aluminum rolling mills  | 33520 <sup>1</sup> | Aluminum-base alloys made in aluminum rolling mills   |         |  |
| 33528              | Aluminum extrusion billet made in aluminum rolling mills                                   |                    |   |         |  |
| 33573              | Nonferrous metal wire, except insulated (excluding aluminum and copper)                    | 33573              | Nonferrous metal wire, except insulated, but including woven wire products (other than aluminum and copper) |         |  |
| 33575              | Nonferrous wire cloth and other woven wire products made in nonferrous wire drawing plants |                    |   |         |  |
| 34432              | Fabricated steel plate, including stacks and weldments                                     | 34434              | Gas cylinders and other boiler shop products  |         |  |
| 34434              | Gas cylinders  |                    |   |         |  |
| 34435              | Metal tanks complete at factory (standard line, pressure)                                  | 34435              | Metal tanks complete at factory (standard line, pressure and nonpressure) and metal septic tanks            |         |  |
| 34437              | Metal tanks complete at factory (standard line nonpressure)                                |                    |   |         |  |
| 34438              | Metal tanks and vessels, custom fabricated at the factory                                  | 34436              | Metal tanks and vessels, custom fabricated at the factory   |         |  |
| 34439              | Metal tanks and vessels, custom fabricated and field erected                               |                    |   |         |  |
| 34460              | Ornamental and structural metal work   | 34491              | Ornamental and structural metal work  |         |  |
| 34522              | Special industrial fasteners   | 34522              | Special industrial fasteners, other than standard types   |         |  |
| 34523              | Headed products (produced by cold and hot heading) other than industrial fasteners         |                    |   |         |  |
| 34814              | Ferrous wire cloth and other woven ferrous wire products, from purchased wire              | 34817              | Wire cloth and other woven wire products, not produced by wire drawers                                      |         |  |
| 34815              | Nonferrous wire cloth and other woven nonferrous wire products                             |                    |   |         |  |

\*Represents part.

<sup>1</sup>Did not exist as a product class in 1958. This code was utilized especially to accommodate the products indicated.



## Comparability of Product Classes

### Part 1. 1963 Census of Manufactures as Related to 1958 Census of Manufactures--Con.

| 1963               |   | 1958 equivalent    |  |
|--------------------|---|--------------------|--|
| Product class code | Product class description   | Product class code | Product class description  |
| 35323              | Mining machinery and equipment (other than underground equipment and crushing, pulverizing, and screening plants, stationary) | 35323              | Mining machinery and equipment (other than underground equipment and crushing, pulverizing, and screening plants, stationary)                  |
| 35324              | Parts and attachments for mining machinery and equipment  |                    |  |
| 35811              | Automatic vending machines (complete units)   | } 35811<br>35812   | Automatic merchandising machines, refrigerated   |
| 35812              | Coin-operated mechanisms and parts for automatic vending machines   |                    |  |
| 35893              | Commercial and industrial vacuum cleaners, including parts and attachments  | 35840              | Commercial and industrial vacuum cleaners, including parts and attachments   |
| 36421              | Residential type electric fixtures (except portable)  | 36421              | Residential type electric fixtures   |
| 36427              | Residential type electric fixtures (portable)   |                    |  |
| 36621              | Radio and television commercial communication equipment   | 36621              | Commercial, industrial, and military electronic communication equipment, except broadcast equipment and home-type intercommunication equipment |
| 36627              | Space satellite-borne communication systems (complete package)  |                    |  |
| 36624              | Electronic navigational aids (except missile-borne and space vehicle-borne equipment)   | 36624              | Electronic navigational aids   |
| 36628              | Missile borne and space vehicle borne navigation and guidance systems and equipment   |                    |  |
| 36740              | Solid state semiconductor devices   | 36791              | Solid state semiconductor devices  |
| 37221              | Aircraft engines for United States military customers   | 37221              | Aircraft engines for United States military customers and all missile engines  |
| 37225              | Complete missile or space vehicle engines and/or propulsion units   |                    |  |
| 37223              | Research and development on aircraft engines  | 37223              | Aeronautical services on aircraft and missile engines  |
| 37226              | Receipts for research and development on complete missile or space vehicle engines and/or propulsion units                    |                    |  |
| 37227              | All other services on complete missile or space vehicle engines and/or propulsion units                                       |                    |  |
| 37224              | Aircraft engine parts and accessories   | 37224              | Aircraft engine parts (including parts for missile engines)  |
| 37228              | Missile and space vehicle engine and/or propulsion unit parts and accessories   |                    |  |
| 38112              | Laboratory and scientific instruments   | 38112              | Engineering, laboratory, and scientific instruments (except aircraft flight, nautical, and navigational instruments and automatic pilots)      |
| 38113              | Survey and drafting instruments and laboratory furniture  |                    |  |
| 38311              | Optical and analytical instruments and lenses   | 38310              | Optical instruments and lenses   |
| 38312              | Sighting and fire control equipment made from lenses, prisms, etc. produced in same plant                                     |                    |  |

## Comparability of Product Classes

### Part 2. 1958 Census of Manufactures as Related to 1963 Census of Manufactures

| 1958               |   | 1963 equivalent    |  |
|--------------------|---|--------------------|--|
| Product class code | Product class description   | Product class code | Product class description  |
| 19210              | Artillery ammunition over 30 mm (or over 1.18 inches)   | 19291              | Ammunition except for small arms, n.e.c.   |
| 19220              | Receipts for ammunition loading and assembly, over 30 mm (or over 1.18 inches)                            | 19292              | Receipts for ammunition loading and assembly, over 30 mm (or over 1.18 inches)         |
| 19253              | Research and development on guided missiles (complete)  | 19253              | Research and development on guided missiles and space vehicles                         |
|                    |   | 19255              | All other services on complete missiles and space vehicles                             |
| 19290              | Ammunition, n.e.c.  | 19293              | Ammunition, n.e.c.   |
| 20220              | Cheese, except cottage cheese   | 20221              | Natural cheese, except cottage cheese  |
| 20252              | Process cheese (from purchased cheese)  |                    |  |
| 20340              | Dried and dehydrated fruits and vegetables and soup mix   | 20341              | Dried and dehydrated fruits and vegetables and freeze dried products                   |
|                    |   | 20342              | Soup mixes   |
| 20950              | Animal and marine oil mill products, including foots  | 20943              | Animal and marine oil mill products, including foots                                   |
| 20995              | Roasted coffee  | 20951              | Roasted coffee, whole bean or ground   |
|                    |   | 20952              | Concentrated coffee  |
| 22512              | Women's full-fashioned hosiery shipped in the greige  | 22514              | Women's full-fashioned hosiery shipped in the greige                                   |
| 22521              | Women's finished seamless hosiery, except anklets   | 22513              | Finished seamless hosiery, full-length and knee-length (women's)                       |
| 22524              | Seamless hosiery shipped in the greige  | 22515              | Women's seamless full-length and knee-length hosiery shipped in the greige             |
|                    |   | 22524              | Seamless hosiery shipped in the greige (except women's)                                |
| 26493              | Sanitary tissue health products   | 26472              | Sanitary tissue health products  |
| 26494              | Sanitary napkins and tampons  | 26471              | Sanitary napkins and tampons   |
| 26613              | Hard pressed wood fiber board   | 24996              | Hard pressed wood fiber board  |
| 28211              | Cellulose plastics products, except from scrap  | 28211*             | Unsupported plastics film, sheets, rods, tubes, from resins made in same establishment |
|                    |   | 28213*             | Thermoplastic resins, except resins for protective coatings                            |
|                    |   | 28215*             | Adhesives made from plastics and resin materials produced in same establishment        |
|                    |   | 28219*             | Plastics and resin materials, n.e.c.   |
| 28213              | Synthetic resins, except resins for protective coatings   | 28211*             | Unsupported plastics film, sheets, rods, tubes, from resins made in same establishment |
|                    |   | 28213*             | Thermoplastic resins, except resins for protective coatings                            |
|                    |   | 28214*             | Thermosetting resins, except resins for protective coatings                            |
|                    |   | 28215*             | Adhesives made from plastics and resin materials produced in same establishment        |
|                    |   | 28219*             | Plastics and resin materials, n.e.c.   |
| 28214              | Vinyl and polyethylene unsupported film and sheeting, made from resins manufactured in same establishment | 28211*             | Unsupported plastics film, sheets, rods, tubes, from resins made in same establishment |

\*Represents part.



## Comparability of Product Classes

### Part 2. 1958 Census of Manufactures as Related to 1963 Census of Manufactures--Con

| 1958               |  | 1963 equivalent    |  |
|--------------------|--|--------------------|--|
| Product class code | Product class description                                  | Product class code | Product class description  |
| 28215              | Plastics and resin materials, n.e.c.                       | 28214*             | Thermosetting resins, except resins for protective coatings  |
|                    |  | 28215*             | Adhesives made from plastics and resin materials produced in same establishment                        |
|                    |  | 28216              | Synthetic resins for protective coatings   |
|                    |  | 28217              | Custom compounding of purchased resins   |
|                    |  | 28219*             | Plastics and resin materials, n.e.c.   |
| 28331              | Medicinal and botanical drugs, uncompounded, for human use | 28331              | Synthetic organic medicinal chemicals in bulk  |
| 28332              | Medicinal drugs for veterinary use                         |                    | Other medicinal chemicals and botanical products, n.e.c. (in bulk)                                     |
| 28341              | Pharmaceutical preparations for veterinary use             | 28349              | Pharmaceutical preparations for veterinary use   |
| 28342              | Antibiotic preparations for human use                      | 28348*             | Pharmaceutical preparations affecting parasitic and infective diseases, for human use                  |
| 28343              | Cough and cold preparations for human use                  | 28344              | Pharmaceutical preparations acting on the respiratory system, for human use                            |
| 28344              | Laxatives and stomach and ulcer preparations for human use | 28345*             | Pharmaceutical preparations acting on the digestive or genito-urinary systems, for human use           |
| 28345              | Vitamins for human use                                     | 28347*             | Vitamin, nutrient and hematinic preparations, for human use  |
| 28346              | Analgesics, including narcotics                            | 28342*             | Antibiotic preparations for human use  |
|                    |  | 28346*             | Pharmaceutical preparations acting on the skin, for human use  |
| 28347              | Tranquilizers, sedatives, and hypnotics                    | 28342*             | Pharmaceutical preparations acting on the central nervous system and the sense organs, for human use   |
|                    |  | 28343*             | Pharmaceutical preparations acting on the cardiovascular system, for human use                         |
| 28348              | Hormone preparations                                       | 28341*             | Pharmaceutical preparations affecting neoplasms, endocrine system and metabolic disease, for human use |
| 28349              | Other pharmaceutical preparations                          | 28341*             | Pharmaceutical preparations affecting neoplasms, endocrine system and metabolic disease, for human use |
|                    |  | 28342*             | Pharmaceutical preparations acting on the central nervous system and the sense organs, for human use   |
|                    |  | 28343*             | Pharmaceutical preparations acting on the cardiovascular system, for human use                         |
|                    |  | 28345*             | Pharmaceutical preparations acting on the digestive or genito-urinary systems, for human use           |
|                    |  | 28346*             | Pharmaceutical preparations acting on the skin, for human use  |
|                    |  | 28347*             | Vitamin, nutrient and hematinic preparations, for human use  |
|                    |  | 28348*             | Pharmaceutical preparations affecting parasitic and infective diseases, for human use                  |
| 28511              | Paints, varnishes, and enamels—trade sales paint products  | 28511              | Exterior oil-type trade sales paint products   |
|                    |  | 28512              | Exterior water-type trade sales paint products, including tinting bases                                |
|                    |  | 28513              | Interior oil-type trade sales paint products   |
|                    |  | 28514              | Interior water-type trade sales paint products, including tinting bases                                |
| 28512              | Industrial product finishes and special coatings           | 28515              | Trade sales lacquers   |
|                    |  | 28516              | Industrial product finishes, except lacquers   |
|                    |  | 28517              | Industrial lacquers  |
| 28514              | Miscellaneous paint products                               | 28519              | Miscellaneous paint products   |

\*Represents part.

## Comparability of Product Classes

### Part 2. 1958 Census of Manufactures as Related to 1963 Census of Manufactures--Con

| 1958               |  | 1963 equivalent    |   |       |   |
|--------------------|--|--------------------|---|-------|---|
| Product class code | Product class description  | Product class code | Product class description   |       |   |
| 28520              | Putty, caulking compounds and allied products  | 28518              | Putty, caulking compounds and allied products                         |       |   |
| 28730              | Agricultural pesticides, herbicidal preparations, and similar agricultural chemicals | 28790              | Agricultural pesticides and other agricultural chemicals              |       |   |
| 28790              | Agricultural chemicals, n.e.c.   |                    |   |       |   |
| 28920              | Explosives   | 28921              | Industrial explosives   |       |   |
|                    |  | 28922              | Explosives produced in government-owned, contractor-operated plants   |       |   |
| 28940              | Fatty acids  | 28992              | Fatty acids   |       |   |
| 30791              | Plastics dinnerware and housewares, except sheet goods                               | 30797*             | Plastics dinnerware, tableware, and kitchenware                       |       |   |
| 30792              | Plastic pipe, hose, tubing, and fittings   | 30798*             | Consumer and commercial plastics products, n.e.c.                     |       |   |
|                    |  | 30796*             | Construction plastics products  |       |   |
| 30793              | Molded plastics products, n.e.c.   | 30798*             | Consumer and commercial plastics products, n.e.c.                     |       |   |
|                    |  | 30791*             | Unsupported plastics film, sheets, rods, tubes, from purchased resins |       |   |
|                    |  | 30794*             | Packaging and shipping containers, plastics                           |       |   |
|                    |  | 30795*             | Industrial plastics products  |       |   |
|                    |  | 30796*             | Construction plastics products  |       |   |
| 30794              | Unsupported vinyl and polyethylene film and sheeting made from purchased resins      | 30798*             | Consumer and commercial plastics products, n.e.c.                     |       |   |
| 30795              | Unsupported plastics floor and wall coverings  | 30791*             | Unsupported plastics film, sheets, rods, tubes, from purchased resins |       |   |
| 30796              | Expanded or foamed plastics  | 30796*             | Construction plastics products  |       |   |
| 30797              | High pressure laminated plastics sheets  | 30792              | Foamed plastics products  |       |   |
| 30798              | Laminated plastics sheets, rods, tubes, other than high pressure                     | 30793*             | Laminated plastics sheets, rods, tubes                                |       |   |
| 30799              | Fabricated plastics products, n.e.c.   | 30793*             | Laminated plastics sheets, rods, tubes                                |       |   |
|                    |  | 30791*             | Unsupported plastics film, sheets, rods, tubes, from purchased resins |       |   |
|                    |  | 30794*             | Packaging and shipping containers, plastics                           |       |   |
|                    |  | 30795*             | Industrial plastics products  |       |   |
|                    |  | 30796*             | Construction plastics products  |       |   |
|                    |  | 30797*             | Plastics dinnerware, tableware and kitchenware                        |       |   |
| 32722              | Precast and prestressed concrete products, except concrete pipe                      | 30798*             | Consumer and commercial plastics products, n.e.c.                     |       |   |
| 32950              | Minerals and earths, ground or otherwise treated                                     | 32722              | Precast concrete products   |       |   |
| 32961              | Mineral wool for structural insulation   | 32723              | Prestressed concrete products   |       |   |
|                    |  | 32950*             | Minerals and earths, ground or otherwise treated                      |       |   |
| 32962              | Mineral wool for industrial and equipment insulation                                 | 32961              | Mineral wool for structural insulation                                |       |   |
|                    |  | 32950*             | Minerals and earths, ground or otherwise treated                      |       |   |
| 33341              | Primary aluminum-base alloys (pig, ingot, shot, etc.)                                | 32962              | Mineral wool for industrial and equipment insulation                  |       |   |
| 33342              | Primary unalloyed aluminum   | 33347              | Aluminum ingot made in primary aluminum industry                      |       |   |
| 33411              | Secondary aluminum base alloy. (ingot, shot, etc.)                                   |                    |   | 33348 | Aluminum extrusion billet made in primary aluminum industry |
|                    |  |                    |   | 33417 | Aluminum ingot made by secondary smelters                   |
|                    |  |                    |   | 33418 | Aluminum extrusion billet made by secondary smelters        |

\*Represents part.



## Comparability of Product Classes

### Part 2. 1958 Census of Manufactures as Related to 1963 Census of Manufactures--Con.

| 1958               |  | 1963 equivalent    |   |
|--------------------|--|--------------------|---|
| Product class code | Product class description  | Product class code | Product class description   |
| 33520 <sup>1</sup> | Aluminum-base alloys made in aluminum rolling mills  | 33527              | Aluminum ingot made in aluminum rolling mills   |
|                    |  | 33528              | Aluminum extrusion billet made in aluminum rolling mills  |
| 33573              | Nonferrous metal wire, except insulated, but including woven wire products (other than aluminum or copper)                                     | 33573              | Nonferrous metal wire, except insulated (excluding aluminum and copper)   |
|                    |  | 33575              | Nonferrous wire cloth and other woven wire products made in nonferrous wire drawing plants                                    |
| 34434              | Gas cylinders and other boiler shop products   | 34432              | Fabricated steel plate, including stacks and weldments  |
|                    |  | 34434              | Gas cylinders   |
| 34435              | Metal tanks complete at factory (standard line, pressure and nonpressure) and metal septic tanks   | 34435              | Metal tanks complete at factory (standard line, pressure)   |
|                    |  | 34437              | Metal tanks complete at factory (standard line, nonpressure)  |
| 34436              | Metal tanks and vessels, custom fabricated at the factory  | 34438              | Metal tanks and vessels, custom fabricated at the factory   |
|                    |  | 34439              | Metal tanks and vessels, custom fabricated and field erected  |
| 34491              | Ornamental and structural metal work   | 34660              | Ornamental and structural metal work  |
| 34522              | Special industrial fasteners, other than standard types  | 34522              | Special industrial fasteners  |
|                    |  | 34523              | Headed products (produced by cold and hot heading) other than industrial fasteners  |
| 34817              | Wire cloth and other woven wire products, not produced by wire drawers   | 34814              | Ferrous wire cloth and other woven ferrous wire products, from purchased wire   |
|                    |  | 34815              | Nonferrous wire cloth and other woven nonferrous wire products  |
| 35323              | Mining machinery and equipment (other than underground equipment and crushing, pulverizing, and screening plants, stationary)                  | 35323              | Mining machinery and equipment (other than underground equipment and crushing, pulverizing, and screening plants, stationary) |
|                    |  | 35324              | Parts and attachments for mining machinery and equipment  |
| 35811              | Automatic merchandising machines, refrigerated   | 35811<br>35812     | Automatic vending machines (complete units)<br>Coin-operated mechanisms and parts for automatic vending machines              |
| 35812              | Automatic merchandising machines, except refrigerated  |                    |   |
| 35840              | Commercial and industrial vacuum cleaners, including parts and attachments   | 35893              | Commercial and industrial vacuum cleaners, including parts and attachments  |
| 36421              | Residential type electric fixtures   | 36421              | Residential type electric fixtures (except portable)  |
|                    |  | 36427              | Residential type electric fixtures (portable)   |
| 36621              | Commercial, industrial, and military electronic communication equipment, except broadcast equipment and home-type intercommunication equipment | 36621              | Radio and television commercial communication equipment   |
|                    |  | 36627              | Space satellite-borne communication systems (complete package)  |
| 36624              | Electronic navigational aids   | 36624              | Electronic navigational aids (except missile-borne and space vehicle-borne equipment)   |
|                    |  | 36628              | Missile-borne and space vehicle-borne navigation and guidance systems and equipment   |
| 36791              | Solid-state semiconductor devices  | 36740              | Solid-state semiconductor devices   |
| 37221              | Aircraft engines for United States military customers and all missile engines  | 37221              | Aircraft engines for United States military customers   |
|                    |  | 37225              | Complete missile or space vehicle engines and/or propulsion units   |

\*Represents part.

<sup>1</sup>Did not exist as a product class in 1958. This code was utilized especially to accommodate the products indicated.

## Comparability of Product Classes

### Part 2. 1958 Census of Manufactures as Related to 1963 Census of Manufactures--Con

| 1958               |   | 1963 equivalent    |  |
|--------------------|---|--------------------|--|
| Product class code | Product class description   | Product class code | Product class description  |
| 37223              | Aeronautical services on aircraft and missile engines   | 37223              | Research and development on aircraft engines   |
|                    |   | 37226              | Receipts for research and development on complete missile or space vehicle engines and/or propulsion units |
|                    |   | 37227              | All other services on complete missile or space vehicle engines and/or propulsion units                    |
| 37224              | Aircraft engine parts (including parts for missile engines)   | 37224              | Aircraft engine parts and accessories  |
|                    |   | 37228              | Missile and space vehicle engine and/or propulsion units parts and accessories                             |
| 38112              | Engineering, laboratory, and scientific instruments (except aircraft flight, nautical, and navigational instruments and automatic pilots) | 38112              | Laboratory and scientific instruments  |
|                    |   | 38113              | Survey and drafting instruments and laboratory furniture   |
| 38310              | Optical instruments and lenses  | 38311              | Optical and analytical instruments and lenses  |
|                    |   | 38312              | Sighting and fire control equipment made from lenses, prisms, etc. produced in same plant                  |



# Appendix I

## ALPHABETIC INDEX OF MANUFACTURED PRODUCTS

This index is designed to assist in locating statistics on manufactured products as published in table 6A, "Products and Product Classes—Quantity and Value Shipped by All Manufacturing Establishments: 1963 and 1958," in the respective industry chapters of the 1963 Census of Manufactures volumes. The product code or codes and the page or pages in the industry chapters where statistics will be found are shown for each of the products or groups of products. The index covers the almost 6,000 coded products as reported in the 1963 Census of Manufactures and several thousand products covered by the Bureau of the Census Current Industrial Reports series of commodity surveys for 1963, which are also included in table 6A. Typically, the products alphabetized in this index are of a broad nature; more detail by size, material components, end use, etc., will be found in

table 6A itself. Occasionally, the same product or group of products will appear under more than one industry; page numbers so indicate. To assist in locating statistics for particular products, cross references or alternate ways of describing products are included in this index.

Product codes are based on the 1957 revised edition of the **Standard Industrial Classification Manual (SIC)**, as amended, issued by the Bureau of the Budget. Bureau of the Census expansion of the 4-digit industry coding of the SIC to 5-digit product classes and 7-digit products, as published in table 6A, is used as the basis for this alphabetic index.

Assorted product information is contained in tables other than 6A but no references to such other tables are shown here. For example, summary product information at the industry level may be found in table 5A and at the product class level in table 5B. Product class information may also be found in tables 6B to 6D and in table 8. Occasionally, detailed product information may be contained in tables other than 6A, typically in the table 6 series.

## Alphabetic Index of Manufactured Products

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| Accounting machines.....  | 3571201                         | 35F-12                   | Coke-oven byproducts.....  | 3312141                   | 33A-22        |
| Acetate yarn.....   | 2823111-27                      | 28B-14                   | Household.....   | 2842371                   | 28D-14        |
| Acetic acid, natural, hardwood distil-<br>lation.....                           | 2861261                         | 28E-11                   | Ammonium chloride.....   | 2819141-43                | 28A-24        |
| Acetylene welding and cutting apparatus   | 3548321, 31                     | 35C-25                   | Ammunition.....  | 19291--,                  | 19A-14        |
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| Inorganic.....  | 2819411-87                      | 28A-25                   | 1961012, 83,   |                           |               |
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